

Prepared for:

RHEEM MANUFACTURING COMPANY
138 Roberson Mill Road N.W.
Milledgeville, GA 31061

**VOLUNTARY REMEDIATION PROGRAM
PROGRESS REPORT #7**
Rheem Manufacturing Company
Milledgeville, Georgia

Prepared by:



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June 2017

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MILLEDGEVILLE, GEORGIA**

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Justin Vickery, P.G.
Principal

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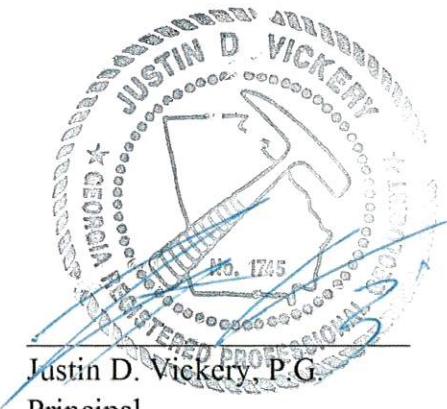
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**VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT #6
RHEEM MANUFACTURING COMPANY
Milledgeville, Georgia**

GROUNDWATER SCIENTIST STATEMENT

I certify that I am a qualified ground water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this Progress Report was prepared by me or by a subordinate working under my direction.

Certified by:



Date: 6/5/2017

Justin D. Vickery, P.G.
Principal
No. 1745

1 INTRODUCTION

1.1 Summary

This Voluntary Remediation Program (VRP) Progress Report is submitted on behalf of Rheem Manufacturing Company (Rheem) for the former Rheem manufacturing facility (Facility) located at 138 Roberson Mill Road in Milledgeville, Georgia (Property). The purpose of this Progress Report is to describe the activities conducted during the current reporting period (November 2016 through April 2017) and to discuss planned activities for the next reporting period. Specifically, this Progress Report includes: (i) an update to the Milestone Schedule, (ii) a discussion of the activities completed during this reporting period, (iv) a discussion of the effectiveness of ongoing remedial actions, and (vi) a discussion of the planned activities for the next reporting period.

1.2 Background

The Facility was used for the manufacturing of domestic air conditioning units and furnaces from 1978 until it ceased operations in 2009. The Property is fenced, is comprised of 41.12 acres, and is primarily improved with a vacant manufacturing and office building and an asphalt-paved parking lot. A regional topographic map of the surrounding area is shown on Figure 1 (all figures are included in the Figures attachment). An aerial photograph of the Property is included as Figure 2A, and an aerial photograph of the Property and surrounding area is included as Figure 2B.

In September 1988, a release of reclaimed trichloroethene (TCE) was discovered by Rheem and reported to the Georgia Environmental Protection Division (EPD). The release occurred in the tank farm area from underground piping connecting two aboveground TCE storage tanks to a parts washer inside the Facility. A groundwater recovery system was installed in 1989-1990 to remediate TCE in groundwater. Since that time, Rheem has performed ongoing assessment and remedial activities with oversight by the EPD Land Protection Branch.

2 VRP PROJECT MANAGEMENT

2.1 Professional Geologist Oversight

This Progress Report includes a certification by Justin Vickery, P.G., the Professional Geologist specified in the VRP application. Appendix A contains a monthly summary of hours invoiced by the P.G.

2.2 Milestone Schedule

An updated milestone schedule is included in Appendix B.

2.3 Conceptual Site Model (CSM)

An updated CSM was included in VRP Progress Report #5 (EPS, June 2016). A typographical error was discovered on Figure 8B, Hydrogeologic Profile A-A', of the VRP Progress Report #5. A revised Figure 8B has been generated and is included in Appendix C.

No data was collected during the current reporting period that would significantly alter the CSM. The CSM may be updated in future Progress Reports as additional data becomes available.

3 RECENTLY COMPLETED ACTIVITIES

3.1 Overview

Section 3 discusses activities conducted between November 1, 2016 and April 31, 2017, including:

- off-Property groundwater monitoring,
- on-Property release area groundwater bioremediation pilot testing and performance monitoring,
- operation of the on-Property Accelerated Remediation Technology (ART) system and ART performance monitoring,
- on-Property vadose zone remediation,
- off-Property vapor intrusion assessment, and
- on-Property vapor intrusion mitigation.

3.2 Assessment and Monitoring

3.2.1 Off-Property Groundwater Monitoring

On March 7-8, 2017, the network of off-Property monitoring wells (MW-33, MW-34, MW-35, MW-36, MW-43, MW-44, MW-45, MW-46, MW-47, and MW-54) were gauged with a water level meter, purged, and sampled for volatile organic compounds (VOCs). Well construction information is provided on Table 1 (all tables are included in the Tables attachment). The wells were purged using low flow/low volume methods. Purge forms and analytical laboratory reports are included in Appendix D and E, respectively.

Table 2 summarizes groundwater elevations, and Figure 3 is a potentiometric surface map for the March 2017 gauging event. The groundwater flow direction was to the south-southwest, similar to the direction depicted on historical potentiometric surface maps.

Consistent with historical results, TCE was detected in samples collected from MW-33 (100 µg/L), MW-34 (66 µg/L), MW-43 (83 µg/L), and MW-46 (22 µg/L) but was not detected in MW-35, MW-36, MW-44, MW-45, MW-47, or MW-54. Also consistent with historical data, cis-1,2-dichloroethene (cDCE) was detected in samples collected from MW-33 (64 µg/L) and MW-43 (7.2 µg/L) but was not detected in the other wells. TCE results are shown on Figure 4 and summarized in Table 3. Table 3 also provides a sampling history for TCE in the off-Property monitoring wells.

3.2.2 Off-Property Vapor Intrusion Assessment

3.2.2.1 Background

VRP Progress Report #5 (EPS, June 2016) presented a model-based assessment of potential off-Property vapor intrusion (VI) risk from TCE dissolved in groundwater that considered the off-Property conceptual site model (CSM) and analytical testing data. The model-based assessment included two EPA VI models, the EPA Vapor Intrusion Screening Level (VISL) calculator and the Johnson & Ettinger Model (JEM), to evaluate potential risk to a hypothetical residential and commercial property occupant.

The model-based VI assessment and CSM determined that an incomplete pathway for VI exists for the groundwater condition west of Roberson Mill Road as the TCE is present beneath a substantial (> 40 ft) clean water lens. Off-Property groundwater TCE concentrations east of Roberson Mill Road were above the commercial and residential VISL screening levels that apply at the point of exposure; however, groundwater TCE concentrations were below the screening values for both residential and commercial land use when assessed with the site-specific JEM model. Although, it was concluded that risk from off-Property groundwater was improbable based on VI modeling, Rheem decided to pursue a second line of evidence, *i.e.*, collection of soil gas samples, to assess the off-Property condition.

3.2.2.2 Field Assessment Plan

In 2017, two sampling events were performed to assess for VOCs in soil gas above the off-Property TCE plume. The first event was performed on February 17, 2017 by the off-Property land owner, and the second event was performed on April 27, 2017 by EPS on behalf of Rheem to verify the results for the prior VI modeling assessment. Locations for soil gas samples collected on behalf of Rheem were biased to assess soil gas above and adjacent to the off-Property TCE plume. Soil gas sample locations are shown on Figure 5.

All soil gas samples, those collected on behalf of Rheem and those collected on behalf of the off-Property land owner, were collected by Atlas Geo-Sampling Company following EPA procedure SESDPROC-307-R3. In summary, direct-push rods were advanced to a depth of 2.5 feet with a slide-hammer, and temporary soil gas sample probes were installed. Six inches of sand was backfilled over each soil gas probe and the remainder of the boring was sealed with bentonite to ground surface. The day following installation, each soil gas probe was tested to verify that an adequate seal was attained by performing a helium leak test and a secondary leak test. Following the leak test procedure, a soil gas sample was collected with a certified clean Suma® canister. All collected soil gas samples were analyzed using EPA method TO-15. The laboratory analytical report is provided in Appendix E.

3.2.2.3 Results

Analytical test results for the February 17, 2017 and April 27, 2017 sample events are summarized on Table 4 for detected VOCs. Nearly ubiquitous across all sample locations, with the exception of one soil gas sample (OFFSG-1) collected nearest the Rheem property, is the presence of one or more VOCs characteristic of a petroleum release (*e.g.*, benzene, toluene, ethylbenzene, xylenes

[BTEX compounds] and trimethylbenzene isomers). The highest detections of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and the BTEX compounds occurred immediately adjacent to Roberson Mill Road. The petroleum related soil gas detections are not attributed to the Rheem Facility but are likely a result of a documented prior gasoline product release at a nearby BP Gas Station located at 155 Roberson Mill Road, with possible influence from road runoff from general automotive traffic.

TCE was reported at a trace level in one soil gas sample located east of Roberson Mill Road, OFFSG-3, at $12 \mu\text{g}/\text{m}^3$ and was non-detect in the other 11 samples collected. A TCE daughter compound, cDCE, was detected at a trace level in one sample located west of Roberson Mill Road, OFFSG-5, at $4.2 \mu\text{g}/\text{m}^3$ but was not detected in the other 11 samples. One additional chlorinated VOC, tetrachloroethene (PCE), was reported in soil gas at $13 \mu\text{g}/\text{m}^3$ in GP-SG-4, located on the west side of Roberson Mill Road. PCE has not been detected in off-Property groundwater, and the possible source of the PCE, located outside the bounds of the off-Property TCE plume, is unknown.

All three chlorinated VOC soil gas detections (TCE, cDCE, and PCE) were below their respective Target Exterior Soil Gas Concentrations (TESGC), at a Target Cancer Risk of 10^{-5} and a Target Hazard Quotient of 1, for residential and commercial property.

3.3 Remediation

3.3.1 On-Property Groundwater Remedial Action

3.3.1.1 Groundwater Pump-and-Treat System

The groundwater recovery (pump-and-treat) system consists of four recovery wells (RW-1 through RW-4, shown on Figure 2A), each with either a down-hole pump or an injection pump, piped to an air stripper. Recovered groundwater is discharged to the City of Milledgeville publicly owned treatment works. Pump-and-treat operations were suspended at the onset of the bioremediation pilot test (discussed in Section 3.3.1.2). The planned cessation of the pump-and-treat operation was described in Appendix H of the Updated VRP Application (EPS, October 2012).

3.3.1.2 In-Situ Bioremediation

3.3.1.2.1 Background

Based on a Bio-Trap In Situ Microcosm Study conducted in 2015, bioremediation was selected as the appropriate remedy to decrease VOC concentrations in groundwater in the vicinity of the historical release. As shown on Figure 6, the planned treatment area includes (i) the “Release Area Zone” (*i.e.*, the core of the TCE-impacted groundwater beneath the TCE release area) and (ii) the “Plume Zone” (*i.e.*, downgradient of the Release Area Zone where TCE generally exceeds 10 milligrams per liter (mg/L)). Implementation of a combined biostimulation and bioaugmentation strategy is planned to create suitable redox conditions for complete anaerobic degradation (reductive dichlorination) of TCE and TCE daughter products to benign ethene. Emulsified vegetable oil (EVO), sold under the trade name SDS-SD® (Terra Systems, Inc.), and

Dehalococcoides culture will be applied across the vertical profile (saprolite/partially weathered rock (PWR)/bedrock) of the aquifer into an estimated 60 nested injection well groups in the treatment area.

In October 2016, as part of a bioremediation pilot test, 22 injection wells were installed in five nested well group locations (IW-1 through IW-3 in the Plume Zone and IW-4 and IW-5 in the Release Area Zone (Figure 6)). At each location, between three and five 1-inch wells were constructed with wells screens set at varying depths in the saprolite, PWR, and bedrock, ranging from 20 to 118 feet below the ground surface (Table 1).

3.3.1.2.2 Injection Well Sampling

While most of the injection wells were installed at locations and depths of known elevated TCE concentrations, some injection wells were installed below this zone where, in the immediate vicinity, no groundwater data existed. In December 2016, injection wells IW-2A, IW-3A, IW-4A, IW-4B, IW-5A, and IW-5B were sampled for VOCs using low flow/low volume purge methods to determine the need to inject at these locations.

TCE was detected at elevated levels in IW-2A and IW-3A and at relatively low levels (< 1,000 µg/L) in IW-4A/B and IW-5A/B. These results are summarized on Table 5, and the laboratory report is included in Appendix E. Based on this data, it was determined that injections would not be conducted at wells IW-4A and IW-5A, which are the deepest injection wells at locations IW-4 and IW-5.

3.3.1.2.3 Pilot Test Injections

A pilot study commenced on January 24, 2017, to evaluate the feasibility of *in-situ* bioremediation for the Release Area Zone and the Plume Zone. Lower injection volumes were applied to bedrock wells under the assumption that the secondary bedrock porosity is significantly lower than saprolite/PWR porosity. From January 24 to February 17, 2017, approximately 31,320 gallons of 10% (by volume) EVO and 45 liters of bioaugmentation culture were injected. Table 6 summarizes injection volume, injection rate, injection duration, etc., for each injection well.

3.3.1.2.4 Performance Monitoring

Bioremediation baseline sampling was conducted in October 2016 prior to the January/February 2017 pilot test injections. Performance monitoring was conducted in March and April 2017 to assess bioremediation potential (*i.e.*, extent of parent chlorinated ethene degradation/appearance of end products, distribution of substrate, and occurrence of anaerobic/reducing conditions) and consisted of sampling MW-1, MW-5, MW-9, MW-48A, MW-48B, and PZ-7. Monitoring points were selected across the full thickness of the aquifer within the expected zone of influence of the injection wells (in the vicinity of IW-1 through IW-5). Field parameters, including dissolved oxygen (DO), oxidation-reduction potential (ORP), and pH, were measured during well purging, and groundwater samples were laboratory analyzed for VOCs, dissolved hydrocarbon gases (ethene, ethane, methane), nitrate, sulfate, and total organic carbon (TOC). Sampling results from the baseline and performance monitoring events are summarized in Table 7.

Preliminary indicators of bioremediation potential were evaluated by comparing the performance monitoring data to data collected during the baseline event and historical VOC sampling events. The table below (modified from Appendix B of the Interstate Technology & Regulatory Council (ITRC) technical guidance for in-situ bioremediation¹) lists the use of the analytical data and the performance expectation.

Monitoring Parameter	Data Use	Performance Expectation
Chlorinated Ethenes	Values by which success of the remediation system will ultimately be measured.	Parent chlorinated ethenes and degradation products are expected to decline within the treatment zone after substrate addition.
Ethene/Ethane	Ethene and ethane are end products of reductive dichlorination. Elevated levels of ethene and ethane (at least an order of magnitude greater relative to baseline can be used to infer anaerobic degradation of chlorinated ethenes.	If elevated levels of ethene or ethane are not observed, potential accumulation of cDCE or vinyl chloride should be monitored.
Methane	Elevated levels of methane indicate fermentation is occurring in an anaerobic environment and that reducing conditions are appropriate for anaerobic degradation of chlorinated ethenes.	Methane levels >1.0 mg/L are desirable but not required for reductive dechlorination to occur. Methane levels <1.0 mg/L and the accumulation of cDCE and vinyl chloride may indicate that additional substrate is required to shift reducing conditions into an environment suitable for reduction of these compounds.
Total Organic Carbon	Elevated levels of TOC relative to baseline are an indicator of substrate distribution during performance monitoring. TOC concentrations >20–50 mg/L are desired in the treatment zone.	Stable or declining TOC levels <20 mg/L in conjunction with elevated levels of VOCs and alternate electron acceptors indicate additional substrate is required to sustain the anaerobic treatment zone.
Nitrate	Nitrate is an alternate electron acceptor for microbial respiration in the absence of oxygen. Depleted levels of nitrate (relative to background) indicate that the groundwater environment is sufficiently reducing nitrate.	Indicator parameter. Nitrate level <1.0 mg/L is desirable for anaerobic dechlorination.
Sulfate	Sulfate is an alternate electron acceptor for microbial respiration in the absence of oxygen and nitrate. Depleted concentrations of sulfate relative to background indicate that the groundwater environment is sufficiently reducing to sustain sulfate reduction and for anaerobic dechlorination to occur.	Sulfate levels <20 mg/L are desirable but not required for anaerobic dechlorination to occur. High levels of sulfate in conjunction with the absence of TOC indicate additional substrate may be required to promote anaerobic dechlorination.
DO	DO should be depleted in an anaerobic bioremediation system. DO <0.5 mg/L generally indicates an anaerobic pathway suitable for anaerobic dechlorination to occur.	DO concentrations >1.0 mg/L in conjunction with elevated levels of chlorinated ethenes and the absence of TOC indicate additional substrate may be required to promote anaerobic dechlorination.
ORP	ORP provides data on whether anaerobic conditions are present. Reducing conditions are required for anaerobic dechlorination of chlorinated ethenes.	Positive ORP values (>0.0 mV) in conjunction with elevated levels of DO and the absence of TOC may indicate that additional substrate is required to promote anaerobic dechlorination.
pH	Biological processes are pH sensitive, and the ideal range of pH for dechlorinating bacteria is 5–9. Outside this range, biological activity is less likely to occur.	pH levels within a range of 5–9 are desirable. pH <5 indicates that a buffering agent may be required to sustain high rates of anaerobic dechlorination.

¹ *In-Situ* Bioremediation of Chlorinated Ethene: DNAPL Source Zones. ITRC (June 2008).

Results from the performance monitoring events demonstrate appropriate deviation from the baseline aquifer condition, indicating that the bioremediation treatment is resulting in reductive dichlorination. TCE concentrations can fluctuate over time without indicating degradation. However, decreased TCE concentrations coupled with increased TCE daughter compound concentrations (cDCE and vinyl chloride) suggest degradation is occurring. As shown on Table 7, this condition was observed in MW-5, MW-9, and PZ-7 and to a lesser extent in MW-48A and MW-48B².

TOC concentrations are increasing in MW-5, MW-9, MW-48A, MW-48B, and PZ-7 but remain below 10 mg/L. Low levels of ethane and ethene were detected in MW-9, and low levels of methane were detected in PZ-7. Monthly performance monitoring will continue over the next few months to further assess the bioremediation potential.

Field-collected geochemical results demonstrate appropriate deviation from the baseline aquifer geochemical condition indicating that the bioremediation treatment is modifying the aquifer condition to favor reductive dichlorination. As shown in Table 7, ORP has decreased in each of the performance monitoring wells with the largest decrease occurring in PZ-7 (437 millivolts (mV) to -110 mV). DO showed a significant decrease in wells MW-48B (3.66 mg/L to 0.54 mg/L) and PZ-7 (4.99 mg/L to 0.95 mg/L).

3.3.1.2.5 Injection Rate Evaluation

The primary constraints on the implementation approach were poor hydraulic performance of the bedrock aquifer and biofouling of the aquifer media around injection wells. Hydraulic performance was determined based on injection rates and injection pressures. Poor hydraulic performance is characterized by low injection rate (\leq 1 gallon per minute (gpm)) and high injection pressure ($>$ 25 pounds per square inch (psi)). Biofouling, an artifact of EVO accumulation in hydraulic pathways near the point of injection, diminishes hydraulic performance (causes injection rates to decrease and injection pressures to increase) over time. This is illustrated in the table below. Poor hydraulic performance significantly prolonged the injections, as more time was required to achieve target injection volumes. In one case (IW-3A), the target injection volume (442 gallons) was not reached after approximately 39 hours of injecting. Accordingly, full-scale implementation will be improved by focusing injections on high performing wells while limiting injections in poorly performing wells. This will facilitate a more concentrated effort to reduce VOC mass in the saprolite and weathered rock zones, where the more elevated groundwater condition occurs.

² Diminishing TCE concentrations observed in MW-1 are attributed to ongoing vadose zone soil remedial action (discussed in Section 3.3.2). MW-1 is screened in the shallow aquifer (29-44 ft-bgs) near the soil vapor extraction system treatment zone. TCE was detected at 17,000 µg/L during the baseline monitoring event, down from 160,000 µg/L in June 2010.

Injection Well ID	Screened Interval	Geology	Volume EVO Injected (gal)	Injection Duration (hours)	Initial Injection Rate (gpm)	Initial Pressure (psi)	Final Injection Rate (gpm)	Final Pressure (psi)
IW-1A	73-88	Bedrock	442.65	20.94	0.70	40	0.24	51
IW-2A	91-106	Bedrock	471.33	16.54	0.59	25	0.36	27
IW-3A	100-115	Bedrock	318.46	38.87	0.18	29	0.08	45
IW-4B	80-95	Bedrock	589.67	12.91	1.0	19	0.56	28
IW-5B	83-98	Bedrock	581.08	7.65	1.2	25	1.1	27

3.3.1.3 Property Line ART System

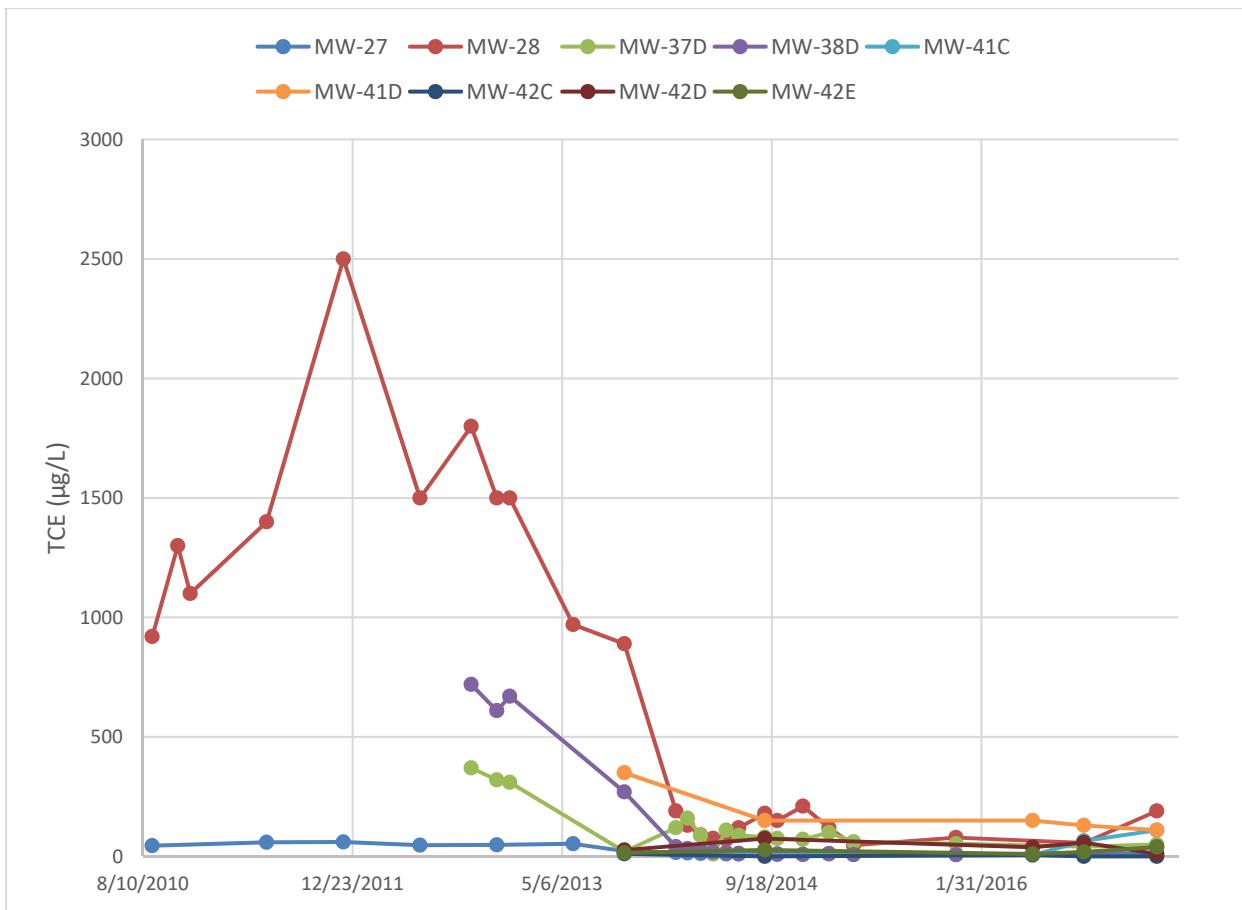
3.3.1.3.1 Overview

Operation of the property line ART system continued during the current reporting period. As described in prior submittals, the ART system consists of six remediation wells positioned along a transect (*i.e.* treatment barrier) perpendicular to the TCE plume, intersecting the area of highest TCE concentrations at the Property's western boundary. The ART well network (including performance wells) is shown on Figure 7. The goal of the ART system is to reduce the mass flux of TCE exiting the Property, allowing natural attenuation processes along the continued flow path of groundwater to address the lesser VOC flux condition.

3.3.1.3.2 ART Performance Monitoring

The ART performance wells were sampled March 24, 2017. The time series plot below presents results from recent and previous sampling events and illustrates the effectiveness of the ART system in substantially decreasing TCE concentrations and mass flux off-Property. ART performance well sampling data is summarized on Table 8.

TCE Test Results for ART Performance Monitoring Wells

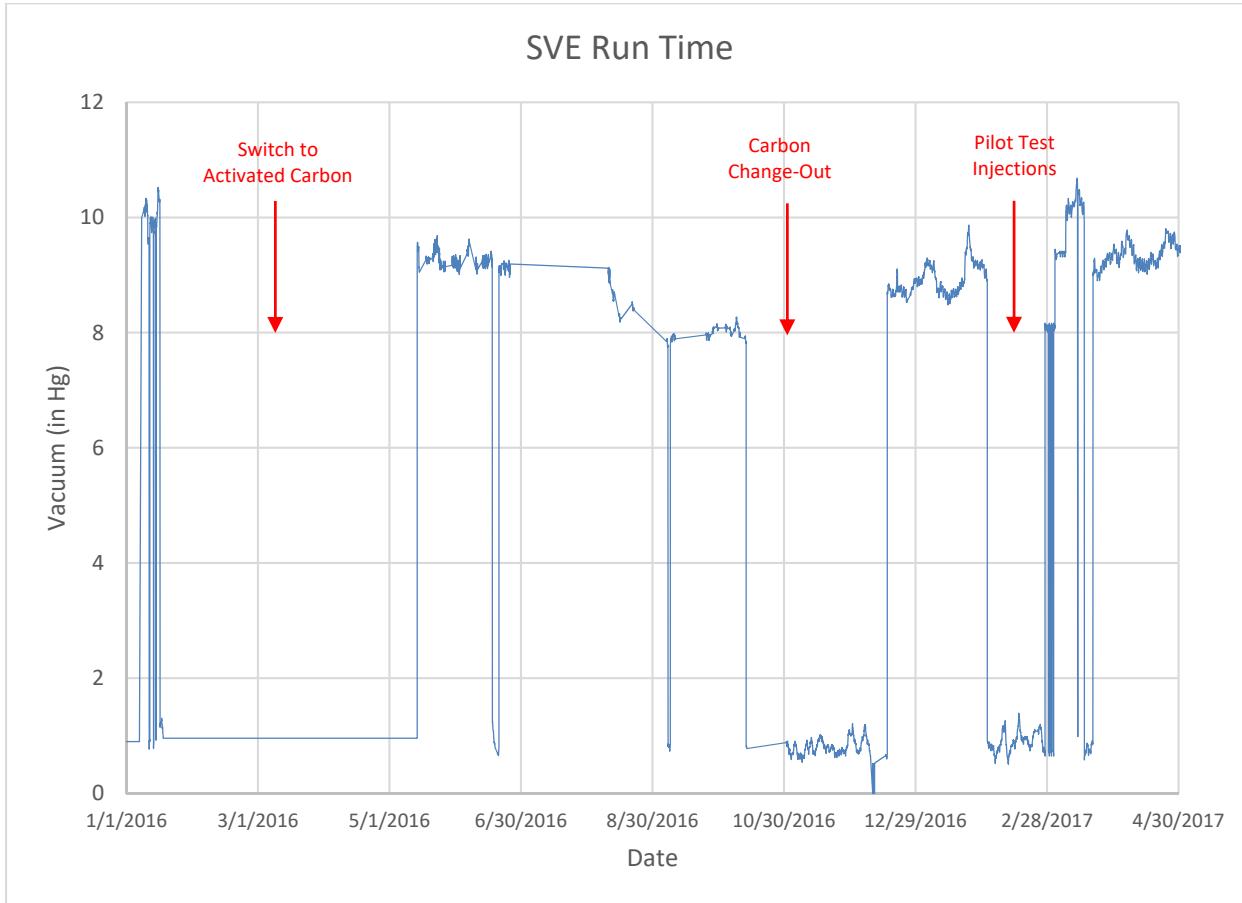


Monitoring wells MW-37S, MW-38S, MW-39, MW-41A, MW-41B, MW-41E, MW-42A, MW-42B are not included on the chart because TCE has not been detected in these wells.

3.3.2 On-Property Soil (Vadose Zone) Remedial Action

A soil vapor extraction (SVE) system, consisting of a 40 horsepower (HP) blower connected to 40 hydraulic fracture wells, was previously installed to extract VOCs from the vadose zone soil in the TCE release area. SVE system operations were initiated in April 2015. SVE exhaust was initially treated using a catalytic oxidizer and air scrubber until January 2016, when operation of the SVE system was suspended to change the treatment method to activated carbon. SVE operations resumed on April 7, 2016 following the installation of two 2,000-pound carbon vessels and continued through the current reporting period except during maintenance, carbon-vessel change-out, and the pilot study injections. Carbon vessel breakthrough was detected on November 1, 2016, and the system was shut down for carbon change-out. System operations resumed on December 16, 2016. The system was again shut down between January 31 and February 27, 2017, during bioremediation pilot test injections. SVE system run time is illustrated in the chart below.

As of November 2016, an estimated 14,124 pounds of VOCs have been recovered with the SVE system. Additional VOCs have been recovered since November 2016. This mass will be determined after the next carbon change-out.



3.3.3 On-Property Vapor Intrusion Mitigation

3.3.3.1 SSD System Operation

Previous progress reports described the sub-slab depressurization (SSD) system piping installed at the Facility. Figure 8 shows the SSD system lines (Lines 1-10) and the locations of the fans. Full operation of the system was initiated on November 1, 2016. Lines 1-6 have remained operational throughout the reporting period. Lines 7-10 were operational, except during rain events as water tended to enter these lines and either block the airflow or damage the vacuum fans. It appears that rain water was infiltrating through the concrete slab located in the alley between the office and warehouse buildings (between Lines 7/8 and Lines 9/10). The slab has been sealed, and subsequent observations indicate the sealant is preventing rain water infiltration. The SSD system is currently operating continuously.

3.3.3.2 SSD System Performance

3.3.3.2.1 Overview

Sub-slab soil gas samples were collected in September 2014, and indoor air samples were collected in August and November 2014 to assess the potential for vapor intrusion into the Facility. Based

on these sampling events, which are referred to as background sampling events below, the SSD system was installed, and SSD operations were initiated on November 1, 2016. On December 12-14, 2016, sub-slab soil gas and indoor air samples were collected while the SSD system was in operation to evaluate the effectiveness of the system. Sub-slab soil gas results are summarized in Table 9 and were compared to Non-Residential Target Sub-Slab Soil Gas Concentrations³ (TSSSGCs). Indoor air sampling results are summarized in Table 10 and were compared to EPA Non-Residential Target Indoor Air Concentrations (TIACs) for cancer and non-cancer risks⁴. All laboratory reports are included in Appendix E.

The SVE system, which has helped to decrease soil gas concentrations within the immediate TCE release area, was not operating during the SSD performance monitoring event or during the month prior to the sampling, due to carbon change-out requirements. The SVE system has been restarted, and with continued operation the system is expected to continue removing soil gas concentrations and thus continue to improve sub-slab soil gas and indoor air conditions.

3.3.3.2.2 Sub-Slab Soil Gas Sampling

Previously installed sub-slab soil gas probe locations are shown on Figure 9A. On December 13-14, 2016, 20 sub-slab soil gas probe locations (see Figure 9B) were re-sampled to determine the sub-slab conditions during operation of the SSD system. Eight of the original sampling probes were damaged and required reinstallation (VI-025, VI-026, VI-028, VI-032, VI-033, VI-045, VI-046, and VI-047). New vapor probes were installed by drilling through the concrete slab and into the surficial soil beneath the slab. The probes were then set just below the slab, a sand pack was placed around each probe, and tubing was extended from the probe to just below the ground surface. The probes were finished with a threaded valve installed on the upper end of the tubing, and the holes in the floor slab were sealed. Soil gas samples from the new probes were collected the day after installation to allow time for the seals to cure.

Prior to sampling each of the vapor probes, a helium leak test was performed to determine if the seals were effective. An enclosure was placed on top of the sealed floor slab and filled with helium. A soil gas sample was collected from each of the vapor probes and scanned with a helium meter to determine if a leak was present. A leak test result equal to or exceeding 10% helium⁵ indicates that ambient air was drawn through the slab. The leak test results for each of the vapor probes were significantly less than 1%, and therefore, each of the probes passed the leak test. The soil gas samples were collected from the vapor probes using laboratory-supplied negatively pressurized 400 milliliter Summa canisters.

TCE was detected in each of the 20 sub-slab soil gas samples collected in December 2016, and TCE concentrations exceeded the TSSSGC ($290 \mu\text{g}/\text{m}^3$) in 14 of these samples. The highest TCE concentrations detected in sub-slab soil gas were generally near the TCE release area (VI-014, VI-022, and VI-023), where TCE is expected to volatilize from shallow groundwater and vadose zone soils and migrate upward through the soil column. TCE concentrations at these sample locations have decreased significantly (one to two orders of magnitude) since the SVE and SSD systems

³ TSSSGCs were developed using a cancer risk of 10^{-5} and a hazard quotient of 1.

⁴ TIACs were developed using a cancer risk of 10^{-5} and a hazard quotient of 1.

⁵ Interstate Technology & Regulatory Council. *Vapor Intrusion Pathway: A Practical Guideline* (January 2007)

have been operation. Chloroform and 1,1-dichloroethene were each detected in one sample at concentrations exceeding the TSSSGCs.

3.3.3.2.3 Indoor Air Sampling

On December 12, 2016, indoor air and ambient air samples were collected from 12 of the locations previously sampled (VIIA-1 through VIIA-12 (Figure 10)). Indoor air samples were collected from the breathing zone (~5 ft above the ground surface) under the following conditions:

- office building – some amount of air exchange was created by operating the HVAC blower, similar to the November 2014 sampling event;
- warehouse – some amount of indoor/outdoor air exchange was created by opening wall vents and some overhead doors, similar to the November 2014 sampling; and
- SSD system – operational.

Air samples were collected in 6-liter summa canisters equipped with a vacuum gauge and a regulator pre-set for an 8-hour composite sample collection. The canisters were opened in the morning and closed in the early evening to reflect a typical work day.

TCE was detected in ambient air sample VIIA-1 and warehouse samples VIIA-3 and VIIA-6 through VIIA-12 at concentrations ranging from 0.65 to 3.2 $\mu\text{g}/\text{m}^3$, which are all below the Non-Residential TIAC of 8.8 $\mu\text{g}/\text{m}^3$. TCE was not detected in indoor air samples collected from the office portion of the Facility (IA-4 and IA-5) or in the ambient air sample collected outside of the offices (IA-2). In addition to TCE, no other compounds were detected at concentrations exceeding the TIACs.

3.3.3.3 SSD System Evaluation

Sub-slab soil gas and indoor air concentrations have decreased significantly following startup of the SSD system. Furthermore, following startup of the SSD system, indoor air concentrations were below the Non-Residential TIACs, indicating that the SSD system is effective in mitigating vapor intrusion in the Facility.

4 PLANNED ACTIVITIES FOR NEXT REPORTING PERIOD

4.1 On-Property Activities

4.1.1 Groundwater Remedial Action

4.1.1.1 Groundwater Pump-and-Treat System Operation

Pump-and-treat operations have been suspended. The pump-and-treat system may be used temporarily during full-scale bioremediation to help with substrate delivery/distribution.

4.1.1.2 Groundwater Bioremediation

The groundwater remediation pilot study will continue into the next reporting period. Monitoring wells within the anticipated treatment zone that were sampled as part of the baseline event will continue to be monitored for VOCs and bioremediation parameters (methane, ethane, ethene, and total organic carbon). Full-scale implementation of the bioremediation approach is anticipated to begin during the next reporting period.

4.1.1.3 Property Line ART System Operation

The expanded ART system has shown positive results, including decreasing concentrations of VOCs and an expanding area of influence, measured by increased dissolved oxygen and oxidation-reduction potential. During the next reporting period the full scale system will continue operation, and the performance of the system expansion (wells ART-6, ART-7, and ART-8) will be monitored using nested wells MW-41 and MW-42. Groundwater will be sampled for VOCs using passive diffusion bag methodology. These wells will be sampled quarterly during the next reporting period to monitor VOC concentration trends over time.

4.1.2 Soil SVE System Operation

The SVE system will continue to operate during the next reporting period.

4.1.3 Sub-Slab Depressurization System

The SSD system will continue to operate during the next reporting period.

4.2 Off-Property Activities

Monitoring wells MW-33, MW-34, MW-35, MW-36, MW-43, MW-44, MW-45, MW-46, MW-47, and MW-54 will be sampled during the next reporting period.

5 REFERENCES

Environmental Planning Specialists, Inc., June 2016, Voluntary Remediation Program Progress Report #5.

Environmental Planning Specialists, Inc., October 2012, Voluntary Remediation Program Application, Update 1.

Sowers, G.F., 1963, Engineering Properties of Residual Soils Derived from Igneous and Metamorphic Rocks, Proc. 2nd Panamerican Conference on Soil Mechanics and Foundation Engineering, Sao Paulo, Brazil, 39-62.

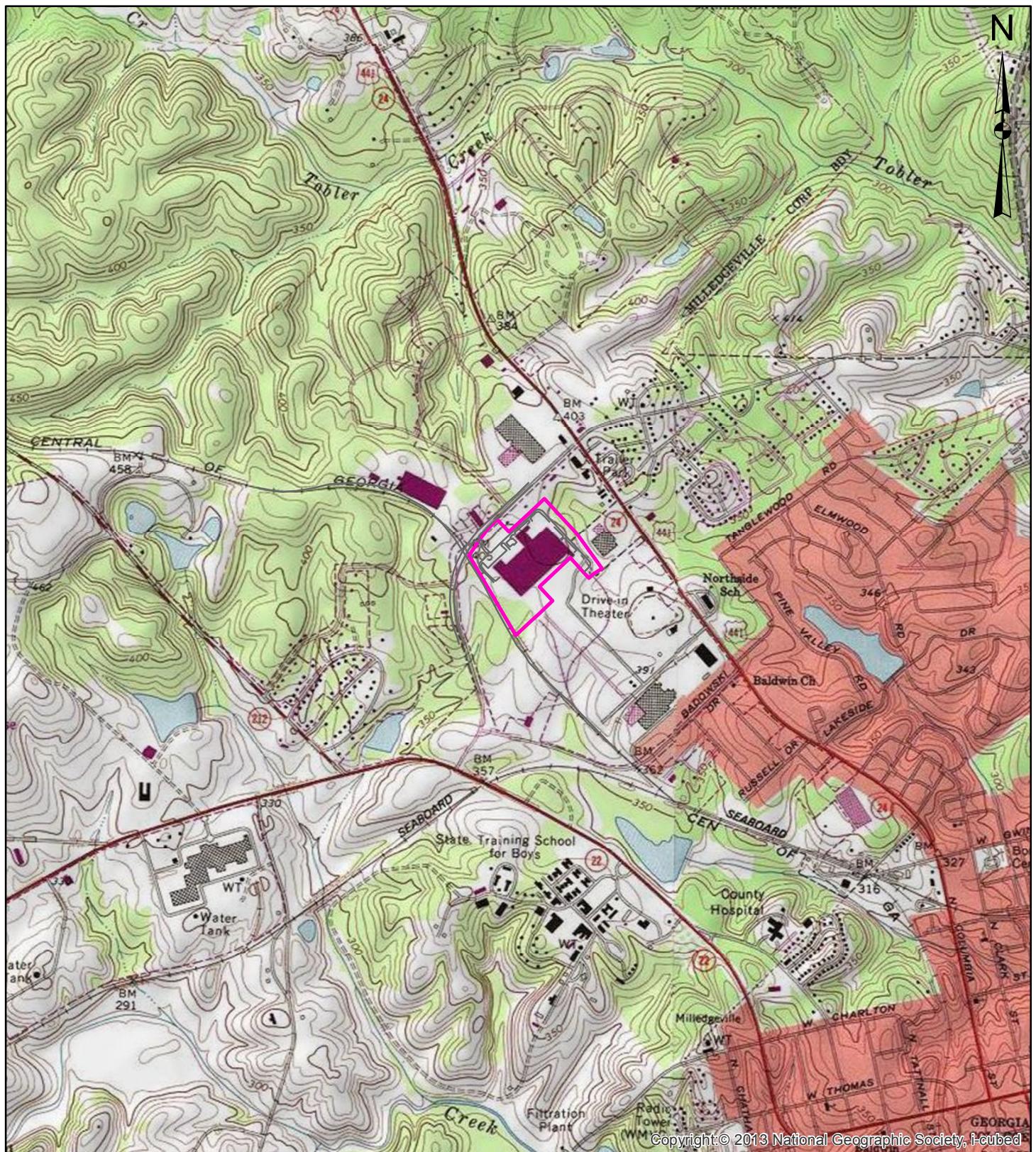
Swain, L.A., Mesko, T.O., and Holiday, E.F., 2004, Summary of the Hydrogeology of the Valley and Ridge, Blue Ridge, and Piedmont Physiographic Provinces in Eastern United States, USGS Professional Paper 1422-A.

Wilson, C. and Martin, R., 1996, Embankment dams in the Piedmont/Blue Ridge Province. Design with Residual Materials: Geotechnical and Construction Conference, ASCE GSP 63, 27-36.

Williams, L.J., W.C. Burton, 2005, Common Types of Water-Bearing Features in Bedrock, Rockdale County, Georgia in Proceedings of the 2005 Georgia Water Resources Conference, held April 25-27, 2005, at the University of Georgia.

[\[EPS\]](#)

FIGURES



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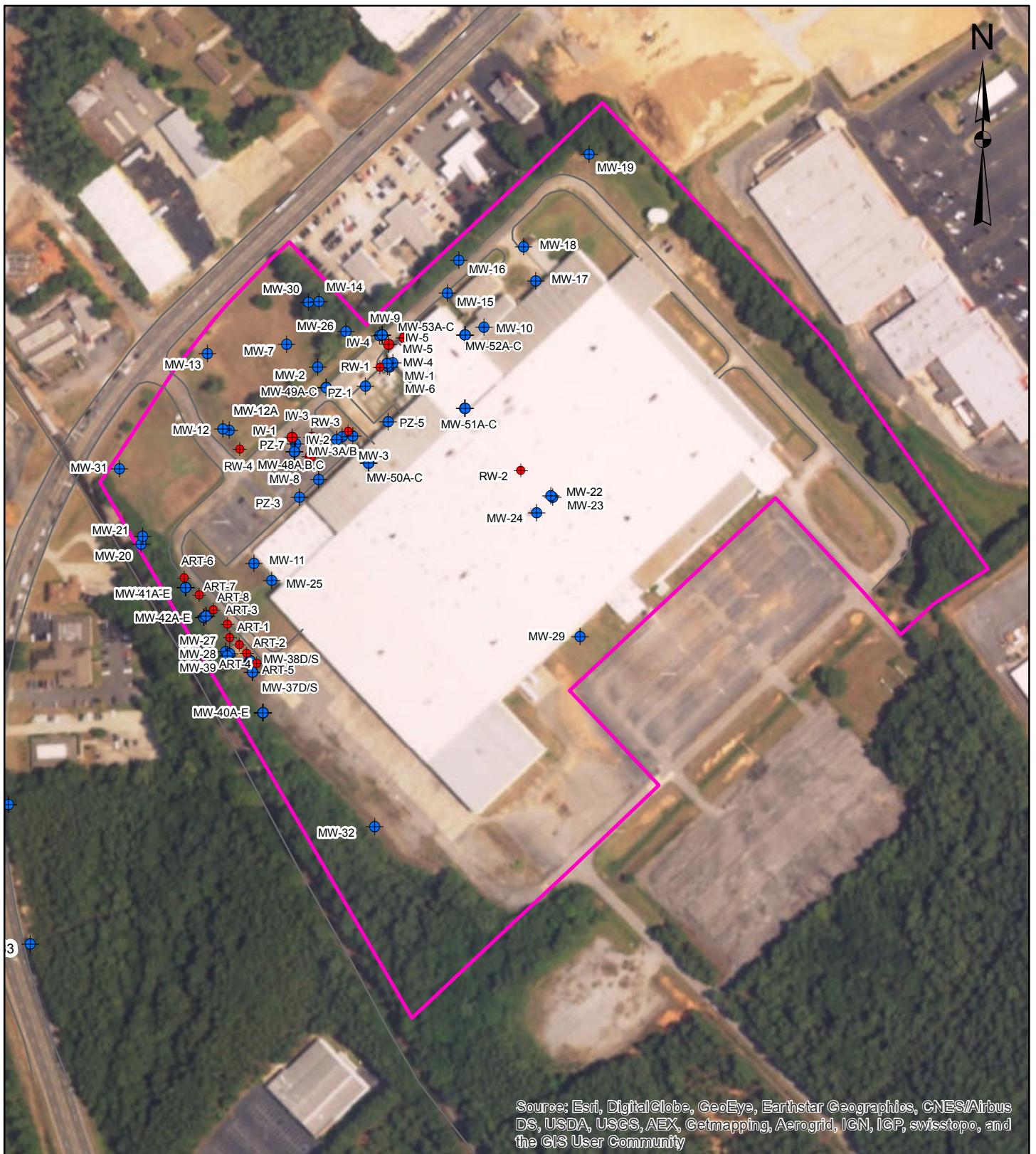
Legend

Feet

Property Line

Property Vicinity Topographic Map

Rheem Manufacturing Company
Milledgeville, Georgia



Legend

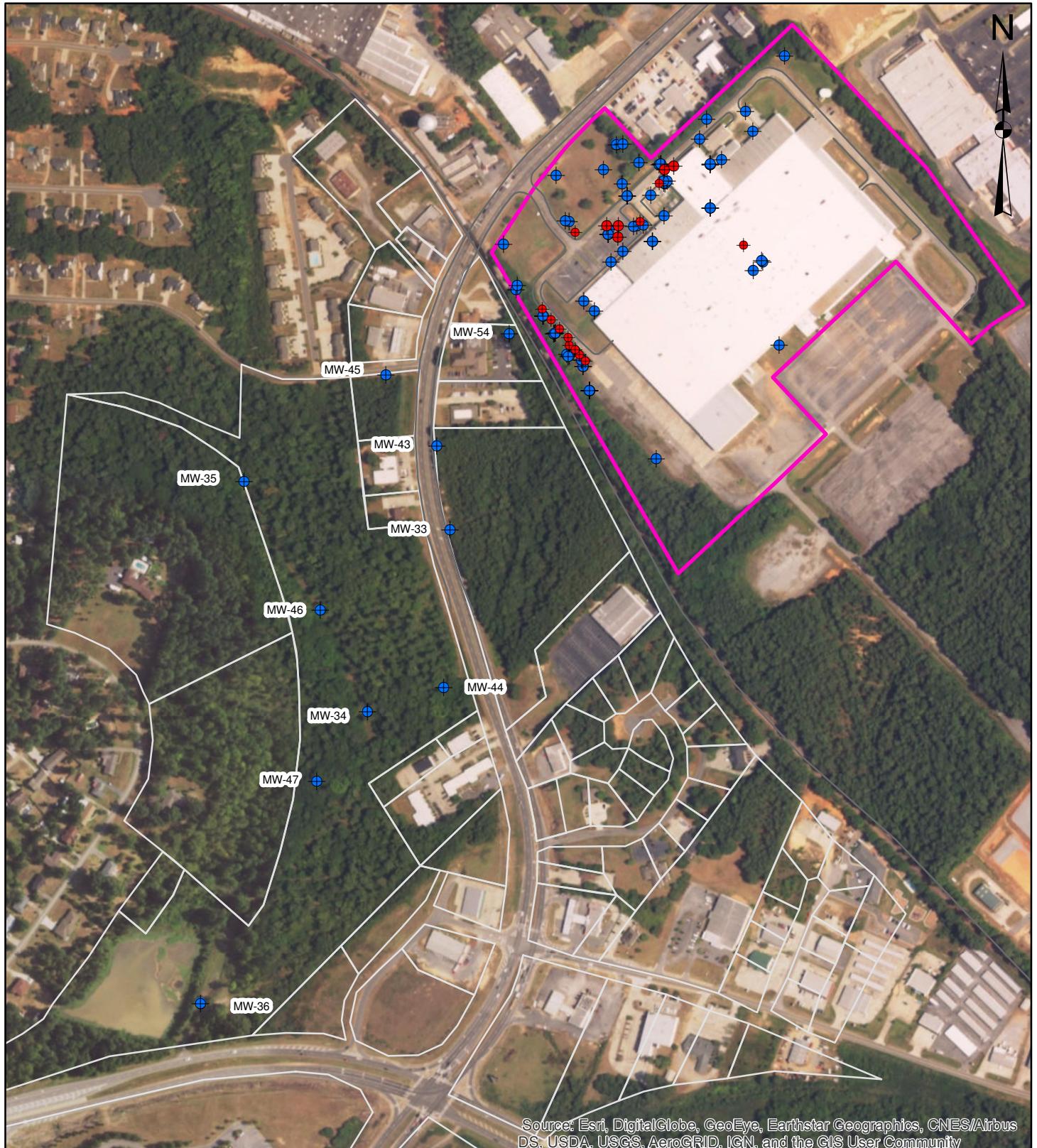
Property Line

Monitoring Well

Remediation Well

Property Plan

Rheem Manufacturing Company
Milledgeville, Georgia



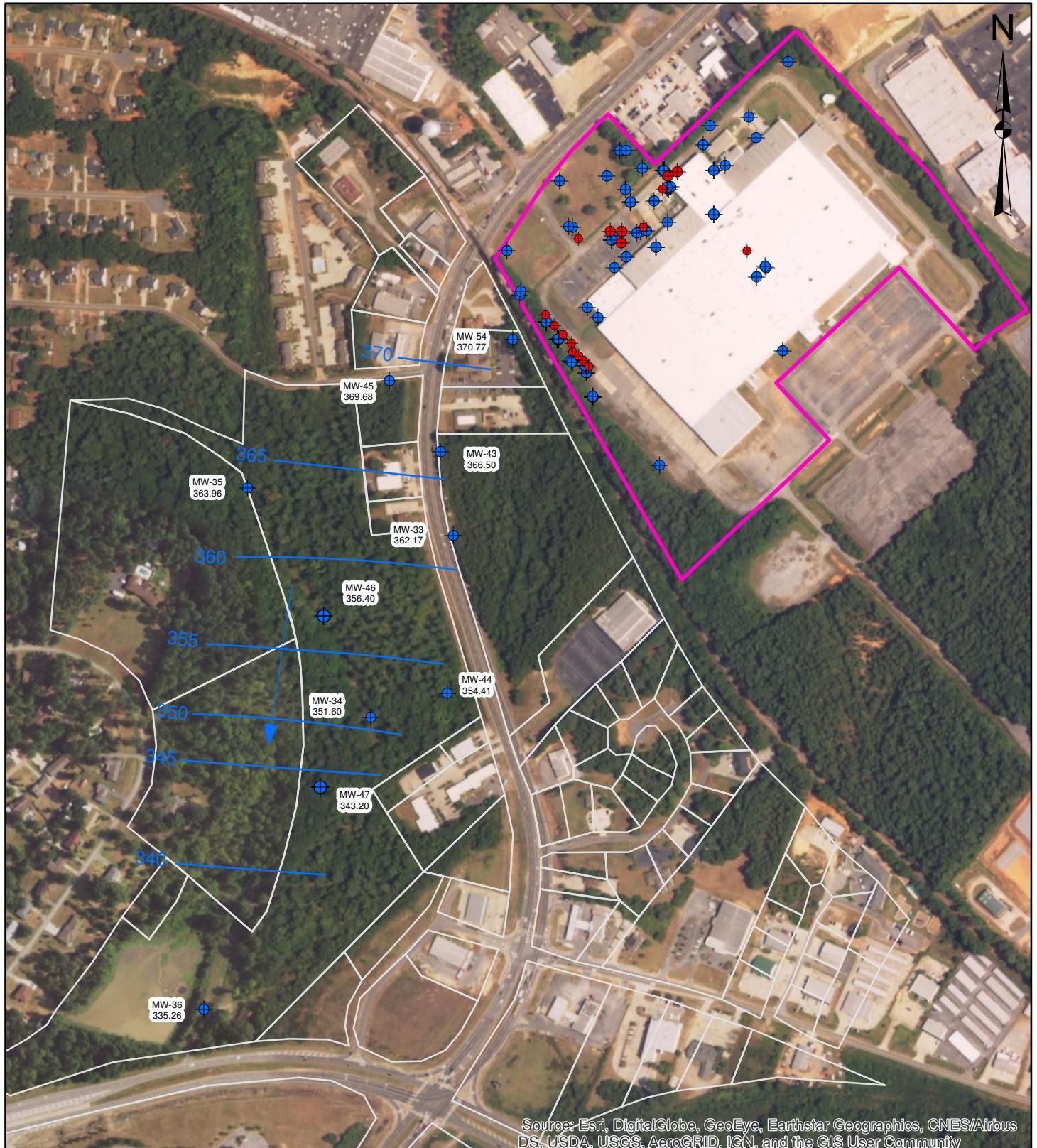
0 250 500
Feet

Legend

- Property Line
- Off-Property Land Parcel
- Monitoring Well
- Remediation Well

Property Vicinity Plan

Rheem Manufacturing Company
Milledgeville, Georgia



0 250 500
Feet

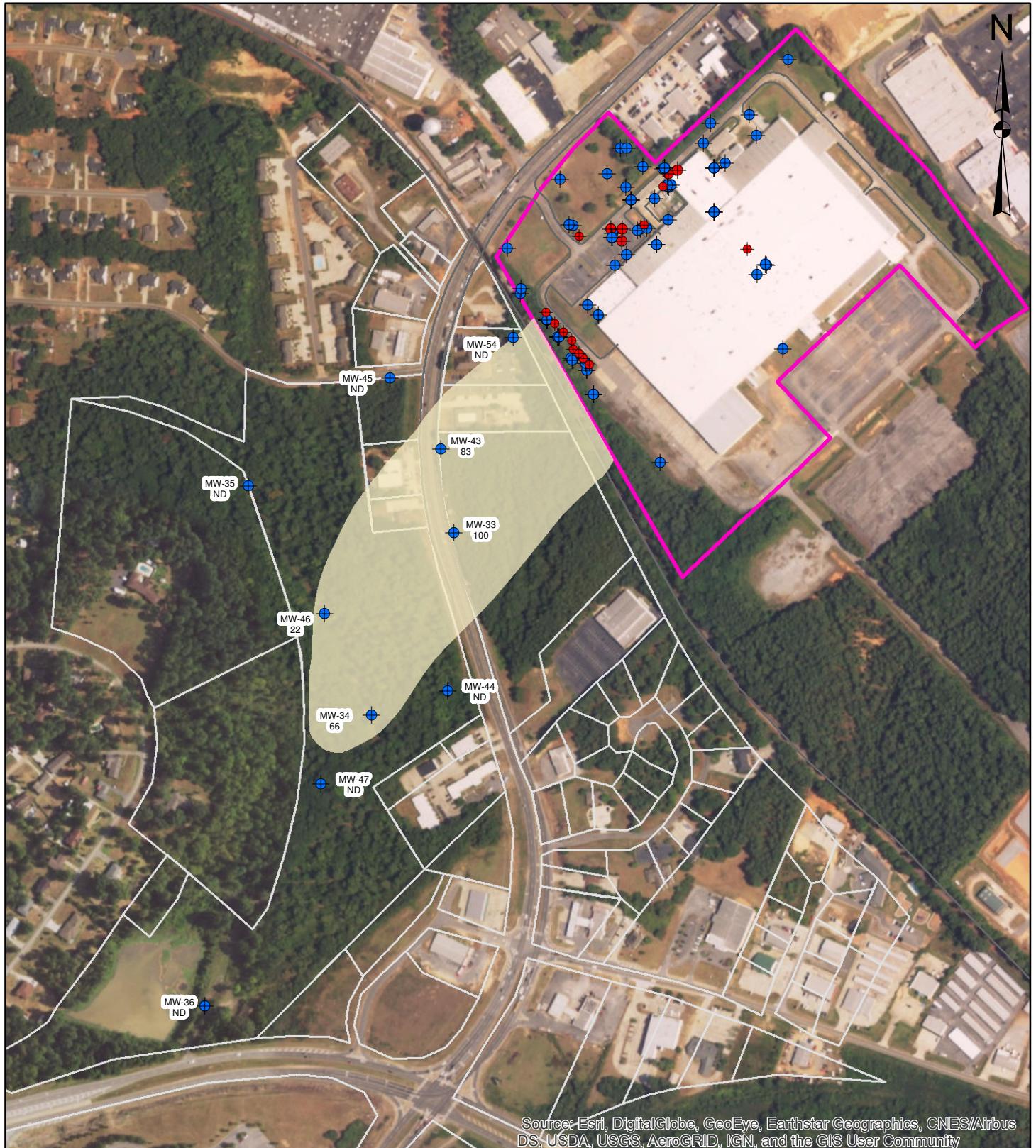
Legend

- Property Line
- Monitoring Well
- 335.26 Groundwater Elevation (ft)
- Remediation Well

- Potentiometric Surface Contour
- Groundwater Flow Direction
- Off-Property Land Parcel

Potentiometric Surface Map
for Off-Property Wells
(March 2017)

Rheem Manufacturing Company
Milledgeville, Georgia



0 250 500
Feet

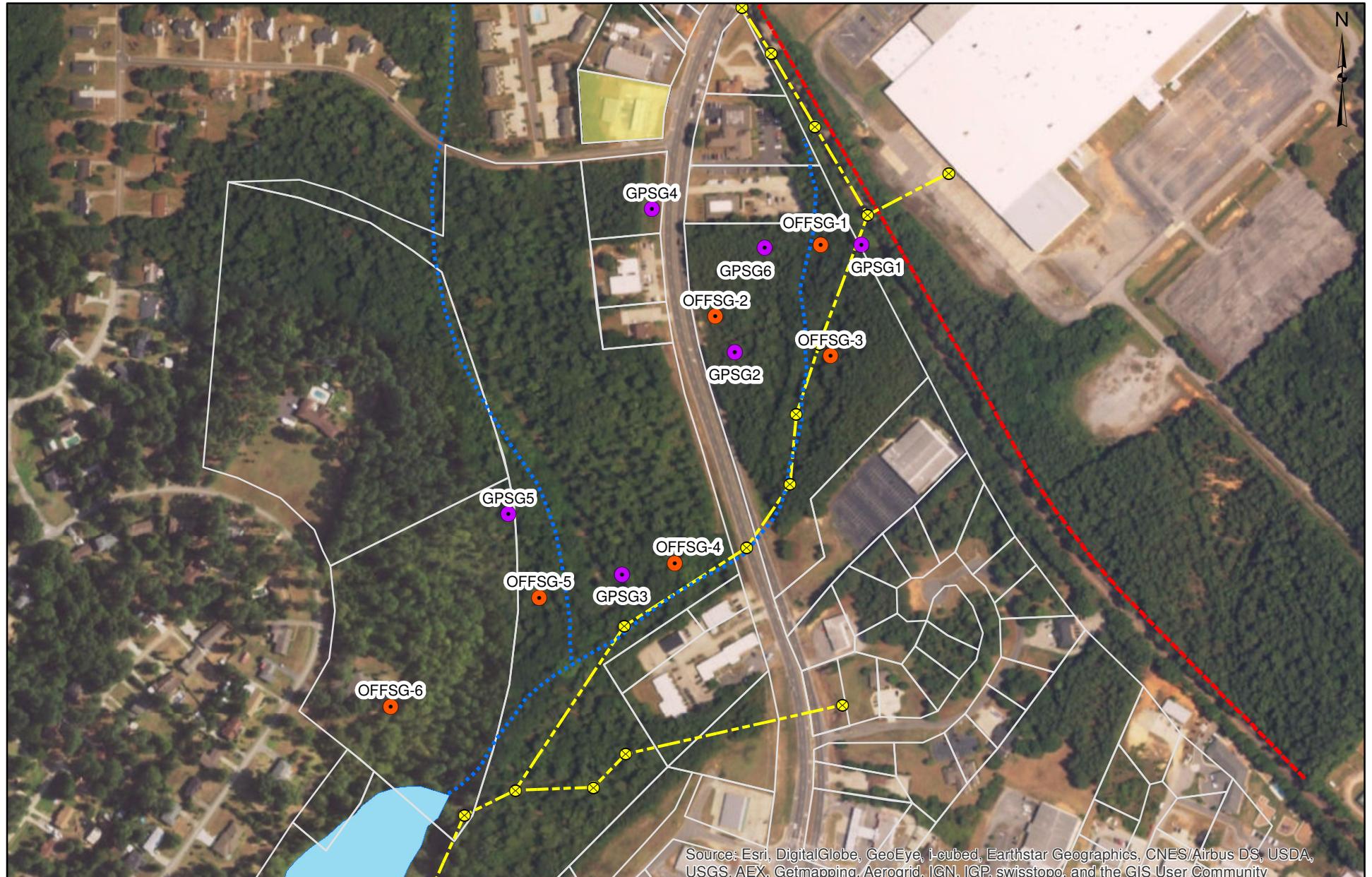
Legend

- Property Line
- Off-Property Land Parcel
- Monitoring Well
- 100 TCE Concentration (ug/L)
- Remediation Well

Inferred Offsite Groundwater Plume

Rheem Manufacturing Company
Milledgeville, Georgia

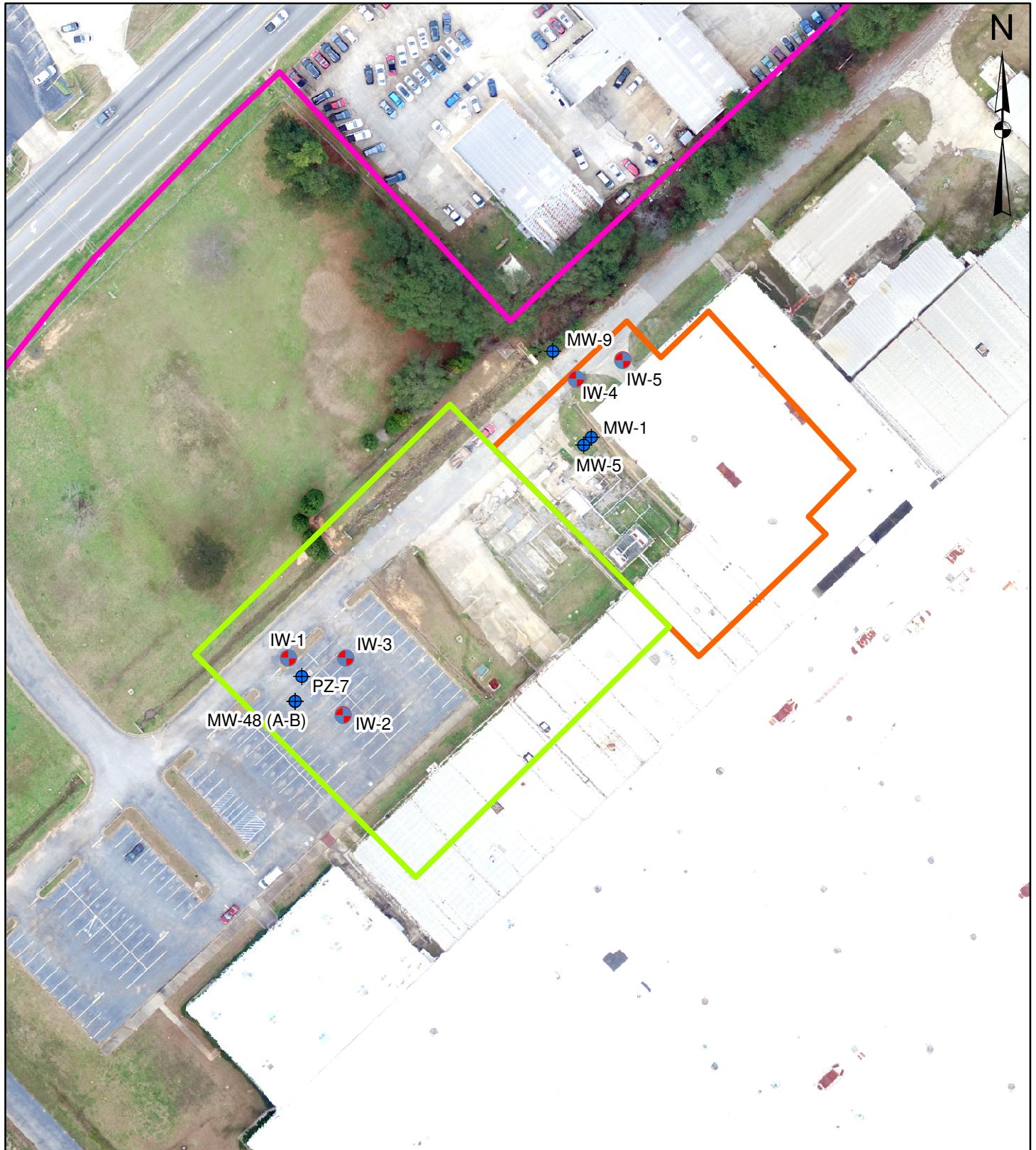
Groundwater TCE Sampling Results for Off-Property Wells (March 2017)



Legend

- Soil Gas Sample Location
- February 2017 Sample
- April 2017 Sample
- Sewer Manhole
- Sewer Line
- Stream
- Pond
- Off-Property Land Parcel
- Rheem Property Line
- BP Gas Station

2017 Off-Property Soil
Gas Assessment Locations
Rheem Manufacturing
Millidgeville, GA



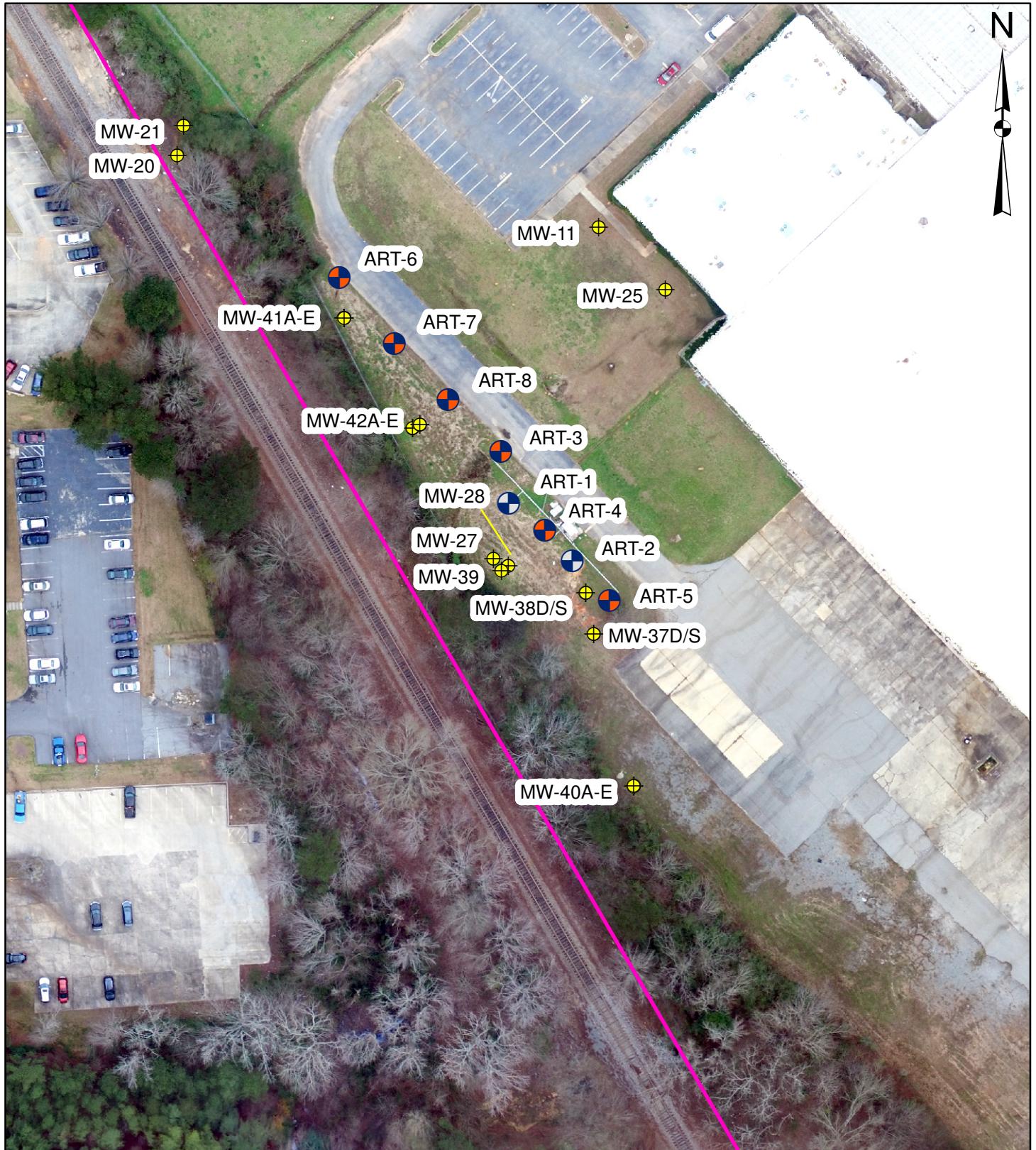
0 50 100
Feet

Legend

- Monitoring Well
- Injection Well
- Property Line
- Plume Zone
- Release Area Zone

In-Situ Bioremediation Pilot Study
Treatment Zones and Well Network

Rheem Manufacturing Company
Milledgeville, Georgia



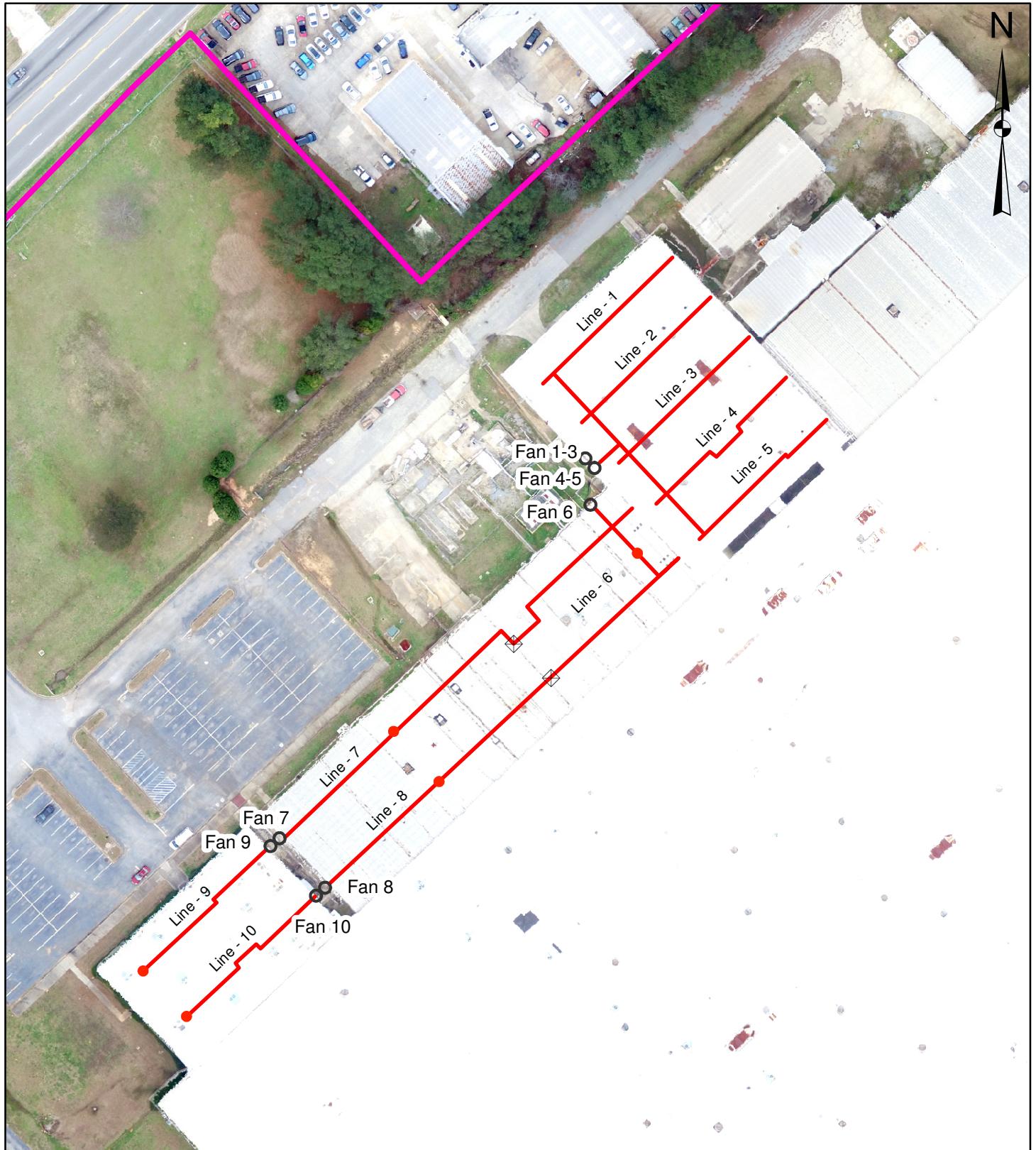
0 40 80
Feet

Legend

- ART Well Location (Active)
- ART Well Location (Inactive)
- Property Line
- Monitoring Well

Property Line Plan

Rheem Manufacturing Company
Milledgeville, Georgia

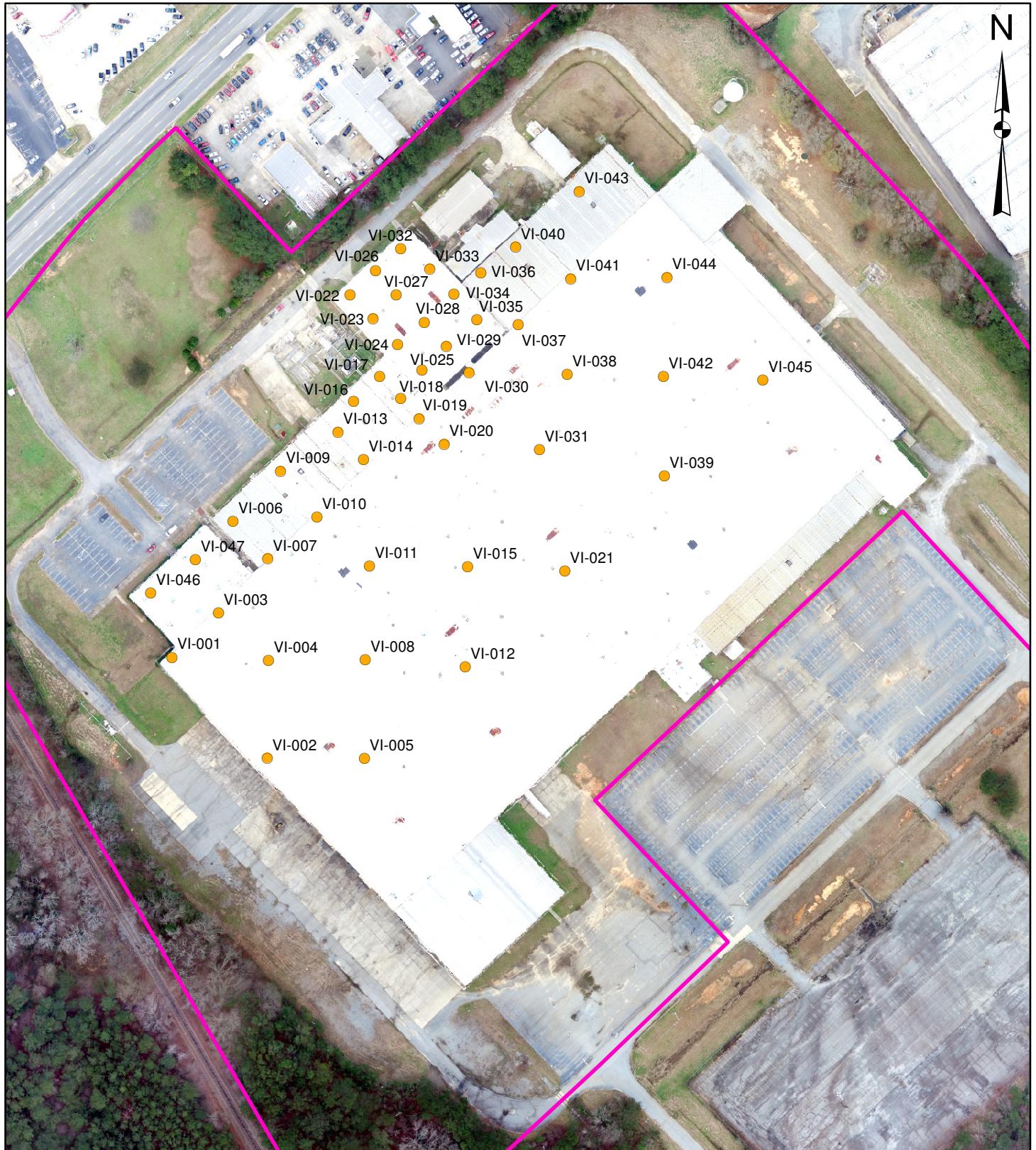


0 50 100
Feet

Legend

- Sub-Slab Depression Lines
- Access Vault
- Fan
- ☒ Closed Valve

Sub-Slab Depression System Layout
Rheem Manufacturing Company
Milledgeville, Georgia



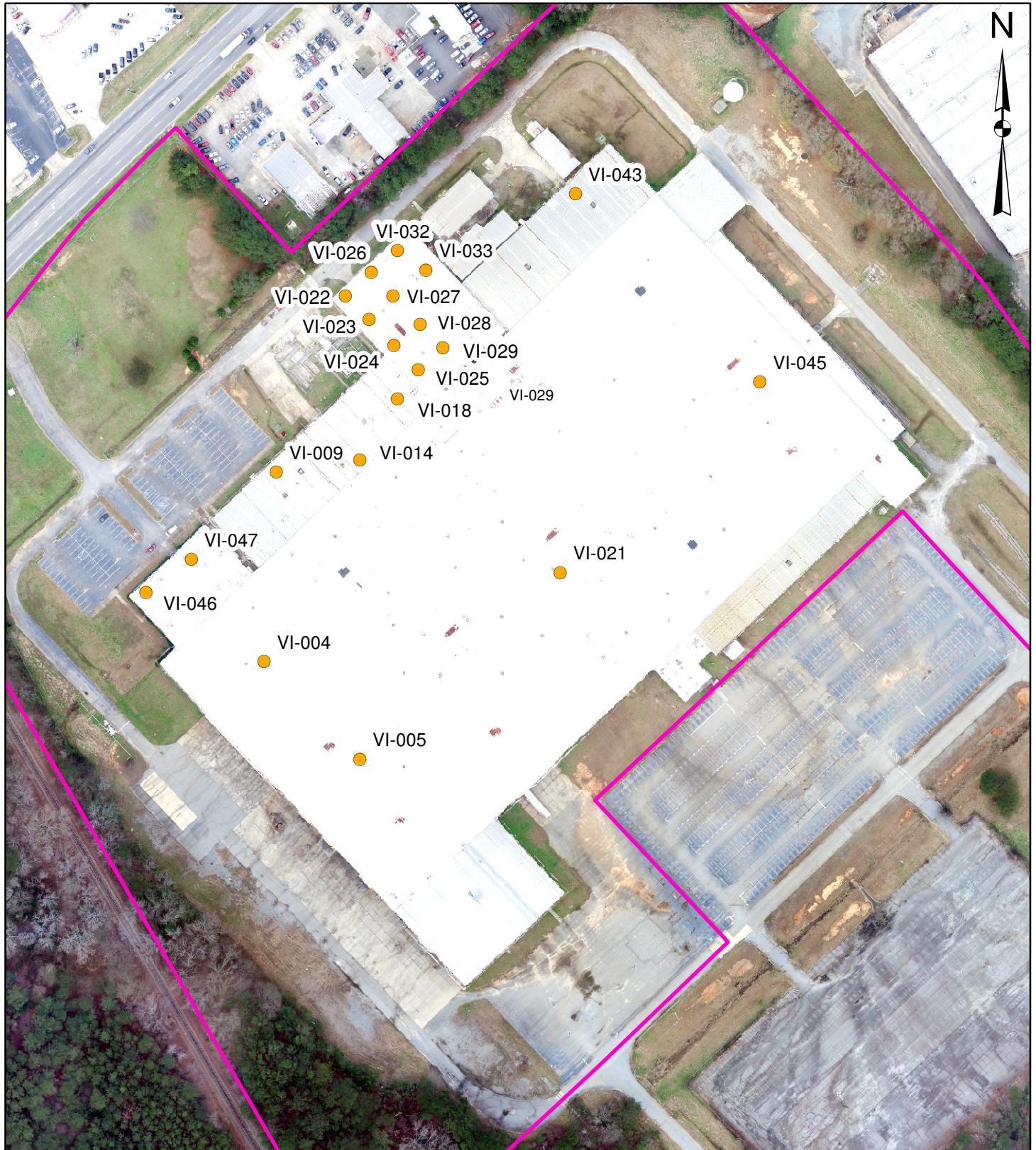
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Feet

Legend

- Sub-Slab Soil Gas Sampling Location
- Property Line

Historical Sub-Slab Soil Gas Sampling Locations

Rheem Manufacturing Company
Milledgeville, Georgia



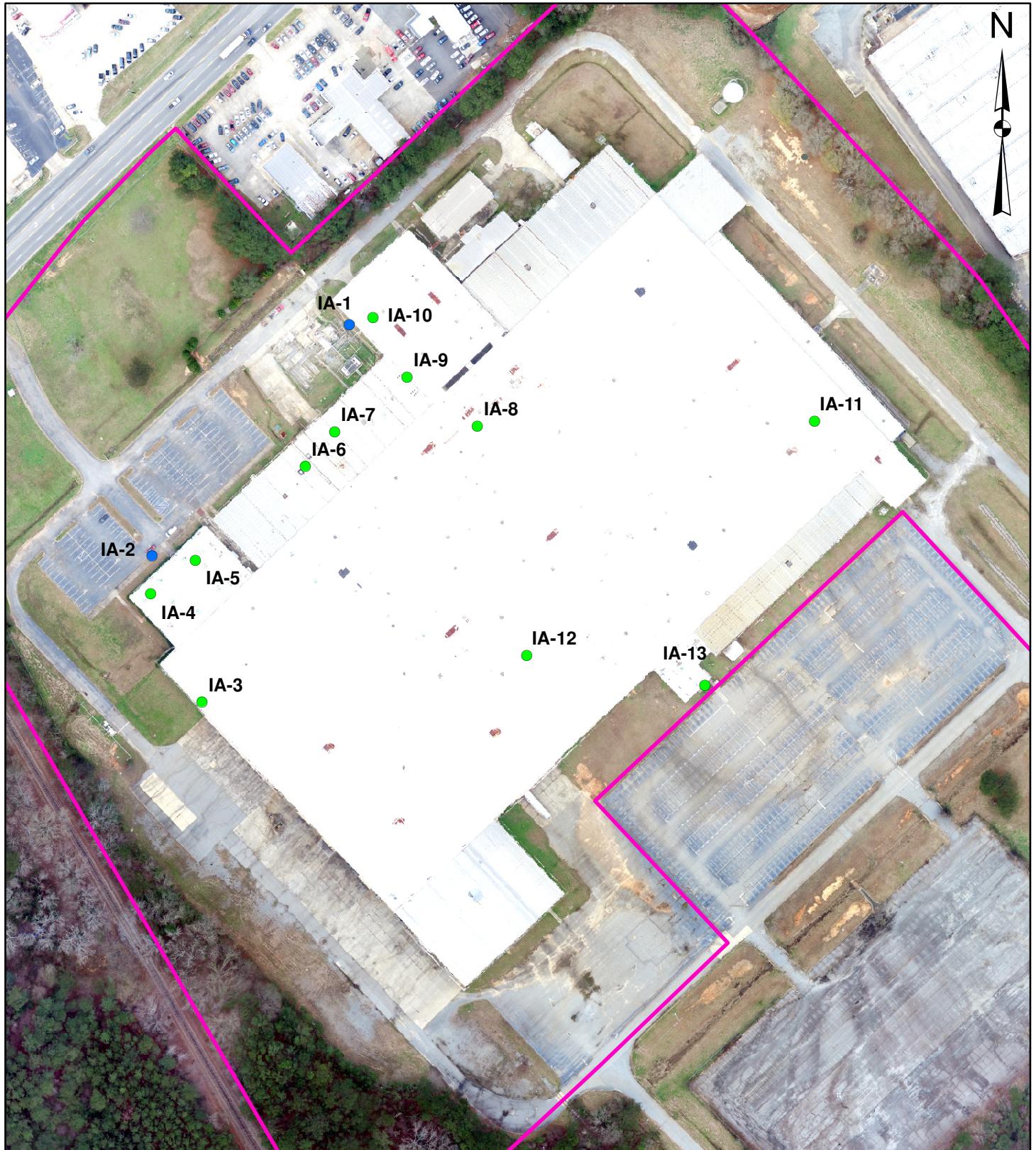
0 100 200
Feet

Legend

- Sub-Slab Soil Gas Sampling Location
- Property Line

Sub-Slab Soil Gas Sampling Locations (December 2016)

Rheem Manufacturing Company
Milledgeville, Georgia



0 100 200
Feet

Legend

- Indoor Air Sampling Location
- Ambient Air Sampling Location
- Property Line

Indoor/Ambient Air Sampling Locations

Rheem Manufacturing Company
Milledgeville, Georgia

[EPS](#)

TABLES

Table 1
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
MW-1	44	29 - 44	398.40	369.40 - 354.40	Saprolite/PWR	11/02/88
MW-2	39	29 - 39	398.83	369.83 - 359.83	Saprolite/PWR	11/11/88
MW-3	40	30 - 40	399.04	369.04 - 359.04	Saprolite	11/09/88
MW-3A	135.5	125.5 - 135.5	395.69	270.19 - 260.19	Bedrock	09/12/90
MW-3B	209	199 - 209	397.81	198.81 - 188.81	Bedrock	08/01/91
MW-4	24	14 - 24	398.40	384.40 - 374.40	Saprolite	11/08/88
MW-5	86.5	76.5 - 86.5	398.55	322.05 - 312.05	Bedrock	04/27/89
MW-6	125	120 - 125	398.02	278.02 - 273.02	Bedrock	05/18/89
MW-7	50	40 - 50	400.51	360.51 - 350.51	PWR	06/29/89
MW-8	51	41 - 51	396.01	355.01 - 345.01	PWR	06/30/89
MW-9	45	35 - 45	398.14	363.14 - 353.14	PWR	06/29/89
MW-10	43	33 - 43	399.69	366.69 - 356.69	PWR	07/05/89
MW-11	68	58 - 68	396.68	338.68 - 328.68	PWR	11/30/89
MW-12	54	44 - 54	399.31	355.31 - 345.31	PWR	11/20/89
MW-12A	94.5	84.5 - 94.5	399.31	314.81 - 304.81	Bedrock	09/13/90
MW-13	55	45 - 55	401.28	356.28 - 346.28	PWR	11/28/89
MW-14	49	39 - 49	403.89	364.89 - 354.89	PWR	11/21/89
MW-15	41.5	31.5 - 41.5	396.45	364.95 - 354.95	PWR	12/04/89
MW-16	35.5	25.5 - 35.5	396.88	371.38 - 361.38	PWR	12/05/89
MW-17	37	27 - 37	401.01	374.01 - 364.01	Saprolite/PWR	12/06/89
MW-18	17.5	2.5 - 17.5	400.16	397.66 - 382.66	Saprolite	12/06/89
MW-19	36	26 - 36	400.75	374.75 - 364.75	Saprolite/PWR	11/31/89
MW-20	24	9 - 24	393.29	384.29 - 369.29	Saprolite	01/23/90
MW-21	51	41 - 51	394.22	353.22 - 343.22	Saprolite	01/22/90
MW-22	80	70 - 80	397.00	327.00 - 317.00	Saprolite/PWR	06/20/91
MW-23	32	22 - 32	396.96	374.96 - 364.96	Saprolite	06/26/91
MW-24	195	175 - 195	396.82	221.82 - 201.82	Bedrock	06/08/10
MW-25	197	184 - 194	396.45	209.45 - 199.45	Bedrock	06/07/10
MW-26	131	121 - 131	399.13	278.13 - 268.13	Bedrock	06/09/10
MW-27	168	158 - 168	391.25	233.25 - 223.25	Bedrock	09/21/10
MW-28	100	90 - 100	391.58	301.58 - 291.58	Bedrock	09/23/10
MW-29	62	52 - 62	396.02	344.02 - 334.02	PWR	09/22/10
MW-30	73	63 - 73	404.98	341.98 - 331.98	PWR	09/24/10
MW-31	85	75 - 85	399.83	324.83 - 314.83	Saprolite/PWR/Bedrock	07/11/11
MW-32	87	77 - 87	389.26	312.26 - 302.26	Saprolite/PWR/Bedrock	07/11/11
MW-33	157	137 - 157	392.08	255.08 - 235.08	Bedrock	10/27/11
MW-34	182	172 - 182	352.76	180.76 - 170.76	PWR	07/12/12
MW-35	109	87 - 107	364.16	275.16 - 255.16	PWR	07/15/12
MW-36	62	50 - 60	339.48	287.48 - 277.48	PWR	09/20/12
MW-37S	40	30 - 40	389.69	359.69 - 349.69	PWR	09/21/12
MW-37D	87	77 - 87	389.71	312.71 - 302.71	PWR	09/21/12
MW-38S	40	30 - 40	389.88	359.88 - 349.88	PWR	09/22/12
MW-38D	77	67 - 77	389.82	322.82 - 312.82	PWR	09/22/12
MW-39	40	30 - 40	391.39	361.39 - 351.39	Saprolite	09/22/12
MW-40A	200	185 - 195	388.58	198.58 - 188.58	Bedrock	08/06/13
MW-40B	152*	140 - 150	388.58	246.58 - 236.58	Bedrock	08/06/13

Table 1
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
MW-40C	92*	80 - 90	388.57	306.57 - 296.57	Bedrock	08/06/13
MW-40D	72*	60 - 70	388.57	326.57 - 316.57	PWR	08/06/13
MW-40E	42*	30 - 40	388.59	356.59 - 346.59	PWR	08/06/13
MW-41A	200.5	195.5 - 200.5	391.80	196.3 - 191.3	Bedrock	07/28/13
MW-41B	142*	130 - 140	391.81	259.81 - 249.81	Bedrock	07/28/13
MW-41C	102*	90 - 100	391.81	299.81 - 289.81	Bedrock	07/28/13
MW-41D	82*	70 - 80	391.79	319.79 - 309.79	PWR	07/28/13
MW-41E	42*	30 - 40	391.80	359.80 - 349.80	PWR	07/28/13
MW-42A	200	182 - 192	390.96	200.96 - 190.96	Bedrock	08/05/13
MW-42B	174*	162 - 172	390.95	226.95 - 216.95	Bedrock	08/05/13
MW-42C	112*	100 - 110	390.91	288.91 - 278.91	Bedrock	08/05/13
MW-42D	85	75 - 85	390.92	315.92 - 305.92	PWR/Bedrock	08/06/13
MW-42E	42*	30 - 40	390.95	358.95 - 348.95	Saprolite/PWR	08/06/13
MW-43	112	97 - 107	392.91	290.91 - 280.91	PWR	08/10/13
MW-44	90	65 - 75	361.74	281.74 - 271.74	Bedrock	08/10/13
MW-45	95	85 - 95	393.98	308.98 - 298.98	PWR	12/17/13
MW-46	52	32 - 52	359.01	327.01 - 307.01	PWR	07/24/14
MW-47	94	74 - 94	347.98	273.98 - 253.98	Bedrock	07/25/14
MW-48A	98	78-98	NM	N/A	Bedrock	01/21/15
MW-48B	73*	62-72	NM	N/A	Bedrock	01/21/15
MW-48C	46*	35-45	NM	N/A	PWR	01/21/15
MW-49A	88	78-88	NM	N/A	Bedrock	01/22/15
MW-49B	69*	58-68	NM	N/A	PWR/Bedrock	01/22/15
MW-49C	41*	30-40	NM	N/A	Saprolite/PWR	01/22/15
MW-50A	138	123-138	NM	N/A	Bedrock	01/24/15
MW-50B	115*	104-114	NM	N/A	PWR/Bedrock	01/24/15
MW-50C	81*	70-80	NM	N/A	PWR	01/24/15
MW-51A	109	99-109	NM	N/A	Bedrock	01/26/15
MW-51B	95*	84-94	NM	N/A	PWR	01/26/15
MW-51C	61*	50-60	NM	N/A	PWR	01/26/15
MW-52A	144	125-135	NM	N/A	Bedrock	01/28/15
MW-52B	91*	80-90	NM	N/A	Bedrock	01/28/15
MW-52C	51*	40-50	NM	N/A	PWR	01/28/15
MW-53A	137	127-137	NM	N/A	Bedrock	01/30/15
MW-53B	121*	110-120	NM	N/A	Bedrock	01/30/15
MW-53C	81*	70-80	NM	N/A	PWR/Bedrock	01/30/15
MW-54	142	130-140	389.92	257.92 - 247.92	PWR	01/29/16
PZ-1	40	20 - 40	395.71	375.71 - 355.71	Saprolite	04/27/89
PZ-2 **	N/A	N/A	400.13	N/A	Saprolite	01/99 (1)
PZ-3	54	44 - 54	396.00	352.00 - 342.00	PWR	06/12/91
PZ-4	27.5	17.5 - 27.5	396.01	378.51 - 368.51	Saprolite	06/12/91
PZ-5	56	46 - 56	398.55	352.55 - 342.55	Saprolite	06/13/91
PZ-6	28	18 - 28	398.43	380.43 - 370.43	Saprolite	06/13/91
PZ-7	63	53 - 63	394.95	341.95 - 331.95	PWR	06/14/91
PZ-8	27	17 - 27	395.16	378.16 - 368.16	Saprolite	06/14/91
RW-1 ***	85	15 - 85	398.06	383.06 - 313.06	Saprolite/PWR	01/99 (2)

Table 1
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
RW-2	90	20 - 90	399.25	379.25 - 309.25	Saprolite/PWR	06/30/91
RW-3	181	36 - 181	397.35	361.35 - 316.35	Saprolite/PWR/Bedrock	08/15/91
RW-4	73	28 - 73	398.10	370.10 - 325.10	Saprolite/PWR/Bedrock	07/26/91
ART-1	106	6-66, 76-106	394.05	388.05-328.05, 318.05-288.05	Saprolite/PWR/Bedrock	09/23/12
ART-2	105	10-55, 65-105	393.64	383.64-338.64, 328.64-288.64	Saprolite/PWR/Bedrock	09/24/12
ART-3	125	12-72, 82-102, 105-125	394.84	382.84-322.84, 312.84-292.84, 289.84-269.84	Saprolite/PWR/Bedrock	07/23/13
ART-4	120	12-67, 77-97, 100-120	393.71	381.71-326.71, 316.71-296.71, 293.71-273.91	Saprolite/PWR/Bedrock	07/25/13
ART-5	120	12-67, 77-97, 100-120	393.56	381.56-326.56, 316.56-296.56, 293.56-273.56	Saprolite/PWR/Bedrock	07/28/13
ART-6	125	15-95, 105-125	396.29	381.29-301.29, 291.29-271.29	Saprolite/PWR/Bedrock	02/19/16
ART-7	120	10-90, 100-120	395.49	385.92-305.92, 295.92-275.92	Saprolite/PWR	02/22/16
ART-8	120	10-90, 100-120	395.92	385.49-305.49, 295.49-275.50	Saprolite/PWR	02/25/16
IW-1	88*	38-48, 53-68, 73-88	NM	N/A	Saprolite/PWR/Bedrock	10/04/16
IW-2	106*	31-46, 51-66, 71-86, 91-106	NM	N/A	Saprolite/PWR/Bedrock	10/06/16
IW-3	116*	29-39, 44-54, 59-74, 79-94, 100-115	NM	N/A	Saprolite/PWR/Bedrock	10/08/16
IW-4	116*	20-35, 40-55, 60-75, 80-95, 100-115	NM	N/A	Saprolite/PWR/Bedrock	10/09/16
IW-5	118*	23-38, 43-58, 63-78, 83-98, 103-118	NM	N/A	Saprolite/PWR/Bedrock	10/11/16

Notes:

ft-bgs: feet below ground surface

ft-amsl: feet above mean sea level

PWR: partially weathered rock

N/A: Information currently not available

NM: Not Measured

* Depth to bottom of sand pack. Well clusters were installed in single boring.

** The original PZ-2 installation date is unknown. The well was replaced in 1/99 due to destruction by a run-away trailer from Roberson Mill Road.

*** The original RW-1 was installed in 6/21/89. The well was replaced in 1/99 due to collapse of the well.

Table 2
Groundwater Elevation Summary - Off-Property Monitoring Wells
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Date Measured	Top of Casing Elevation (ft-amls)	Depth to Groundwater (ft)	Groundwater Elevation (ft-amls)
MW-33	03/08/17	392.08	29.91	362.17
MW-34	03/08/17	352.76	1.16	351.60
MW-35	03/08/17	364.16	0.20	363.96
MW-36	03/08/17	339.48	4.22	335.26
MW-43	03/08/17	392.91	26.41	366.50
MW-44	03/08/17	361.74	7.33	354.41
MW-45	03/07/17	393.98	24.30	369.68
MW-46	03/08/17	359.01	2.61	356.40
MW-47	03/08/17	347.98	4.78	343.20
MW-54	03/07/17	389.92	19.15	370.77

Notes:

ft-amls: feet above mean sea level

Table 3
Groundwater TCE Sampling Results - Off-Property Monitoring Wells
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	2012	2013		2014			2015		2016			2017
	Dec	Jun	Aug	Mar	Jul	Sep	Mar	Oct	Feb	Apr	Oct	Mar
MW-33	100	53		36		86	140	150		90	170	100
MW-34	45			41		48	53	57		60	58	66
MW-35	ND			NA		ND	NA	NA		ND	ND	ND
MW-36	ND	ND		ND		ND	ND	ND		ND	ND	ND
MW-43			170	150		150	170	140		150	160	83
MW-44			ND	ND		ND	ND	ND		ND	ND	ND
MW-45				ND		ND	ND	ND		ND	ND	ND
MW-46					9.8	15	15	21		23	24	22
MW-47					ND	ND	ND	ND		ND	ND	ND
MW-54									ND	ND	ND	ND

Notes:

Results are in micrograms per liter ($\mu\text{g}/\text{L}$)

ND: Not Detected

NA: Well Not Accessible

Blank: Well Not Sampled

Table 4
Summary of Off-Property Soil Gas Data
Rheem Manufacturing Company
Milledgeville, Georgia

SAMPLE LOCATION	Land Parcel (East/West of Roberson Mill Road)	1,2,4-Trimethylbenzene ($\mu\text{g/L}$)	1,2-Dichloroethane ($\mu\text{g/L}$)	1,3,5-Trimethylbenzene ($\mu\text{g/L}$)	2-Butanone (MEK) ($\mu\text{g/L}$)	2-Hexanone ($\mu\text{g/L}$)	4-Ethyltoluene ($\mu\text{g/L}$)	4-Methyl-2-pentanone ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Carbon disulfide ($\mu\text{g/L}$)	Chloroform ($\mu\text{g/L}$)	Chloromethane ($\mu\text{g/L}$)	cis-1,2-Dichloroethene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Styrene ($\mu\text{g/L}$)	Tetrachloroethene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Trichloroethene ($\mu\text{g/L}$)	Xylenes (unspecified) ($\mu\text{g/L}$)
TESGCs (Commercial)		240	36	N/A	170,000	1,000	N/A	100,000	120	24,000	41	3,100	N/A	370	35,000	1,400	170,000	70	3,500
GP-SG-1	East	7.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.9	BDL	BDL	
GP-SG-2		91	12	44	BDL	BDL	12	BDL	140	BDL	BDL	BDL	BDL	77	BDL	BDL	500	BDL	260
GP-SG-6		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.8	BDL	BDL	65	BDL	40
OFFSG-1		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
OFFSG-2		120	BDL	42	45	5.9	BDL	210	BDL	BDL	BDL	BDL	BDL	6.9	BDL	BDL	16	BDL	50
OFFSG-3		150	BDL	62	150	14	BDL	250	5.6	5.1	BDL	BDL	BDL	13	BDL	BDL	31	12	80
GP-SG-3	West	21	BDL	5.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	9.1
GP-SG-4		280	BDL	180	59	BDL	49	170	51	26	15	2.4	BDL	91	6.6	13	200	BDL	438
GP-SG-5		BDL	BDL	BDL	BDL	BDL	BDL	66	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL	23.5
OFFSG-4		76	BDL	29	14	BDL	BDL	53	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	BDL	24
OFFSG-5		16	BDL	6.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.2	BDL	BDL	4.9	BDL	BDL
OFFSG-6		80	BDL	28	BDL	BDL	BDL	58	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7	BDL	23

Notes:

$\mu\text{g}/\text{m}^3$: micrograms per cubic meter

TESGC: Target Exterior Soil Gas Sample ($\text{CR} = 10^{-5}$, $\text{HQ} = 1$) from EPA VISL Calculator

BDL: Below Detection Limit

NR: Not Reported

Red text indicates TESGC exceedance.

Table 5
Groundwater TCE Sampling Results - Injection Wells (December 2016)
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Well Depth (ft BTOC)	Screened Interval (ft-bgs)	Geology	1,1,2-Trichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)
IW-2A	103.21	91-106	Bedrock	23	18	ND	180	9.3	56,000
IW-3A	114.89	100-115	Bedrock	ND	11	25	41	6.3	4,600
IW-4A	115.72	100-115	Bedrock	ND	ND	11	23	ND	140
IW-4B	95.84	80-95	Bedrock	ND	76	8.7	30	73	880
IW-5A	117.52	103-118	Bedrock	ND	ND	9.5	65	ND	270
IW-5B	96.66	83-98	Bedrock	ND	41	11	28	25	280

Notes:

ft BTOC: feet below top of casing

ft-bgs: feet below ground surface

µg/L: micrograms per liter

ND: Not Detected

Table 6
Groundwater Bioremediation Pilot Study Injection Summary
Rheem Manufacturing Company
Milledgeville, Georgia

Well Cluster	Treatment Zone	Well ID	Well Depth (ft BTOC)	Screened Interval (ft-bgs)	Geology	Target EVO Injection Volume (gal)	Actual EVO Volume Injected (gal)	Injection Rate (gal/min)	Injection Duration (hrs)	Average Injection Pressure (psi)	Target TSI DC Added (L)	Actual TSI DC Added (L)
IW-1	Plume Zone	IW-1C	47.43	38-48	Saprolite	No injection based on Oct 2016 MW-48C sampling (TCE = ND)						
		IW-1B	66.48	53-68	Weathered Rock	3,607	3,608	4.9	12.22	44	3.6	3.6
		IW-1A	87.24	73-88	Bedrock	442	443	0.4	20.94	49	0.9	0.9
IW-2	Plume Zone	IW-2D	47.09	31-46	Saprolite	No injection based on Oct 2016 MW-48C sampling (TCE = ND)						
		IW-2C	67.15	51-66	Weathered Rock	3,607	3,705	2.9	21.41	29	3.6	3.6
		IW-2B	84.64	71-86	Weathered Rock	3,607	3,628	3.4	17.79	29	3.6	3.6
		IW-2A	103.21	91-106	Bedrock	442	471	0.5	16.54	31	0.9	1.8
IW-3	Plume Zone	IW-3E	39.95	29-39	Saprolite	No injection based on Oct 2016 MW-48C sampling (TCE = ND)						
		IW-3D	53.60	44-54	Weathered Rock	2,704	2,705	3.5	12.88	29	2.7	2.7
		IW-3C	70.84	59-74	Weathered Rock	3,607	3,608	2.0	30.67	49	3.6	3.6
		IW-3B	93.64	79-94	Bedrock	442	442	2.0	3.73	49	0.9	0.9
		IW-3A	114.89	100-115	Bedrock	442	318	0.1	38.87**	44	0.9	0.9
IW-4	Release Area Zone	IW-4E	35.40	20-35	Saprolite	841	684*	4.5	2.55	20	3.6	3.6
		IW-4D	55.35	40-55	Saprolite	841	847	3.9	3.63	23	3.6	3.6
		IW-4C	75.75	60-75	Weathered Rock	3,613	3,614	2.1	28.53	26	3.6	3.6
		IW-4B	95.84	80-95	Bedrock	575	590	0.8	12.91	24	0.9	0.9
		IW-4A	115.72	100-115	Bedrock	No injection based on Dec 2016 IW-4A sampling (TCE = 140 µg/L)						
IW-5	Release Area Zone	IW-5E	38.30	23-38	Saprolite	841	2,431	3.9	10.45	19	3.6	3.6
		IW-5D	58.16	43-58	Saprolite	841	1,032	0.8	20.73	30	3.6	3.6
		IW-5C	77.31	63-78	Weathered Rock	3,613	2,615	1.0	42.47	34	3.6	3.6
		IW-5B	96.66	83-98	Bedrock	575	581	1.3	7.65	26	0.9	0.9
		IW-5A	117.52	103-118	Bedrock	No injection based on Dec 2016 IW-5A sampling (TCE = 270 µg/L)						

Notes:

ft BTOC: feet below top of casing

ft-bgs: feet below ground surface

EVO: emulsified vegetable oil

gas: gallons

gal/min: gallons per minute

hrs: hours

TSI DC:Terra System, Inc. Dehalococcoides culture

psi: pounds per square inch

L: liters

*Daylighting observed during IW-4E injection

**IW-3A run time does not include ~5 day gravity feed (~42.35 gallons injected)

Table 7
Groundwater Sampling Results - Bioremediation Pilot Test Performance Wells
Rheem Manufacturing Company
Milledgeville, Georgia

Sample Location	Screened/ Open Depth Interval (ft-bgs)	Hydrogeologic Setting of Screened Interval	Associated Injection Wells	Date Sampled	Trichloro-ethene (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	Vinyl Chloride (µg/L)	TOC (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	DO (mg/L)	ORP (mV)
MW-1	29-44	Saprolite/PWR	IW-4D/E, IW-5D/E	10/26/16	17,000	ND	ND	ND	1.71	ND	ND	ND	0.31	6.1	6.67	305
				03/28/17	560	12	ND	ND	ND	ND	ND	ND	0.26	5.6	8.05	239
				04/28/17	440	8.5	ND	ND	ND	ND	ND	ND	N/A	N/A	7.54	149
MW-5	76.5-86.5	Bedrock	IW-4B/C, IW-5B/C	10/26/16	250,000	ND	ND	ND	3.96	ND	ND	ND	ND	2.1	0.41	-23
				03/28/17	140,000	2,500	ND	2.9	5.85	ND	ND	ND	ND	1.7	0.00	50
				04/28/17	190,000	2,600	ND	ND	9.63	ND	ND	ND	N/A	N/A	5.01	-86
MW-9	35-45	PWR	IW-4D/E, IW-5D/E	10/24/16	5,500	98	ND	ND	ND	ND	ND	ND	0.39	12	2.53	177
				03/28/17	690	3,300	ND	2.8	8.94	ND	ND	ND	ND	3	0.02	-146
				04/28/17	2,200	3,400	14	2.1	6.74	ND	ND	ND	N/A	N/A	2.20	-160
MW-48A	78-98	Bedrock	IW-1A, IW-2A/B, IW-3A/B	10/28/16	48,000	ND	ND	ND	ND	ND	ND	ND	0.46	3.2	1.00	9
				03/28/17	31,000	960	ND	ND	4.45	9.9	15	ND	ND	4.8	0.00	36
				04/28/17	18,000	390	ND	ND	2.89	13	19	ND	N/A	N/A	1.14	-53
MW-48B	62-72	PWR	IW-1B/B, IW-2B/C, IW-3C	10/28/16	34,000	ND	ND	ND	ND	ND	ND	ND	0.73	2	3.66	220
				03/28/17	47,000	330	ND	ND	4.34	ND	ND	ND	ND	1.4	0.00	-44
				04/28/17	34,000	670	ND	ND	3.95	ND	ND	ND	N/A	N/A	0.54	-3
PZ-7	53-63	PWR	IW-1B/C, IW-2C/D, IW-3C/D	10/25/16	15,000	ND	ND	ND	ND	ND	ND	39	0.66	1.4	4.99	437
				03/28/17	30,000	1,200	ND	ND	9.26	ND	ND	ND	ND	ND	0.00	-59
				04/28/17	8,500	9,500	73	5.5	10.5	ND	ND	4.3	N/A	N/A	0.95	-110

Notes:

ft-bgs: feet below ground surface

µg/L: