Countywide Recycling & Disposal Facility
Division of Republic Waste Services of Ohio
3619 Gracemont Street S.W.
East Sparta, Ohio 44626
Phone: 330-874-3855
Fax: 330-874-2426

January 4, 2008

Mr. Ed Gortner
Ohio Environmental Protection Agency
PO Box 1049
Columbus, OH 43216-1049

RE: SUBMITTAL OF THE EVALUATION OF EXPLOSIVE GAS MIGRATION
PER NOVEMBER 7, 2007 ORDER NO. 10
COUNTYWIDE RECYCLING AND DISPOSAL FACILITY

Dear Mr. Gortner:

Countywide Recycling and Disposal Facility (Countywide) hereby submits this Evaluation of Explosive Gas Migration in accordance with Order No. 10 of the Directors Final Findings and Orders (Orders) dated November 7, 2007.

Countywide considers this submittal as our compliance with Order No. 10. If you have questions or comments, please do not hesitate to contact me at (330) 874-3855.

Sincerely,

Countywide Recycling and Disposal Facility

Tim Vandersall mwb

Tim Vandersall, P.E.
General Manager

cc: Bill Skowronski, OEPA-NEDO
Kurt Princic, OEPA-NEDO
Jeff Martin, OEPA-CO
Kirk Norris, SCHD
Dan Aleman, CCHD
Todd Hamilton, CWRDF
Clarke Lundell, Republic Services
Michael Beaudoin, Earth Tech
Jim Walsh, Randy Mills, Cornerstone

SCS ENGINEERS

Evaluation of Explosive Gas Migration

Countywide Recycling and Disposal Facility

An Addendum to the Engineered Component Evaluation Study

Submitted To:

Republic Services of Ohio II, LLC

REPUBLIC SERVICES, INC.℠

Adding value at every stop!™

3619 Gracemont Street S.W.
East Sparta, OH 44626
(330) 874-3855

Submitted By:

SCS ENGINEERS
2060 Reading Road, Suite 200
Cincinnati, OH
(513) 421-5353

January 4, 2008
File No. 05206012.00

Offices Nationwide
www.scsengineers.com

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Countywide Recycling and Disposal Facility
Republic Services of Ohio II, LLC
Report Certification

Please accept my signature and Professional Engineer stamp below as evidence that the *Evaluation of Explosive Gas Migration* report, dated January 4, 2008 was prepared under my direct supervision as an Ohio registered Professional Engineer, and as required by Order No. 10 of the Director's Final Findings and Orders on Countywide RDF dated November 7, 2007.

STATE OF OHIO
JAMES
J.
WALSH
44053
REGISTERED
PROFESSIONAL ENGINEER

_____ Date 1/4/08

James J. Walsh, P.E.
SCS Engineers

1 INTRODUCTION

The November 7, 2007 Director's Final Findings and Orders issued by the Ohio EPA to Countywide RDF (Countywide) contained the following orders.

8. *Not later than 30 days after the effective date of these Orders, Respondent shall install soil gas survey monitoring probes, beginning at the haul road at the toe of the South Slope at approximately E:43,500, and place on every 100 feet to E:42,500, for a total of 11 probes. The probes shall be placed along the South Slope, and parallel to the soil buttress on the South Slope not more than 10 feet outside the limits of waste placement and the geosynthetic anchor trench, North of the gravel ditch, unless authorized in writing by Ohio EPA's DSIWM Enforcement Coordinator. The soil gas survey monitoring probes shall extend 30 feet vertically, and shall be screened no more than two feet below the surface and throughout the extent of the probe. Ohio EPA concurs with the use of direct push technology to determine the optimum placement of permanent monitoring probes.*

9. *Beginning 31 days after the effective date of these Orders, and continuing monthly thereafter until the March 2007 Orders are terminated, Respondent shall sample the soil gas survey probes required by Order No. 8 above for methane, hydrogen, carbon monoxide, and carbon dioxide, as well as the chemicals identified in Order No. 4.A.8 of the March 2007 Orders, and report the resultant data to Ohio EPA within 35 days after the sampling event.*

10. *Not later than 60 days after the effective date of these Orders, Respondent shall submit a report to Ohio EPA detailing the causes of any explosive gas migration outside the limits of waste placement. This report shall be submitted as an Addendum to the Respondent's ECES and shall include the results of findings associated with the requirements of Order No. 9 above, as well as an explanation of the results identified in Finding No. 14. Respondent's report required by this Order shall be written and signed by a Professional Engineer registered in the State of Ohio.*

The above Orders require Countywide RDF to perform a series of investigations and evaluations focused on the detection of explosive gas along a portion of the southern toe of the landfill. Order 8 requires that Countywide install eleven soil gas monitoring probes. Order 9 requires that gas samples from these probes be collected within 31 days from the date of the F&Os and monthly thereafter and that these samples be analyzed for the following parameters:

- Methane
- Hydrogen
- Carbon monoxide
- Carbon dioxide
- Volatile organic compounds using method TO-15
- Acetylene
- Ammonia

Order 10 requires that Countywide submit a report, as an addendum to the Engineered Component Evaluation Study (ECES) that was prepared in compliance with the March 2007 F&Os, within 60 days of the date of these F&Os. This report is presented in compliance with Order No. 10 and includes the results from activities required by Orders No. 8 and 9.

2 EVALUATION OF MONTHLY MONITORING EXCEEDANCES

EVALUATION OF REPORTED EXCEEDANCES AGAINST APPLICABLE THRESHOLD VALUES

Countywide RDF (CWRDF) is required to conduct explosive gas monitoring at the facility under the Ohio OAC 3745-27-12 rules entitled "Explosive Gas Migration Monitoring for Sanitary Landfill Facilities." That monitoring has been conducted since the facility opened to waste receipts in 1991. Monitoring has been performed in accordance with both the rules above and the site's approved Explosive Gas Monitoring Plan (EGMP).

Under the aforementioned rules, each facility is required to designate and install gas monitoring locations, either punch bar locations and/or permanent monitors. For each such monitoring location, the facility is required to establish a gas level limit, called an Explosive Gas Threshold Limit or EGTL.

Most of the current gas monitoring locations were originally designated and installed in 1991. EGTLs were established for each such location at that time. Monitoring was performed thereafter and compared to the EGTLs for each location. Any exceedance of the EGTL for any location was identified as such in monthly gas monitoring submittals to Ohio EPA.

The Ohio EPA EGMP rules changed in June 1994 in a manner that allowed for a new method of calculating EGTLs. The new EGTLs for each monitoring location could take effect at the time once a new EGMP for a given site was prepared. A new EGMP for Countywide was prepared and submitted to Ohio EPA in February 2001. It adopted the new set of Ohio EPA EGTLs at that time, and those would be effective with gas monitoring in March 2001. The old EGTLs were variable and calculated per the original Ohio EPA rules. The new EGTLs adopted under the new rules of 1994 and the new Countywide EGMP of 2001 were prescriptively 5% combustible gas at all in-soil gas monitoring locations, and 1.25% combustible gas at all occupied-space air monitoring locations.

However, it appears that Countywide continued to use the same field form which had the old EGTLs on them even after the new EGTLs for Countywide came into effect in March 2001. These forms were used up through October 2007. As a result of using that old field form during that period, many more exceedances of EGTLs for various gas monitoring locations were reported than was really the case.

Table 1 lists all EGMP gas monitoring result for Countywide during the period March 2001 through October 2007 that appeared to show an exceedance of EGTL in its submittal of the time, but upon further review, were below the applicable EGTLs and therefore not exceedances at all.

This Table 1 also lists those exceedances that remain above the EGTL even after the new and appropriate EGTL levels are applied. Results are flagged to indicate which of these two categories a given gas monitoring result falls into.

As can be seen in Table 1, actual exceedances (as defined per the 1994 rules) occurred only at permanent monitors K-S, L-S, M, and T-S (Figure 1). All these permanent monitors are located along the southern boundary of the landfill. The monitoring shows that the gas has a relatively low concentration of methane. The absence of significant positive pressures shows that there is not a large quantity of gas present and that there is no driving force for migration. Both the low concentrations and low pressures indicate that the gas encountered represents a very low hazard.

Table 1 also shows that there was a significant change in the gas concentrations at permanent monitor M, when gas exceedances were detected/reported, in May 2006. Prior to this time, when an exceedance was detected the initial gas readings were 0 percent followed by a sustained reading typically in the 5 to less than 20 percent range. After May 2006, the initial readings exhibited similar concentrations to the sustained readings. This change corresponds to the placement of 3 acres of temporary membrane cap on the south slope. The temporary membrane extended beyond the limits of waste in the area where the buttress and the current temporary membrane cap now exist. The initial temporary membrane reduced the emission of landfill gas through the soil cover. This resulted in an increase in gas pressure beneath the membrane, providing the driving force for landfill gas to migrate beneath the membrane, beyond the anchor trench/bottom liner system, and into the mine spoils, where it intermittently reached permanent monitor M.

It should be noted that the gas monitoring data and remaining EGTL exceedances at Countywide are full compliant with both the Ohio explosive gas rules for landfills and with the site's Explosive Gas Monitoring Plan (EGMP). Under those Ohio Rules and the landfill's Plan, if there are any EGTL exceedances, the site is required to perform bar punch monitoring as a contingency. The purpose of such bar punch gas monitoring is to determine the extent and levels of gas presence beyond the subject gas monitoring probe, toward any occupied structures on site and toward property lines. The intent here is to ensure that there is no hazard to human health or the environment in on site or off site occupied structures, or otherwise beyond the property line.

Bar punch monitoring performed has proven Rule and Plan compliance and the presence of no hazard in every case, and further that no violation or basis for violation exists. Some minor gas migration outward from waste deposits and beyond the limits of waste placement is allowed under the Rules, and is expected and common at all landfill sites, as long as such gas is managed and contained in the manner described above.

For these reasons, we believe that Countywide Landfill is in full accord with Ohio landfill rules and with good gas management practices to ensure no hazard to human health or the environment.

EVALUATION OF POTENTIAL IMPACT ON OCCUPIED STRUCTURES

On-site Structures

In addition to the probes, the on-site occupied structures are equipped with combustible gas alarms. To date, no alarms have sounded due to landfill gas in these structures. The EGTL for occupied structures is 25 percent of the LEL (1.25 percent methane). The alarms are factory set to alert at 1 percent methane.

Off-site Structures

The nearest off-site occupied structures are located across Gracemont Street, near the southeast corner of the landfill property. These structures are more than 1,000 feet from the limits of waste. The concentrations of gas detected at the probes and permanent monitors at the pressures measured do not represent a threat to these structures. There is no practical way for landfill gas to migrate to these structures. The intervening unconsolidated material consists primarily of mine spoils. This material is a relatively low permeability material. This and its variability, resulting in no areally extensive higher permeability zones or layers, ensure that it is highly unlikely that landfill gas could migrate to the off-site occupied structures. In addition, the falling topography to the south of the landfill would prevent potential migration from reaching the off-site structures. Any landfill gas would be discharged to the atmosphere.

3 EVALUATION OF POTENTIAL SOURCES OF EXPLOSIVE GAS

This section describes potential sources of explosive gas that have a potential for impacting the site. A brief description is presented for each potential source along with a brief evaluation of regarding the likelihood of an actual impact.

NATURAL GAS

Active, inactive, and abandoned oil and gas wells are present on the site and in the vicinity. This indicates the presence of naturally occurring hydrocarbons in economically extractable quantities in one or more geologic strata beneath the site. Figure 2 shows gas and oil wells in the site vicinity. There is the potential for both the natural migration of hydrocarbons, including methane, towards the surface and for improperly constructed or sealed wells to act as a conduit for the movement of methane into the shallow subsurface geologic units. There is no specific indication that natural gas is impacting the permanent monitors or the newly installed soil gas probes.

PIPELINE GAS

Two natural gas pipelines exist in the vicinity of the study area portion of the site. One runs approximately parallel to the eastern boundary of the facility along the southern half of the site and bisects the northern half of the site. A second natural gas pipeline bisects the southeast

corner of the site. The locations of the pipelines are presented in drawings in the EGMP. Given the location of the pipelines and the regular monitoring along the pipelines, it is unlikely that either pipeline is a potential source for the explosive gas detected along the southern edge of the landfill. The four active pipelines located to the north of the site are too far away from the study area to have any potential impact.

SHALE GAS

Some shale deposits present in northeast Ohio contain measurable quantities of methane that are not economically feasible for development, typically due to either small quantities of gas or the low permeability of the shale. The approved EGMP states that naturally occurring gas associated with the underlying shales has been detected at the site at low concentrations. There is no specific indication that shale gas is impacting the permanent monitors or the newly installed soil gas probes.

COAL GAS

Methane is typically present in coal bearing strata. The presence of methane is one of the most significant hazards associated with coal mining operations. Three geologic cross sections for the facility, Figure 8, Section E-E', Figure 10, Section G-G', and Figure 11, Section H-H' (Eagon, 2001) are presented in Appendix A and show that there are a number of coal seams still present in the vicinity of the landfill. A previous evaluation of gas at permanent monitor M (Earth Tech, 2004) describes the formation and characteristics of coal gas.

> *Coal bed methane occurs naturally as a product of the conversion of plant material to coal (the process known as coalification). Coal gas forms as a result of hydrogen desorption during coalification, initially forming water by combining hydrogen with the surrounding oxygen in the rock matrix, but turns to methane formation when the oxygen is used up.*
>
> *Coal bed methane produce from log rank sub-bituminous coal is composed almost entirely of methane, with minor amounts of (1.5 to 2%) of carbon dioxide (CO_2). Coal bed methane from higher rank bituminous coal may contain minor amounts (less than 3% each) of CO_2 and nitrogen (N_2), very minor amounts to trace amounts of higher hydrocarbons (ethane, propane, butane, etc.) and sometimes a trace of hydrogen sulfide (H_2S) (Rightmire, 1984).*

There is no specific indication that coal gas is impacting the permanent monitors or the newly installed soil gas probes, but it remains a possibility given the site geology, specifically the presence of coal units beneath the south slope area.

BURIED ORGANIC MATERIAL IN MINE SPOIL

It is reported that certain areas of the mine spoil fill also included significant quantities of organic material, including tree stumps. The decay of this organic material under anaerobic

conditions has the potential to generate methane. There is no specific indication that this potential source is impacting the permanent monitors or the newly installed soil gas probes.

LANDFILL GAS

The anaerobic decay of the putrescible portion of the solid waste in the landfill generates significant quantities of methane. While the quantity of methane generated in the reaction area has decreased significantly during the life of the reaction, measurable quantities are still generated and normal concentrations are generated in the areas outside the reaction. Typical quantities can be assumed to have been generated in the reaction area prior to the initiation of the reaction.

Two cross sections are presented to show the relationship of the landfill to the underlying geology and the permanent monitors and soil gas probes. The cross section locations are shown on Figure 3. Figure 4 is a north south section that passes through SGP-2. Figure 5 is a north south section that passes through SGP-6.

Potential Routes from the Landfill

Diffusion through the Liner System

While typically referred to as impermeable, the components of the bottom liner system do have a very small but measurable transmissivity for gasses. It is anticipated that the components of landfill gas can diffuse through both the membrane and the compacted clay portions of the liner system. Gas transmissivity through landfill geomembrane liners does occur even when there is no failure of the geomembrane. This is fact documented by literature and tests performed on geomembrane liners in the laboratory, and seen at other geomembrane lined landfills or building sites where geomembranes are installed for gas control purposes. Some gas can always move through such liners, but at low quality and quantity so as not to be a hazard. Gas transmissivity through recompacted clay liners and even tight geologies is also possible and have been documented before. Again, landfill gas presence could occur without or without a failure of the geomembrane liner. The migration rate would be very slow such that only very small quantities of gas could be transmitted and no significant pressures could be generated outside the liner system. As a result, there would be no driving force for migration beyond the immediate vicinity of the landfill. Given the concentrations of methane observed, it is unlikely that this is a significant source of the gas observed in the permanent monitors or in the newly installed soil gas probes.

Transmission through a Potential Breach in the Liner System

Two theories regarding a breach in the liner system have been posited by the Ohio EPA. The first is that a deep internal translational displacement of waste occurred and resulted in a tearing of the membrane portion of the liner on the southern bottom liner side slope. Monitoring performed in 2006 while the south slope was moving has led Countywide to conclude that a deep movement of this sort did not occur. This conclusion is documented in the report entitled *South Slope – Countywide RDF, Stability Analysis and Monitoring Plan* (P.J. Carey & Assoc., 2006). The second is that heat has impacted the containment properties of the liner system. Regardless

of any potential impact on the membrane, the liner system in Cells 1 through 3 includes 5 feet of recompacted clay in addition to the 60 mil HDPE membrane or, in Cells 4 through 6, 3 feet of recompacted clay and a geocomposite clay liner (GCL) in addition to the 60 mil HDPE membrane. There is no evidence that the membrane portion of the liner system has been affected. The presence of redundant engineered clay liner components makes this pathway unlikely in any case.

Transmission through Geocomposite Drainage Layer

Figure 6 shows a typical liner anchor trench configuration used at Countywide. As can be seen, the geocomposite drainage layer (a highly-transmissive synthetic material intended to transmit leachate down to the leachate removal pumps) is anchored at the top of the perimeter of the landfill. It is likely that pressurized landfill gas is present in this layer and that some of it can be transmitted outside the limits of waste. The amount of fugitive gas that results from this mechanism is a function of the gas pressure present at a location as well as dependent on other construction variables at a particular location (type of soil used to anchor the geocomposite, etc.)

Transmission through the Buttress Material

The buttress was placed on a portion of the southern slope of the landfill to reinforce the stability of that portion of the south slope which has been observed to move in the Summer and the Fall of 2006 (see Figures 4 and 5). Prior to construction of the buttress, horizontal movement (less than 10 feet) of soil material near the toe of the south slope had been measured. Additional unmeasured movement may have also occurred prior to buttress construction. It is not known if movements were occurring in soil placed at the south toe, or in waste material, or (likely) some combination of the two. Nevertheless, the buttress effectively arrested south slope movement.

In order to control odors, a portion of the landfill, including the buttress, was covered by the temporary membrane cap. The temporary membrane extends beyond the limit of waste as defined by the crest of the side slope liner (see Figures 4 and 5). Under normal conditions, any gas passing through the intermediate soil cover would dissipate in the atmosphere. The landfill gas present near the toe of the landfill is now confined by the temporary membrane. A pressure or concentration gradient could result in gas moving into the granular material used to construct the buttress. As can be seen on Figures 4 and 5, the base of the buttress extends well outside the permitted limit of waste disposal and so it provides a transmission pathway from the waste into the mine spoil outside the liner. As noted in Section 2 above, the gas concentrations that were measured and reported as exceedances exhibited an increase when the initial temporary membrane cap was first installed in this area in May 2006.

Migration Away from Potential Landfill Gas Sources

There are numerous underground utilities running primarily parallel to the toe of the landfill that could potentially act as preferential pathways that could allow landfill gas from one location to spread laterally along the toe of slope (this could be an explanation for the methane detected in SGP-11).

However, whether landfill gas is primarily related to the transmission through the geocomposite layer or the buttress material, the geologic setting at Countywide is not conducive to movement

of potentially harmful levels of gas over significant distances away from the landfill. The mine spoil material consists primarily of weathered shale with varying admixtures of underclays and weathered fine sandstones to siltstones. While the material is variable, it is generally a low permeability material. In addition, the topography at the site does not present continuous lateral pathways for gas movement off the landfill property.

4 FIELD INVESTIGATION PROGRAM

Order 8 required that 11 soil gas monitoring probes be installed along a portion of the southern edge of the landfill. The probes were to begin near the haul road at approximately E:43,500 and be spaced at approximately 100 foot intervals to the west to E:42,500. This portion of the south slope is believed to have been selected by the Ohio Environmental Protection Agency (OEPA) due to the presence of methane detected in one of the site's nearby permanent monitors (Probe M), and due to the fact that the waste slope in this area was observed to have moved in the Summer and Fall of 2006. The movement that was observed in 2006 was arrested by the construction of a soil buttress which was then capped with a synthetic (HDPE) temporary membrane cap. See Figures 1, 4, and 5.

Originally, the order required that the probes be placed "*along the South Slope, and parallel to the soil buttress on the South Slope not more than 10 feet outside the limits of waste placement and the geosynthetic anchor trench, North of the gravel ditch, unless otherwise authorized in writing by Ohio EPA's DSIWM Enforcement Coordinator.*" The probes were to be 30 feet deep and were to be screened to within 2 feet of the ground surface. No soil sampling was required.

Seven of the locations described by Order 8 would have been located on the buttress and, if constructed per the order, would have required putting a drill rig on the temporary membrane cap and drilling through it in multiple locations, and also would have resulted in the screened portion of the probes being installed in the buttress material, and thus not representing conditions in the mine spoil material which is adjacent to the base liner side slope for most of the landfill in this area. Three of the other original locations had conflicts with underground utilities and/or had significant drilling rig access issues. As a result, alternative locations were proposed for 10 of the 11 original locations. Following an on-site meeting with OEPA personnel and subcontractors, Countywide received a letter approving 8 of the 10 alternate locations. Two locations would attempt to take advantage of existing access ramps that were constructed over the exposed temporary membrane cap to provide access for the drilling of inclinometers. The OEPA also requested that these two probes (SGP-2 and SGP-6) be screened in a different manner from the order. These two probes were to be screened from a depth 10 feet below the anchor trench to a depth equivalent to the bottom to the adjacent cell or to the mine spoil/bedrock interface, which ever was encountered first. In addition, OEPA requested that soil samples be collected from these two probes.

INSTALLATION OF SOIL GAS PROBES

The soil gas probe installation was performed from December 3 through December 7, 2007. The drilling was performed by Jersey West Drilling, Inc. under the supervision of Randall Mills of SCS Engineers. The borings were advanced using a track mounted, self-propelled, direct-push rig. The nine probes that were to be constructed to a 30-foot depth were completed first. The

initial probe drilled, SGP-5, was advanced using 3-inch diameter probe rod equipped with a sacrificial point. The mine spoil proved more difficult to advance through than anticipated and all subsequent shallow probes were advanced using 4-inch O.D solid augers. The augers were advanced to a depth of 35 feet below ground surface to attempt to ensure that the borehole would remain open to the target depth of 30 feet once the augers were withdrawn. Any remaining open annulus below 30 feet was filled with coarse sand.

The probes were constructed of 1-inch I.D. machine slotted PVC screen and riser. The screens were placed from a depth of 30 feet below ground surface to a depth of 2 feet below ground surface. The annulus around the screen was backfilled with clean coarse sand, to approximately ½ foot above the top of the screen. The remaining annulus was filled with hydrated bentonite chips. The probes were completed with a slip cap with a self sealing quick connection to facilitate gas sample collection. No protective casings were installed due to the extremely shallow depth to the top of the screen. Each soil gas probe location was marked with a steel fence post with a plaque with the probe number prominently displayed.

The two deeper borings, SGP-2 and SGP-6, were drilled and installed on December 6 and 7, 2007. Given the weather conditions, the ramps up the side of the buttress over the temporary membrane had to be improved to allow the rig to access the staked locations. Soil samples were collected continuously, in four foot intervals, using the direct push sampling methods. The samples were retained in approximately 1 ½ inch diameter acetate tubes. When friction increased to the point that advancement of the probe casing became difficult, the probe casing was withdrawn and the borehole was widened using the augers. When the augers had been advanced to the depth of the last sample, the augers were removed, the probe casing was reinstalled, and the sampling resumed.

In SGP-2, soil fill was encountered in the access ramp and the buttress until mine spoil was encountered at the original ground surface at a depth of approximately 26 feet. Probe and auger refusal was encountered at approximately 43.5 feet below ground surface. No liquid entered the boring during drilling or probe installation. A 10-foot screen was installed from approximately 41.5 to 31.5 feet below ground surface. Clean coarse sand was placed around the screen to a depth of approximately 29 feet below ground surface. The remaining annulus was filled with hydrated bentonite chips. The screened interval is located within mine spoils below the original ground surface.

In SGP-6, soil fill was encountered in the access ramp and the buttress to a depth of approximately 12 feet. The 12 to 16 foot sample encountered a hard object or zone at approximately 13 feet. There was no sample recovery in the tube for this sample depth range. Only a small amount of a black, saturated, fibrous material was retained in the nose of the sampler. The 16 to 20 foot sample retrieved approximately 18 inches of black saturated material that included plastic and wood fragments. No sample was recovered from the 20 to 24 foot interval. The 24 to 28 foot sample retrieved 2 feet of mine spoil, which continued to a depth of 44 feet where auger refusal was encountered. Following the 12 to 16 foot sample, the probe rods contained a black liquid when removed from the borehole after each sample.

The borehole extended below the original ground surface which was encountered at approximately 26 feet below the current ground surface. A 10-foot screen was lowered through

the probe casing to depth of 44 feet and the probe casing was withdrawn. As the probe casing was removed, the borehole caved around the riser at a depth of 16 feet. Therefore it was not possible to install a clean sand pack around the screen. The borehole above 16 feet was sealed with hydrated bentonite chips.

The locations of the eleven probes are shown on Figure 3. Boring logs and as-built diagrams for the probes are presented in Appendix B.

In addition to the probes required by the F&Os, an additional probe (SGP-12) was installed. SGP-12 is located between the landfill and the southeast corner of the property (Figure7). The objective of this probe was to determine whether explosive gas was present nearer to the property boundary than the existing permanent monitor network in the direction of the occupied structures south of Gracemont Street.

SAMPLING AND ANALYSIS FOR TO-15 AND ASTM D-1946

The soil gas probes were sampled on December 7 and 8, 2007. Samples were collected in Tedlar bags using the same vacuum box sampling apparatus utilized to collect similar samples from the gas extraction wells. The probes were also monitored for methane, carbon dioxide, oxygen, and balance gas using a GEM meter. Once sample collection was completed, depth to liquid measurements were made using an electronic water level indicator. The samples were collected by personnel from AEG, Inc. The samples were transported by AAL. The TO-15 analyses were performed by Data Chem Laboratories. The modified ASTM D-1946 analyses (methane, hydrogen, carbon dioxide, carbon monoxide, and acetylene) were performed by Envantage Laboratories. Drager tube testing for ammonia was performed on the bag samples by AAL.

5 RESULTS OF SAMPLING AND ANALYSIS

TO-15

The laboratory reports are presented in Appendix C. The results are summarized in Table 2. The following compounds were detected in some or all the probes:

Dichlorodifluoromethane	Benzene	m,p-Xylene
Freon 114	Tetrahydrofuran	o-Xylene
Carbon Disulfide	Cyclohexane	Styrene
Acetone	Heptane	4-Ethyl toluene
2-Butanone	4-Methyl-2-Pentanone	1,3,5-Trimethlybenzene
Ethyl Acetate	Toluene	1,2,4-Trimethlybenzene
Hexane	2-Hexanone	1,4-Dichlorobenzene
	Ethylbenzene	

In addition to the above compounds, vinyl chloride is present at reportable concentrations in SGP-9 and SGP-11. An estimated concentration was reported in SGP-9. Chloromethane is reported in 4 of the 11 probes.

It should be noted that the results from SGP-6 cannot be compared to the results from the other soil gas probes. The screened interval in SGP-6 is completely covered by the liquid present in the probe. As a result, the gas samples collected from SGP-6 represent, in essence, headspace samples. The compounds detected by the TO-15 analysis diffused from the liquid into the air above the liquid in the probe.

ASTM D-1946 AND AMMONIA

The preliminary laboratory reports for the modified ASTM D-1946 and ammonia testing are also presented in Appendix C. The results are summarized in Table 3. Hydrogen was detected in only two probes, SGP-6 and SGP-9. Carbon dioxide concentrations ranged from non-detect to 35 percent. Methane concentrations range from non-detect to 12 percent. Acetylene concentrations were all non-detect. Carbon monoxide was detected in six of the eleven probes at concentrations ranging from 11 to 147 ppm. The ammonia Drager tube results were all non-detect.

The results for the GEM monitoring for the December 7 and 8, 2007 and from January 2, 2008 are presented in Table 4 and Table 5. The GEM results from the December 7 and 8, 2007 sampling event are generally consistent with the laboratory results. The January 2, 2008 results show less methane. Given the variability exhibited by the permanent monitors, differences are not unexpected. The decrease in methane may be related to high barometric pressure. The negative pressures noted during the January 2, 2008 sampling event are an artifact of taking the GEM meter readings after the bag sample collection. No methane was detected at SGP-12.

6 DISCUSSION

SOURCE OF EXPLOSIVE GAS

Six potential sources of explosive gas have been identified for the study area, including:

- Landfill gas
- Shale gas
- Coal gas
- Natural gas
- Pipeline gas
- Decomposition of organic material within the mine spoils

It is unlikely that the gas pipelines or deep natural gas are the source for any of the explosive gas detected in either the soil gas probes or the permanent monitors. There is no specific indication that shale gas, coal gas, or the decomposition of organic material in the mine spoil fill are impacting the permanent monitors or the newly installed soil gas probes, but these remain potential contributors of some portion of the methane observed at these locations.

The similarity between the VOCs detected in the newly-installed soil gas probes, SGP-1 through SGP-11, and the VOCs in nearby landfill gas extraction wells suggests that landfill gas is likely a source of the volatiles present in the gases in the soil gas probes. Figure 8 presents a comparison between the methane concentrations and the sum of the concentrations of compounds detected by the TO-15 analyses. Figure 8 shows that there is not a direct correlation between the methane concentrations and the quantity of volatile compounds present. This could indicate that some or all of the methane present in the soil gas probes could be from a source other than landfill gas.

The current data cannot rule out some contribution of methane from natural gas, shale gas, coal gas, or the decay of organic material in the mine spoil fill. A VOC analysis has been performed (August 2004) at only one of the permanent monitors that have exhibited actual EGTL exceedances, so it is not possible at this time to compare the trace VOC constituents in the gas detected in all the permanent monitors with actual exceedances to the VOCs in the landfill gas.

Nevertheless, it is our conclusion that the gas observed in the permanent monitors, as well as the gas observed in the new probes (SGP series) at the south toe consists primarily of landfill gas. The likely pathways from the landfill for this gas are through the geocomposite layer at the anchor trench and through the permeable buttress material, as well as possible lateral (parallel to limit of waste) movement through landfill utility corridors.

One of the presumed purposes of this landfill gas migration investigation was to determine if there had been a deterioration or more significant compromise of the landfill's bottom geomembrane liner, as might be exhibited by the presence of landfill gas outside the limits of waste placement. The results of this investigation have not shown that there has been such a failure. In fact, it should be noted that landfill gas investigations, such as the one performed here, are highly unlikely to ever prove the presence or absence of a compromise in the bottom geomembrane.

Methane has been found outside the limits of waste placement, and at least one source of this methane is likely solid waste placed inside the waste limits of the Countywide Landfill. But the levels seen are low in both quality (concentration) and in quantity (driving force sufficient for migration to substantial distances, or accumulation in occupied spaces in a volume sufficient to cause a fire or explosion hazard). There are a limited number of pathways near the landfill, that can foster limited lateral migration of landfill gas. But the quantity and quality of that gas, the nature of subsurface conditions, and the substantial distance to property lines and off-site occupied structures all combine to mean that there is no off-site hazard and no violation of the Ohio landfill rules.

CONSEQUENCE OF POTENTIAL LANDFILL GAS MIGRATION

It is clear that the explosive gas detected in permanent monitors K-S, L-S, M, and T-S does not represent a significant risk to either the on-site occupied structures, off-site occupied structures, or human health or the environment. The monitoring performed in the vicinity of the on-site occupied structures and/or explosive gas alarms installed in the on-site occupied structures provide adequate protection for the occupants. There has been no indication from the monitoring of any significant risk to these structures. The distance and the topography between the landfill and the nearest off-site occupied to the south of the landfill also contribute to ensuring that the

explosive gas detected in the permanent monitors does not represent a risk to these off-site occupied structures.

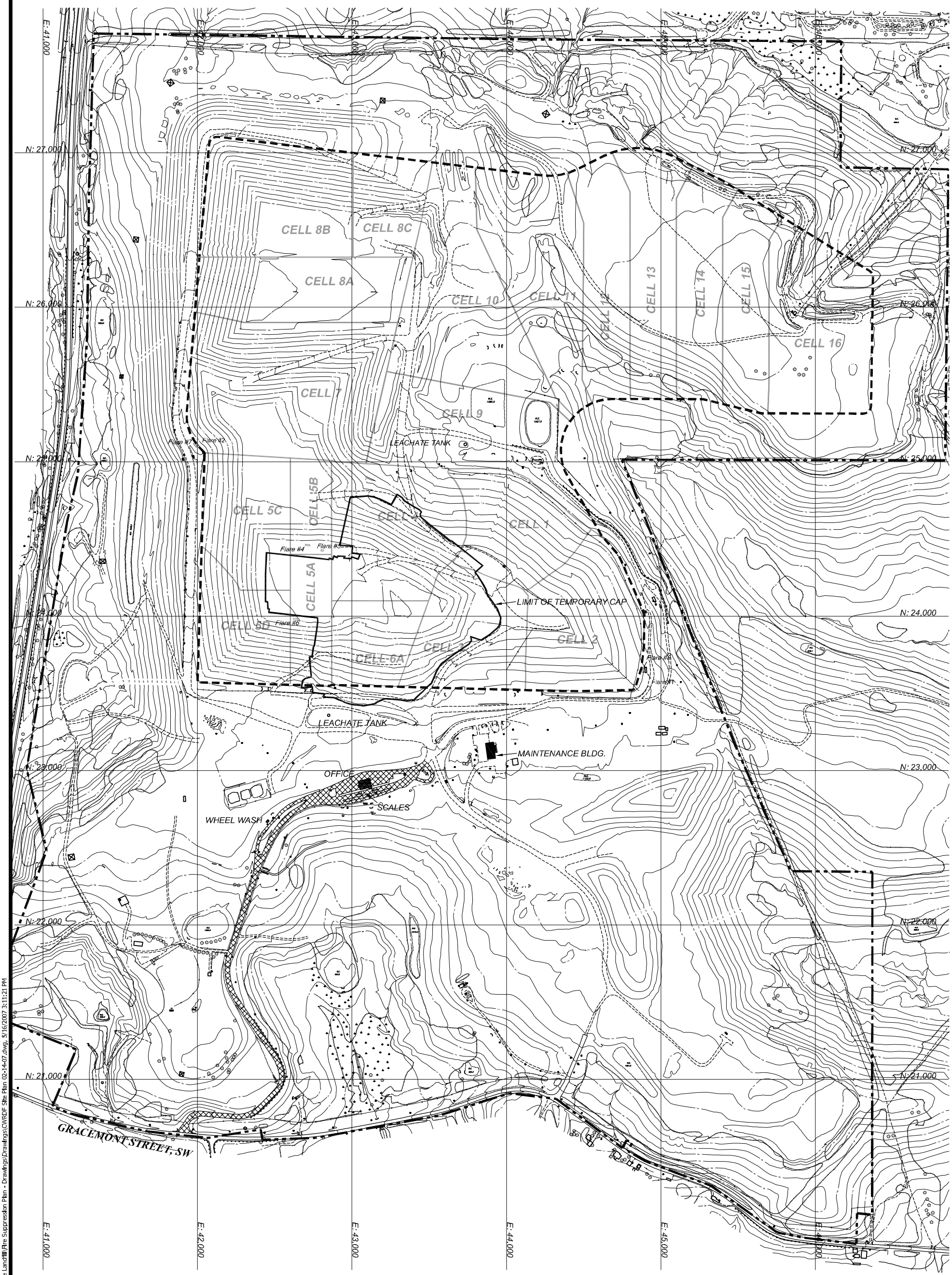
7 SUMMARY

We believe that landfill gas migration at the Countywide Landfill is well controlled, and that there is no need for further investigation or for any remediation to be performed.

Positive concentrations of methane gas have been detected in permanent explosive gas monitoring locations at Countywide Landfill, and at new SGP monitoring locations. These positive detections are generally intermittent and of limited concentration and quantity, indicating that such levels are small and not hazardous. Although there are multiple plausible sources of this gas (including both natural and manmade sources other than the landfill), part of this is likely landfill gas migrating outward from waste limits, but staying well within the landfill property. There are several pathways for such gas to migrate outward – including primarily the soil gap between the base liner in the anchor trench and the temporary geomembrane cap.

Whenever measured gas concentrations are found at permanent monitoring locations and exceed the regulatory EGTLs, punch bar monitoring is performed to determine the areal extent and levels of this gas. Such contingency monitoring demonstrates that gas is not endangering occupied structures on site, or the property line and the off-site structures located beyond. All monitoring results and bar punching demonstrates clearly that the site is in full compliance with the Ohio explosive gas rules and with the site's Gas Monitoring Plan of record. Limited but contained gas migration within landfill property limits as is the case at Countywide is expected, common at all landfill sites, is allowed under the Rules, and is no basis for any concern of a hazard or violation.

Figures



N
W
E
S

Scale: 1 in . = 600 ft.

0' 600' 1200' 1800'

Graphic Scale

COUNTYWIDE RDF

SCALE. 1" = 600', CTR = 10'		REVISIONS	PROJECT. FACILITY SITE PLAN
SURVEYED.			
DRAWN. BWS	05/16/07		
CHECKED. CCV	05/16/07		
REVISED DATE.			SHEET TITLE. PLAN VIEW

DIVERSIFIED ENGINEERING INC.
304 East High Avenue
New Philadelphia, Ohio 44663
Phone: (330) 364-1631
Fax: (330) 364-1031
e-mail: mail.dei@neohio.twcbc.com

FILE ID. CWRDF Site Plan 02-14-07

SHEET 1 OF 1

\\Server\d on server\LANDFILLS\Countywide Landfill\Fire Suppression Plan - Drawings\Drawings\CWRDF Site Plan 02-14-07.dwg, 5/16/2007 3:11:21 PM

OIL AND GAS WELL SPOT MAP

FIGURE 2

Well Symbols

- Unknown
- Lost Hole
- Brine
- Drilled Unknown status
- Dry Hole
- Dry Gas Show
- Dry Oil Show
- Expired Permit
- Gas
- Gas Oil Show
- Gas Show
- Gas and Oil Show
- Injection
- Observation
- Converted to Water
- Oil
- Oil and Gas
- Oil w/Gas Show
- Oil Show
- Permitted Location
- Plugged Brine
- Plugged Gas
- Plugged Injection
- Plugged Oil
- Tool Lost in Hole
- Solution Mining
- Strat Test

Map provided by the Ohio Geological Survey
http://www.ohiodnr.com/geosurvey

INDEX MAP

0.025 0.05 0.1 0.15 0.2 Miles

0.025 0.05 0.1 0.15 0.2 Kilometers

DISCLAIMER
This product of the Ohio Department of Natural Resources, Division of Geological Survey is intended to provide general information only and should not be used for any other purposes. It is not intended for resale or to replace site-specific investigations.
These data were complied by the Ohio Division of Geological Survey, which reserves the publication rights to this material. If these data are used in the compilation of other data sets or maps for distribution or publication, this source must be referenced.

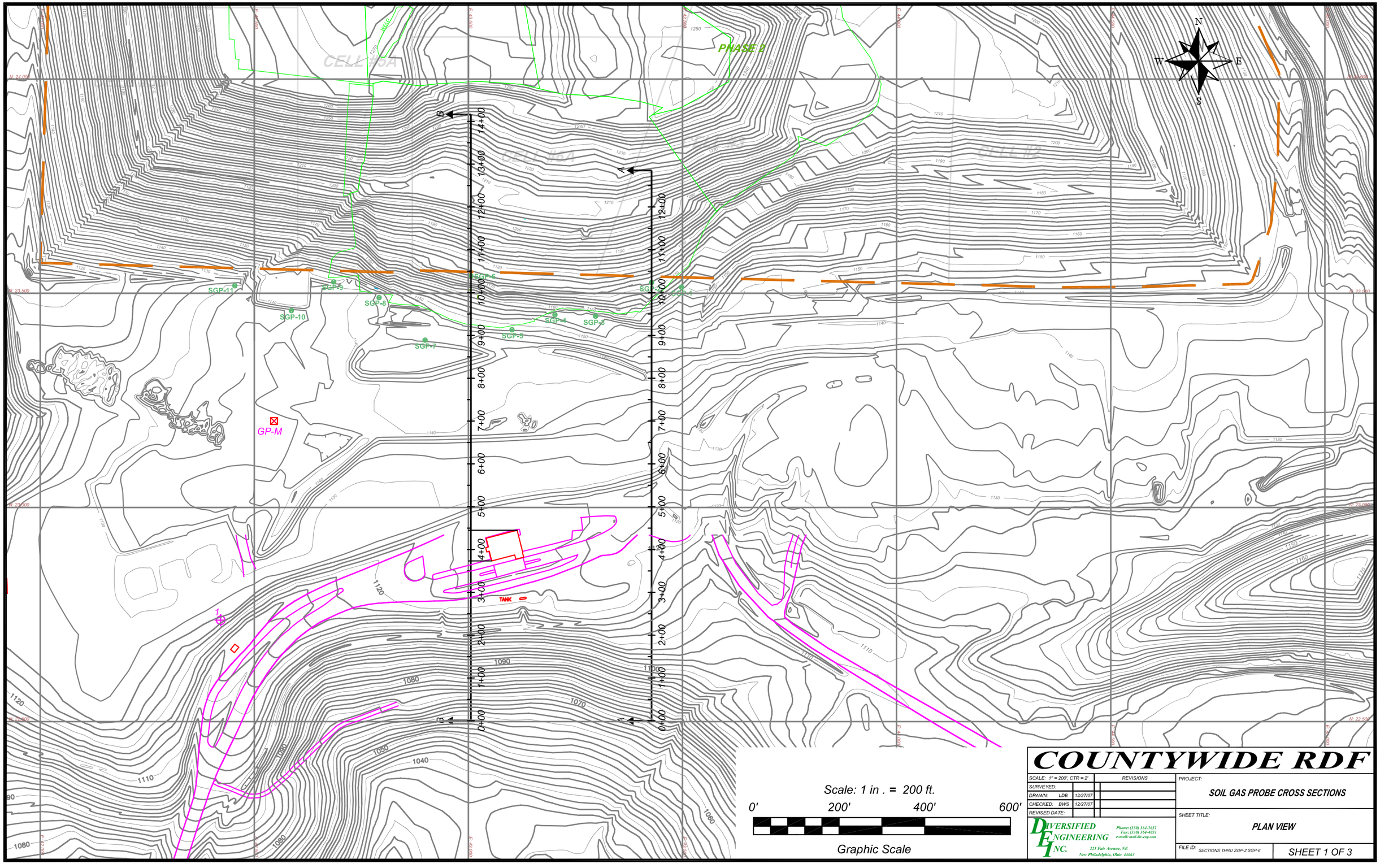
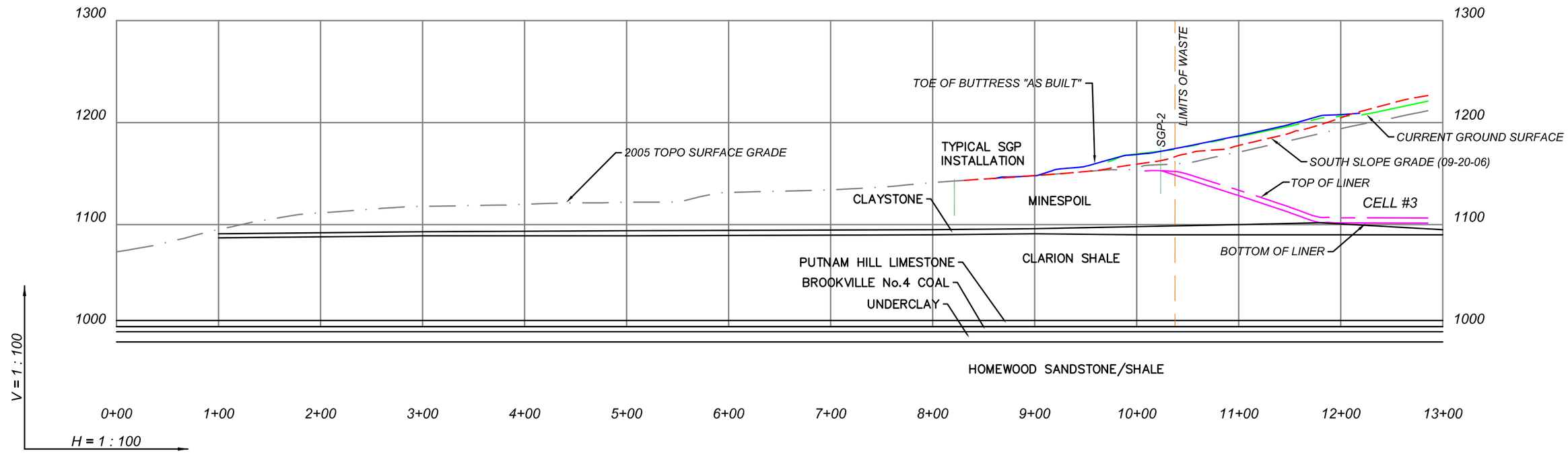

PHASE 2
CELL #5A
CELL #6A
CELL #2
SGP-1
SGP-2
SGP-3
SGP-4
SGP-5
SGP-6
SGP-7
SGP-8
SGP-9
SGP-10
SGP-11
GP-M
TANK
A
B
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
N
S
E
W
Scale: 1 in . = 200 ft.
0'
200'
400'
600'
Graphic Scale
COUNTYWIDE RDF
SCALE: 1" = 200', CTR = 2'
SURVEYED:
DRAWN: LDB 12/27/07
CHECKED: BWS 12/27/07
REVISED DATE:
REVISIONS
DIVERSIFIED ENGINEERING INC.
Phone: (330) 364-1631
Fax: (330) 364-4031
e-mail: mail.div-eng.com
225 Fair Avenue, NE
New Philadelphia, Ohio 44663
PROJECT:
SOIL GAS PROBE CROSS SECTIONS
SHEET TITLE:
PLAN VIEW
FILE ID: SECTIONS THRU SGP-2 SGP-6
SHEET 1 OF 3

FIGURE 3

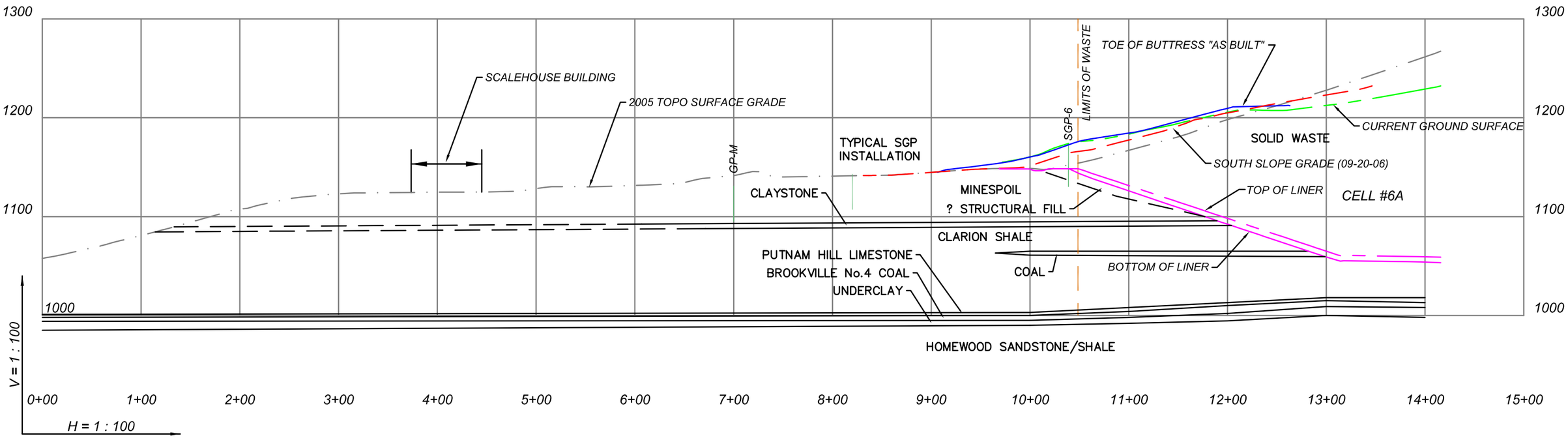


SECTION A-A

FIGURE 4

COUNTYWIDE RDF

SCALE: 1" = 100' H, 1" = 100' V.		REVISIONS	PROJECT: SOIL GAS PROBE CROSS SECTIONS
SURVEYED:			
DRAWN: LDB	12/27/07		
CHECKED: BWS	12/27/07		
REVISED DATE:			SHEET TITLE: CROSS SECTION A-A
DIVERSIFIED ENGINEERING INC. 325 Fate Avenue, NE New Philadelphia, Ohio 44663 Phone: (330) 364-1631 Fax: (330) 364-0031 e-mail: mail.div-eng.com			FILE ID: SECTIONS THRU SGP-2 SGP-6 — SHEET 2 OF 3

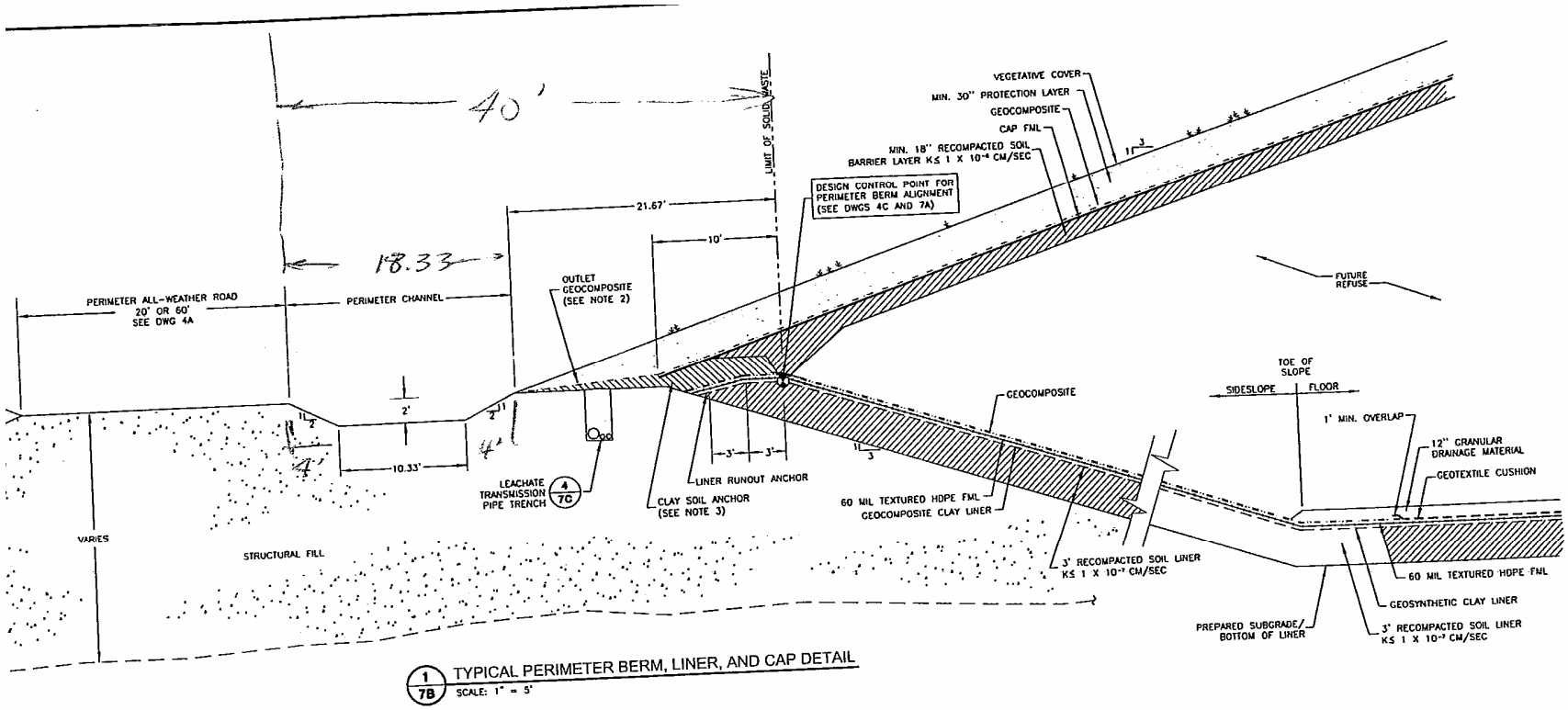


SECTION B-B

FIGURE 5

COUNTYWIDE RDF

SCALE: 1" = 100' H, 1" = 100' V.		REVISIONS	PROJECT: SOIL GAS PROBE CROSS SECTIONS
SURVEYED:			
DRAWN: LDB	12/27/07		
CHECKED: BWS	12/27/07		
REVISED DATE:			SHEET TITLE: CROSS SECTION B-B
DIVERSIFIED ENGINEERING INC. 225 Fair Avenue, NE New Philadelphia, Ohio 44663 Phone: (330) 364-1631 Fax: (330) 364-4031 e-mail: mail.div-eng.com			FILE ID: SECTIONS THRU SGP-2 SGP-6 — SHEET 3 OF 3



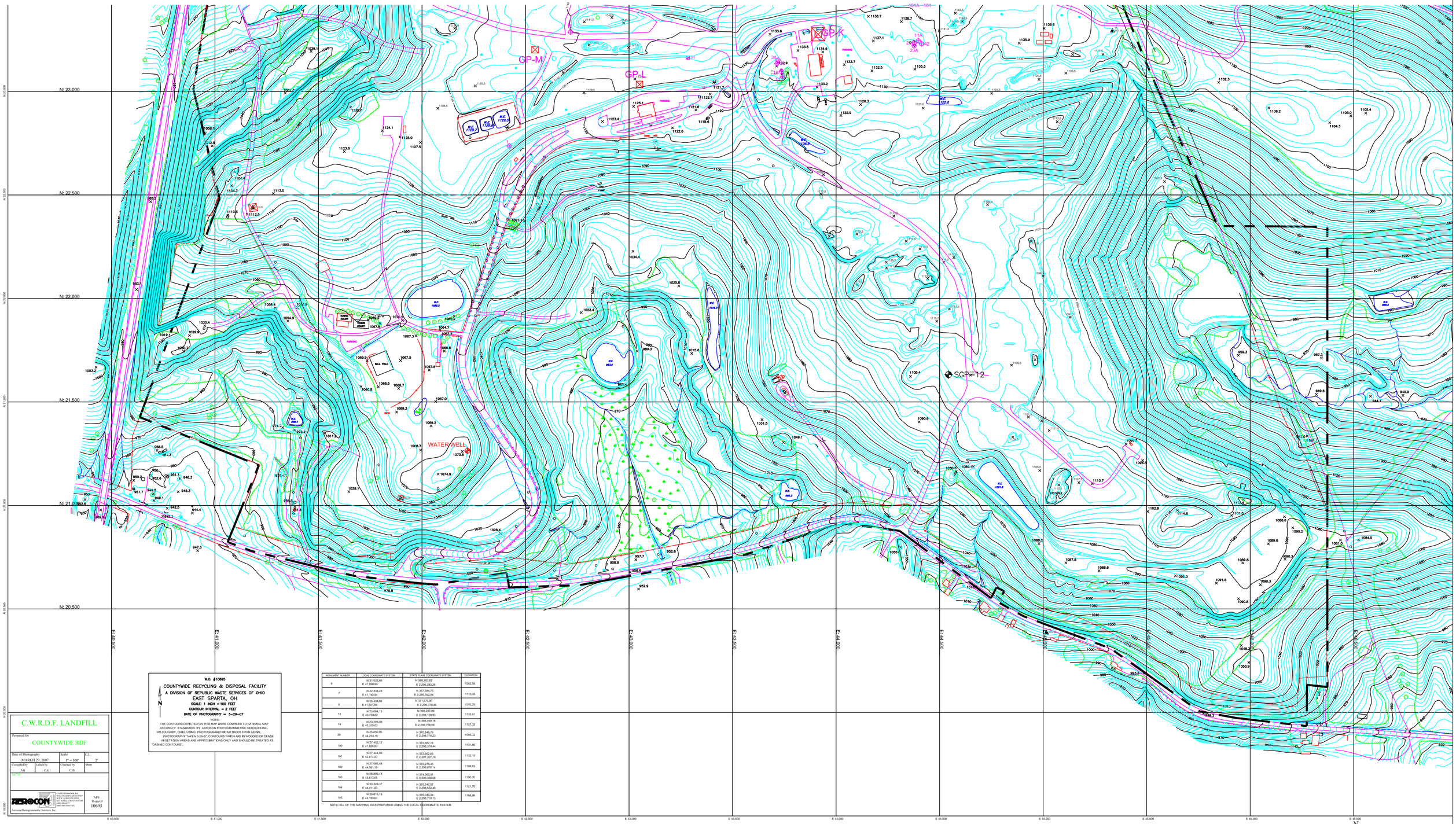
1/7B TYPICAL PERIMETER BERM, LINER, AND CAP DETAIL
SCALE: 1" = 5'

OF THE PTI APPLICATION.

2. THE CAP GEOCOMPOSITE SHOWN IN DETAIL 1 SHALL OUTLET TO THE PERIMETER DRAINAGE CHANNEL BY MEANS OF: A) EXTENDING THE GEOCOMPOSITE TO THE EDGE OF THE CHANNEL, OR B) TERMINATING THE GEOCOMPOSITE IN MINIMUM 6-INCH GRAVEL LAYER WHICH EXTENDS TO THE PERIMETER CHANNEL, OR C) TERMINATING THE GEOCOMPOSITE IN A PIPE TRENCH WITH A 4-INCH DIAMETER PERFORATED PIPE SURROUNDED BY GRAVEL, WHICH OUTLETS TO THE PERIMETER CHANNEL AT A MINIMUM SPACING OF 400 FEET.

[illegible] CLAY SOIL ANCHOR COMPACTED BY

Figure 6
Typical Anchor Trench Detail



W.O. #10695

COUNTYWIDE RECYCLING & DISPOSAL FACILITY
A DIVISION OF REPUBLIC WASTE SERVICES OF OHIO
EAST SPARTA, OH
SCALE: 1 INCH = 100 FEET
CONTOUR INTERVAL = 2 FEET
DATE OF PHOTOGRAPHY = 3-29-07

NOTE:
THE CONTOURS DEPICTED ON THIS MAP WERE COMPILED TO NATIONAL MAP ACCURACY STANDARDS BY AEROCON PHOTOGRAMMETRIC SERVICES INC., WILLOUGHBY, OHIO, USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY TAKEN 3-29-07. CONTOURS WHICH ARE IN WOODED OR DENSE VEGETATION AREAS ARE APPROXIMATIONS ONLY AND SHOULD BE TREATED AS "DASHED CONTOURS".

MONUMENT NUMBER	LOCAL COORDINATE SYSTEM	STATE PLANE COORDINATE SYSTEM	ELEVATION
6	N 21,032.86 E 41,896.90	N 366,267.62 E 2,296,283.26	1062.58
7	N 22,438.29 E 41,182.84	N 367,684.75 E 2,295,592.84	1113.35
8	N 20,438.96 E 41,001.89	N 371,677.90 E 2,296,076.45	1092.29
13	N 23,064.13 E 43,739.60	N 368,287.86 E 2,298,199.93	1132.61
14	N 23,292.08 E 45,335.03	N 368,489.18 E 2,299,708.59	1127.32
39	N 25,955.95 E 44,293.18	N 370,845.76 E 2,298,719.25	1066.32
100	N 27,452.12 E 41,938.00	N 372,687.16 E 2,296,319.44	1131.80
101	N 27,444.09 E 42,814.00	N 372,662.65 E 2,297,307.16	1132.10
102	N 27,086.48 E 44,597.19	N 372,275.40 E 2,299,076.14	1108.63
103	N 28,892.18 E 45,815.68	N 374,060.51 E 2,300,330.58	1100.20
104	N 30,349.37 E 44,011.00	N 375,547.07 E 2,298,552.46	1121.70
105	N 30,816.19 E 42,168.63	N 376,045.04 E 2,296,719.13	1168.99

NOTE: ALL OF THE MAPPING WAS PREPARED USING THE LOCAL COORDINATE SYSTEM

C.W.R.D.F. LANDFILL

Prepared for
COUNTYWIDE RDF

Date of Photography	Scale	C.I.
MARCH 29, 2007	1" = 100'	2'
Compiled by: AH	Edited by: CAH	Checked by: CJB
Sheet		

NOTE:

AEROCON
4717 CLEARWATER RD.
WILLOUGHBY, OHIO 44094
WWW.AEROCON.COM
(440) 946-0330 OFFICE
(440) 946-0331 FAX
Aerocon Photogrammetric Services, Inc.

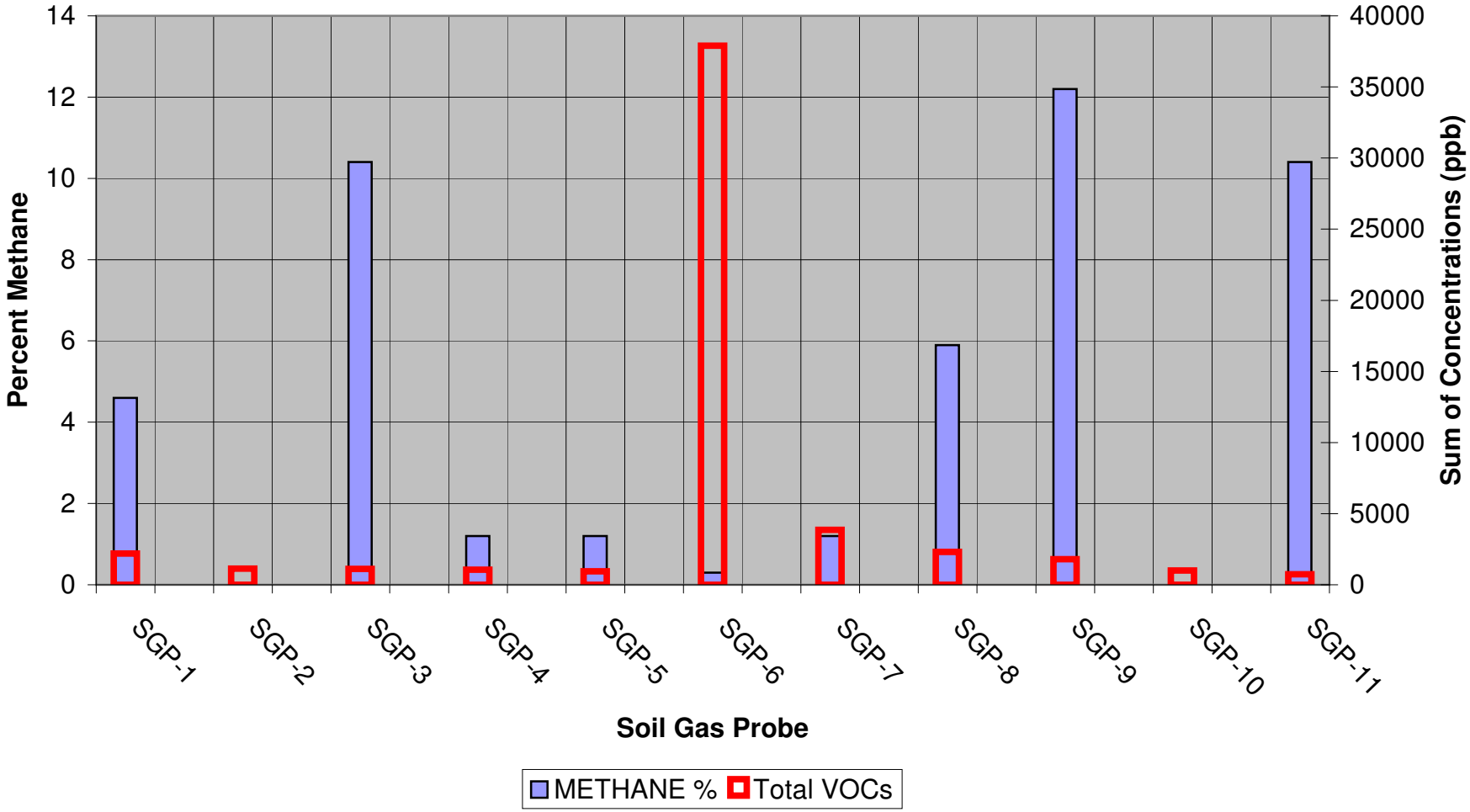
APS Project #
10695

FIGURE 7
SGP-12 LOCATION

N
W E
S

0' 200' 400' 600'

Figure 8. Methane Content Versus
Sum of Concentrations of Detected TO-15 Compounds
Samples Collected December 7 and 8, 2007



Tables

Table 1. Summary of Historical Exceedances
(March 2001 through October 2007)
Countywide RDF

Monitoring Location	Superseded EGTL (%v/v)	Applicable EGTL (%v/v)	03/08/01	04/10/01	05/29/01	06/29/01	07/17/01	08/09/01	09/19/01	10/20/01	11/19/01	12/20/01	01/28/02	02/28/02	03/14/02	04/16/02	05/20/02	06/20/02	07/09/02	08/14/02	09/24/02	10/24/02	11/29/02	12/20/02	01/30/03	02/28/03	03/25/03	04/16/03	05/29/03	06/25/03	07/31/03	08/29/03	09/30/03	10/30/03	11/26/03	12/22/03	01/30/04	02/14/04	03/29/04	4/29-30/04	05/26/04	06/25/04	7/28/04
H	0.375	5																																									
I	1.25	5																																									
K-S	0.125	5																	0/1.2	0.3/0.3	0/0.2	0/0.2																					
K-D	0.125	5																																									
L-S	0.125	5																																									
L-D	0.125	5																																									
M	0.6875	5																																						0/5.0	0/9.1	0/6.7	
N	1.25	5																																									
O	1.05	5																																									
P	1.25	5																																									
Q-S		5																																									
Q-D		5																																									
R-S		5																																									
R-D		5																																									
S-S	1.25	5																																									
S-D	1.25	5																																									
T-S	1.25	5				0/3.1																																					
T-D	1.25	5																																									
U	1.25	5																																									
Office	0	1.25																																									
Mnt. Shop	0	1.25																																									
Solidification Trailer	0	1.25																																									
Golder Const. Trailer 1	0	1.25																																									
Golder Const. Trailer 2	0	1.25																																									
Beaver Const. Trailer	0	1.25																																									
AEGL Const. Trailer 1	0	1.25																																									
AEGL Const. Trailer 2	0	1.25																																									
Front Office Trailer	0	1.25																																									

Actual exceedance as defined in 1994 rules.

Table 1. Summary of Historical Exceedances
(March 2001 through October 2007)
Countywide RDF

Monitoring Location	Superseded EGTL (%v/v)	Applicable EGTL (%v/v)	08/26/04	09/28/04	10/28/04	11/10/04	12/21/04	1/28&31/05	02/23/05	03/22/05	04/29/05	05/25/05	06/20/05	07/25/05	08/29/05	09/29/05	10/28/05	11/29/05	12/27/05	01/30/06	02/23/06	03/31/06	04/27/06	05/23/06	06/28/06	07/12/06	08/24/06	09/28/06	10/24/06	11/21/06
H	0.375	5																								1.9/1.8				
I	1.25	5																												
K-S	0.125	5																												
K-D	0.125	5																												
L-S	0.125	5																								0.5/0.2	1.2/1.1			
L-D	0.125	5																												
M	0.6875	5		0/13.7	0/6.8	0/7.0		0/3.9		0/19.3	0/13.8	0/9.6	0/10.3	0/9.9			0/8.9	0/17.2	0/8.6	0/5.9	0/8.8		0/19.6	19.6/18.9	13.5/12	15.3/14.8	0.2/0.2	13.1/9.4	16.7/14	16.1/13.2
N	1.25	5																												
O	1.05	5																												
P	1.25	5																												
Q-S		5																												
Q-D		5																												
R-S		5																												
R-D		5																												
S-S	1.25	5																												
S-D	1.25	5																												
T-S	1.25	5	0/1.6	0/2.6																										
T-D	1.25	5																												
U	1.25	5																												
Office	0	1.25																												
Mnt. Shop	0	1.25																												
Solidification Trailer	0	1.25																												
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AEGL Const. Trailer 1	0	1.25																												
AEGL Const. Trailer 2	0	1.25																												
Front Office Trailer	0	1.25																												

Actual exceedance as defined in 1994 rules.

Table 1. Summary of Historical Exceedances
(March 2001 through October 2007)
Countywide RDF

Monitoring Location	Superseded EGTL (%v/v)	Applicable EGTL (%v/v)	12/27/06 Initial	12/27/2006 Exceedance	1/30/07 Initial	1/31/07 Exceedance	2/21/07 Initial	2/21/07 Exceedance	03/24/07	04/20/07	5/24/07 Initial	5/24/07 Exceedance	6/25/07 Initial	6/25/07 Exceedance	07/30/07	8/8/07 Initial	8/8/07 Remonitoring	9/7/07 Initial	9/7/07 Exceedance	10/9/07 Initial	10/9/07 Exceedance	Total Reported Exceedances	Actual Exceedances
H	0.375	5	2.1/1.9	1.9/1.5																		3	
I	1.25	5			4.3/3.4		3.8/2.9	3.2/2.0	3.5/2.2													4	
K-S	0.125	5	4.8/3.0	4.1/2.9	4.0/2.3		4.2/2.8	3.9/2.7	3.8/2.1		2.5/2.2		1.8/1.3		6.8/6.8			6.9/4.8	3.0/3.0	4.1/3.8		16	2
K-D	0.125	5																				0	
L-S	0.125	5	4.1/3.3	3.9/3.0	7.6/5.2		6.9/4.3	6.1/3.2	6.1/5.3						1.1/1.0	0.9/0.9		1.1/0.8	3.7/3.5	0.4/0.3	5.1/4.6	14	5
L-D	0.125	5																				0	
M	0.6875	5	38.1/30	36.2/28.2							26.0/21.0		25.3/18.5		23.0/22.6	20.4/18.0		22.9/18.5	10.1/10.0	4.0/2.1	32.3/25.8	35	31
N	1.25	5																				0	
O	1.05	5																		3.4/2.6		1	
P	1.25	5																				0	
Q-S		5																				0	
Q-D		5																				0	
R-S		5																				0	
R-D		5																				0	
S-S	1.25	5																				0	
S-D	1.25	5																				0	
T-S	1.25	5			1.5/1.0	1.3/0.8	1.3/0.8						6.5/5.3		6.8/6.7	9.8/9.8		10.7/10.9	8.8/8.8	9.0/8.8	4.6/4.3	13	6
T-D	1.25	5																				0	
U	1.25	5																				0	
Office	0	1.25																				0	
Mnt. Shop	0	1.25																				0	
Solidification Trailer	0	1.25																				0	
Golder Const. Trailer 1	0	1.25																				0	
Golder Const. Trailer 2	0	1.25																				0	
Beaver Const. Trailer	0	1.25																				0	
AEGL Const. Trailer 1	0	1.25																				0	
AEGL Const. Trailer 2	0	1.25																				0	
Front Office Trailer	0	1.25																				0	

Actual exceedance as defined in 1994 rules.

TABLE 2. SOIL GAS PROBE TO-15 RESULTS
SAMPLES FROM DECEMBER 7 AND 8, 2007
COUNTYWIDE RDF

Analyte	Concentration (ppb v/v)											Concentration in ug/m^3 [1]		Parameters Detected in Permanent Monitor M[2]
	SGP-1	SGP-2	SGP-3	SGP-4	SGP-5	SGP-6	SGP-7	SGP-8	SGP-9	SGP-10	SGP-11	PW-121R	PW-14R3	
Dichlorodifluoromethane	7.6 J	ND	53	80	160	6.3 J	ND	54	43	ND	23	5500	ND	
Chloromethane	ND	ND	ND	ND	ND	310	ND	ND	ND	ND	ND	27000	24000	
Freon 114	ND	ND	4.7 J	6.8 J	13	ND	ND	6.9 J	4.2 J	ND	4.6 J	ND	ND	
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	11	6.7 J	ND	39	ND	ND	
1,3-Butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	ND	ND	ND	ND	ND	36	ND	18	23	ND	67	8200	5300	
Freon 11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3 J	ND	ND	X
cis-1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Disulfide	34	ND	10	15	12	150	4.9 J	3.5 J	11	ND	6.7 J	ND	ND	
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	120	220	170	140	81	6300	150	160	110	160	66	3200000 E	1900000 E	
Methylene Chloride	ND	ND	ND	ND	ND	ND	3.4 J	ND	3.4 J	ND	ND	ND	ND	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl t-butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone	170	170	53	59	ND	6400	780	260	200	130	ND	1300000 E	850000 E	X
Ethyl Acetate	33	38	13	18	15	1200	170	67	46	29	15	300000 E	140000	
Hexane	24	4.7 J	16	21	58	770	21	290	35	ND	26	ND	ND	X
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	170	140	26	54	37	4200	460	180	530	110	82	530000 E	570000 E	X
Tetrahydrofuran	220	180	65	110	49	7900	960	370	250	150	58	1400000 E	730000 E	X
1,2-Dichlorethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane	12	ND	ND	11	23	210	ND	51	15	ND	25	ND	ND	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlopropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptane	11	3.5 J	9.6 J	7.8 J	8 J	420	14	72	19	3.5 J	6.8	14000	6700	X
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-Pentanone	270	38	24	38	36	1900	110	64	40	35	34	71000	51000	
Toluene	360	65	46	50	41	2600	250	120	92	72	47	160000 E	90000	X
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone	15	9.1 J	9.6 J	6.7 J	5.9 J	490	29	ND	10	8.9 J	7 J	14000	6200	
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	140	55	85	72	65	2000	190	110	71	62	39	85000	43000	X
m,p-Xylene	320	92	300	170	150	2200	330	200	120	110	70	110000	69000	X

TABLE 2. SOIL GAS PROBE TO-15 RESULTS
SAMPLES FROM DECEMBER 7 AND 8, 2007
COUNTYWIDE RDF

Analyte	Concentration (ppb v/v)											Concentration in ug/m^3 [1]		Parameters Detected in Permanent Monitor M[2]
	SGP-1	SGP-2	SGP-3	SGP-4	SGP-5	SGP-6	SGP-7	SGP-8	SGP-9	SGP-10	SGP-11	PW-121R	PW-14R3	
o-Xylene	110	36	70	57	52	660	120	72	44	39	26	37000	21000	X
Styrene	8.3 J	4.1 J	6.4 J	5 J	4.5 J	23	14	8.7 J	4.9 J	4.8 J	3.3 J	9900	1900 J	
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Ethyl toluene	31	14	26	22	21	35	45	34	19	17	13	9000	2900 J	
1,3,5-Trimethylbenzene	38	16	34	27	26	29	50	39	24	20	16	9000	3400 J	
1,2,4-Trimethylbenzene	89	42	87	74	73	56	140	110	64	50	45	23000	7800	X
1,3-Dichlorbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	8.8 J	3.4 J	9 J	7.8 J	7.9 J	4.6 J	12	8.5 J	5.4 J	3.7 J	3.7 J	2500 J	ND	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

J - Estimated value less than PQL
E - Reported value above the analytical linear range.
ND - Concentration less than method detection limit for SGPs or less than PQL for extraction wells.
Note 1: Analyte concentration for the landfill gas extraction wells are presented in ug/m3 versus ppb for the soil gas probes and are to be used for a presence/absence comparison only.
Note 2: The analytical method used for the sample from permanent monitor M may not have included the same parameters as the TO-15 method used for the other samples in this table.

TABLE 3. SOIL GAS PROBE ASTM D-1946 RESULTS
SAMPLES OBTAINED DECEMBER 7 AND 8, 2007
COUNTYWIDE RDF

Analyte	Concentration (percent v/v)										
	SGP-1	SGP-2	SGP-3	SGP-4	SGP-5	SGP-6	SGP-7	SGP-8	SGP-9	SGP-10	SGP-11
Hydrogen	ND	ND	ND	ND	ND	3.6	ND	ND	3.3	ND	ND
Carbon Dioxide	7.2	0.8	26.4	29.1	35.2	5.1	9.4	14.6	4.6	ND	17.6
Methane	4.6	ND	10.4	1.2	1.2	0.3	1.2	5.9	12.2	ND	10.4
	Concentration (ppmv)										
Low Level Acetylene	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND
Low Level CO	ND	ND	36	32	11	147	ND	ND	146	ND	31
Ammonia	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4. GEM READINGS DECEMBER 7 AND 8, 2007
COUNTYWIDE RDF

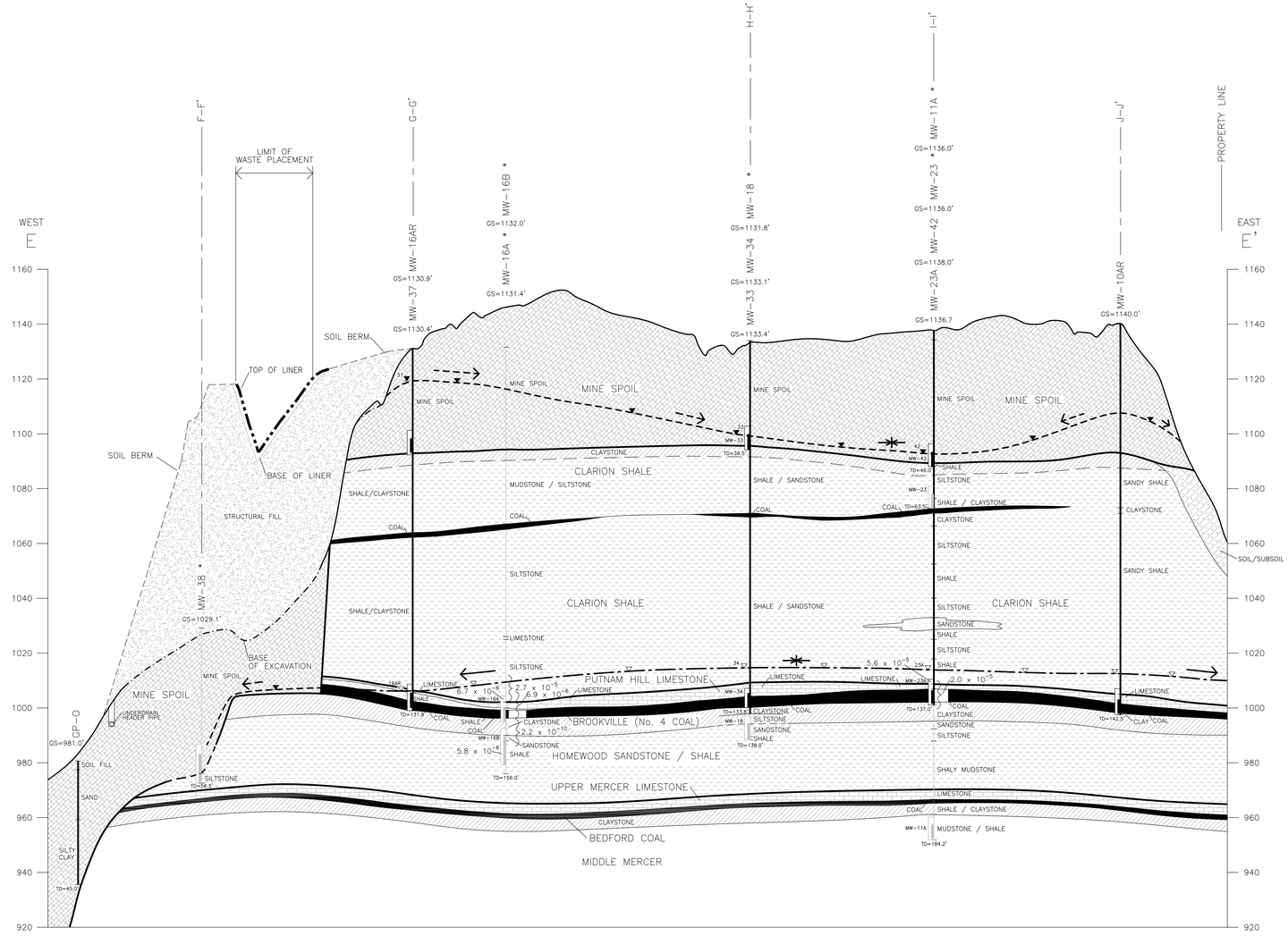
Device ID	Date/Time	CH4	CO2	O2	Balance	Pressure
		%	%	%	%	(inches H2O)
SGP-1	12/7/2007 8:15	3.3	3.6	16.1	76.2	0
SGP-2	12/8/2007 11:36	0	0.2	21.8	77.8	0
SGP-3	12/7/2007 8:30	10.3	27.3	2.2	60.1	0
SGP-4	12/7/2007 8:39	0.7	31	2.2	64.9	0
SGP-5	12/7/2007 8:57	0.7	38.2	8.5	52.2	0
SGP-6	12/8/2007 11:53	4.8	22.2	10.3	60.4	0
SGP-7	12/7/2007 9:17	1.2	13.7	16.5	76.7	0
SGP-8	12/7/2007 9:28	6.1	17.9	15.8	59.6	0
SGP-9	12/7/2007 9:39	10	4.4	12.7	72.9	0
SGP-10	12/7/2007 9:48	0	1.1	20.9	77	0
SGP-11	12/7/2007 9:59	9	19.4	6.5	65.1	0

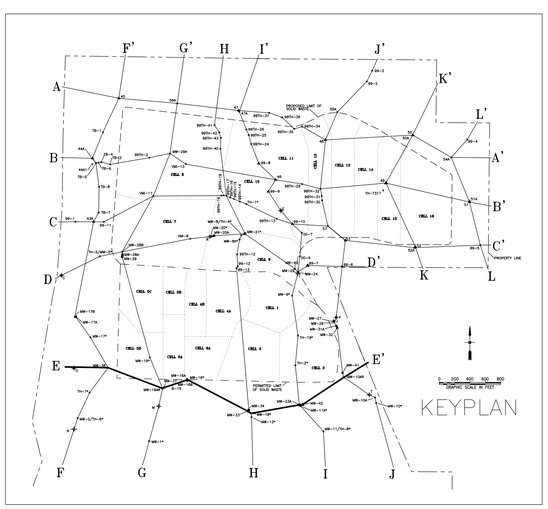
TABLE 5. GEM READINGS JANUARY 2, 2008
COUNTYWIDE RDF

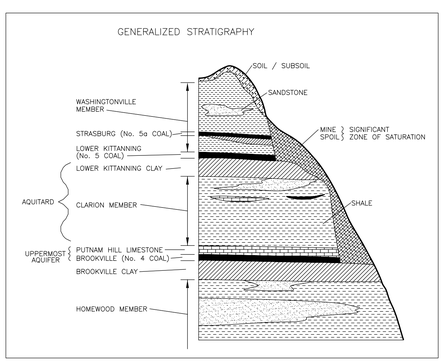
Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Pressure (inches H2O)
SGP-1	1/2/2008 8:13	0	0.1	20.7	79.2	0
SGP-2	1/2/2008 8:31	4.1	75.1	1.8	19	-18.5
SGP-3	1/2/2008 8:42	0	2.6	20.1	77.3	0.1
SGP-4	1/2/2008 9:41	0	1.6	20.9	77.5	-1.7
SGP-5	1/2/2008 9:53	0	0.6	21	78.4	-1.8
SGP-6	1/2/2008 10:07	15.7	74.7	0.2	9.4	-1.4
SGP-7	1/2/2008 10:22	0	1.8	20.6	77.6	0
SGP-8	1/2/2008 10:32	0	0.9	20.8	78.3	-0.4
SGP-9	1/2/2008 10:54	0.5	2.2	20.2	77.1	0
SGP-10	1/2/2008 11:06	0	0.6	20.2	79.2	-12
SGP-11	1/2/2008 11:18	0	0.4	20.9	78.7	-1
SGP-12	1/2/2008 11:31	0	1.4	20.2	78.4	-0.3

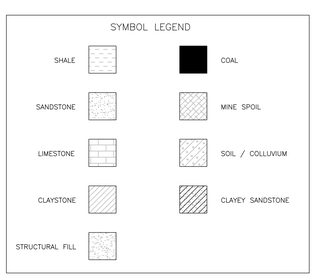
Appendix A

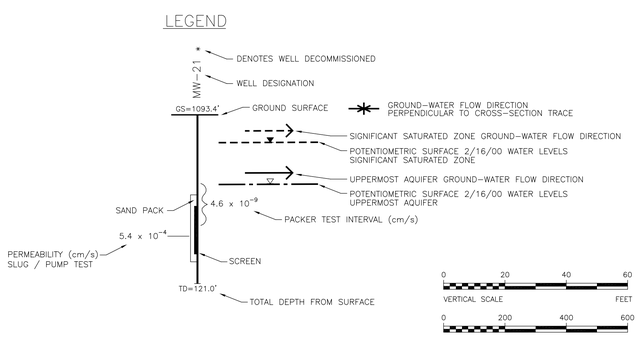
Geologic Cross Sections











NOTES:

1. BASE OF EXCAVATION AND BASE OF LINER ELEVATIONS PROVIDED BY THE IT GROUP AND/OR BAIR, GOODIE AND ASSOCIATES, INC. FOR THE DETAILED ENGINEERING DESIGN REFER TO THE ENGINEERING PLANS FOR THE COUNTYWIDE RECYCLING AND DISPOSAL FACILITY EXPANSION.
2. SURFACE TOPOGRAPHY TAKEN FROM 3/31/99 AERIAL PHOTOGRAPHY. SURFACE TOPOGRAPHY WITHIN EXISTING LANDFILL AREAS CONSTRUCTED SINCE 3/31/99 ARE NOT SHOWN.

COMPILED BY: DJS	FIGURE TITLE: HYDROGEOLOGIC CROSS–SECTION E–E'	
DRAWN BY: RMH	PROJECT TITLE: COUNTYWIDE RDF LATERAL AND VERTICAL EXPANSION REPUBLIC SERVICES OF OHIO II, LLC	
CHECKED BY: DJS	PREPARED BY: EAGON & ASSOCIATES, INC. 100 OLD WILSON BRIDGE ROAD, SUITE 115 WORTHINGTON, OHIO 43085	FIGURE NUMBER: 8
APPROVED BY: ACR		
DATE: FEB. 1, 2001		

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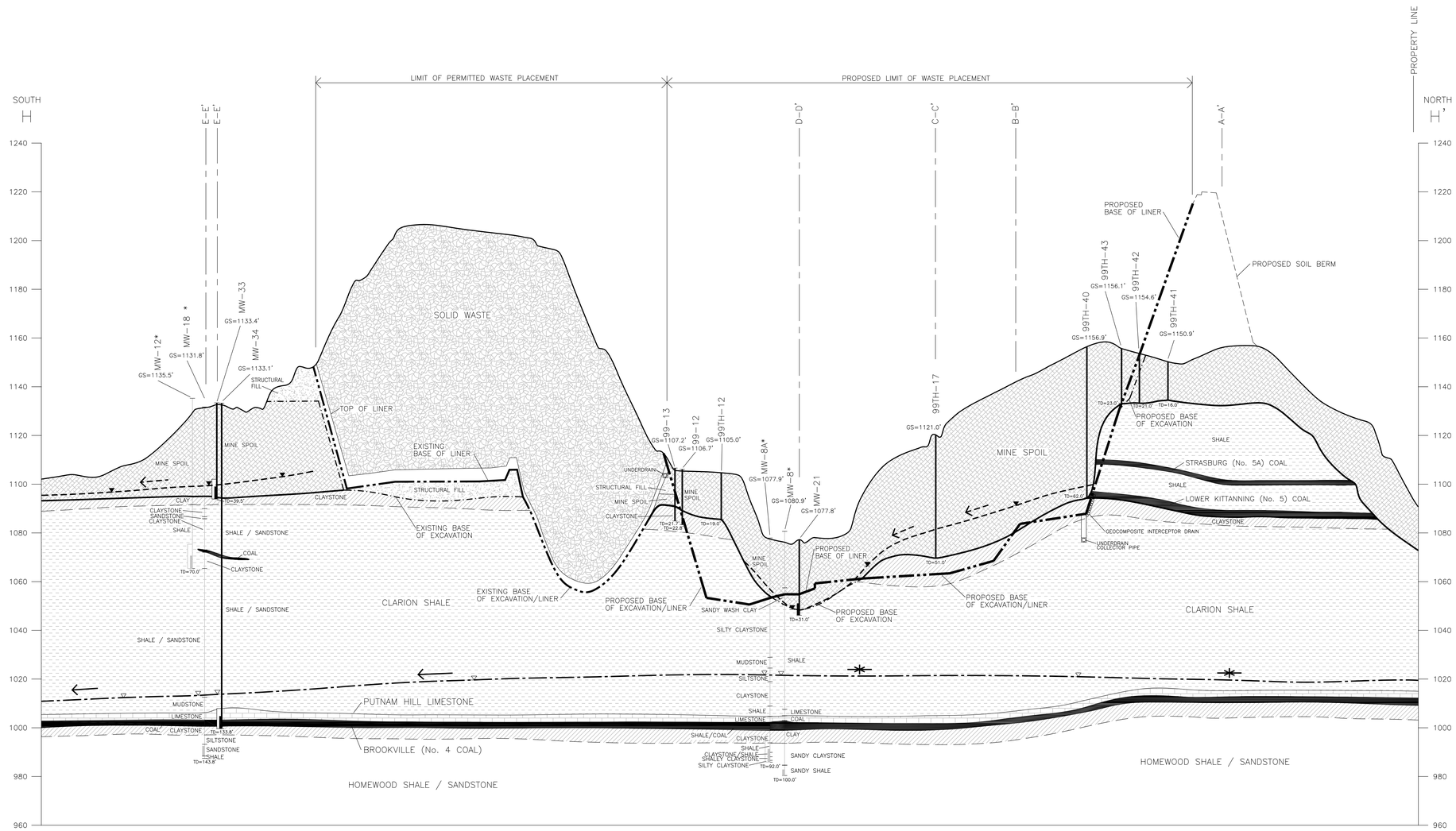

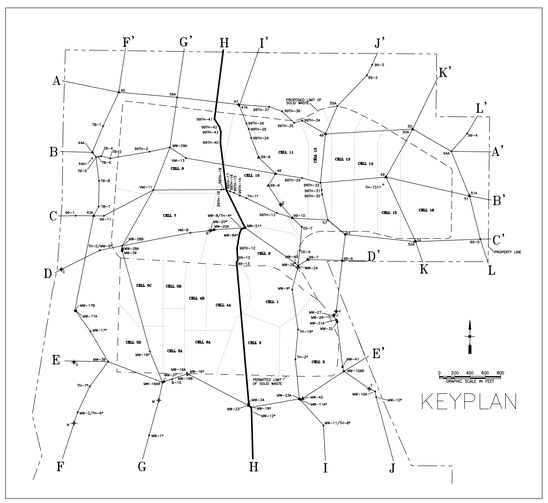

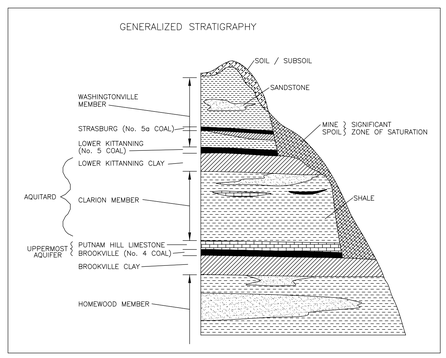

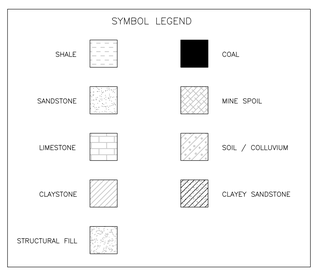

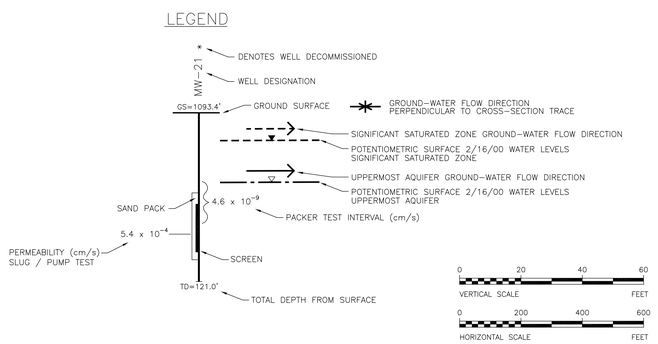

NOTES:

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2. SURFACE TOPOGRAPHY TAKEN FROM 3/31/99 AERIAL PHOTOGRAPHY. SURFACE TOPOGRAPHY WITHIN EXISTING LANDFILL AREAS CONSTRUCTED SINCE 3/31/99 ARE NOT SHOWN.

COMPILED BY: DJS	FIGURE TITLE: HYDROGEOLOGIC CROSS–SECTION H–H'	
DRAWN BY: RMH	PROJECT TITLE: COUNTYWIDE RDF LATERAL AND VERTICAL EXPANSION REPUBLIC SERVICES OF OHIO II, LLC	
CHECKED BY: DJS	PREPARED BY: EAGON & ASSOCIATES, INC. 100 OLD WILSON BRIDGE ROAD, SUITE 115 WORTHINGTON, OHIO 43085	FIGURE NUMBER: 11
APPROVED BY: ACR		
DATE: FEB. 1, 2001		

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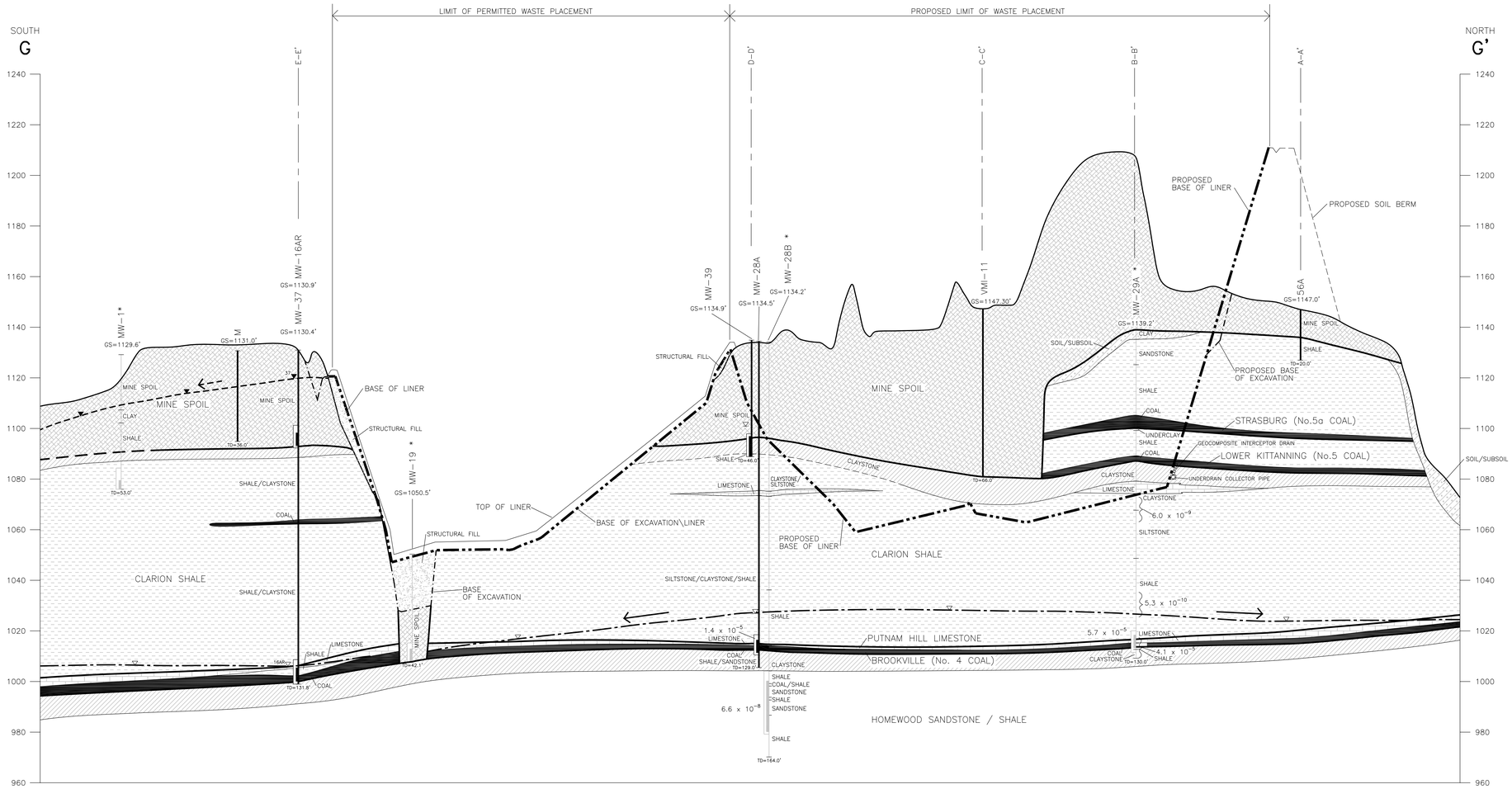

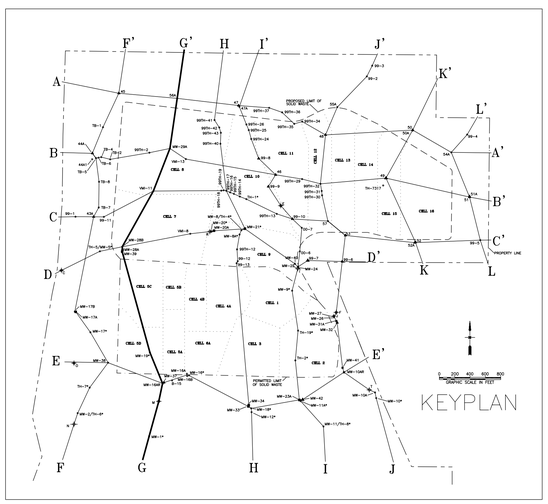

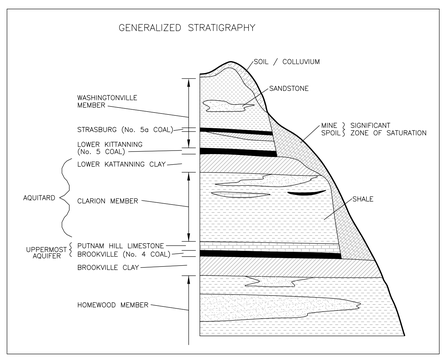

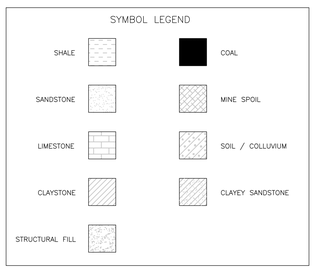

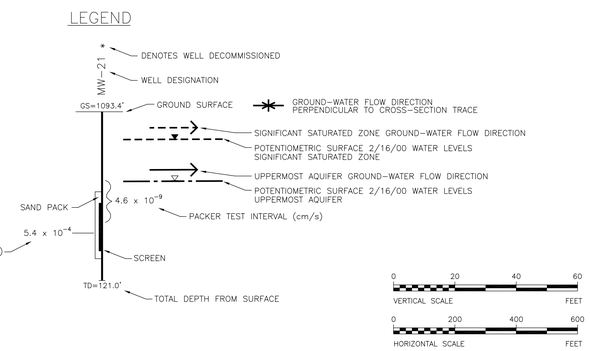

NOTES:

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2. SURFACE TOPOGRAPHY TAKEN FROM 3/31/99 AERIAL PHOTOGRAPHY. SURFACE TOPOGRAPHY WITHIN EXISTING LANDFILL AREAS CONSTRUCTED SINCE 3/31/99 ARE NOT SHOWN.

COMPILED BY: DJS	FIGURE TITLE: HYDROGEOLOGIC CROSS-SECTION G-G'	
DRAWN BY: RMH	PROJECT TITLE: COUNTYWIDE RDF LATERAL AND VERTICAL EXPANSION REPUBLIC SERVICES OF OHIO II, LLC	
CHECKED BY: DJS	PREPARED BY: EAGON & ASSOCIATES, INC. 100 OLD WILSON BRIDGE ROAD, SUITE 320 WORTHINGTON, OHIO 43085	FIGURE NUMBER: 10
APPROVED BY: ACR		
DATE: FEB. 1, 2001		

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Appendix B

Boring Logs

SCS ENGINEERS

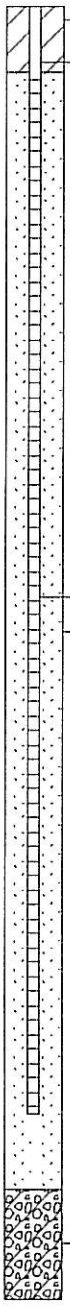
LOG OF BORING SGP-1

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/5/07
Drilled By:	: Jersey West	Date Completed:	: 12/5/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1161.08
Total Boring Depth:	: 35 feet	Northing	: 23514.47
Sampling Method:	: No sampling	Easting	: 43497.39

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Borehole advanced using 4" O.D. augers. No sampling performed.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35								

Well: SGP-1
Elev.: 1163.79



SCS ENGINEERS

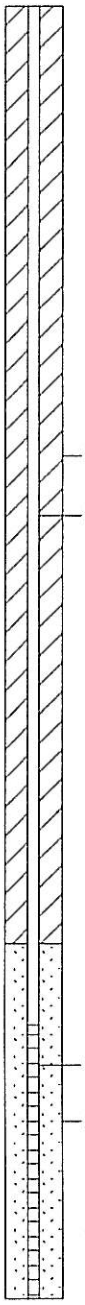
LOG OF BORING SGP-2

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/6/07
Drilled By:	: Jersey West	Date Completed:	: 12/7/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1174.90
Total Boring Depth:	: 35 feet	Northing	: 23525.29
Sampling Method:	: Driven probe	Easting	: 43427.69

Well: SGP-2
Elev.: 1177.77

Depth in feet	Surf. Elev.	Samples	Recovery (in.)	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL
		S-1					CH	ACCESS RAMP FILL Gravelly fat clay. Light grey to dark grey weathered shale. ~25 to 50% weathered shale gravel, subangular, with occ. sandstone to siltstone gravel and coal particles. Most gravel crumbles by hand. Moist. At 0.5' - 4" light grey to orange brown weathered Sandstone cobble
5	-5	S-2					CH	BUTTRESS FILL At 4' - 6" brownish grey w/orange brown staining fine Sandstone gravel, dry.
10	-10	S-3					CH	Gravelly fat clay. Grey, brownish grey, tan weathered shale. ~15 to 20% weathered shale gravel, subangular, with occ. sandstone to siltstone gravel and coal particles. Most gravel crumbles by hand. Moist to dry.
		S-5					CH	At 12' - 4" fragments from grey fine Sandstone to Siltstone cobble.
15	-15	S-6					CH	At 16' - light to medium grey weathered shale or underclay. At 20' - roots.
20	-20	S-7					CH	MINE SPOIL Gravelly fat clay. Grey, brownish grey, tan weathered shale. ~15 to 20% weathered shale gravel, subangular, with occ. sandstone to siltstone gravel and coal particles. Most gravel crumbles by hand. Moist to dry.
25	-25	S-8					CH	
30	-30	S-9					CH	
35	-35	S-10					CH	
		S-11					CH	
40								



SCS ENGINEERS

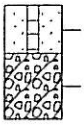
LOG OF BORING SGP-2

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/6/07
Drilled By:	: Jersey West	Date Completed:	: 12/7/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1174.90
Total Boring Depth:	: 35 feet	Northing	: 23525.29
Sampling Method:	: Driven probe	Easting	: 43427.69

Well: SGP-2
Elev.: 1177.77
—— Screen

Depth in feet	Surf. Elev.	Samples	Recovery (in.)	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
40	-40	S-11					CH	Grey, brownish grey, tan weathered shale. ~15 to 20% weathered shale gravel, subangular, with occ. sandstone to siltstone gravel and coal particles. Most gravel crumbles by hand. Moist to dry.
		S-12					CH	At 43' - Tan to buff weathered fine Sandstone to Siltstone fragments, dry.
45	-45							
50	-50							
55	-55							
60	-60							
65	-65							
70	-70							
75	-75							
80								



SCS ENGINEERS

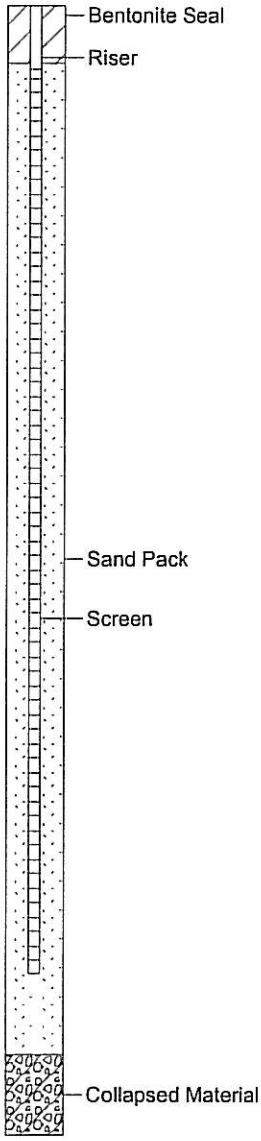
LOG OF BORING SGP-3

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/5/07
Drilled By:	: Jersey West	Date Completed:	: 12/5/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1155.83
Total Boring Depth:	: 35 feet	Northing	: 23446.77
Sampling Method:	: No sampling	Easting	: 43296.81

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-3
Elev.: 1158.59



SCS ENGINEERS

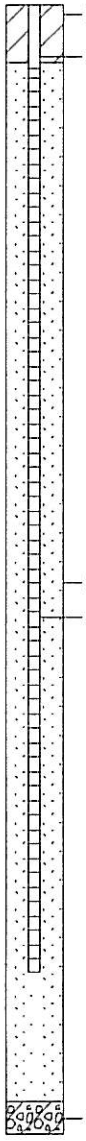
LOG OF BORING SGP-4

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/5/07
Drilled By:	: Jersey West	Date Completed:	: 12/5/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1155.38
Total Boring Depth:	: 35 feet	Northing	: 23450.24
Sampling Method:	: No sampling	Easting	: 43201.94

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-4
Elev.: 1158.28



SCS ENGINEERS

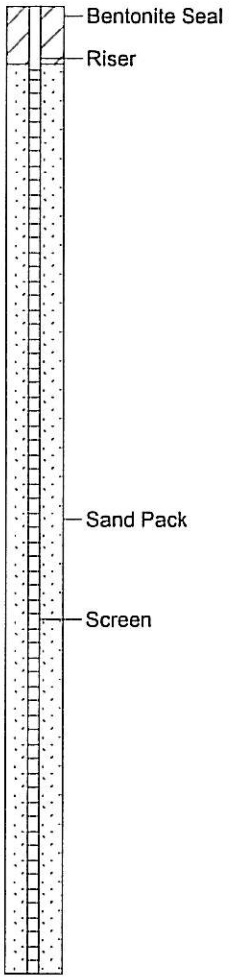
LOG OF BORING SGP-5

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/3/07
Drilled By:	: Jersey West	Date Completed:	: 12/3/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1148.97
Total Boring Depth:	: 30 feet	Northing	: 23415.07
Sampling Method:	: No sampling	Easting	: 43101.62

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 3" O.D. probe casing with lost point. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-5
Elev.: 1152.03



SCS ENGINEERS

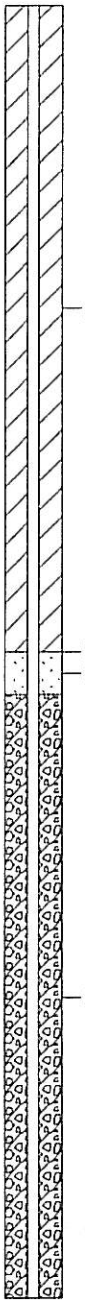
LOG OF BORING SGP-6

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/7/07
Drilled By:	: Jersey West	Date Completed:	: 12/7/07
Boring Method:	: 4" Augers	G. S. Elevation:	: 1174.82
Total Boring Depth:	: 44 feet	Northing	: 23540.74
Sampling Method:	: Direct push	Easting	: 46005.47

Well: SGP-6
Elev.: 1177.22

Depth in feet	Surf. Elev.	Samples	Recovery (in.)	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0	S-1	38				CH	FILL ACCESS RAMP FILL Gravelly fat clay Grey weathered shale. ~25% weathered shale gravel, subangular, some sandstone gravel. Moist. Strong solvent odor.
5	-5	S-2	42				CH	BUTTRESS FILL Gravelly fat clay. Dark grey weathered shale. ~30% weathered shale gravel, subangular, some coal and sandstone gravel. Moist.
10	-10	S-3	39				CH	At 10' - 12" brown fine GRAVEL, some to and Sand, little Silt, moist.
		S-4	0				n/a	At 13' - hard zone or object. Eventually drives through.
15	-15	S-5	18				n/a	WASTE Black material with wood and plastic fragments. Strong odor. Saturated.
20	-20	S-6	0				n/a	
25	-25	S-7	23				CH	MINE SPOIL Gravelly fat clay Grey, light grey, brown grey weathered shale. ~15 to 30% weathered shale subangular gravel, some coal pieces. Occasional Sandstone or Siltstone cobbles. Odor from liquid from 14 to 20' zone.
30		S-8	0				CH	



SCS ENGINEERS

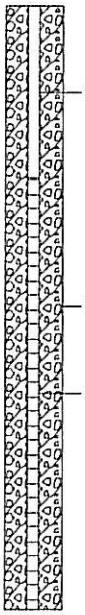
LOG OF BORING SGP-6

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/7/07
Drilled By:	: Jersey West	Date Completed:	: 12/7/07
Boring Method:	: 4" Augers	G. S. Elevation:	: 1174.82
Total Boring Depth:	: 44 feet	Northing	: 23540.74
Sampling Method:	: Direct push	Easting	: 46005.47

Depth in feet	Surf. Elev.	Samples	Recovery (in.)	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
30	-30	S-8	0				CH	MINE SPOIL, continued Gravelly fat clay Grey, light grey, brown grey weathered shale. ~15 to 30% weathered shale subangular gravel, some coal pieces. Occasional Sandstone or Siltstone cobbles.
		S-9	52				CH	
35	-35	S-10	41				CH	
40	-40	S-11	36				CH	
45	-45							
50	-50							
55	-55							
60								

Well: SGP-6
Elev.: 1177.22



SCS ENGINEERS

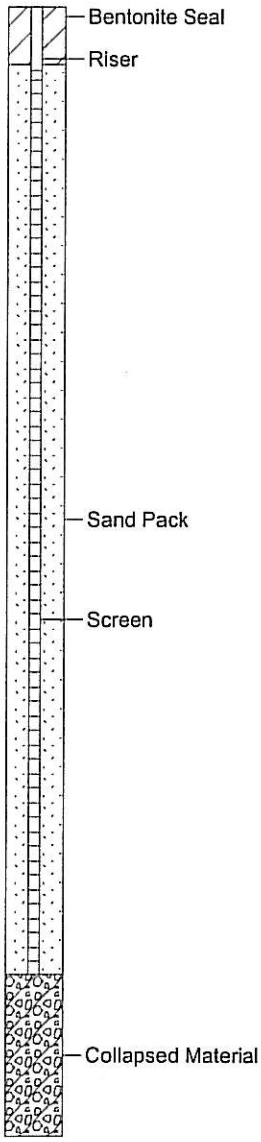
LOG OF BORING SGP-7

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/4/07
Drilled By:	: Jersey West	Date Completed:	: 12/4/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1144.48
Total Boring Depth:	: 35 feet	Northing	: 23390.88
Sampling Method:	: No sampling	Easting	: 42898.70

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-7
Elev.: 1147.5



SCS ENGINEERS

LOG OF BORING SGP-8

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/7/07
Drilled By:	: Jersey West	Date Completed:	: 12/4/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1143.60
Total Boring Depth:	: 35 feet	Northing	: 23490.07
Sampling Method:	: No sampling	Easting	: 42791.19

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-8
Elev.: 1146.39

SCS ENGINEERS

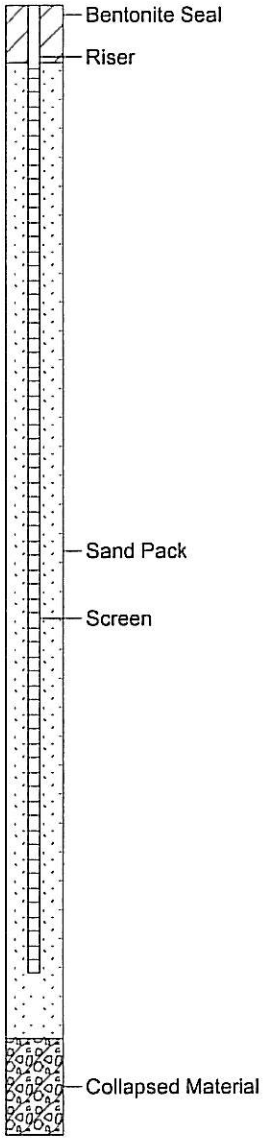
LOG OF BORING SGP-9

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/4/07
Drilled By:	: Jersey West	Date Completed:	: 12/4/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1139.01
Total Boring Depth:	: 35 feet	Northing	: 23526.83
Sampling Method:	: No sampling	Easting	: 42685.24

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-9
Elev.: 1141.86



SCS ENGINEERS

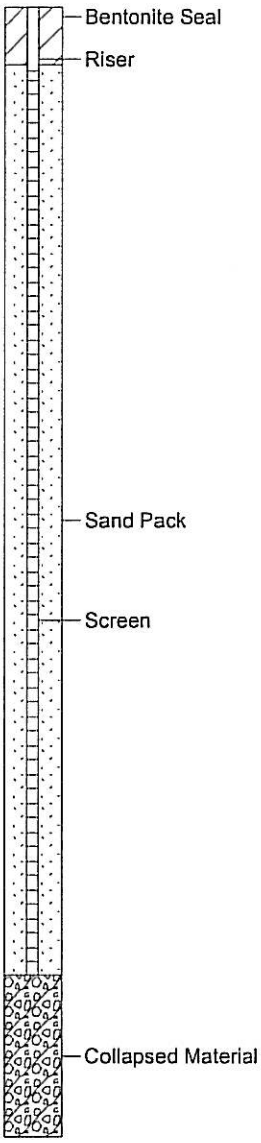
LOG OF BORING SGP-10

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/4/07
Drilled By:	: Jersey West	Date Completed:	: 12/5/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1135.86
Total Boring Depth:	: 35 feet	Northing	: 23459.79
Sampling Method:	: No sampling	Easting	: 42586.37

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-10
Elev.: 1138.86



SCS ENGINEERS

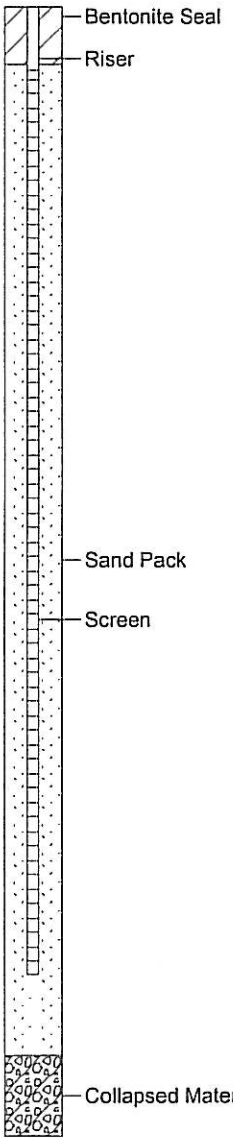
LOG OF BORING SGP-11

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/4/07
Drilled By:	: Jersey West	Date Completed:	: 12/4/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1131.70
Total Boring Depth:	: 35 feet	Northing	: 23517.81
Sampling Method:	: No sampling	Easting	: 42454.43

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-11
Elev.: 1134.47



SCS ENGINEERS

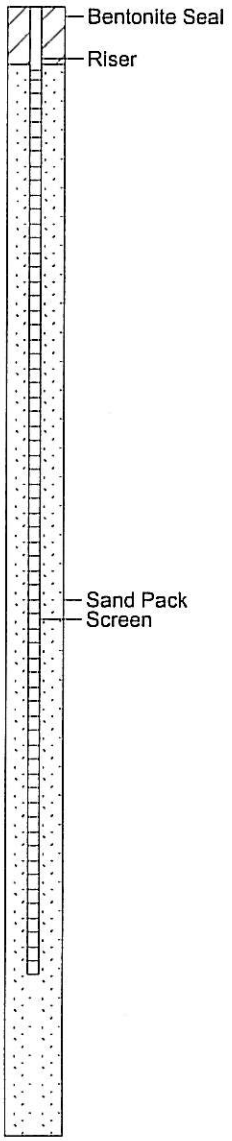
LOG OF BORING SGP-12

SCS Project Number: 05206012.00
Countywide RDF
Republic Services of Ohio II, LLC.
East Sparta, OH

Logged By:	: R. Mills	Date Started:	: 12/5/07
Drilled By:	: Jersey West	Date Completed:	: 12/5/07
Boring Method:	: 4" OD Augers	G. S. Elevation:	: 1104.42
Total Boring Depth:	: 35 feet	Northing	: 21631.89
Sampling Method:	: No sampling	Easting	: 44543.25

Depth in feet	Surf. Elev.	Samples	% Recovery	RQD	Blow Count	GRAPHIC	USC	DESCRIPTION
0	0							FILL Mine spoil. Boring advanced using 4" O.D. augers. No samples collected. Augers have saturated material on them as they are removed.
5	-5							
10	-10							
15	-15							
20	-20							
25	-25							
30	-30							
35	-35							
40								

Well: SGP-12
Elev.: 1107.03



Appendix C

Laboratory Reports

TO-15
07I-2257-01
SOIL GAS PROBES

Work Order Completion Status

AAL Work Order No. 07/2027

Analysis	Lab	Date Final HC Report in WO File	Validated
TO-15	Data chem	12/31/07	12/31/07
		/	/
		/	/
		/	/

Hard Copy Distribution	AAL WO File	AAL Binder	On Site Binder	Other

EIM Data Status	COC Entered	Lab Data Uploaded	Lab Data EIM Validated

TO-15
07I-2257-01

Data Validation (basic)

WO # 0712027 F&O # F&O #9

Date Sampled 12/8/07 Date Analyzed 12/13/07

Date Reported 12/26/07 Date Validated 12/31/07 By M Moretti

Date Hard Copy Sent to Client _____

Manual Validation

		Y/N	Resolution
COC	1) F&O Listed	Y	
	2) Field Names Correct	Y	
	3) PO# on COC	Y	
Analysis	1) All Requested Analysis Reported	Y	
	2) Results w/i Expected Range	Y	1
	3) QC Acceptable	Y	
	4) Sampling and Analytical Plan Specs. Met	Y	
	5) Validation Date Entered	Y	
EIM Validation	1) COC entered into Locus		
	2) Lab Data Uploaded		
	3 Locus System Validation		

Resolutions (1) Feco reported values above the analytical linear range while some organic values reported between the MDL and PQL.

DATA CHEM LABORATORIES
A Sorenson Company

COVER PAGE

DEC 17 2007

Form COVER-V1.4
12170708385773
Page 1

G07CB003

ANALYTICAL REPORT FOR
American Analytical Laboratories, Inc.

Phone(330) 535-1300 Fax(330) 535-7246
E-mail: aal@all-inc.com

DCL Report Group...: 07I-2257-01

Date Printed.....: 17-DEC-07 08:38

Project Protocol #: P021C002
Client Ref Number.: 20348
Release Number....: 20348

Analysis Method(s): TO-15

American Analytical Laboratories, Inc.
Attention: Kathye Graves
840 South Main St.
Akron, OH 44311-1516

Client Sample Name	Laboratory Sample Name	Date Sampled	Date Received
SGP2_120807_|TO-15	07I14566	08-DEC-07	11-DEC-07
SGP6_120807_|TO-15	07I14567	08-DEC-07	11-DEC-07
Method Blank	BL-261686-1	NA	NA
LCS	QC-261686-1	NA	NA
LCS Dup	QD-261686-1	NA	NA

Analyst: Thomas J. Masolan 12.17.07 Date

Reviewer: Lisa M. Reid 12-17-07 Date

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

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DATA CHEM LABORATORIES
A Sorenson Company

FORM H (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE GROUP COMMENTS

Form RLIMS63H-V1.4
12170708385773
Page 2
G07CB003

DCL Report Group...: 07I-2257-01
Date Printed.....: 17-DEC-07 08:38

Client Name...: American Analytical Laboratories,

Release Number....: 20348

Sample Group Comments

Analyzed by GC/MS according to method TO15.

PQL - Practical Quantitation Limit - Lowest standard that is detectable.
MDL - Method Detection Limit - Statisticaly derived value using 40 CFR methods.

µg/m³ formula: (Result * MW) / 24.45

The "E" qualifier indicates a reported value above the analytical linear range.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

Report generation options: IBX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
12170708385773
Page 3

S07CB00F

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 17-DEC-07 08:38

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20348
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20348

Date Received.....: 11-DEC-07 00:00

Client Sample Name: SGP2_120807_|TO-15
DCL Sample Name...: 07I14566
DCL Report Group..: 07I-2257-01

Matrix.....: TEDLAR
Date Sampled.....: 08-DEC-07 11:35
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 19:15	1.3	ND	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 19:15	6.6	ND	µg/m³		20	50.
Chloromethane	13-DEC-07 19:15	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 19:15	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 19:15	3.1	ND	ppb v/v		20	10.
Freon 114	13-DEC-07 19:15	22.	ND	µg/m³		20	70.
Vinyl Chloride	13-DEC-07 19:15	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 19:15	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 19:15	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 19:15	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 19:15	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 19:15	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 19:15	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 19:15	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 19:15	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 19:15	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 19:15	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 19:15	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 19:15	2.2	ND	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 19:15	7.0	ND	µg/m³		20	32.
Freon 113	13-DEC-07 19:15	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 19:15	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 19:15	2.3	220	ppb v/v		20	10.
Acetone	13-DEC-07 19:15	5.4	530	µg/m³		20	24.
Methylene Chloride	13-DEC-07 19:15	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 19:15	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 19:15	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 19:15	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 19:15	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 19:15	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 19:15	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 19:15	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 19:15	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 19:15	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 19:15	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 19:15	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 19:15	3.6	170	ppb v/v		20	10.
2-Butanone	13-DEC-07 19:15	11.	500	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 19:15	5.5	38.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 19:15	20.	140	µg/m³		20	36.
Hexane	13-DEC-07 19:15	2.4	4.7	ppb v/v	J	20	10.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
12170708385773
Page 4
S07CB00F

Date Printed.....: 17-DEC-07 08:38
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14566
DCL Report Group..: 07I-2257-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 19:15	8.6	17.	µg/m³	J	20	36.
Chloroform	13-DEC-07 19:15	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 19:15	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 19:15	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 19:15	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 19:15	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 19:15	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 19:15	2.0	140	ppb v/v		20	10.
Benzene	13-DEC-07 19:15	6.6	450	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 19:15	4.5	180	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 19:15	13.	520	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 19:15	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 19:15	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 19:15	2.4	ND	ppb v/v		20	10.
Cyclohexane	13-DEC-07 19:15	8.2	ND	µg/m³		20	34.
Trichloroethene	13-DEC-07 19:15	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 19:15	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 19:15	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 19:15	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 19:15	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 19:15	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 19:15	2.0	3.5	ppb v/v	J	20	10.
Heptane	13-DEC-07 19:15	8.2	14.	µg/m³	J	20	40.
cis-1,3-Dichloropropene	13-DEC-07 19:15	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 19:15	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 19:15	2.3	38.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 19:15	9.6	150	µg/m³		20	40.
Toluene	13-DEC-07 19:15	2.3	65.	ppb v/v		20	10.
Toluene	13-DEC-07 19:15	8.6	240	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 19:15	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 19:15	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 19:15	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 19:15	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 19:15	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 19:15	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 19:15	2.7	9.1	ppb v/v	J	20	10.
2-Hexanone	13-DEC-07 19:15	11.	37.	µg/m³	J	20	40.
Dibromochloromethane	13-DEC-07 19:15	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 19:15	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 19:15	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 19:15	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 19:15	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 19:15	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 19:15	3.0	55.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 19:15	13.	240	µg/m³		20	44.
m,p-Xylene	13-DEC-07 19:15	4.3	92.	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 19:15	18.	400	µg/m³		20	86.
o-Xylene	13-DEC-07 19:15	2.3	36.	ppb v/v		20	10.
o-Xylene	13-DEC-07 19:15	9.8	160	µg/m³		20	44.
Styrene	13-DEC-07 19:15	1.5	4.1	ppb v/v	J	20	10.
Styrene	13-DEC-07 19:15	6.4	18.	µg/m³	J	20	42.
Bromoform	13-DEC-07 19:15	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 19:15	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 19:15	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 19:15	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 19:15	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 19:15	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 19:15	2.0	14.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
12170708385773
Page 5
S07CB00F

Date Printed.....: 17-DEC-07 08:38
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14566
DCL Report Group..: 07I-2257-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 19:15	9.6	67.	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 19:15	2.2	16.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 19:15	11.	80.	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 19:15	2.3	42.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 19:15	12.	210	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 19:15	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 19:15	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 19:15	2.0	3.4	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 19:15	12.	21.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 19:15	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 19:15	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 19:15	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 19:15	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 19:15	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 19:15	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Ethanol(5.35)	13-DEC-07 19:15	1400	ppb v/v	J	20
Isopropyl Alcohol(5.98)	13-DEC-07 19:15	220	ppb v/v	J	20
1-Propanol(7.16)	13-DEC-07 19:15	140	ppb v/v	J	20
2-Butanol(8.11)	13-DEC-07 19:15	270	ppb v/v	J	20
1-Butanol(9.57)	13-DEC-07 19:15	1500	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 19:15	430	ppb v/v	J	20
Butanoic acid, ethyl ester(12.71)	13-DEC-07 19:15	130	ppb v/v	J	20
Acetic acid, butyl ester(12.98)	13-DEC-07 19:15	190	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 19:15	180	ppb v/v	J	20
Cyclopentanone, 2-methyl-(13.51)	13-DEC-07 19:15	140	ppb v/v	J	20
Hexanoic acid, methyl ester(15.22)	13-DEC-07 19:15	170	ppb v/v	J	20
Cyclopentanone, 2-ethyl-(15.54)	13-DEC-07 19:15	130	ppb v/v	J	20
Benzene, 1-methyl-4-(1-methyle(17.38)	13-DEC-07 19:15	140	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
12170708385773
Page 6

S07CB00G

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 17-DEC-07 08:39

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20348
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20348

Date Received.....: 11-DEC-07 00:00

Client Sample Name: SGP6_120807_|TO-15
DCL Sample Name...: 07I14567
DCL Report Group..: 07I-2257-01

Matrix.....: TEDLAR
Date Sampled.....: 08-DEC-07 11:50
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 19:52	1.3	6.3	ppb v/v	J	20	10.
Dichlorodifluoromethane	13-DEC-07 19:52	6.6	31.	µg/m³	J	20	50.
Chloromethane	13-DEC-07 19:52	5.0	310	ppb v/v		20	10.
Chloromethane	13-DEC-07 19:52	10.	650	µg/m³		20	20.
Freon 114	13-DEC-07 19:52	3.1	ND	ppb v/v		20	10.
Freon 114	13-DEC-07 19:52	22.	ND	µg/m³		20	70.
Vinyl Chloride	13-DEC-07 19:52	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 19:52	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 19:52	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 19:52	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 19:52	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 19:52	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 19:52	7.8	36.	ppb v/v		20	10.
Chloroethane	13-DEC-07 19:52	20.	96.	µg/m³		20	26.
Freon 11	13-DEC-07 19:52	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 19:52	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 19:52	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 19:52	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 19:52	2.2	150	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 19:52	7.0	470	µg/m³		20	32.
Freon 113	13-DEC-07 19:52	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 19:52	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 19:52	2.3	6300	ppb v/v	E	20	10.
Acetone	13-DEC-07 19:52	5.4	15000	µg/m³	E	20	24.
Methylene Chloride	13-DEC-07 19:52	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 19:52	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 19:52	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 19:52	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 19:52	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 19:52	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 19:52	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 19:52	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 19:52	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 19:52	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 19:52	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 19:52	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 19:52	3.6	6400	ppb v/v	E	20	10.
2-Butanone	13-DEC-07 19:52	11.	19000	µg/m³	E	20	30.
Ethyl Acetate	13-DEC-07 19:52	5.5	1200	ppb v/v	E	20	10.
Ethyl Acetate	13-DEC-07 19:52	20.	4400	µg/m³	E	20	36.
Hexane	13-DEC-07 19:52	2.4	770	ppb v/v	E	20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
12170708385773
Page 7

S07CB00G

Date Printed.....: 17-DEC-07 08:38
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14567
DCL Report Group..: 07I-2257-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 19:52	8.6	2700	µg/m³	E	20	36.
Chloroform	13-DEC-07 19:52	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 19:52	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 19:52	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 19:52	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 19:52	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 19:52	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 19:52	2.0	4200	ppb v/v	E	20	10.
Benzene	13-DEC-07 19:52	6.6	13000	µg/m³	E	20	32.
Tetrahydrofuran	13-DEC-07 19:52	4.5	7900	ppb v/v	E	20	10.
Tetrahydrofuran	13-DEC-07 19:52	13.	23000	µg/m³	E	20	30.
1,2-Dichloroethane	13-DEC-07 19:52	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 19:52	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 19:52	2.4	210	ppb v/v		20	10.
Cyclohexane	13-DEC-07 19:52	8.2	720	µg/m³		20	34.
Trichloroethene	13-DEC-07 19:52	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 19:52	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 19:52	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 19:52	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 19:52	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 19:52	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 19:52	2.0	420	ppb v/v	E	20	10.
Heptane	13-DEC-07 19:52	8.2	1700	µg/m³	E	20	40.
cis-1,3-Dichloropropene	13-DEC-07 19:52	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 19:52	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 19:52	2.3	1900	ppb v/v	E	20	10.
4-Methyl-2-Pentanone	13-DEC-07 19:52	9.6	7800	µg/m³	E	20	40.
Toluene	13-DEC-07 19:52	2.3	2600	ppb v/v	E	20	10.
Toluene	13-DEC-07 19:52	8.6	9800	µg/m³	E	20	38.
trans-1,3-Dichloropropene	13-DEC-07 19:52	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 19:52	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 19:52	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 19:52	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 19:52	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 19:52	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 19:52	2.7	490	ppb v/v	E	20	10.
2-Hexanone	13-DEC-07 19:52	11.	2000	µg/m³	E	20	40.
Dibromochloromethane	13-DEC-07 19:52	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 19:52	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 19:52	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 19:52	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 19:52	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 19:52	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 19:52	3.0	2000	ppb v/v	E	20	10.
Ethylbenzene	13-DEC-07 19:52	13.	8800	µg/m³	E	20	44.
m,p-Xylene	13-DEC-07 19:52	4.3	2200	ppb v/v	E	20	20.
m,p-Xylene	13-DEC-07 19:52	18.	9700	µg/m³	E	20	86.
o-Xylene	13-DEC-07 19:52	2.3	660	ppb v/v	E	20	10.
o-Xylene	13-DEC-07 19:52	9.8	2800	µg/m³	E	20	44.
Styrene	13-DEC-07 19:52	1.5	23.	ppb v/v		20	10.
Styrene	13-DEC-07 19:52	6.4	99.	µg/m³		20	42.
Bromoform	13-DEC-07 19:52	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 19:52	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 19:52	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 19:52	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 19:52	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 19:52	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 19:52	2.0	35.	ppb v/v		20	10.

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S07CB00G

Date Printed.....: 17-DEC-07 08:38
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14567
DCL Report Group..: 07I-2257-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 19:52	9.6	170	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 19:52	2.2	29.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 19:52	11.	140	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 19:52	2.3	56.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 19:52	12.	280	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 19:52	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 19:52	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 19:52	2.0	4.6	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 19:52	12.	28.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 19:52	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 19:52	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 19:52	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 19:52	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 19:52	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 19:52	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.22)	13-DEC-07 19:52	7800	ppb v/v	J	20
1-Propene, 2-methyl-(4.77)	13-DEC-07 19:52	1100	ppb v/v	J	20
Methanethiol(4.95)	13-DEC-07 19:52	1000	ppb v/v	J	20
Ethanol(5.40)	13-DEC-07 19:52	5400	ppb v/v	J	20
Furan(6.03)	13-DEC-07 19:52	1300	ppb v/v	J	20
Dimethyl Sulfide(6.38)	13-DEC-07 19:52	1800	ppb v/v	J	20
1-Butene, 3-methyl-(6.57)	13-DEC-07 19:52	1400	ppb v/v	J	20
Cyclopentene(7.30)	13-DEC-07 19:52	770	ppb v/v	J	20
Furan, 2-methyl-(8.23)	13-DEC-07 19:52	1500	ppb v/v	J	20
1,4-Dioxane(10.63)	13-DEC-07 19:52	300	ppb v/v	J	20
Cyclopentene, 1,5-dimethyl-(10.88)	13-DEC-07 19:52	940	ppb v/v	J	20
Butanoic acid, methyl ester(11.00)	13-DEC-07 19:52	1000	ppb v/v	J	20
Butanoic acid, 3-methyl-, meth(12.26)	13-DEC-07 19:52	1500	ppb v/v	J	20
3-Heptene, 3-methyl-(13.03)	13-DEC-07 19:52	1000	ppb v/v	J	20
Pentanoic acid, methyl ester(13.24)	13-DEC-07 19:52	1200	ppb v/v	J	20

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DATA CHEM LABORATORIES
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FORM J (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)

Form RLIMS63J-V1.4
12170708385773
Page 9
S07CH00N

DCL Sample Name...: QC-261686-1
Date Printed.....: 17-DEC-07 08:38

Client Name.....: American Analytical Laboratories,
Release Number.....: 20348

DCL Analysis Group: G07CH002
Analysis Method...: TO15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Matrix.....: AIR
Reporting Units.....: ppb v/v

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Dichlorodifluoromethane	13-DEC-07 11:27	10.0	9.56	95.6	70.0/130.	
Chloromethane	13-DEC-07 11:27	10.0	9.43	94.3	70.0/130.	
Freon 114	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
Vinyl Chloride	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
1,3-Butadiene	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
Bromomethane	13-DEC-07 11:27	10.0	10.6	106.	70.0/130.	
Chloroethane	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
Freon 11	13-DEC-07 11:27	10.0	9.91	99.1	70.0/130.	
cis-1,2-Dichloroethene	13-DEC-07 11:27	10.0	9.48	94.8	70.0/130.	
Carbon Disulfide	13-DEC-07 11:27	10.0	9.04	90.4	70.0/130.	
Freon 113	13-DEC-07 11:27	10.0	8.96	89.6	70.0/130.	
Acetone	13-DEC-07 11:27	10.0	2.56	25.6	70.0/130.	*
Methylene Chloride	13-DEC-07 11:27	10.0	10.4	104.	70.0/130.	
trans-1,2-Dichloroethene	13-DEC-07 11:27	10.0	9.27	92.7	70.0/130.	
1,1-Dichloroethane	13-DEC-07 11:27	10.0	9.14	91.4	70.0/130.	
Methyl t-Butyl Ether	13-DEC-07 11:27	10.0	9.26	92.6	70.0/130.	
Vinyl Acetate	13-DEC-07 11:27	10.0	9.65	96.5	70.0/130.	
1,1-Dichloroethene	13-DEC-07 11:27	10.0	9.03	90.3	70.0/130.	
2-Butanone	13-DEC-07 11:27	10.0	10.0	100.	70.0/130.	
Ethyl Acetate	13-DEC-07 11:27	10.0	9.78	97.8	70.0/130.	
Hexane	13-DEC-07 11:27	10.0	9.05	90.5	70.0/130.	
Chloroform	13-DEC-07 11:27	10.0	9.53	95.3	70.0/130.	
1,1,1-Trichloroethane	13-DEC-07 11:27	10.0	9.88	98.8	70.0/130.	
Carbon Tetrachloride	13-DEC-07 11:27	10.0	9.78	97.8	70.0/130.	
Benzene	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
Tetrahydrofuran	13-DEC-07 11:27	10.0	9.61	96.1	70.0/130.	
1,2-Dichloroethane	13-DEC-07 11:27	10.0	9.47	94.7	70.0/130.	
Cyclohexane	13-DEC-07 11:27	10.0	9.83	98.3	70.0/130.	
Trichloroethene	13-DEC-07 11:27	10.0	9.76	97.6	70.0/130.	
1,2-Dichloropropane	13-DEC-07 11:27	10.0	9.95	99.5	70.0/130.	
Bromodichloromethane	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
Heptane	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
cis-1,3-Dichloropropene	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
4-Methyl-2-Pentanone	13-DEC-07 11:27	10.0	10.3	103.	70.0/130.	
Toluene	13-DEC-07 11:27	10.0	10.5	105.	70.0/130.	
trans-1,3-Dichloropropene	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
1,1,2-Trichloroethane	13-DEC-07 11:27	10.0	10.4	104.	70.0/130.	
Tetrachloroethene	13-DEC-07 11:27	10.0	10.4	104.	70.0/135.	
2-Hexanone	13-DEC-07 11:27	10.0	9.98	99.8	70.0/130.	
1,2-Dibromoethane	13-DEC-07 11:27	10.0	10.3	103.	70.0/130.	
Chlorobenzene	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
Ethylbenzene	13-DEC-07 11:27	10.0	10.6	106.	70.0/130.	
m,p-Xylene	13-DEC-07 11:27	20.0	21.4	107.	70.0/130.	
o-Xylene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
Styrene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
Bromoform	13-DEC-07 11:27	10.0	10.3	103.	70.0/130.	
1,1,2,2-Tetrachloroethane	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	

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DATA CHEM LABORATORIES
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FORM J (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)

Form RLIMS63J-V1.4
12170708385773
Page 10

S07CH00N

DCL Sample Name....: QC-261686-1
Date Printed.....: 17-DEC-07 08:38

Client Name.....: American Analytical Laboratories,

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Benzyl Chloride	13-DEC-07 11:27	10.0	10.5	105.	70.0/130.	
4-Ethyl toluene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
1,3,5-Trimethylbenzene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
1,2,4-Trimethylbenzene	13-DEC-07 11:27	10.0	10.7	107.	70.0/130.	
1,3-Dichlorobenzene	13-DEC-07 11:27	10.0	11.0	110.	70.0/130.	
1,4-Dichlorobenzene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
1,2-Dichlorobenzene	13-DEC-07 11:27	10.0	10.7	107.	70.0/130.	
1,2,4-Trichlorobenzene	13-DEC-07 11:27	10.0	11.2	112.	70.0/130.	
Hexachlorobutadiene	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	

S07CH00P

DCL Sample Name....: QD-261686-1

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Dichlorodifluoromethane	13-DEC-07 12:07	8.97	89.7	9.27	0.588	6.3	0.00/25.0	
Chloromethane	13-DEC-07 12:07	8.48	84.8	8.95	0.951	11.	0.00/25.0	
Freon 114	13-DEC-07 12:07	8.85	88.5	9.46	1.21	13.	0.00/25.0	
Vinyl Chloride	13-DEC-07 12:07	8.80	88.0	9.47	1.34	14.	0.00/25.0	
1,3-Butadiene	13-DEC-07 12:07	8.85	88.5	9.55	1.40	15.	0.00/25.0	
Bromomethane	13-DEC-07 12:07	8.87	88.7	9.72	1.71	18.	0.00/25.0	
Chloroethane	13-DEC-07 12:07	8.80	88.0	9.50	1.40	15.	0.00/25.0	
Freon 11	13-DEC-07 12:07	9.12	91.2	9.51	0.791	8.3	0.00/25.0	
cis-1,2-Dichloroethene	13-DEC-07 12:07	9.23	92.3	9.36	0.248	2.7	0.00/25.0	
Carbon Disulfide	13-DEC-07 12:07	8.54	85.4	8.79	0.494	5.6	0.00/25.0	
Freon 113	13-DEC-07 12:07	8.70	87.0	8.83	0.258	2.9	0.00/25.0	
Acetone	13-DEC-07 12:07	10.1	101.	6.32	7.52	120	0.00/25.0	*
Methylene Chloride	13-DEC-07 12:07	9.98	99.8	10.2	0.432	4.2	0.00/25.0	
trans-1,2-Dichloroethene	13-DEC-07 12:07	9.06	90.6	9.17	0.210	2.3	0.00/25.0	
1,1-Dichloroethane	13-DEC-07 12:07	8.94	89.4	9.04	0.200	2.2	0.00/25.0	
Methyl t-Butyl Ether	13-DEC-07 12:07	9.44	94.4	9.35	0.182	1.9	0.00/25.0	
Vinyl Acetate	13-DEC-07 12:07	9.84	98.4	9.74	0.192	2.0	0.00/25.0	
1,1-Dichloroethene	13-DEC-07 12:07	8.70	87.0	8.86	0.337	3.8	0.00/25.0	
2-Butanone	13-DEC-07 12:07	10.1	101.	10.1	0.101	1.0	0.00/25.0	
Ethyl Acetate	13-DEC-07 12:07	10.3	103.	10.0	0.516	5.1	0.00/25.0	
Hexane	13-DEC-07 12:07	8.77	87.7	8.91	0.283	3.2	0.00/25.0	
Chloroform	13-DEC-07 12:07	9.35	93.5	9.44	0.178	1.9	0.00/25.0	
1,1,1-Trichloroethane	13-DEC-07 12:07	9.18	91.8	9.53	0.704	7.4	0.00/25.0	
Carbon Tetrachloride	13-DEC-07 12:07	9.09	90.9	9.44	0.682	7.2	0.00/25.0	
Benzene	13-DEC-07 12:07	9.57	95.7	9.91	0.676	6.8	0.00/25.0	
Tetrahydrofuran	13-DEC-07 12:07	9.96	99.6	9.79	0.350	3.6	0.00/25.0	
1,2-Dichloroethane	13-DEC-07 12:07	9.40	94.0	9.44	0.0690	0.73	0.00/25.0	
Cyclohexane	13-DEC-07 12:07	9.07	90.7	9.45	0.758	8.0	0.00/25.0	
Trichloroethene	13-DEC-07 12:07	8.91	89.1	9.33	0.852	9.1	0.00/25.0	
1,2-Dichloropropane	13-DEC-07 12:07	9.51	95.1	9.73	0.444	4.6	0.00/25.0	
Bromodichloromethane	13-DEC-07 12:07	9.62	96.2	9.87	0.502	5.1	0.00/25.0	
Heptane	13-DEC-07 12:07	9.48	94.8	9.79	0.611	6.2	0.00/25.0	
cis-1,3-Dichloropropene	13-DEC-07 12:07	9.73	97.3	9.93	0.387	3.9	0.00/25.0	
4-Methyl-2-Pentanone	13-DEC-07 12:07	9.72	97.2	10.0	0.605	6.0	0.00/25.0	
Toluene	13-DEC-07 12:07	10.2	102.	10.4	0.327	3.2	0.00/25.0	
trans-1,3-Dichloropropene	13-DEC-07 12:07	10.0	100.	10.1	0.232	2.3	0.00/25.0	
1,1,2-Trichloroethane	13-DEC-07 12:07	10.1	101.	10.3	0.321	3.1	0.00/25.0	

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DATA CHEM LABORATORIES
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FORM J (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)

Form RLIMS63J-V1.4
12170708385773
Page 11
S07CH00P

DCL Sample Name....: QD-261686-1
Date Printed.....: 17-DEC-07 08:38

Client Name.....: American Analytical Laboratories,

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Tetrachloroethene	13-DEC-07 12:07	9.69	96.9	10.1	0.727	7.2	0.00/25.0	
2-Hexanone	13-DEC-07 12:07	9.32	93.2	9.65	0.661	6.8	0.00/25.0	
1,2-Dibromoethane	13-DEC-07 12:07	9.78	97.8	10.1	0.539	5.4	0.00/25.0	
Chlorobenzene	13-DEC-07 12:07	9.65	96.5	9.89	0.480	4.9	0.00/25.0	
Ethylbenzene	13-DEC-07 12:07	10.5	105.	10.5	0.117	1.1	0.00/25.0	
m,p-Xylene	13-DEC-07 12:07	21.4	107.	21.4	0.0780	0.36	0.00/25.0	
o-Xylene	13-DEC-07 12:07	10.8	108.	10.8	0.0720	0.67	0.00/25.0	
Styrene	13-DEC-07 12:07	10.5	105.	10.7	0.220	2.1	0.00/25.0	
Bromoform	13-DEC-07 12:07	10.2	102.	10.2	0.0950	0.93	0.00/25.0	
1,1,2,2-Tetrachloroethane	13-DEC-07 12:07	10.7	107.	10.8	0.141	1.3	0.00/25.0	
Benzyl Chloride	13-DEC-07 12:07	10.8	108.	10.6	0.241	2.3	0.00/25.0	
4-Ethyl toluene	13-DEC-07 12:07	11.0	110.	10.9	0.159	1.5	0.00/25.0	
1,3,5-Trimethylbenzene	13-DEC-07 12:07	10.6	106.	10.7	0.166	1.5	0.00/25.0	
1,2,4-Trimethylbenzene	13-DEC-07 12:07	11.1	111.	10.9	0.336	3.1	0.00/25.0	
1,3-Dichlorobenzene	13-DEC-07 12:07	10.6	106.	10.8	0.327	3.0	0.00/25.0	
1,4-Dichlorobenzene	13-DEC-07 12:07	10.5	105.	10.6	0.280	2.6	0.00/25.0	
1,2-Dichlorobenzene	13-DEC-07 12:07	10.8	108.	10.8	0.0610	0.57	0.00/25.0	
1,2,4-Trichlorobenzene	13-DEC-07 12:07	12.0	120.	11.6	0.768	6.6	0.00/25.0	
Hexachlorobutadiene	13-DEC-07 12:07	10.6	106.	10.4	0.471	4.5	0.00/25.0	

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DATA CHEM LABORATORIES
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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

Form RLIMS63C-V1.4
12170708385773
Page 12
S07CH00M

DCL Sample Name...: BL-261686-1
Date Printed.....: 17-DEC-07 08:38

Client Name.....: American Analytical Laboratories,
Release Number.....: 20348

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Matrix.....: TEDLAR
Reporting Units.....: ppb v/v

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Dichlorodifluoromethane	13-DEC-07 12:47	ND	0.0669	0.5
Chloromethane	13-DEC-07 12:47	ND	0.249	0.5
Freon 114	13-DEC-07 12:47	ND	0.156	0.5
Vinyl Chloride	13-DEC-07 12:47	ND	0.301	0.5
1,3-Butadiene	13-DEC-07 12:47	ND	0.346	0.5
Bromomethane	13-DEC-07 12:47	ND	0.215	0.5
Chloroethane	13-DEC-07 12:47	ND	0.388	0.5
Freon 11	13-DEC-07 12:47	ND	0.0921	0.5
cis-1,2-Dichloroethene	13-DEC-07 12:47	ND	0.102	0.5
Carbon Disulfide	13-DEC-07 12:47	ND	0.111	0.5
Freon 113	13-DEC-07 12:47	ND	0.0950	0.5
Acetone	13-DEC-07 12:47	ND	0.113	0.5
Methylene Chloride	13-DEC-07 12:47	ND	0.168	0.5
trans-1,2-Dichloroethene	13-DEC-07 12:47	ND	0.118	0.5
1,1-Dichloroethane	13-DEC-07 12:47	ND	0.116	0.5
Methyl t-Butyl Ether	13-DEC-07 12:47	ND	0.147	0.5
Vinyl Acetate	13-DEC-07 12:47	ND	0.133	0.5
1,1-Dichloroethene	13-DEC-07 12:47	ND	0.109	0.5
2-Butanone	13-DEC-07 12:47	ND	0.182	0.5
Ethyl Acetate	13-DEC-07 12:47	ND	0.273	0.5
Hexane	13-DEC-07 12:47	ND	0.121	0.5
Chloroform	13-DEC-07 12:47	ND	0.115	0.5
1,1,1-Trichloroethane	13-DEC-07 12:47	ND	0.0725	0.5
Carbon Tetrachloride	13-DEC-07 12:47	ND	0.0657	0.5
Benzene	13-DEC-07 12:47	ND	0.102	0.5
Tetrahydrofuran	13-DEC-07 12:47	ND	0.227	0.5
1,2-Dichloroethane	13-DEC-07 12:47	ND	0.153	0.5
Cyclohexane	13-DEC-07 12:47	ND	0.120	0.5
Trichloroethene	13-DEC-07 12:47	ND	0.120	0.5
1,2-Dichloropropane	13-DEC-07 12:47	ND	0.123	0.5
Bromodichloromethane	13-DEC-07 12:47	ND	0.0779	0.5
Heptane	13-DEC-07 12:47	ND	0.101	0.5
cis-1,3-Dichloropropene	13-DEC-07 12:47	ND	0.106	0.5
4-Methyl-2-Pentanone	13-DEC-07 12:47	ND	0.116	0.5
Toluene	13-DEC-07 12:47	ND	0.115	0.5
trans-1,3-Dichloropropene	13-DEC-07 12:47	ND	0.130	0.5
1,1,2-Trichloroethane	13-DEC-07 12:47	ND	0.0972	0.5
Tetrachloroethene	13-DEC-07 12:47	ND	0.0847	0.5
2-Hexanone	13-DEC-07 12:47	ND	0.136	0.5
Dibromochloromethane	13-DEC-07 12:47	ND	0.0792	0.5
1,2-Dibromoethane	13-DEC-07 12:47	ND	0.119	0.5
Chlorobenzene	13-DEC-07 12:47	ND	0.0882	0.5
Ethylbenzene	13-DEC-07 12:47	ND	0.150	0.5
m,p-Xylene	13-DEC-07 12:47	ND	0.213	1.0
o-Xylene	13-DEC-07 12:47	ND	0.113	0.5
Styrene	13-DEC-07 12:47	ND	0.0748	0.5
Bromoform	13-DEC-07 12:47	ND	0.0884	0.5

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DATA CHEM LABORATORIES
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FORM C (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63C-V1.4
12170708385773
Page 13

S07CH00M

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

DCL Sample Name...: BL-261686-1
Client Name.....: American Analytical Laboratories,
Date Printed.....: 17-DEC-07 08:38

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
1,1,2,2-Tetrachloroethane	13-DEC-07 12:47	ND	0.108	0.5
Benzyl Chloride	13-DEC-07 12:47	ND	0.136	0.5
4-Ethyl toluene	13-DEC-07 12:47	ND	0.0983	0.5
1,3,5-Trimethylbenzene	13-DEC-07 12:47	ND	0.112	0.5
1,2,4-Trimethylbenzene	13-DEC-07 12:47	ND	0.117	0.5
1,3-Dichlorobenzene	13-DEC-07 12:47	ND	0.120	0.5
1,4-Dichlorobenzene	13-DEC-07 12:47	ND	0.0987	0.5
1,2-Dichlorobenzene	13-DEC-07 12:47	ND	0.0851	0.5
1,2,4-Trichlorobenzene	13-DEC-07 12:47	ND	0.115	0.5
Hexachlorobutadiene	13-DEC-07 12:47	ND	0.119	0.5

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FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

Form RLIMS63G-V1.4
12170708385773
Page 14
G07CH002

Date Printed.....: 17-DEC-07 08:38

Client Name.....: American Analytical Laboratories,
Release Number.....: 20348

Matrix.....: AIR
Reporting Units.....: ppb v/v

DCL Analysis Group: G07CH002
Analysis Method...: TO15

DCL Prep Group....: Not Applicable
Preparation Method: Not Applicable

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	4-Bromofluorobenzene												
QC Limits	65.0/135.												
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
07I14566	18.8	20.0	94.2									
07I14567	23.0	20.0	115.									
BL-261686-1	19.2	20.0	96.0									
QC-261686-1	19.9	20.0	99.7									
QD-261686-1	20.2	20.0	101.									

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☐ 840 S. Main St. • Akron, OH 44311-1516
Tel: 330-535-1300 • Fax: 330-535-7246
☐ 5777 Franz Rd. • Dublin, OH 43017
Tel: 614-791-1136 • Fax: 614-791-1287
email: AAL@AAL-INC.COM

PI-22557-01

and
Chain of Custody

PAGE ____ OF ____ AAL WO No.: 0712027

Company Name: American Analytical Labs
Company Address: 840 S. Main St. Akron OH 44311
Project Name: Republic Services of OH II LLC dba ~~3619 Graceland St. SW~~ E Countryside FDF
Project Address: 3619 Graceland St SW East Sparta, OH 44626
Sampled By (Signature):
Report To:
Phone ( )
FAX ( )
AAL Proposal No.
Client Project No. or I.D.
Client P.O. No. 20348

Date Sampled	Time Sampled	Sample Matrix	Comp	Grab	Sample Description	No. of Containers	Preservative Bottle Type	Analytes or Parameters: TO-15	Lab Sample No.
12/8/07	11:35	LFG		✓	SGP 2-120807-TO-15	1	1		PI14546
12/8/07	11:50	LFG		✓	SGP 6-120807-TO-15	1	1		1-09

CHAIN OF CUSTODY

Relinquished By	Date	Time	Received By
[signature]	12/10/07	1410	M Mouth
M Mouth	12/10/07	1425	[signature] 12/10/07 1800

Logged in by: ____ Time: ____ Date ____
Authorized by: [signature] Time: 12:10 Date 12/8/07
(Client Signature Must Accompany Request)
Affixing signature hereto, customer acknowledges they have read and agree to the terms and conditions on the reverse of this form.

Turn-Around
Normal ____
Rush ____ Days
Rush work requires prior approval of laboratory.
Surcharges apply to all rush work. Surcharge rate depends on type of work performed.

Fax Results? ____
Project Type: NPDES ____ UST ____ VAP ____ DW ____ OTHER ____
PWSID # ____
Special Instructions NOV. FSO order #9

Visit our web site at http://www.aal-inc.com

76317

From: DataChem Laboratories, Inc. - Fax: (801) 268-9992 To: Kathye Graves Page: 52/88 Date: 12/18/2007 9:05:30 AM

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WORK ORDER

Printed: 12/11/2007 10:12:49AM

0712027

American Analytical Laboratories, Inc. - Akron

Client: Republic Services of Ohio II, LLC dba Countywid
Project: NOV F&O Order #9

Project Manager: Mike Moretti
Project Number: NOV F&O Order #9

Report To:
Republic Services of Ohio II, LLC dba Countywide
Michael R.Beaudoin, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone: (330) 847-3855
Fax: (330) 874-2426

Invoice To:
Republic Services of Ohio II, LLC dba Countywide
Todd K. Hamilton, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone :(330) 847-3855
Fax: (330) 874-2426

Date Due: 24-Dec-07 00:00 (10 day TAT)
Received By: Mike Moretti
Logged In By: Linda Cutting
Date Received: 10-Dec-07 14:10
Date Logged In: 11-Dec-07 10:10

Samples Received at:

Custody Seals	No	Received On Ice	No	Suff. Samp Vol.	Yes
Containers Intact	Yes	COC Present	Yes	Samp w/in Hold	Yes
COC/Labels Agree	Yes	COC Signed	Yes	Samp Temp w/in C	Yes
Preserve Confirmec	No	Samp/Prop. Cont.	Yes		

Analysis	Due	TAT	Expires	Comments
DataChem Laboratories, Inc.				
0712027-01 SGP2_120807_TO-15 [Air] Sampled 08-Dec-07 11:35 Eastern				**LFG Extraction Sample**
ATO-15DCLX	24-Dec-07 00:00	10	05-Jan-08 11:35	
0712027-02 SGP6_120807_TO-15 [Air] Sampled 08-Dec-07 11:50 Eastern				**LFG Extraction Sample**
ATO-15DCLX	24-Dec-07 00:00	10	05-Jan-08 11:50	

Reviewed By

Date

TO-15
07I-2245-01

Work Order Completion Status

AAL Work Order No. 0712024

Analysis	Lab	Date Final HC Report in WO File	Validated
TO-15	Datachem	12/31/07	12/31/07
		/	/
		/	/
		/	/

Hard Copy Distribution	AAL WO File	AAL Binder	On Site Binder	Other

EIM Data Status	COC Entered	Lab Data Uploaded	Lab Data EIM Validated

TO-15
07I-2245-01

Data Validation (basic)

WO # 0712024 F&O # F&O #9

Date Sampled 12/7/07 Date Analyzed 12/13/07

Date Reported 12/26/07 Date Validated 12/31/07 By MMnot

Date Hard Copy Sent to Client _____

Manual Validation

		Y/N	Resolution
COC	1) F&O Listed	Y	
	2) Field Names Correct	Y	
	3) PO# on COC	Y	
Analysis	1) All Requested Analysis Reported	Y	
	2) Results w/i Expected Range	Y	1
	3) QC Acceptable	Y	
	4) Sampling and Analytical Plan Specs. Met	Y	
	5) Validation Date Entered	Y	
EIM Validation	1) COC entered into Locus		
	2) Lab Data Uploaded		
	3 Locus System Validation		

Resolutions (1) Few organic reported values were between the MDL and PQL

DATA CHEM LABORATORIES
A Sorenson Company

COVER PAGE

DEC 17 2007

Form COVER-V1.4
12170708325515
Page 1

G07C700X

ANALYTICAL REPORT FOR
American Analytical Laboratories, Inc.

Phone(330) 535-1300 Fax(330) 535-7246
E-mail: aal@all-inc.com

DCL Report Group..: **07I-2245-01**

Date Printed.....: 17-DEC-07 08:32

Project Protocol #: P021C002
Client Ref Number.: 20347
Release Number....: 20347

Analysis Method(s): TO-15

American Analytical Laboratories, Inc.
Attention: Kathye Graves
840 South Main St.
Akron, OH 44311-1516

Client Sample Name		Laboratory Sample Name	Date Sampled	Date Received
Method Blank		BL-261686-1	NA	NA
LCS		QC-261686-1	NA	NA
LCS Dup		QD-261686-1	NA	NA
SGP1_120707_	TO-15	07I14484	07-DEC-07	08-DEC-07
SGP3_120707_	TO-15	07I14485	07-DEC-07	08-DEC-07
SGP4_120707_	TO-15	07I14486	07-DEC-07	08-DEC-07
SGP5_120707_	TO-15	07I14487	07-DEC-07	08-DEC-07
SGP7_120707_	TO-15	07I14488	07-DEC-07	08-DEC-07
SGP8_120707_	TO-15	07I14489	07-DEC-07	08-DEC-07
SGP9_120707_	TO-15	07I14490	07-DEC-07	08-DEC-07
SGP10_120707	_TO-15	07I14491	07-DEC-07	08-DEC-07
SGP11_120707	_TO-15	07I14492	07-DEC-07	08-DEC-07

Analyst: Thomas J. Masolan — Date 12.17.07

Reviewer: Lisa M. Reid — Date 12-17-07

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SAMPLE GROUP COMMENTS

DCL Report Group..: **07I-2245-01**
Date Printed.....: 17-DEC-07 08:32

Client Name...: American Analytical Laboratories,

Release Number....: 20347

Sample Group Comments

Analyzed by GC/MS according to method TO15.

PQL - Practical Quantitation Limit - Lowest standard that is detectable.
MDL - Method Detection Limit - Statisticaly derived value using 40 CFR methods.

$\mu g/m^3$ formula: (Result * MW) / 24.45

The "E" qualifier indicates a reported value above the analytical linear range.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

Report generation options: IBX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
12170708325515

SAMPLE ANALYSIS DATA SHEET

S07C702P

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP1_120707_|TO-15**
DCL Sample Name...: **07I14484**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 08:14
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 20:27	1.3	7.6	ppb v/v	J	20	10.
Dichlorodifluoromethane	13-DEC-07 20:27	6.6	37.	µg/m³	J	20	50.
Chloromethane	13-DEC-07 20:27	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 20:27	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 20:27	3.1	ND	ppb v/v		20	10.
Freon 114	13-DEC-07 20:27	22.	ND	µg/m³		20	70.
Vinyl Chloride	13-DEC-07 20:27	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 20:27	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 20:27	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 20:27	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 20:27	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 20:27	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 20:27	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 20:27	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 20:27	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 20:27	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 20:27	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 20:27	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 20:27	2.2	34.	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 20:27	7.0	100	µg/m³		20	32.
Freon 113	13-DEC-07 20:27	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 20:27	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 20:27	2.3	120	ppb v/v		20	10.
Acetone	13-DEC-07 20:27	5.4	280	µg/m³		20	24.
Methylene Chloride	13-DEC-07 20:27	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 20:27	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 20:27	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 20:27	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 20:27	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 20:27	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 20:27	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 20:27	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 20:27	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 20:27	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 20:27	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 20:27	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 20:27	3.6	170	ppb v/v		20	10.
2-Butanone	13-DEC-07 20:27	11.	500	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 20:27	5.5	33.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 20:27	20.	120	µg/m³		20	36.
Hexane	13-DEC-07 20:27	2.4	24.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702P

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14484**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 20:27	8.6	86.	µg/m³		20	36.
Chloroform	13-DEC-07 20:27	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 20:27	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 20:27	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 20:27	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 20:27	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 20:27	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 20:27	2.0	170	ppb v/v		20	10.
Benzene	13-DEC-07 20:27	6.6	530	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 20:27	4.5	220	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 20:27	13.	660	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 20:27	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 20:27	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 20:27	2.4	12.	ppb v/v		20	10.
Cyclohexane	13-DEC-07 20:27	8.2	42.	µg/m³		20	34.
Trichloroethene	13-DEC-07 20:27	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 20:27	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 20:27	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 20:27	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 20:27	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 20:27	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 20:27	2.0	11.	ppb v/v		20	10.
Heptane	13-DEC-07 20:27	8.2	46.	µg/m³		20	40.
cis-1,3-Dichloropropene	13-DEC-07 20:27	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 20:27	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 20:27	2.3	66.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 20:27	9.6	270	µg/m³		20	40.
Toluene	13-DEC-07 20:27	2.3	95.	ppb v/v		20	10.
Toluene	13-DEC-07 20:27	8.6	360	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 20:27	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 20:27	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 20:27	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 20:27	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 20:27	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 20:27	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 20:27	2.7	15.	ppb v/v		20	10.
2-Hexanone	13-DEC-07 20:27	11.	62.	µg/m³		20	40.
Dibromochloromethane	13-DEC-07 20:27	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 20:27	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 20:27	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 20:27	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 20:27	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 20:27	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 20:27	3.0	140	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 20:27	13.	620	µg/m³		20	44.
m,p-Xylene	13-DEC-07 20:27	4.3	320	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 20:27	18.	1400	µg/m³		20	86.
o-Xylene	13-DEC-07 20:27	2.3	110	ppb v/v		20	10.
o-Xylene	13-DEC-07 20:27	9.8	460	µg/m³		20	44.
Styrene	13-DEC-07 20:27	1.5	8.3	ppb v/v	J	20	10.
Styrene	13-DEC-07 20:27	6.4	35.	µg/m³	J	20	42.
Bromoform	13-DEC-07 20:27	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 20:27	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 20:27	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 20:27	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 20:27	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 20:27	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 20:27	2.0	31.	ppb v/v		20	10.

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702P

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14484**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 20:27	9.6	150	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 20:27	2.2	38.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 20:27	11.	180	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 20:27	2.3	89.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 20:27	12.	440	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 20:27	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 20:27	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 20:27	2.0	8.8	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 20:27	12.	53.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 20:27	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 20:27	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 20:27	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 20:27	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 20:27	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 20:27	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.25)	13-DEC-07 20:27	670	ppb v/v	J	20
Isobutane(4.60)	13-DEC-07 20:27	430	ppb v/v	J	20
1-Propene, 2-methyl-(4.79)	13-DEC-07 20:27	390	ppb v/v	J	20
Butane(4.88)	13-DEC-07 20:27	260	ppb v/v	J	20
Ethanol(5.34)	13-DEC-07 20:27	2500	ppb v/v	J	20
Isopropyl Alcohol(5.98)	13-DEC-07 20:27	300	ppb v/v	J	20
2-Butanol(8.11)	13-DEC-07 20:27	360	ppb v/v	J	20
1-Butanol(9.58)	13-DEC-07 20:27	1900	ppb v/v	J	20
1,4-Dioxane(10.73)	13-DEC-07 20:27	40.	ppb v/v	J	20
Butanoic acid, methyl ester(10.94)	13-DEC-07 20:27	530	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 20:27	310	ppb v/v	J	20
Cyclopentanone, 2-methyl-(13.51)	13-DEC-07 20:27	300	ppb v/v	J	20
Hexanoic acid, methyl ester(15.22)	13-DEC-07 20:27	340	ppb v/v	J	20
Cyclopentanone, 2-ethyl-(15.54)	13-DEC-07 20:27	310	ppb v/v	J	20
Butanoic acid, butyl ester(16.55)	13-DEC-07 20:27	240	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702Q

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP3_120707_|TO-15**
DCL Sample Name...: **07I14485**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 08:23
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 14:35	1.3	53.	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 14:35	6.6	260	µg/m³		20	50.
Chloromethane	13-DEC-07 14:35	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 14:35	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 14:35	3.1	4.7	ppb v/v	J	20	10.
Freon 114	13-DEC-07 14:35	22.	33.	µg/m³	J	20	70.
Vinyl Chloride	13-DEC-07 14:35	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 14:35	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 14:35	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 14:35	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 14:35	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 14:35	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 14:35	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 14:35	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 14:35	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 14:35	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 14:35	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 14:35	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 14:35	2.2	10.	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 14:35	7.0	31.	µg/m³	J	20	32.
Freon 113	13-DEC-07 14:35	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 14:35	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 14:35	2.3	170	ppb v/v		20	10.
Acetone	13-DEC-07 14:35	5.4	400	µg/m³		20	24.
Methylene Chloride	13-DEC-07 14:35	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 14:35	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 14:35	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 14:35	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 14:35	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 14:35	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 14:35	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 14:35	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 14:35	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 14:35	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 14:35	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 14:35	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 14:35	3.6	53.	ppb v/v		20	10.
2-Butanone	13-DEC-07 14:35	11.	160	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 14:35	5.5	13.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 14:35	20.	47.	µg/m³		20	36.
Hexane	13-DEC-07 14:35	2.4	16.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702Q

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14485**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 14:35	8.6	57.	µg/m³		20	36.
Chloroform	13-DEC-07 14:35	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 14:35	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 14:35	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 14:35	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 14:35	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 14:35	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 14:35	2.0	26.	ppb v/v		20	10.
Benzene	13-DEC-07 14:35	6.6	84.	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 14:35	4.5	65.	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 14:35	13.	190	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 14:35	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 14:35	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 14:35	2.4	ND	ppb v/v		20	10.
Cyclohexane	13-DEC-07 14:35	8.2	ND	µg/m³		20	34.
Trichloroethene	13-DEC-07 14:35	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 14:35	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 14:35	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 14:35	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 14:35	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 14:35	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 14:35	2.0	9.6	ppb v/v	J	20	10.
Heptane	13-DEC-07 14:35	8.2	39.	µg/m³	J	20	40.
cis-1,3-Dichloropropene	13-DEC-07 14:35	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 14:35	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 14:35	2.3	24.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 14:35	9.6	100	µg/m³		20	40.
Toluene	13-DEC-07 14:35	2.3	46.	ppb v/v		20	10.
Toluene	13-DEC-07 14:35	8.6	170	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 14:35	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 14:35	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 14:35	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 14:35	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 14:35	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 14:35	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 14:35	2.7	9.6	ppb v/v	J	20	10.
2-Hexanone	13-DEC-07 14:35	11.	39.	µg/m³	J	20	40.
Dibromochloromethane	13-DEC-07 14:35	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 14:35	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 14:35	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 14:35	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 14:35	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 14:35	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 14:35	3.0	85.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 14:35	13.	370	µg/m³		20	44.
m,p-Xylene	13-DEC-07 14:35	4.3	200	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 14:35	18.	870	µg/m³		20	86.
o-Xylene	13-DEC-07 14:35	2.3	70.	ppb v/v		20	10.
o-Xylene	13-DEC-07 14:35	9.8	300	µg/m³		20	44.
Styrene	13-DEC-07 14:35	1.5	6.4	ppb v/v	J	20	10.
Styrene	13-DEC-07 14:35	6.4	27.	µg/m³	J	20	42.
Bromoform	13-DEC-07 14:35	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 14:35	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 14:35	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 14:35	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 14:35	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 14:35	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 14:35	2.0	26.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702Q

Date Printed.....: 17-DEC-07 11:17
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14485
DCL Report Group..: 07I-2245-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 14:35	9.6	130	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 14:35	2.2	34.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 14:35	11.	170	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 14:35	2.3	87.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 14:35	12.	430	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 14:35	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 14:35	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 14:35	2.0	9.0	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 14:35	12.	54.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 14:35	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 14:35	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 14:35	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 14:35	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 14:35	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 14:35	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.26)	13-DEC-07 14:35	950	ppb v/v	J	20
Ethanol(5.35)	13-DEC-07 14:35	1800	ppb v/v	J	20
Isopropyl Alcohol(5.99)	13-DEC-07 14:35	210	ppb v/v	J	20
2-Butanol(8.12)	13-DEC-07 14:35	220	ppb v/v	J	20
1-Butanol(9.57)	13-DEC-07 14:35	1300	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 14:35	240	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 14:35	190	ppb v/v	J	20
Cyclopentanone, 2-methyl-(13.51)	13-DEC-07 14:35	250	ppb v/v	J	20
Butanoic acid, propyl ester(14.72)	13-DEC-07 14:35	230	ppb v/v	J	20
Hexanoic acid, methyl ester(15.24)	13-DEC-07 14:35	370	ppb v/v	J	20
Cyclopentanone, 2-ethyl-(15.54)	13-DEC-07 14:35	320	ppb v/v	J	20
Butanoic acid, butyl ester(16.56)	13-DEC-07 14:35	420	ppb v/v	J	20
Decane(16.97)	13-DEC-07 14:35	190	ppb v/v	J	20
Benzene, methyl(1-methylethyl)(17.38)	13-DEC-07 14:35	230	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702R

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP4_120707_|TO-15**
DCL Sample Name...: **07I14486**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 08:31
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 15:11	1.3	80.	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 15:11	6.6	400	µg/m³		20	50.
Chloromethane	13-DEC-07 15:11	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 15:11	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 15:11	3.1	6.8	ppb v/v	J	20	10.
Freon 114	13-DEC-07 15:11	22.	47.	µg/m³	J	20	70.
Vinyl Chloride	13-DEC-07 15:11	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 15:11	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 15:11	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 15:11	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 15:11	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 15:11	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 15:11	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 15:11	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 15:11	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 15:11	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 15:11	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 15:11	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 15:11	2.2	15.	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 15:11	7.0	47.	µg/m³		20	32.
Freon 113	13-DEC-07 15:11	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 15:11	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 15:11	2.3	140	ppb v/v		20	10.
Acetone	13-DEC-07 15:11	5.4	340	µg/m³		20	24.
Methylene Chloride	13-DEC-07 15:11	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 15:11	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 15:11	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 15:11	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 15:11	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 15:11	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 15:11	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 15:11	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 15:11	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 15:11	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 15:11	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 15:11	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 15:11	3.6	59.	ppb v/v		20	10.
2-Butanone	13-DEC-07 15:11	11.	180	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 15:11	5.5	18.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 15:11	20.	63.	µg/m³		20	36.
Hexane	13-DEC-07 15:11	2.4	21.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702R

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14486**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 15:11	8.6	74.	µg/m³		20	36.
Chloroform	13-DEC-07 15:11	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 15:11	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 15:11	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 15:11	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 15:11	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 15:11	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 15:11	2.0	54.	ppb v/v		20	10.
Benzene	13-DEC-07 15:11	6.6	170	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 15:11	4.5	110	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 15:11	13.	310	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 15:11	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 15:11	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 15:11	2.4	11.	ppb v/v		20	10.
Cyclohexane	13-DEC-07 15:11	8.2	38.	µg/m³		20	34.
Trichloroethene	13-DEC-07 15:11	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 15:11	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 15:11	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 15:11	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 15:11	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 15:11	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 15:11	2.0	7.8	ppb v/v	J	20	10.
Heptane	13-DEC-07 15:11	8.2	32.	µg/m³	J	20	40.
cis-1,3-Dichloropropene	13-DEC-07 15:11	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 15:11	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 15:11	2.3	38.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 15:11	9.6	160	µg/m³		20	40.
Toluene	13-DEC-07 15:11	2.3	50.	ppb v/v		20	10.
Toluene	13-DEC-07 15:11	8.6	190	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 15:11	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 15:11	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 15:11	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 15:11	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 15:11	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 15:11	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 15:11	2.7	6.7	ppb v/v	J	20	10.
2-Hexanone	13-DEC-07 15:11	11.	28.	µg/m³	J	20	40.
Dibromochloromethane	13-DEC-07 15:11	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 15:11	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 15:11	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 15:11	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 15:11	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 15:11	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 15:11	3.0	72.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 15:11	13.	310	µg/m³		20	44.
m,p-Xylene	13-DEC-07 15:11	4.3	170	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 15:11	18.	720	µg/m³		20	86.
o-Xylene	13-DEC-07 15:11	2.3	57.	ppb v/v		20	10.
o-Xylene	13-DEC-07 15:11	9.8	250	µg/m³		20	44.
Styrene	13-DEC-07 15:11	1.5	5.0	ppb v/v	J	20	10.
Styrene	13-DEC-07 15:11	6.4	21.	µg/m³	J	20	42.
Bromoform	13-DEC-07 15:11	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 15:11	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 15:11	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 15:11	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 15:11	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 15:11	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 15:11	2.0	22.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702R

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14486
DCL Report Group..: 07I-2245-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 15:11	9.6	110	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 15:11	2.2	27.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 15:11	11.	130	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 15:11	2.3	74.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 15:11	12.	370	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 15:11	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 15:11	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 15:11	2.0	7.8	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 15:11	12.	47.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 15:11	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 15:11	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 15:11	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 15:11	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 15:11	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 15:11	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.26)	13-DEC-07 15:11	2400	ppb v/v	J	20
Butane(4.88)	13-DEC-07 15:11	270	ppb v/v	J	20
Ethanol(5.35)	13-DEC-07 15:11	1700	ppb v/v	J	20
Isopropyl Alcohol(6.00)	13-DEC-07 15:11	200	ppb v/v	J	20
2-Butanol(8.13)	13-DEC-07 15:11	200	ppb v/v	J	20
1-Butanol(9.57)	13-DEC-07 15:11	1100	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 15:11	270	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 15:11	180	ppb v/v	J	20
Cyclohexanone(13.51)	13-DEC-07 15:11	220	ppb v/v	J	20
Hexanoic acid, methyl ester(15.23)	13-DEC-07 15:11	280	ppb v/v	J	20
Cyclopentanone, 2-ethyl-(15.54)	13-DEC-07 15:11	280	ppb v/v	J	20
Butanoic acid, butyl ester(16.55)	13-DEC-07 15:11	390	ppb v/v	J	20
Decane(16.97)	13-DEC-07 15:11	180	ppb v/v	J	20
Benzene, 1-methyl-4-(1-methyle(17.38)	13-DEC-07 15:11	180	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702S

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP5_120707_|TO-15**
DCL Sample Name...: **07I14487**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 08:40
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 15:46	1.3	160	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 15:46	6.6	810	µg/m³		20	50.
Chloromethane	13-DEC-07 15:46	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 15:46	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 15:46	3.1	13.	ppb v/v		20	10.
Freon 114	13-DEC-07 15:46	22.	89.	µg/m³		20	70.
Vinyl Chloride	13-DEC-07 15:46	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 15:46	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 15:46	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 15:46	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 15:46	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 15:46	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 15:46	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 15:46	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 15:46	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 15:46	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 15:46	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 15:46	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 15:46	2.2	12.	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 15:46	7.0	38.	µg/m³		20	32.
Freon 113	13-DEC-07 15:46	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 15:46	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 15:46	2.3	81.	ppb v/v		20	10.
Acetone	13-DEC-07 15:46	5.4	190	µg/m³		20	24.
Methylene Chloride	13-DEC-07 15:46	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 15:46	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 15:46	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 15:46	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 15:46	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 15:46	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 15:46	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 15:46	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 15:46	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 15:46	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 15:46	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 15:46	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 15:46	3.6	ND	ppb v/v		20	10.
2-Butanone	13-DEC-07 15:46	11.	ND	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 15:46	5.5	15.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 15:46	20.	52.	µg/m³		20	36.
Hexane	13-DEC-07 15:46	2.4	58.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702S

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14487**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 15:46	8.6	200	µg/m³		20	36.
Chloroform	13-DEC-07 15:46	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 15:46	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 15:46	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 15:46	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 15:46	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 15:46	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 15:46	2.0	37.	ppb v/v		20	10.
Benzene	13-DEC-07 15:46	6.6	120	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 15:46	4.5	49.	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 15:46	13.	150	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 15:46	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 15:46	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 15:46	2.4	23.	ppb v/v		20	10.
Cyclohexane	13-DEC-07 15:46	8.2	81.	µg/m³		20	34.
Trichloroethene	13-DEC-07 15:46	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 15:46	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 15:46	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 15:46	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 15:46	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 15:46	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 15:46	2.0	8.0	ppb v/v	J	20	10.
Heptane	13-DEC-07 15:46	8.2	33.	µg/m³	J	20	40.
cis-1,3-Dichloropropene	13-DEC-07 15:46	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 15:46	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 15:46	2.3	36.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 15:46	9.6	150	µg/m³		20	40.
Toluene	13-DEC-07 15:46	2.3	41.	ppb v/v		20	10.
Toluene	13-DEC-07 15:46	8.6	160	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 15:46	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 15:46	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 15:46	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 15:46	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 15:46	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 15:46	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 15:46	2.7	5.9	ppb v/v	J	20	10.
2-Hexanone	13-DEC-07 15:46	11.	24.	µg/m³	J	20	40.
Dibromochloromethane	13-DEC-07 15:46	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 15:46	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 15:46	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 15:46	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 15:46	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 15:46	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 15:46	3.0	65.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 15:46	13.	280	µg/m³		20	44.
m,p-Xylene	13-DEC-07 15:46	4.3	150	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 15:46	18.	650	µg/m³		20	86.
o-Xylene	13-DEC-07 15:46	2.3	52.	ppb v/v		20	10.
o-Xylene	13-DEC-07 15:46	9.8	220	µg/m³		20	44.
Styrene	13-DEC-07 15:46	1.5	4.5	ppb v/v	J	20	10.
Styrene	13-DEC-07 15:46	6.4	19.	µg/m³	J	20	42.
Bromoform	13-DEC-07 15:46	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 15:46	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 15:46	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 15:46	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 15:46	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 15:46	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 15:46	2.0	21.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702S

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14487**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 15:46	9.6	100	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 15:46	2.2	26.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 15:46	11.	130	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 15:46	2.3	73.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 15:46	12.	360	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 15:46	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 15:46	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 15:46	2.0	7.9	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 15:46	12.	47.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 15:46	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 15:46	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 15:46	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 15:46	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 15:46	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 15:46	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.25)	13-DEC-07 15:46	3800	ppb v/v	J	20
1-Propene, 2-methyl-(4.79)	13-DEC-07 15:46	630	ppb v/v	J	20
Butane(4.88)	13-DEC-07 15:46	2200	ppb v/v	J	20
1-Butene(4.98)	13-DEC-07 15:46	280	ppb v/v	J	20
Ethanol(5.35)	13-DEC-07 15:46	1200	ppb v/v	J	20
Isopropyl Alcohol(6.00)	13-DEC-07 15:46	170	ppb v/v	J	20
Pentane(6.21)	13-DEC-07 15:46	600	ppb v/v	J	20
BUTANE, 2,3-DIMETHYL-(7.56)	13-DEC-07 15:46	280	ppb v/v	J	20
Pentane, 2-methyl-(7.63)	13-DEC-07 15:46	550	ppb v/v	J	20
Pentane, 3-methyl-(7.97)	13-DEC-07 15:46	380	ppb v/v	J	20
1-Butanol(9.57)	13-DEC-07 15:46	850	ppb v/v	J	20
Hexanoic acid, methyl ester(15.22)	13-DEC-07 15:46	270	ppb v/v	J	20
Cyclopentanone, 2-ethyl-(15.54)	13-DEC-07 15:46	270	ppb v/v	J	20
Butanoic acid, butyl ester(16.55)	13-DEC-07 15:46	390	ppb v/v	J	20

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

S07C702T

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP7_120707_|TO-15**
DCL Sample Name...: **07I14488**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 08:50
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 16:22	1.3	ND	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 16:22	6.6	ND	µg/m³		20	50.
Chloromethane	13-DEC-07 16:22	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 16:22	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 16:22	3.1	ND	ppb v/v		20	10.
Freon 114	13-DEC-07 16:22	22.	ND	µg/m³		20	70.
Vinyl Chloride	13-DEC-07 16:22	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 16:22	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 16:22	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 16:22	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 16:22	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 16:22	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 16:22	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 16:22	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 16:22	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 16:22	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 16:22	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 16:22	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 16:22	2.2	4.9	ppb v/v	J	20	10.
Carbon Disulfide	13-DEC-07 16:22	7.0	15.	µg/m³	J	20	32.
Freon 113	13-DEC-07 16:22	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 16:22	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 16:22	2.3	150	ppb v/v		20	10.
Acetone	13-DEC-07 16:22	5.4	350	µg/m³		20	24.
Methylene Chloride	13-DEC-07 16:22	3.4	3.4	ppb v/v	J	20	10.
Methylene Chloride	13-DEC-07 16:22	12.	12.	µg/m³	J	20	34.
trans-1,2-Dichloroethene	13-DEC-07 16:22	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 16:22	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 16:22	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 16:22	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 16:22	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 16:22	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 16:22	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 16:22	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 16:22	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 16:22	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 16:22	3.6	780	ppb v/v	E	20	10.
2-Butanone	13-DEC-07 16:22	11.	2300	µg/m³	E	20	30.
Ethyl Acetate	13-DEC-07 16:22	5.5	170	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 16:22	20.	620	µg/m³		20	36.
Hexane	13-DEC-07 16:22	2.4	21.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702T

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14488**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 16:22	8.6	73.	µg/m³		20	36.
Chloroform	13-DEC-07 16:22	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 16:22	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 16:22	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 16:22	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 16:22	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 16:22	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 16:22	2.0	460	ppb v/v	E	20	10.
Benzene	13-DEC-07 16:22	6.6	1500	µg/m³	E	20	32.
Tetrahydrofuran	13-DEC-07 16:22	4.5	960	ppb v/v	E	20	10.
Tetrahydrofuran	13-DEC-07 16:22	13.	2800	µg/m³	E	20	30.
1,2-Dichloroethane	13-DEC-07 16:22	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 16:22	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 16:22	2.4	ND	ppb v/v		20	10.
Cyclohexane	13-DEC-07 16:22	8.2	ND	µg/m³		20	34.
Trichloroethene	13-DEC-07 16:22	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 16:22	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 16:22	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 16:22	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 16:22	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 16:22	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 16:22	2.0	14.	ppb v/v		20	10.
Heptane	13-DEC-07 16:22	8.2	58.	µg/m³		20	40.
cis-1,3-Dichloropropene	13-DEC-07 16:22	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 16:22	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 16:22	2.3	110	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 16:22	9.6	450	µg/m³		20	40.
Toluene	13-DEC-07 16:22	2.3	250	ppb v/v		20	10.
Toluene	13-DEC-07 16:22	8.6	950	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 16:22	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 16:22	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 16:22	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 16:22	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 16:22	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 16:22	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 16:22	2.7	29.	ppb v/v		20	10.
2-Hexanone	13-DEC-07 16:22	11.	120	µg/m³		20	40.
Dibromochloromethane	13-DEC-07 16:22	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 16:22	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 16:22	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 16:22	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 16:22	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 16:22	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 16:22	3.0	190	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 16:22	13.	830	µg/m³		20	44.
m,p-Xylene	13-DEC-07 16:22	4.3	330	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 16:22	18.	1400	µg/m³		20	86.
o-Xylene	13-DEC-07 16:22	2.3	120	ppb v/v		20	10.
o-Xylene	13-DEC-07 16:22	9.8	510	µg/m³		20	44.
Styrene	13-DEC-07 16:22	1.5	14.	ppb v/v		20	10.
Styrene	13-DEC-07 16:22	6.4	60.	µg/m³		20	42.
Bromoform	13-DEC-07 16:22	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 16:22	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 16:22	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 16:22	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 16:22	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 16:22	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 16:22	2.0	45.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702T

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14488**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 16:22	9.6	220	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 16:22	2.2	50.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 16:22	11.	250	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 16:22	2.3	140	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 16:22	12.	670	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 16:22	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 16:22	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 16:22	2.0	12.	ppb v/v		20	10.
1,4-Dichlorobenzene	13-DEC-07 16:22	12.	70.	µg/m³		20	60.
1,2-Dichlorobenzene	13-DEC-07 16:22	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 16:22	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 16:22	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 16:22	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 16:22	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 16:22	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.25)	13-DEC-07 16:22	150	ppb v/v	J	20
Isobutane(4.60)	13-DEC-07 16:22	340	ppb v/v	J	20
Ethanol(5.34)	13-DEC-07 16:22	3400	ppb v/v	J	20
Isopropyl Alcohol(5.97)	13-DEC-07 16:22	550	ppb v/v	J	20
1-Propanol(7.16)	13-DEC-07 16:22	430	ppb v/v	J	20
2-Butanol(8.10)	13-DEC-07 16:22	960	ppb v/v	J	20
1-Butanol(9.59)	13-DEC-07 16:22	2900	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 16:22	1500	ppb v/v	J	20
Butanoic acid, ethyl ester(12.71)	13-DEC-07 16:22	330	ppb v/v	J	20
Acetic acid, butyl ester(12.97)	13-DEC-07 16:22	410	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 16:22	460	ppb v/v	J	20
Cyclopentanone, 2-methyl-(13.51)	13-DEC-07 16:22	280	ppb v/v	J	20
Hexanoic acid, methyl ester(15.23)	13-DEC-07 16:22	380	ppb v/v	J	20
Benzene, 4-ethyl-1,2-dimethyl-(17.38)	13-DEC-07 16:22	300	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

S07C702V

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP8_120707_|TO-15**
DCL Sample Name...: **07I14489**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 09:18
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 16:57	1.3	54.	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 16:57	6.6	270	µg/m³		20	50.
Chloromethane	13-DEC-07 16:57	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 16:57	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 16:57	3.1	6.9	ppb v/v	J	20	10.
Freon 114	13-DEC-07 16:57	22.	49.	µg/m³	J	20	70.
Vinyl Chloride	13-DEC-07 16:57	6.0	11.	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 16:57	15.	29.	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 16:57	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 16:57	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 16:57	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 16:57	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 16:57	7.8	18.	ppb v/v		20	10.
Chloroethane	13-DEC-07 16:57	20.	48.	µg/m³		20	26.
Freon 11	13-DEC-07 16:57	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 16:57	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 16:57	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 16:57	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 16:57	2.2	3.5	ppb v/v	J	20	10.
Carbon Disulfide	13-DEC-07 16:57	7.0	11.	µg/m³	J	20	32.
Freon 113	13-DEC-07 16:57	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 16:57	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 16:57	2.3	160	ppb v/v		20	10.
Acetone	13-DEC-07 16:57	5.4	390	µg/m³		20	24.
Methylene Chloride	13-DEC-07 16:57	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 16:57	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 16:57	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 16:57	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 16:57	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 16:57	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 16:57	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 16:57	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 16:57	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 16:57	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 16:57	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 16:57	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 16:57	3.6	260	ppb v/v		20	10.
2-Butanone	13-DEC-07 16:57	11.	770	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 16:57	5.5	67.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 16:57	20.	240	µg/m³		20	36.
Hexane	13-DEC-07 16:57	2.4	290	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702V

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14489**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 16:57	8.6	1000	µg/m³		20	36.
Chloroform	13-DEC-07 16:57	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 16:57	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 16:57	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 16:57	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 16:57	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 16:57	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 16:57	2.0	180	ppb v/v		20	10.
Benzene	13-DEC-07 16:57	6.6	590	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 16:57	4.5	370	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 16:57	13.	1100	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 16:57	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 16:57	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 16:57	2.4	51.	ppb v/v		20	10.
Cyclohexane	13-DEC-07 16:57	8.2	170	µg/m³		20	34.
Trichloroethene	13-DEC-07 16:57	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 16:57	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 16:57	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 16:57	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 16:57	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 16:57	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 16:57	2.0	72.	ppb v/v		20	10.
Heptane	13-DEC-07 16:57	8.2	290	µg/m³		20	40.
cis-1,3-Dichloropropene	13-DEC-07 16:57	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 16:57	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 16:57	2.3	64.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 16:57	9.6	260	µg/m³		20	40.
Toluene	13-DEC-07 16:57	2.3	120	ppb v/v		20	10.
Toluene	13-DEC-07 16:57	8.6	470	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 16:57	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 16:57	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 16:57	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 16:57	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 16:57	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 16:57	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 16:57	2.7	ND	ppb v/v		20	10.
2-Hexanone	13-DEC-07 16:57	11.	ND	µg/m³		20	40.
Dibromochloromethane	13-DEC-07 16:57	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 16:57	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 16:57	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 16:57	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 16:57	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 16:57	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 16:57	3.0	110	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 16:57	13.	490	µg/m³		20	44.
m,p-Xylene	13-DEC-07 16:57	4.3	200	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 16:57	18.	850	µg/m³		20	86.
o-Xylene	13-DEC-07 16:57	2.3	72.	ppb v/v		20	10.
o-Xylene	13-DEC-07 16:57	9.8	310	µg/m³		20	44.
Styrene	13-DEC-07 16:57	1.5	8.7	ppb v/v	J	20	10.
Styrene	13-DEC-07 16:57	6.4	37.	µg/m³	J	20	42.
Bromoform	13-DEC-07 16:57	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 16:57	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 16:57	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 16:57	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 16:57	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 16:57	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 16:57	2.0	34.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702V

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14489**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 16:57	9.6	170	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 16:57	2.2	39.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 16:57	11.	190	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 16:57	2.3	110	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 16:57	12.	520	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 16:57	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 16:57	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 16:57	2.0	8.5	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 16:57	12.	51.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 16:57	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 16:57	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 16:57	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 16:57	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 16:57	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 16:57	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.26)	13-DEC-07 16:57	3800	ppb v/v	J	20
1-Propene, 2-methyl-(4.79)	13-DEC-07 16:57	1100	ppb v/v	J	20
Butane(4.89)	13-DEC-07 16:57	900	ppb v/v	J	20
1-Butene(4.98)	13-DEC-07 16:57	1200	ppb v/v	J	20
2-Butene(5.12)	13-DEC-07 16:57	390	ppb v/v	J	20
Ethanol(5.35)	13-DEC-07 16:57	1500	ppb v/v	J	20
Isopropyl Alcohol(6.00)	13-DEC-07 16:57	270	ppb v/v	J	20
Pentane(6.22)	13-DEC-07 16:57	420	ppb v/v	J	20
Pentane, 2-methyl-(7.64)	13-DEC-07 16:57	430	ppb v/v	J	20
1-Butanol(9.58)	13-DEC-07 16:57	1600	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 16:57	650	ppb v/v	J	20
CYCLOHEXANE, METHYL-(11.40)	13-DEC-07 16:57	330	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 16:57	310	ppb v/v	J	20
Hexanoic acid, methyl ester(15.23)	13-DEC-07 16:57	300	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702W

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP9_120707_|TO-15**
DCL Sample Name...: **07I14490**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 09:27
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 17:32	1.3	43.	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 17:32	6.6	210	µg/m³		20	50.
Chloromethane	13-DEC-07 17:32	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 17:32	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 17:32	3.1	4.2	ppb v/v	J	20	10.
Freon 114	13-DEC-07 17:32	22.	30.	µg/m³	J	20	70.
Vinyl Chloride	13-DEC-07 17:32	6.0	6.7	ppb v/v	J	20	10.
Vinyl Chloride	13-DEC-07 17:32	15.	17.	µg/m³	J	20	26.
1,3-Butadiene	13-DEC-07 17:32	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 17:32	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 17:32	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 17:32	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 17:32	7.8	23.	ppb v/v		20	10.
Chloroethane	13-DEC-07 17:32	20.	61.	µg/m³		20	26.
Freon 11	13-DEC-07 17:32	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 17:32	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 17:32	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 17:32	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 17:32	2.2	11.	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 17:32	7.0	33.	µg/m³		20	32.
Freon 113	13-DEC-07 17:32	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 17:32	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 17:32	2.3	110	ppb v/v		20	10.
Acetone	13-DEC-07 17:32	5.4	270	µg/m³		20	24.
Methylene Chloride	13-DEC-07 17:32	3.4	3.4	ppb v/v	J	20	10.
Methylene Chloride	13-DEC-07 17:32	12.	12.	µg/m³	J	20	34.
trans-1,2-Dichloroethene	13-DEC-07 17:32	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 17:32	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 17:32	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 17:32	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 17:32	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 17:32	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 17:32	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 17:32	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 17:32	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 17:32	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 17:32	3.6	200	ppb v/v		20	10.
2-Butanone	13-DEC-07 17:32	11.	580	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 17:32	5.5	46.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 17:32	20.	170	µg/m³		20	36.
Hexane	13-DEC-07 17:32	2.4	35.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702W

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: 07I14490
DCL Report Group..: 07I-2245-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 17:32	8.6	120	µg/m³		20	36.
Chloroform	13-DEC-07 17:32	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 17:32	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 17:32	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 17:32	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 17:32	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 17:32	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 17:32	2.0	530	ppb v/v	E	20	10.
Benzene	13-DEC-07 17:32	6.6	1700	µg/m³	E	20	32.
Tetrahydrofuran	13-DEC-07 17:32	4.5	250	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 17:32	13.	730	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 17:32	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 17:32	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 17:32	2.4	15.	ppb v/v		20	10.
Cyclohexane	13-DEC-07 17:32	8.2	52.	µg/m³		20	34.
Trichloroethene	13-DEC-07 17:32	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 17:32	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 17:32	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 17:32	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 17:32	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 17:32	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 17:32	2.0	19.	ppb v/v		20	10.
Heptane	13-DEC-07 17:32	8.2	78.	µg/m³		20	40.
cis-1,3-Dichloropropene	13-DEC-07 17:32	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 17:32	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 17:32	2.3	40.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 17:32	9.6	170	µg/m³		20	40.
Toluene	13-DEC-07 17:32	2.3	92.	ppb v/v		20	10.
Toluene	13-DEC-07 17:32	8.6	350	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 17:32	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 17:32	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 17:32	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 17:32	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 17:32	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 17:32	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 17:32	2.7	10.	ppb v/v		20	10.
2-Hexanone	13-DEC-07 17:32	11.	42.	µg/m³		20	40.
Dibromochloromethane	13-DEC-07 17:32	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 17:32	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 17:32	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 17:32	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 17:32	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 17:32	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 17:32	3.0	71.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 17:32	13.	310	µg/m³		20	44.
m,p-Xylene	13-DEC-07 17:32	4.3	120	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 17:32	18.	520	µg/m³		20	86.
o-Xylene	13-DEC-07 17:32	2.3	44.	ppb v/v		20	10.
o-Xylene	13-DEC-07 17:32	9.8	190	µg/m³		20	44.
Styrene	13-DEC-07 17:32	1.5	4.9	ppb v/v	J	20	10.
Styrene	13-DEC-07 17:32	6.4	21.	µg/m³	J	20	42.
Bromoform	13-DEC-07 17:32	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 17:32	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 17:32	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 17:32	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 17:32	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 17:32	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 17:32	2.0	19.	ppb v/v		20	10.

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SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702W

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14490**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 17:32	9.6	95.	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 17:32	2.2	24.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 17:32	11.	120	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 17:32	2.3	64.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 17:32	12.	320	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 17:32	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 17:32	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 17:32	2.0	5.4	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 17:32	12.	32.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 17:32	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 17:32	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 17:32	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 17:32	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 17:32	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 17:32	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Acetaldehyde(4.00)	13-DEC-07 17:32	3800	ppb v/v	J	20
Propene(4.25)	13-DEC-07 17:32	5200	ppb v/v	J	20
1-Propene, 2-methyl-(4.78)	13-DEC-07 17:32	1900	ppb v/v	J	20
Butane(4.88)	13-DEC-07 17:32	1600	ppb v/v	J	20
1-Butene(4.97)	13-DEC-07 17:32	930	ppb v/v	J	20
2-Butene(5.12)	13-DEC-07 17:32	650	ppb v/v	J	20
Ethanol(5.35)	13-DEC-07 17:32	1100	ppb v/v	J	20
Isopropyl Alcohol(5.99)	13-DEC-07 17:32	200	ppb v/v	J	20
Pentane, 2-methyl-(7.64)	13-DEC-07 17:32	210	ppb v/v	J	20
2-Butanol(8.11)	13-DEC-07 17:32	230	ppb v/v	J	20
1-Butanol(9.58)	13-DEC-07 17:32	980	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 17:32	490	ppb v/v	J	20
Acetic acid, butyl ester(12.98)	13-DEC-07 17:32	290	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 17:32	230	ppb v/v	J	20
Hexanoic acid, methyl ester(15.23)	13-DEC-07 17:32	220	ppb v/v	J	20

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

S07C702X

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP10_120707|_TO-15**
DCL Sample Name...: **07I14491**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 09:39
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 18:06	1.3	ND	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 18:06	6.6	ND	µg/m³		20	50.
Chloromethane	13-DEC-07 18:06	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 18:06	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 18:06	3.1	ND	ppb v/v		20	10.
Freon 114	13-DEC-07 18:06	22.	ND	µg/m³		20	70.
Vinyl Chloride	13-DEC-07 18:06	6.0	ND	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 18:06	15.	ND	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 18:06	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 18:06	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 18:06	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 18:06	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 18:06	7.8	ND	ppb v/v		20	10.
Chloroethane	13-DEC-07 18:06	20.	ND	µg/m³		20	26.
Freon 11	13-DEC-07 18:06	1.8	ND	ppb v/v		20	10.
Freon 11	13-DEC-07 18:06	10.	ND	µg/m³		20	56.
cis-1,2-Dichloroethene	13-DEC-07 18:06	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 18:06	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 18:06	2.2	ND	ppb v/v		20	10.
Carbon Disulfide	13-DEC-07 18:06	7.0	ND	µg/m³		20	32.
Freon 113	13-DEC-07 18:06	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 18:06	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 18:06	2.3	160	ppb v/v		20	10.
Acetone	13-DEC-07 18:06	5.4	380	µg/m³		20	24.
Methylene Chloride	13-DEC-07 18:06	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 18:06	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 18:06	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 18:06	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 18:06	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 18:06	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 18:06	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 18:06	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 18:06	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 18:06	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 18:06	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 18:06	3.6	130	ppb v/v		20	10.
2-Butanone	13-DEC-07 18:06	11.	390	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 18:06	5.5	29.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 18:06	20.	110	µg/m³		20	36.
Hexane	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702X

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14491**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 18:06	8.6	ND	µg/m³		20	36.
Chloroform	13-DEC-07 18:06	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 18:06	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 18:06	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 18:06	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 18:06	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 18:06	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 18:06	2.0	110	ppb v/v		20	10.
Benzene	13-DEC-07 18:06	6.6	360	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 18:06	4.5	150	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 18:06	13.	450	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 18:06	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 18:06	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.
Cyclohexane	13-DEC-07 18:06	8.2	ND	µg/m³		20	34.
Trichloroethene	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 18:06	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 18:06	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 18:06	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 18:06	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 18:06	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 18:06	2.0	3.5	ppb v/v	J	20	10.
Heptane	13-DEC-07 18:06	8.2	15.	µg/m³	J	20	40.
cis-1,3-Dichloropropene	13-DEC-07 18:06	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 18:06	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 18:06	2.3	35.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 18:06	9.6	140	µg/m³		20	40.
Toluene	13-DEC-07 18:06	2.3	72.	ppb v/v		20	10.
Toluene	13-DEC-07 18:06	8.6	270	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 18:06	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 18:06	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 18:06	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 18:06	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 18:06	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 18:06	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 18:06	2.7	8.9	ppb v/v	J	20	10.
2-Hexanone	13-DEC-07 18:06	11.	36.	µg/m³	J	20	40.
Dibromochloromethane	13-DEC-07 18:06	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 18:06	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 18:06	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 18:06	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 18:06	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 18:06	3.0	62.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 18:06	13.	270	µg/m³		20	44.
m,p-Xylene	13-DEC-07 18:06	4.3	110	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 18:06	18.	480	µg/m³		20	86.
o-Xylene	13-DEC-07 18:06	2.3	39.	ppb v/v		20	10.
o-Xylene	13-DEC-07 18:06	9.8	170	µg/m³		20	44.
Styrene	13-DEC-07 18:06	1.5	4.8	ppb v/v	J	20	10.
Styrene	13-DEC-07 18:06	6.4	20.	µg/m³	J	20	42.
Bromoform	13-DEC-07 18:06	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 18:06	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 18:06	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 18:06	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 18:06	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 18:06	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 18:06	2.0	17.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702X

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14491**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 18:06	9.6	82.	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 18:06	2.2	20.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 18:06	11.	98.	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 18:06	2.3	50.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 18:06	12.	240	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 18:06	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 18:06	2.0	3.7	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 18:06	12.	22.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 18:06	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 18:06	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 18:06	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 18:06	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 18:06	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 18:06	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Ethanol(5.36)	13-DEC-07 18:06	950	ppb v/v	J	20
Isopropyl Alcohol(6.00)	13-DEC-07 18:06	160	ppb v/v	J	20
2-Butanol(8.12)	13-DEC-07 18:06	210	ppb v/v	J	20
Propanoic acid, methyl ester(8.78)	13-DEC-07 18:06	120	ppb v/v	J	20
1-Butanol(9.57)	13-DEC-07 18:06	1200	ppb v/v	J	20
Butanoic acid, methyl ester(10.95)	13-DEC-07 18:06	400	ppb v/v	J	20
Butanoic acid, ethyl ester(12.72)	13-DEC-07 18:06	140	ppb v/v	J	20
Acetic acid, butyl ester(12.98)	13-DEC-07 18:06	160	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 18:06	200	ppb v/v	J	20
Cyclopentanone, 2-methyl-(13.51)	13-DEC-07 18:06	120	ppb v/v	J	20
Hexanoic acid, methyl ester(15.23)	13-DEC-07 18:06	190	ppb v/v	J	20
Cyclopentanone, 2-ethyl-(15.54)	13-DEC-07 18:06	130	ppb v/v	J	20
Benzene, 4-ethyl-1,2-dimethyl-(17.38)	13-DEC-07 18:06	170	ppb v/v	J	20

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702Y

Date Printed.....: 17-DEC-07 08:32

Client Name.....: American Analytical Laboratories,
Client Ref Number....: 20347
Sampling Site.....: 3619 Gracemont St SW
Release Number.....: 20347

Date Received.....: 08-DEC-07 00:00

Client Sample Name: **SGP11_120707|_TO-15**
DCL Sample Name...: **07I14492**
DCL Report Group..: **07I-2245-01**

Matrix.....: TEDLAR
Date Sampled.....: 07-DEC-07 09:49
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	13-DEC-07 18:41	1.3	23.	ppb v/v		20	10.
Dichlorodifluoromethane	13-DEC-07 18:41	6.6	110	µg/m³		20	50.
Chloromethane	13-DEC-07 18:41	5.0	ND	ppb v/v		20	10.
Chloromethane	13-DEC-07 18:41	10.	ND	µg/m³		20	20.
Freon 114	13-DEC-07 18:41	3.1	4.6	ppb v/v	J	20	10.
Freon 114	13-DEC-07 18:41	22.	32.	µg/m³	J	20	70.
Vinyl Chloride	13-DEC-07 18:41	6.0	39.	ppb v/v		20	10.
Vinyl Chloride	13-DEC-07 18:41	15.	100	µg/m³		20	26.
1,3-Butadiene	13-DEC-07 18:41	6.9	ND	ppb v/v		20	10.
1,3-Butadiene	13-DEC-07 18:41	15.	ND	µg/m³		20	22.
Bromomethane	13-DEC-07 18:41	4.3	ND	ppb v/v		20	10.
Bromomethane	13-DEC-07 18:41	17.	ND	µg/m³		20	38.
Chloroethane	13-DEC-07 18:41	7.8	67.	ppb v/v		20	10.
Chloroethane	13-DEC-07 18:41	20.	180	µg/m³		20	26.
Freon 11	13-DEC-07 18:41	1.8	8.3	ppb v/v	J	20	10.
Freon 11	13-DEC-07 18:41	10.	47.	µg/m³	J	20	56.
cis-1,2-Dichloroethene	13-DEC-07 18:41	2.0	ND	ppb v/v		20	10.
cis-1,2-Dichloroethene	13-DEC-07 18:41	8.0	ND	µg/m³		20	40.
Carbon Disulfide	13-DEC-07 18:41	2.2	6.7	ppb v/v	J	20	10.
Carbon Disulfide	13-DEC-07 18:41	7.0	21.	µg/m³	J	20	32.
Freon 113	13-DEC-07 18:41	1.9	ND	ppb v/v		20	10.
Freon 113	13-DEC-07 18:41	15.	ND	µg/m³		20	76.
Acetone	13-DEC-07 18:41	2.3	66.	ppb v/v		20	10.
Acetone	13-DEC-07 18:41	5.4	160	µg/m³		20	24.
Methylene Chloride	13-DEC-07 18:41	3.4	ND	ppb v/v		20	10.
Methylene Chloride	13-DEC-07 18:41	12.	ND	µg/m³		20	34.
trans-1,2-Dichloroethene	13-DEC-07 18:41	2.4	ND	ppb v/v		20	10.
trans-1,2-Dichloroethene	13-DEC-07 18:41	9.4	ND	µg/m³		20	40.
1,1-Dichloroethane	13-DEC-07 18:41	2.3	ND	ppb v/v		20	10.
1,1-Dichloroethane	13-DEC-07 18:41	9.4	ND	µg/m³		20	40.
Methyl t-Butyl Ether	13-DEC-07 18:41	2.9	ND	ppb v/v		20	10.
Methyl t-Butyl Ether	13-DEC-07 18:41	11.	ND	µg/m³		20	36.
Vinyl Acetate	13-DEC-07 18:41	2.7	ND	ppb v/v		20	10.
Vinyl Acetate	13-DEC-07 18:41	9.4	ND	µg/m³		20	36.
1,1-Dichloroethene	13-DEC-07 18:41	2.2	ND	ppb v/v		20	10.
1,1-Dichloroethene	13-DEC-07 18:41	8.6	ND	µg/m³		20	40.
2-Butanone	13-DEC-07 18:41	3.6	ND	ppb v/v		20	10.
2-Butanone	13-DEC-07 18:41	11.	ND	µg/m³		20	30.
Ethyl Acetate	13-DEC-07 18:41	5.5	15.	ppb v/v		20	10.
Ethyl Acetate	13-DEC-07 18:41	20.	53.	µg/m³		20	36.
Hexane	13-DEC-07 18:41	2.4	26.	ppb v/v		20	10.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702Y

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14492**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Hexane	13-DEC-07 18:41	8.6	93.	µg/m³		20	36.
Chloroform	13-DEC-07 18:41	2.3	ND	ppb v/v		20	10.
Chloroform	13-DEC-07 18:41	11.	ND	µg/m³		20	48.
1,1,1-Trichloroethane	13-DEC-07 18:41	1.5	ND	ppb v/v		20	10.
1,1,1-Trichloroethane	13-DEC-07 18:41	8.0	ND	µg/m³		20	54.
Carbon Tetrachloride	13-DEC-07 18:41	1.3	ND	ppb v/v		20	10.
Carbon Tetrachloride	13-DEC-07 18:41	8.2	ND	µg/m³		20	62.
Benzene	13-DEC-07 18:41	2.0	82.	ppb v/v		20	10.
Benzene	13-DEC-07 18:41	6.6	260	µg/m³		20	32.
Tetrahydrofuran	13-DEC-07 18:41	4.5	58.	ppb v/v		20	10.
Tetrahydrofuran	13-DEC-07 18:41	13.	170	µg/m³		20	30.
1,2-Dichloroethane	13-DEC-07 18:41	3.1	ND	ppb v/v		20	10.
1,2-Dichloroethane	13-DEC-07 18:41	12.	ND	µg/m³		20	40.
Cyclohexane	13-DEC-07 18:41	2.4	25.	ppb v/v		20	10.
Cyclohexane	13-DEC-07 18:41	8.2	87.	µg/m³		20	34.
Trichloroethene	13-DEC-07 18:41	2.4	ND	ppb v/v		20	10.
Trichloroethene	13-DEC-07 18:41	13.	ND	µg/m³		20	54.
1,2-Dichloropropane	13-DEC-07 18:41	2.5	ND	ppb v/v		20	10.
1,2-Dichloropropane	13-DEC-07 18:41	11.	ND	µg/m³		20	46.
Bromodichloromethane	13-DEC-07 18:41	1.6	ND	ppb v/v		20	10.
Bromodichloromethane	13-DEC-07 18:41	10.	ND	µg/m³		20	66.
Heptane	13-DEC-07 18:41	2.0	6.8	ppb v/v	J	20	10.
Heptane	13-DEC-07 18:41	8.2	28.	µg/m³	J	20	40.
cis-1,3-Dichloropropene	13-DEC-07 18:41	2.1	ND	ppb v/v		20	10.
cis-1,3-Dichloropropene	13-DEC-07 18:41	9.6	ND	µg/m³		20	46.
4-Methyl-2-Pentanone	13-DEC-07 18:41	2.3	34.	ppb v/v		20	10.
4-Methyl-2-Pentanone	13-DEC-07 18:41	9.6	140	µg/m³		20	40.
Toluene	13-DEC-07 18:41	2.3	47.	ppb v/v		20	10.
Toluene	13-DEC-07 18:41	8.6	180	µg/m³		20	38.
trans-1,3-Dichloropropene	13-DEC-07 18:41	2.6	ND	ppb v/v		20	10.
trans-1,3-Dichloropropene	13-DEC-07 18:41	12.	ND	µg/m³		20	46.
1,1,2-Trichloroethane	13-DEC-07 18:41	1.9	ND	ppb v/v		20	10.
1,1,2-Trichloroethane	13-DEC-07 18:41	11.	ND	µg/m³		20	54.
Tetrachloroethene	13-DEC-07 18:41	1.7	ND	ppb v/v		20	10.
Tetrachloroethene	13-DEC-07 18:41	11.	ND	µg/m³		20	68.
2-Hexanone	13-DEC-07 18:41	2.7	7.0	ppb v/v	J	20	10.
2-Hexanone	13-DEC-07 18:41	11.	29.	µg/m³	J	20	40.
Dibromochloromethane	13-DEC-07 18:41	1.6	ND	ppb v/v		20	10.
Dibromochloromethane	13-DEC-07 18:41	13.	ND	µg/m³		20	84.
1,2-Dibromoethane	13-DEC-07 18:41	2.4	ND	ppb v/v		20	10.
1,2-Dibromoethane	13-DEC-07 18:41	18.	ND	µg/m³		20	76.
Chlorobenzene	13-DEC-07 18:41	1.8	ND	ppb v/v		20	10.
Chlorobenzene	13-DEC-07 18:41	8.2	ND	µg/m³		20	46.
Ethylbenzene	13-DEC-07 18:41	3.0	39.	ppb v/v		20	10.
Ethylbenzene	13-DEC-07 18:41	13.	170	µg/m³		20	44.
m,p-Xylene	13-DEC-07 18:41	4.3	70.	ppb v/v		20	20.
m,p-Xylene	13-DEC-07 18:41	18.	310	µg/m³		20	86.
o-Xylene	13-DEC-07 18:41	2.3	26.	ppb v/v		20	10.
o-Xylene	13-DEC-07 18:41	9.8	110	µg/m³		20	44.
Styrene	13-DEC-07 18:41	1.5	3.3	ppb v/v	J	20	10.
Styrene	13-DEC-07 18:41	6.4	14.	µg/m³	J	20	42.
Bromoform	13-DEC-07 18:41	1.8	ND	ppb v/v		20	10.
Bromoform	13-DEC-07 18:41	18.	ND	µg/m³		20	100
1,1,2,2-Tetrachloroethane	13-DEC-07 18:41	2.2	ND	ppb v/v		20	10.
1,1,2,2-Tetrachloroethane	13-DEC-07 18:41	15.	ND	µg/m³		20	68.
Benzyl Chloride	13-DEC-07 18:41	2.7	ND	ppb v/v		20	10.
Benzyl Chloride	13-DEC-07 18:41	14.	ND	µg/m³		20	52.
4-Ethyl toluene	13-DEC-07 18:41	2.0	13.	ppb v/v		20	10.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S07C702Y

Date Printed.....: 17-DEC-07 08:32
Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **07I14492**
DCL Report Group..: **07I-2245-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
4-Ethyl toluene	13-DEC-07 18:41	9.6	63.	µg/m³		20	50.
1,3,5-Trimethylbenzene	13-DEC-07 18:41	2.2	16.	ppb v/v		20	10.
1,3,5-Trimethylbenzene	13-DEC-07 18:41	11.	81.	µg/m³		20	50.
1,2,4-Trimethylbenzene	13-DEC-07 18:41	2.3	45.	ppb v/v		20	10.
1,2,4-Trimethylbenzene	13-DEC-07 18:41	12.	220	µg/m³		20	50.
1,3-Dichlorobenzene	13-DEC-07 18:41	2.4	ND	ppb v/v		20	10.
1,3-Dichlorobenzene	13-DEC-07 18:41	14.	ND	µg/m³		20	60.
1,4-Dichlorobenzene	13-DEC-07 18:41	2.0	3.7	ppb v/v	J	20	10.
1,4-Dichlorobenzene	13-DEC-07 18:41	12.	22.	µg/m³	J	20	60.
1,2-Dichlorobenzene	13-DEC-07 18:41	1.7	ND	ppb v/v		20	10.
1,2-Dichlorobenzene	13-DEC-07 18:41	10.	ND	µg/m³		20	60.
1,2,4-Trichlorobenzene	13-DEC-07 18:41	2.3	ND	ppb v/v		20	10.
1,2,4-Trichlorobenzene	13-DEC-07 18:41	17.	ND	µg/m³		20	74.
Hexachlorobutadiene	13-DEC-07 18:41	2.4	ND	ppb v/v		20	10.
Hexachlorobutadiene	13-DEC-07 18:41	26.	ND	µg/m³		20	110

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propene(4.25)	13-DEC-07 18:41	3100	ppb v/v	J	20
1-Propene, 2-methyl-(4.79)	13-DEC-07 18:41	1300	ppb v/v	J	20
Butane(4.88)	13-DEC-07 18:41	700	ppb v/v	J	20
1-Butene(4.97)	13-DEC-07 18:41	940	ppb v/v	J	20
2-Butene(5.13)	13-DEC-07 18:41	450	ppb v/v	J	20
Ethanol(5.38)	13-DEC-07 18:41	450	ppb v/v	J	20
Butane, 2-methyl-(5.79)	13-DEC-07 18:41	470	ppb v/v	J	20
Isopropyl Alcohol(6.01)	13-DEC-07 18:41	110	ppb v/v	J	20
Pentane(6.21)	13-DEC-07 18:41	220	ppb v/v	J	20
1-Butanol(9.57)	13-DEC-07 18:41	710	ppb v/v	J	20
Butanoic acid, methyl ester(10.96)	13-DEC-07 18:41	210	ppb v/v	J	20
Pentanoic acid, methyl ester(13.22)	13-DEC-07 18:41	160	ppb v/v	J	20
Hexanoic acid, methyl ester(15.23)	13-DEC-07 18:41	160	ppb v/v	J	20
Benzene, 1-methyl-4-(1-methyle(17.37)	13-DEC-07 18:41	170	ppb v/v	J	20

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FAX (801) 268-9992
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DATA CHEM LABORATORIES
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FORM J (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)

S07CH00N

Client Name.....: American Analytical Laboratories,
Release Number.....: 20347

Matrix.....: AIR
Reporting Units.....: ppb v/v

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

DCL Sample Name...: **QC-261686-1**
Date Printed.....: 17-DEC-07 08:32

DCL Analysis Group: G07CH002
Analysis Method...: TO15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Dichlorodifluoromethane	13-DEC-07 11:27	10.0	9.56	95.6	70.0/130.	
Chloromethane	13-DEC-07 11:27	10.0	9.43	94.3	70.0/130.	
Freon 114	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
Vinyl Chloride	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
1,3-Butadiene	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
Bromomethane	13-DEC-07 11:27	10.0	10.6	106.	70.0/130.	
Chloroethane	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
Freon 11	13-DEC-07 11:27	10.0	9.91	99.1	70.0/130.	
cis-1,2-Dichloroethene	13-DEC-07 11:27	10.0	9.48	94.8	70.0/130.	
Carbon Disulfide	13-DEC-07 11:27	10.0	9.04	90.4	70.0/130.	
Freon 113	13-DEC-07 11:27	10.0	8.96	89.6	70.0/130.	
Acetone	13-DEC-07 11:27	10.0	2.56	25.6	70.0/130.	*
Methylene Chloride	13-DEC-07 11:27	10.0	10.4	104.	70.0/130.	
trans-1,2-Dichloroethene	13-DEC-07 11:27	10.0	9.27	92.7	70.0/130.	
1,1-Dichloroethane	13-DEC-07 11:27	10.0	9.14	91.4	70.0/130.	
Methyl t-Butyl Ether	13-DEC-07 11:27	10.0	9.26	92.6	70.0/130.	
Vinyl Acetate	13-DEC-07 11:27	10.0	9.65	96.5	70.0/130.	
1,1-Dichloroethene	13-DEC-07 11:27	10.0	9.03	90.3	70.0/130.	
2-Butanone	13-DEC-07 11:27	10.0	10.0	100.	70.0/130.	
Ethyl Acetate	13-DEC-07 11:27	10.0	9.78	97.8	70.0/130.	
Hexane	13-DEC-07 11:27	10.0	9.05	90.5	70.0/130.	
Chloroform	13-DEC-07 11:27	10.0	9.53	95.3	70.0/130.	
1,1,1-Trichloroethane	13-DEC-07 11:27	10.0	9.88	98.8	70.0/130.	
Carbon Tetrachloride	13-DEC-07 11:27	10.0	9.78	97.8	70.0/130.	
Benzene	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
Tetrahydrofuran	13-DEC-07 11:27	10.0	9.61	96.1	70.0/130.	
1,2-Dichloroethane	13-DEC-07 11:27	10.0	9.47	94.7	70.0/130.	
Cyclohexane	13-DEC-07 11:27	10.0	9.83	98.3	70.0/130.	
Trichloroethene	13-DEC-07 11:27	10.0	9.76	97.6	70.0/130.	
1,2-Dichloropropane	13-DEC-07 11:27	10.0	9.95	99.5	70.0/130.	
Bromodichloromethane	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
Heptane	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
cis-1,3-Dichloropropene	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
4-Methyl-2-Pentanone	13-DEC-07 11:27	10.0	10.3	103.	70.0/130.	
Toluene	13-DEC-07 11:27	10.0	10.5	105.	70.0/130.	
trans-1,3-Dichloropropene	13-DEC-07 11:27	10.0	10.2	102.	70.0/130.	
1,1,2-Trichloroethane	13-DEC-07 11:27	10.0	10.4	104.	70.0/130.	
Tetrachloroethene	13-DEC-07 11:27	10.0	10.4	104.	70.0/135.	
2-Hexanone	13-DEC-07 11:27	10.0	9.98	99.8	70.0/130.	
1,2-Dibromoethane	13-DEC-07 11:27	10.0	10.3	103.	70.0/130.	
Chlorobenzene	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	
Ethylbenzene	13-DEC-07 11:27	10.0	10.6	106.	70.0/130.	
m,p-Xylene	13-DEC-07 11:27	20.0	21.4	107.	70.0/130.	
o-Xylene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
Styrene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
Bromoform	13-DEC-07 11:27	10.0	10.3	103.	70.0/130.	
1,1,2,2-Tetrachloroethane	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	

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DATA CHEM LABORATORIES
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FORM J (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)

S07CH00N

DCL Sample Name...: **QC-261686-1**
Client Name.....: American Analytical Laboratories, Date Printed.....: 17-DEC-07 08:32

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Benzyl Chloride	13-DEC-07 11:27	10.0	10.5	105.	70.0/130.	
4-Ethyl toluene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
1,3,5-Trimethylbenzene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
1,2,4-Trimethylbenzene	13-DEC-07 11:27	10.0	10.7	107.	70.0/130.	
1,3-Dichlorobenzene	13-DEC-07 11:27	10.0	11.0	110.	70.0/130.	
1,4-Dichlorobenzene	13-DEC-07 11:27	10.0	10.8	108.	70.0/130.	
1,2-Dichlorobenzene	13-DEC-07 11:27	10.0	10.7	107.	70.0/130.	
1,2,4-Trichlorobenzene	13-DEC-07 11:27	10.0	11.2	112.	70.0/130.	
Hexachlorobutadiene	13-DEC-07 11:27	10.0	10.1	101.	70.0/130.	

S07CH00P

DCL Sample Name...: **QD-261686-1**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Dichlorodifluoromethane	13-DEC-07 12:07	8.97	89.7	9.27	0.588	6.3	0.00/25.0	
Chloromethane	13-DEC-07 12:07	8.48	84.8	8.95	0.951	11.	0.00/25.0	
Freon 114	13-DEC-07 12:07	8.85	88.5	9.46	1.21	13.	0.00/25.0	
Vinyl Chloride	13-DEC-07 12:07	8.80	88.0	9.47	1.34	14.	0.00/25.0	
1,3-Butadiene	13-DEC-07 12:07	8.85	88.5	9.55	1.40	15.	0.00/25.0	
Bromomethane	13-DEC-07 12:07	8.87	88.7	9.72	1.71	18.	0.00/25.0	
Chloroethane	13-DEC-07 12:07	8.80	88.0	9.50	1.40	15.	0.00/25.0	
Freon 11	13-DEC-07 12:07	9.12	91.2	9.51	0.791	8.3	0.00/25.0	
cis-1,2-Dichloroethene	13-DEC-07 12:07	9.23	92.3	9.36	0.248	2.7	0.00/25.0	
Carbon Disulfide	13-DEC-07 12:07	8.54	85.4	8.79	0.494	5.6	0.00/25.0	
Freon 113	13-DEC-07 12:07	8.70	87.0	8.83	0.258	2.9	0.00/25.0	
Acetone	13-DEC-07 12:07	10.1	101.	6.32	7.52	120	0.00/25.0	*
Methylene Chloride	13-DEC-07 12:07	9.98	99.8	10.2	0.432	4.2	0.00/25.0	
trans-1,2-Dichloroethene	13-DEC-07 12:07	9.06	90.6	9.17	0.210	2.3	0.00/25.0	
1,1-Dichloroethane	13-DEC-07 12:07	8.94	89.4	9.04	0.200	2.2	0.00/25.0	
Methyl t-Butyl Ether	13-DEC-07 12:07	9.44	94.4	9.35	0.182	1.9	0.00/25.0	
Vinyl Acetate	13-DEC-07 12:07	9.84	98.4	9.74	0.192	2.0	0.00/25.0	
1,1-Dichloroethene	13-DEC-07 12:07	8.70	87.0	8.86	0.337	3.8	0.00/25.0	
2-Butanone	13-DEC-07 12:07	10.1	101.	10.1	0.101	1.0	0.00/25.0	
Ethyl Acetate	13-DEC-07 12:07	10.3	103.	10.0	0.516	5.1	0.00/25.0	
Hexane	13-DEC-07 12:07	8.77	87.7	8.91	0.283	3.2	0.00/25.0	
Chloroform	13-DEC-07 12:07	9.35	93.5	9.44	0.178	1.9	0.00/25.0	
1,1,1-Trichloroethane	13-DEC-07 12:07	9.18	91.8	9.53	0.704	7.4	0.00/25.0	
Carbon Tetrachloride	13-DEC-07 12:07	9.09	90.9	9.44	0.682	7.2	0.00/25.0	
Benzene	13-DEC-07 12:07	9.57	95.7	9.91	0.676	6.8	0.00/25.0	
Tetrahydrofuran	13-DEC-07 12:07	9.96	99.6	9.79	0.350	3.6	0.00/25.0	
1,2-Dichloroethane	13-DEC-07 12:07	9.40	94.0	9.44	0.0690	0.73	0.00/25.0	
Cyclohexane	13-DEC-07 12:07	9.07	90.7	9.45	0.758	8.0	0.00/25.0	
Trichloroethene	13-DEC-07 12:07	8.91	89.1	9.33	0.852	9.1	0.00/25.0	
1,2-Dichloropropane	13-DEC-07 12:07	9.51	95.1	9.73	0.444	4.6	0.00/25.0	
Bromodichloromethane	13-DEC-07 12:07	9.62	96.2	9.87	0.502	5.1	0.00/25.0	
Heptane	13-DEC-07 12:07	9.48	94.8	9.79	0.611	6.2	0.00/25.0	
cis-1,3-Dichloropropene	13-DEC-07 12:07	9.73	97.3	9.93	0.387	3.9	0.00/25.0	
4-Methyl-2-Pentanone	13-DEC-07 12:07	9.72	97.2	10.0	0.605	6.0	0.00/25.0	
Toluene	13-DEC-07 12:07	10.2	102.	10.4	0.327	3.2	0.00/25.0	
trans-1,3-Dichloropropene	13-DEC-07 12:07	10.0	100.	10.1	0.232	2.3	0.00/25.0	
1,1,2-Trichloroethane	13-DEC-07 12:07	10.1	101.	10.3	0.321	3.1	0.00/25.0	

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FORM J (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)

S07CH00P

Client Name.....: American Analytical Laboratories,

DCL Sample Name...: QD-261686-1
Date Printed.....: 17-DEC-07 08:32

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Tetrachloroethene	13-DEC-07 12:07	9.69	96.9	10.1	0.727	7.2	0.00/25.0	
2-Hexanone	13-DEC-07 12:07	9.32	93.2	9.65	0.661	6.8	0.00/25.0	
1,2-Dibromoethane	13-DEC-07 12:07	9.78	97.8	10.1	0.539	5.4	0.00/25.0	
Chlorobenzene	13-DEC-07 12:07	9.65	96.5	9.89	0.480	4.9	0.00/25.0	
Ethylbenzene	13-DEC-07 12:07	10.5	105.	10.5	0.117	1.1	0.00/25.0	
m,p-Xylene	13-DEC-07 12:07	21.4	107.	21.4	0.0780	0.36	0.00/25.0	
o-Xylene	13-DEC-07 12:07	10.8	108.	10.8	0.0720	0.67	0.00/25.0	
Styrene	13-DEC-07 12:07	10.5	105.	10.7	0.220	2.1	0.00/25.0	
Bromoform	13-DEC-07 12:07	10.2	102.	10.2	0.0950	0.93	0.00/25.0	
1,1,2,2-Tetrachloroethane	13-DEC-07 12:07	10.7	107.	10.8	0.141	1.3	0.00/25.0	
Benzyl Chloride	13-DEC-07 12:07	10.8	108.	10.6	0.241	2.3	0.00/25.0	
4-Ethyl toluene	13-DEC-07 12:07	11.0	110.	10.9	0.159	1.5	0.00/25.0	
1,3,5-Trimethylbenzene	13-DEC-07 12:07	10.6	106.	10.7	0.166	1.5	0.00/25.0	
1,2,4-Trimethylbenzene	13-DEC-07 12:07	11.1	111.	10.9	0.336	3.1	0.00/25.0	
1,3-Dichlorobenzene	13-DEC-07 12:07	10.6	106.	10.8	0.327	3.0	0.00/25.0	
1,4-Dichlorobenzene	13-DEC-07 12:07	10.5	105.	10.6	0.280	2.6	0.00/25.0	
1,2-Dichlorobenzene	13-DEC-07 12:07	10.8	108.	10.8	0.0610	0.57	0.00/25.0	
1,2,4-Trichlorobenzene	13-DEC-07 12:07	12.0	120.	11.6	0.768	6.6	0.00/25.0	
Hexachlorobutadiene	13-DEC-07 12:07	10.6	106.	10.4	0.471	4.5	0.00/25.0	

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DATA CHEM LABORATORIES
A Sorenson Company

FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S07CH00M

Client Name.....: American Analytical Laboratories,
Release Number.....: 20347

Matrix.....: TEDLAR
Reporting Units.....: ppb v/v

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

DCL Sample Name...: **BL-261686-1**
Date Printed.....: 17-DEC-07 08:32

DCL Analysis Group: G07CH002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
☒ Primary
☐ Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Dichlorodifluoromethane	13-DEC-07 12:47	ND	0.0669	0.5
Chloromethane	13-DEC-07 12:47	ND	0.249	0.5
Freon 114	13-DEC-07 12:47	ND	0.156	0.5
Vinyl Chloride	13-DEC-07 12:47	ND	0.301	0.5
1,3-Butadiene	13-DEC-07 12:47	ND	0.346	0.5
Bromomethane	13-DEC-07 12:47	ND	0.215	0.5
Chloroethane	13-DEC-07 12:47	ND	0.388	0.5
Freon 11	13-DEC-07 12:47	ND	0.0921	0.5
cis-1,2-Dichloroethene	13-DEC-07 12:47	ND	0.102	0.5
Carbon Disulfide	13-DEC-07 12:47	ND	0.111	0.5
Freon 113	13-DEC-07 12:47	ND	0.0950	0.5
Acetone	13-DEC-07 12:47	ND	0.113	0.5
Methylene Chloride	13-DEC-07 12:47	ND	0.168	0.5
trans-1,2-Dichloroethene	13-DEC-07 12:47	ND	0.118	0.5
1,1-Dichloroethane	13-DEC-07 12:47	ND	0.116	0.5
Methyl t-Butyl Ether	13-DEC-07 12:47	ND	0.147	0.5
Vinyl Acetate	13-DEC-07 12:47	ND	0.133	0.5
1,1-Dichloroethene	13-DEC-07 12:47	ND	0.109	0.5
2-Butanone	13-DEC-07 12:47	ND	0.182	0.5
Ethyl Acetate	13-DEC-07 12:47	ND	0.273	0.5
Hexane	13-DEC-07 12:47	ND	0.121	0.5
Chloroform	13-DEC-07 12:47	ND	0.115	0.5
1,1,1-Trichloroethane	13-DEC-07 12:47	ND	0.0725	0.5
Carbon Tetrachloride	13-DEC-07 12:47	ND	0.0657	0.5
Benzene	13-DEC-07 12:47	ND	0.102	0.5
Tetrahydrofuran	13-DEC-07 12:47	ND	0.227	0.5
1,2-Dichloroethane	13-DEC-07 12:47	ND	0.153	0.5
Cyclohexane	13-DEC-07 12:47	ND	0.120	0.5
Trichloroethene	13-DEC-07 12:47	ND	0.120	0.5
1,2-Dichloropropane	13-DEC-07 12:47	ND	0.123	0.5
Bromodichloromethane	13-DEC-07 12:47	ND	0.0779	0.5
Heptane	13-DEC-07 12:47	ND	0.101	0.5
cis-1,3-Dichloropropene	13-DEC-07 12:47	ND	0.106	0.5
4-Methyl-2-Pentanone	13-DEC-07 12:47	ND	0.116	0.5
Toluene	13-DEC-07 12:47	ND	0.115	0.5
trans-1,3-Dichloropropene	13-DEC-07 12:47	ND	0.130	0.5
1,1,2-Trichloroethane	13-DEC-07 12:47	ND	0.0972	0.5
Tetrachloroethene	13-DEC-07 12:47	ND	0.0847	0.5
2-Hexanone	13-DEC-07 12:47	ND	0.136	0.5
Dibromochloromethane	13-DEC-07 12:47	ND	0.0792	0.5
1,2-Dibromoethane	13-DEC-07 12:47	ND	0.119	0.5
Chlorobenzene	13-DEC-07 12:47	ND	0.0882	0.5
Ethylbenzene	13-DEC-07 12:47	ND	0.150	0.5
m,p-Xylene	13-DEC-07 12:47	ND	0.213	1.0
o-Xylene	13-DEC-07 12:47	ND	0.113	0.5
Styrene	13-DEC-07 12:47	ND	0.0748	0.5
Bromoform	13-DEC-07 12:47	ND	0.0884	0.5

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FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
A Sorenson Company

FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S07CH00M

Client Name.....: American Analytical Laboratories,

DCL Sample Name...: **BL-261686-1**
Date Printed.....: 17-DEC-07 08:32

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
1,1,2,2-Tetrachloroethane	13-DEC-07 12:47	ND	0.108	0.5
Benzyl Chloride	13-DEC-07 12:47	ND	0.136	0.5
4-Ethyl toluene	13-DEC-07 12:47	ND	0.0983	0.5
1,3,5-Trimethylbenzene	13-DEC-07 12:47	ND	0.112	0.5
1,2,4-Trimethylbenzene	13-DEC-07 12:47	ND	0.117	0.5
1,3-Dichlorobenzene	13-DEC-07 12:47	ND	0.120	0.5
1,4-Dichlorobenzene	13-DEC-07 12:47	ND	0.0987	0.5
1,2-Dichlorobenzene	13-DEC-07 12:47	ND	0.0851	0.5
1,2,4-Trichlorobenzene	13-DEC-07 12:47	ND	0.115	0.5
Hexachlorobutadiene	13-DEC-07 12:47	ND	0.119	0.5

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FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
A Sorenson Company

FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

G07CH002

Client Name.....: American Analytical Laboratories,
Release Number.....: 20347

Matrix.....: AIR
Reporting Units.....: ppb v/v

Date Printed.....: 17-DEC-07 08:32

DCL Analysis Group: G07CH002
Analysis Method...: TO15

DCL Prep Group....: Not Applicable
Preparation Method: Not Applicable

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	4-Bromofluorobenzene											
QC Limits	65.0/135.											
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
07I14484	17.5	20.0	87.5									
07I14485	17.9	20.0	89.7									
07I14486	17.7	20.0	88.5									
07I14487	17.0	20.0	84.9									
07I14488	18.5	20.0	92.4									
07I14489	18.5	20.0	92.6									
07I14490	18.8	20.0	93.9									
07I14491	18.3	20.0	91.6									
07I14492	18.0	20.0	90.0									
BL-261686-1	19.2	20.0	96.0									
QC-261686-1	19.9	20.0	99.7									
QD-261686-1	20.2	20.0	101.									

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Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

American Analytical Laboratories, Inc.
☒ 840 S. Main St. • Akron, OH 44311-1516
Tel: 330-535-1300 • Fax: 330-535-7246
☐ 5777 Franz Rd. • Dublin, OH 43017
Tel: 614-791-1136 • Fax: 614-791-1287
email: AAL@AAL-INC.COM

MI-224521

Laboratory Analysis Authorization and Chain of Custody

PAGE ____ OF ____ AAL WO No.: 0712024

Company Name: American Analytical lAB
Company Address: 840 S. MAIN ST, AKron, OH 44311
Project Name: Republic WASTE Services of OH II LLC DBA COUNTYWIDE RDF.
Project Address: 3619 GRACEMONT ST. SW EAST Sparta OH 44626
Phone ( )
FAX ( )
AAL Proposal No.
Client Project No. or I.D.
Sampled By (Signature): MBurt
Report To:
Client P.O. No.: 20347

Analytes or Parameters: TO-15
Preservative Bottle Type: TEDLAR

Date Sampled	Time Sampled	Sample Matrix	Comp	Grab	Sample Description	No. of Containers	Preservative Bottle Type								Lab Sample No.
12/07/07	814	LFG		X	SGP1_120707_TO-15	1	X						07I14484		MI14484
	823			X	SGP3_120707_TO-15	1	X							85	80
	831			X	SGP4_120707_TO-15	1	X							86	81
	840			X	SGP5_120707_TO-15	1	X							87	82
	850			X	SGP7_120707_TO-15	1	X							88	83
	918			X	SGP8_120707_TO-15	1	X							89	84
	927			X	SGP9_120707_TO-15	1	X							90	85
	939			X	SGP10_120707_TO-15	1	X							91	86
	949			X	SGP11_120707_TO-15	1	X							92	87

CHAIN OF CUSTODY

Relinquished By	Date	Time	Received By
MBurt	12/07/07	1124	M Merritt
	7Dec07	1000	[illegible]

Turn-Around
Normal ✓
Rush ____ Days
Rush work requires prior approval of laboratory.
Surcharges apply to all rush work. Surcharge rate depends on type of work performed.

Fax Results? ____
Project Type: NPDES ____ UST ____ VAP ____ DW ____ OTHER ____
PWSID # ____
Special Instructions: NOV. FSO ORDER #9

Logged in by: ____ Time: ____ Date ____
Authorized by: Michael Burt (Client Signature Must Accompany Request) Time: 1026 Date 12/07/07

Visit our web site at http://www.aal-inc.com

76315

WORK ORDER

Printed: 12/11/2007 9:51:17AM

0712024

American Analytical Laboratories, Inc. - Akron

Client: Republic Services of Ohio II, LLC dba Countywid
Project: NOV F&O Order #9
Project Manager: Mike Moretti
Project Number: NOV F&O Order #9

Report To:
Republic Services of Ohio II, LLC dba Countywide
Michael R.Beaudoin, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone: (330) 847-3855
Fax: (330) 874-2426

Invoice To:
Republic Services of Ohio II, LLC dba Countywide
Todd K. Hamilton, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone :(330) 847-3855
Fax: (330) 874-2426

Date Due: 21-Dec-07 00:00 (10 day TAT)
Received By: Mike Moretti
Date Received: 07-Dec-07 11:24
Logged In By: Linda Cutting
Date Logged In: 11-Dec-07 09:50

Samples Received at:

Custody Seals	No	Received On Ice	No	Suff. Samp Vol.	Yes
Containers Intact	Yes	COC Present	Yes	Samp w/in Hold	Yes
COC/Labels Agree	Yes	COC Signed	Yes	Samp Temp w/in C	Yes
Preserve Confirmec	No	Samp/Prop. Cont.	Yes		

Analysis	Due	TAT	Expires	Comments
DataChem Laboratories, Inc.				
0712024-01 SGP1_120707_TO-15 [Air] Sampled 07-Dec-07 08:14 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 08:14	
0712024-02 SGP3_120707_TO-15 [Air] Sampled 07-Dec-07 08:23 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 08:23	
0712024-03 SGP4_120707_TO-15 [Air] Sampled 07-Dec-07 08:31 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 08:31	
0712024-04 SGP5_120707_TO-15 [Air] Sampled 07-Dec-07 08:40 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 08:40	
0712024-05 SGP7_120707_TO-15 [Air] Sampled 07-Dec-07 08:50 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 08:50	
0712024-06 SGP8_120707_TO-15 [Air] Sampled 07-Dec-07 09:18 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 09:18	
0712024-07 SGP9_120707_TO-15 [Air] Sampled 07-Dec-07 09:27 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 09:27	
0712024-08 SGP10_120707_TO-15 [Air] Sampled 07-Dec-07 09:39 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 09:39	

WORK ORDER

Printed: 12/11/2007 9:51:17AM

0712024

American Analytical Laboratories, Inc. - Akron

Client:	Republic Services of Ohio II, LLC dba Countywid	Project Manager:	Mike Moretti
Project:	NOV F&O Order #9	Project Number:	NOV F&O Order #9

Analysis	Due	TAT	Expires	Comments
DataChem Laboratories, Inc.				
0712024-09 SGP11_120707_TO-15 [Air] Sampled 07-Dec-07 09:49 Eastern				**LFG Extraction Sample**
ATO-15DCLX	21-Dec-07 00:00	10	04-Jan-08 09:49	

Reviewed By

Date

Soil Gas Probes
ASTM D-1946
Nov. F&O, order #9

Work Order Completion Status

AAL Work Order No. 0712028

Analysis	Lab	Date Final HC Report in WO File	Validated
ASTM D-1946	Envirotage	12/21/07	12/21/07
		/	/
		/	/
		/	/

Hard Copy Distribution	AAL WO File	AAL Binder	On Site Binder	Other

EIM Data Status	COC Entered	Lab Data Uploaded	Lab Data EIM Validated

Soil Gas Probes
ASTM D-1946

Data Validation (basic)

WO # 0712028 F&O # NOV F&O order #9

Date Sampled 12/8/07 Date Analyzed 12/10/07

Date Reported 12/20/07 Date Validated 12/21/07 By MMnell

Date Hard Copy Sent to Client _____

Manual Validation

		Y/N	Resolution
COC	1) F&O Listed	Y	
	2) Field Names Correct	Y	
	3) PO# on COC	Y	
Analysis	1) All Requested Analysis Reported	Y	
	2) Results w/i Expected Range	Y	
	3) QC Acceptable	Y	
	4) Sampling and Analytical Plan Specs. Met	N	1
	5) Validation Date Entered	Y	
EIM Validation	1) COC entered into Locus		
	2) Lab Data Uploaded		
	3 Locus System Validation		

Resolutions (1) Samples received at lab out of hold.

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name: American Analytical Labs
840 S. Main Street
Akron, OH 44311

Product: Landfill Gas
Sample ID SGP2_120807_D-1946
Project Name Countywide

Date Sampled 8-Dec-07
Date Analyzed: 10-Dec-07

*** Samples were delivered to la

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	0.8	Mol%	0.1
Methane	ASTM D1946	BDL	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	BDL	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/18/2007

AAL WO No. **712028** **ASTM D-1946 "CO Only"**
712028 **ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name: American Analytical Labs
840 S. Main Street
Akron, OH 44311

Product: Landfill Gas
Sample ID SGP6_120807_D-1946
Project Name Countywide

Date Sampled 8-Dec-07
Date Analyzed: 10-Dec-07

*** Samples were delivered to la

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	3.6	Mol%	0.1
Carbon Dioxide	ASTM D1946	5.1	Mol%	0.1
Methane	ASTM D1946	0.3	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	147	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/18/2007

AAL WO No. **712028** **ASTM D-1946 "CO Only"**
712028 **ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name: American Analytical Labs
840 S. Main Street
Akron, OH 44311

Product: Landfill Gas
Sample ID QAQC_120807_D-1946
Project Name Countywide

Date Sampled 8-Dec-07
Date Analyzed: 10-Dec-07

*** Samples were delivered to la

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	0.1	Mol%	0.1
Carbon Dioxide	ASTM D1946	0.1	Mol%	0.1
Methane	ASTM D1946	0.1	Mol%	0.1
Low Level Acetylene	GC-TCD	1010	ppmv	10
Low Level CO	GC-TCD	926	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/18/2007

AAL WO No. **712028** **ASTM D-1946 "CO Only"**
712028 **ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

WORK ORDER

Printed: 12/11/2007 10:18:00AM

0712028

American Analytical Laboratories, Inc. - Akron

Client: Republic Services of Ohio II, LLC dba Countywid
Project: NOV F&O Order #9

Project Manager: Mike Moretti
Project Number: NOV F&O Order #9

Report To:
Republic Services of Ohio II, LLC dba Countywide
Michael R.Beaudoin, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone: (330) 847-3855
Fax: (330) 874-2426

Invoice To:
Republic Services of Ohio II, LLC dba Countywide
Todd K. Hamilton, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone :(330) 847-3855
Fax: (330) 874-2426

Date Due: 24-Dec-07 00:00 (10 day TAT)
Received By: Mike Moretti
Logged In By: Linda Cutting
Date Received: 10-Dec-07 14:10
Date Logged In: 11-Dec-07 10:20

Samples Received at:

Custody Seals	No	Received On Ice	No	Suff. Samp Vol.	Yes
Containers Intact	Yes	COC Present	Yes	Samp w/in Hold	Yes
COC/Labels Agree	Yes	COC Signed	Yes	Samp Temp w/in C	Yes
Preserve Confirmec	No	Samp/Prop. Cont.	Yes		

Analysis	Due	TAT	Expires	Comments
Envantage Incorporated				
0712028-01 SGP2_120807_D-1946 [Air] Sampled 08-Dec-07 11:31 Eastern				**LFG Extraction Sample**
ALOWCOX	24-Dec-07 00:00	10	15-Dec-07 11:31	
AGCCARDIOXX	24-Dec-07 00:00	10	10-Dec-07 11:31	
AGCACETYX	24-Dec-07 00:00	10	10-Dec-07 11:31	
AD1946ENVX	24-Dec-07 00:00	10	10-Dec-07 11:31	
0712028-02 SGP6_120807_D-1946 [Air] Sampled 08-Dec-07 11:45 Eastern				**LFG Extraction Sample**
ALOWCOX	24-Dec-07 00:00	10	15-Dec-07 11:45	
AGCCARDIOXX	24-Dec-07 00:00	10	10-Dec-07 11:45	
AGCACETYX	24-Dec-07 00:00	10	10-Dec-07 11:45	
AD1946ENVX	24-Dec-07 00:00	10	10-Dec-07 11:45	

Reviewed By

Date

Soil for Probes
NOV. F&O order #9
ASTM D-1946

Work Order Completion Status

AAL Work Order No. 0712025

Analysis	Lab	Date Final HC Report in WO File	Validated
ASTM D-1946	ENVantage	12/21/07	12/21/07
		/	/
		/	/
		/	/

Hard Copy Distribution	AAL WO File	AAL Binder	On Site Binder	Other

EIM Data Status	COC Entered	Lab Data Uploaded	Lab Data EIM Validated

Soil Gas Probes
F&O, order #9

Data Validation (basic)

WO # 0712025 F&O # NOV F&O order 9

Date Sampled 12/7/07 Date Analyzed 12/7/07

Date Reported 12/20/07 Date Validated 12/21/07 By MMuelt

Date Hard Copy Sent to Client _____

Manual Validation

		Y/N	Resolution
COC	1) F&O Listed	Y	
	2) Field Names Correct	Y	
	3) PO# on COC	Y	
Analysis	1) All Requested Analysis Reported	Y	
	2) Results w/i Expected Range	Y	
	3) QC Acceptable	Y	
	4) Sampling and Analytical Plan Specs. Met	Y	
	5) Validation Date Entered	Y	
EIM Validation	1) COC entered into Locus		
	2) Lab Data Uploaded		
	3 Locus System Validation		

Resolutions _____

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	SGP1_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	7.2	Mol%	0.1
Methane	ASTM D1946	4.6	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	BDL	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name: American Analytical Labs
840 S. Main Street
Akron, OH 44311

Product: Landfill Gas
Sample ID SGP3_120707_D-1946
Project Name Countywide

Date Sampled 7-Dec-07
Date Analyzed: 7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	26.4	Mol%	0.1
Methane	ASTM D1946	10.4	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	36	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No. **712025** **ASTM D-1946 "CO Only"**
712025 **ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	SGP4_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	29.1	Mol%	0.1
Methane	ASTM D1946	1.2	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	32	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name: American Analytical Labs
840 S. Main Street
Akron, OH 44311

Product: Landfill Gas
Sample ID SGP5_120707_D-1946
Project Name Countywide

Date Sampled 7-Dec-07
Date Analyzed: 7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	35.2	Mol%	0.1
Methane	ASTM D1946	1.2	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	11	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No. **712025** **ASTM D-1946 "CO Only"**
712025 **ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	SGP7_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	9.4	Mol%	0.1
Methane	ASTM D1946	1.2	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	BDL	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	SGP8_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	14.6	Mol%	0.1
Methane	ASTM D1946	5.9	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	BDL	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	SGP9_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	3.3	Mol%	0.1
Carbon Dioxide	ASTM D1946	4.6	Mol%	0.1
Methane	ASTM D1946	12.2	Mol%	0.1
Low Level Acetylene	GC-TCD	15	ppmv	10
Low Level CO	GC-TCD	146	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	SGP10_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	BDL	Mol%	0.1
Methane	ASTM D1946	BDL	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	BDL	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name: American Analytical Labs
840 S. Main Street
Akron, OH 44311

Product: Landfill Gas
Sample ID SGP11_120707_D-1946
Project Name Countywide

Date Sampled 7-Dec-07
Date Analyzed: 7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	BDL	Mol%	0.1
Carbon Dioxide	ASTM D1946	17.6	Mol%	0.1
Methane	ASTM D1946	10.4	Mol%	0.1
Low Level Acetylene	GC-TCD	BDL	ppmv	10
Low Level CO	GC-TCD	31	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No. **712025** **ASTM D-1946 "CO Only"**
712025 **ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

ENVANTAGE
INCORPORATED

Gas Analysis Results

Customer Name:	American Analytical Labs 840 S. Main Street Akron, OH 44311
Product:	Landfill Gas
Sample ID	QAQC_120707_D-1946
Project Name	Countywide
Date Sampled	7-Dec-07
Date Analyzed:	7-Dec-07

Test Description	Method	Result	Units	Detection Limit
Hydrogen	ASTM D1946	0.1	Mol%	0.1
Carbon Dioxide	ASTM D1946	0.1	Mol%	0.1
Methane	ASTM D1946	0.1	Mol%	0.1
Low Level Acetylene	GC-TCD	1003	ppmv	10
Low Level CO	GC-TCD	896	ppmv	10

Notes:

Signed: David J. Balazs

Date: 12/16/2007

AAL WO No.	**712025**	**ASTM D-1946 "CO Only"**
	712025	**ASTM D-1946 plus CO2**

15585 NEO Parkway, Cleveland, OH 44128
Phone: (216) 475-9396, (216) 475-5919 • Fax: (216) 475-9954

WORK ORDER

Printed: 12/11/2007 10:12:08AM

0712025

American Analytical Laboratories, Inc. - Akron

Client: Republic Services of Ohio II, LLC dba Countywid
Project: NOV F&O Order #9

Project Manager: Mike Moretti
Project Number: NOV F&O Order #9

Report To:
Republic Services of Ohio II, LLC dba Countywide
Michael R.Beaudoin, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone: (330) 847-3855
Fax: (330) 874-2426

Invoice To:
Republic Services of Ohio II, LLC dba Countywide
Todd K. Hamilton, PE
3619 Gracemont Street NW
East Sparta, OH 44626
Phone :(330) 847-3855
Fax: (330) 874-2426

Date Due: 21-Dec-07 00:00 (10 day TAT)
Received By: Mike Moretti
Logged In By: Linda Cutting

Date Received: 07-Dec-07 11:24
Date Logged In: 11-Dec-07 10:00

Samples Received at:

Custody Seals	No	Received On Ice	No	Suff. Samp Vol.	Yes
Containers Intact	Yes	COC Present	Yes	Samp w/in Hold	Yes
COC/Labels Agree	Yes	COC Signed	Yes	Samp Temp w/in C	Yes
Preserve Confirmec	No	Samp/Prop. Cont.	Yes		

Analysis	Due	TAT	Expires	Comments
Envantage Incorporated				
0712025-01 SGP1_120707_D-1946 [Air] Sampled 07-Dec-07 08:18 Eastern				**LFG Extraction Sample**
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 08:18	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 08:18	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 08:18	
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 08:18	
0712025-02 SGP3_120707_D-1946 [Air] Sampled 07-Dec-07 08:28 Eastern				**LFG Extraction Sample**
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 08:28	
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 08:28	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 08:28	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 08:28	
0712025-03 SGP4_120707_D-1946 [Air] Sampled 07-Dec-07 08:36 Eastern				**LFG Extraction Sample**
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 08:36	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 08:36	
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 08:36	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 08:36	
0712025-04 SGP5_120707_D-1946 [Air] Sampled 07-Dec-07 08:45 Eastern				**LFG Extraction Sample**
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 08:45	
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 08:45	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 08:45	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 08:45	

WORK ORDER

Printed: 12/11/2007 10:12:08AM

0712025

American Analytical Laboratories, Inc. - Akron

Client: Republic Services of Ohio II, LLC dba Countywid
Project: NOV F&O Order #9

Project Manager: Mike Moretti
Project Number: NOV F&O Order #9

Analysis	Due	TAT	Expires	Comments
Envantage Incorporated				
0712025-05 SGP7_120707_D-1946 [Air] Sampled 07-Dec-07 08:55 Eastern				**LFG Extraction Sample**
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 08:55	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 08:55	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 08:55	
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 08:55	
0712025-06 SGP8_120707_D-1946 [Air] Sampled 07-Dec-07 09:24 Eastern				**LFG Extraction Sample**
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 09:24	
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 09:24	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 09:24	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 09:24	
0712025-07 SGP9_120707_D-1946 [Air] Sampled 07-Dec-07 09:32 Eastern				**LFG Extraction Sample**
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 09:32	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 09:32	
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 09:32	
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 09:32	
0712025-08 SGP10_120707_D-1946 [Air] Sampled 07-Dec-07 09:44 Eastern				**LFG Extraction Sample**
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 09:44	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 09:44	
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 09:44	
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 09:44	
0712025-09 SGP11_120707_D-1946 [Air] Sampled 07-Dec-07 09:54 Eastern				**LFG Extraction Sample**
ALOWCOX	21-Dec-07 00:00	10	14-Dec-07 09:54	
AD1946ENVX	21-Dec-07 00:00	10	09-Dec-07 09:54	
AGCACETYX	21-Dec-07 00:00	10	09-Dec-07 09:54	
AGCCARDIOXX	21-Dec-07 00:00	10	09-Dec-07 09:54	

Reviewed By

Date

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

840 S. Main Street • Akron, Ohio 44311-1516
Phone (330) 535-1300 • Fax (330) 535-7246
e-mail: aal@aal-inc.com • www.aal-inc.com

Michael R.Beaudoin, PE
Republic Services of Ohio II, LLC dba Countywide
3619 Gracemont Street NW
East Sparta, OH 44626

03-Jan-08 14:23

Work Order: 0801007

RE: Soil Gas Probe Ammonia

American Analytical Laboratories, Inc received a sample(s) on 28-Dec-07 13:24 for the analyses presented in the following report.

Please take time to carefully review this report and call us if you have any questions concerning this report. Delays in your response may make it more difficult for us to answer your questions.

We thank you for using our services.

Sincerely,

American Analytical Laboratories, Inc.

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project:	Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number:	Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager:	Michael R.Beaudoin, PE	03-Jan-08 14:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGP1_120707_D-1946	0801007-01	Air	07-Dec-07 08:18	28-Dec-07 13:24
SGP2_120807_D-1946	0801007-02	Air	08-Dec-07 11:31	28-Dec-07 13:24
SGP3_120707_D-1946	0801007-03	Air	07-Dec-07 08:28	28-Dec-07 13:24
SGP4_120707_D-1946	0801007-04	Air	07-Dec-07 08:36	28-Dec-07 13:24
SGP5_120707_D-1946	0801007-05	Air	07-Dec-07 08:45	28-Dec-07 13:24
SGP6_120807_D-1946	0801007-06	Air	08-Dec-07 11:45	28-Dec-07 13:24
SGP7_120707_D-1946	0801007-07	Air	07-Dec-07 08:55	28-Dec-07 13:24
SGP8_120707_D-1946	0801007-08	Air	07-Dec-07 09:24	28-Dec-07 13:24
SGP9_120707_D-1946	0801007-09	Air	07-Dec-07 00:00	28-Dec-07 13:24
SGP10_120707_D-1946	0801007-10	Air	07-Dec-07 09:44	28-Dec-07 13:24
SGP11_120707_D-1946	0801007-11	Air	07-Dec-07 09:54	28-Dec-07 13:24

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

Republic Services of Ohio II, LLC dba Countywide	Project:	Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number:	Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager:	Michael R.Beaudoin, PE	03-Jan-08 14:23

Narrative:

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP1_120707_D-1946
0801007-01 (Air)

Date Sampled
07-Dec-07 08:18

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP2_120807_D-1946
0801007-02 (Air)

Date Sampled
08-Dec-07 11:31

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP3_120707_D-1946
0801007-03 (Air)

Date Sampled
07-Dec-07 08:28

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP4_120707_D-1946
0801007-04 (Air)

Date Sampled
07-Dec-07 08:36

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP5_120707_D-1946
0801007-05 (Air)

Date Sampled
07-Dec-07 08:45

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP6_120807_D-1946
0801007-06 (Air)

Date Sampled
08-Dec-07 11:45

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP7_120707_D-1946
0801007-07 (Air)

Date Sampled
07-Dec-07 08:55

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP8_120707_D-1946
0801007-08 (Air)

Date Sampled
07-Dec-07 09:24

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP9_120707_D-1946
0801007-09 (Air)

Date Sampled
07-Dec-07 00:00

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP10_120707_D-1946
0801007-10 (Air)

Date Sampled
07-Dec-07 09:44

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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

AMERICAN ANALYTICAL LABORATORIES, INC

ANALYTICAL SCIENCES • AKRON OPERATIONS

Republic Services of Ohio II, LLC dba Countywide	Project: Soil Gas Probe Ammonia	
3619 Gracemont Street NW	Project Number: Soil Gas Probe Ammonia	**Reported:**
East Sparta OH, 44626	Project Manager: Michael R.Beaudoin, PE	03-Jan-08 14:23

SGP11_120707_D-1946
0801007-11 (Air)

Date Sampled
07-Dec-07 09:54

Analyte	Result	Limit of Quantitation	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Wet Chemistry									
Ammonia as NH3	ND	2.00	ppm	1	A801011	28-Dec-07	28-Dec-07	ASTM D4490-90	REM

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East Sparta OH, 44626	Project Manager:	Michael R.Beaudoin, PE	03-Jan-08 14:23

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference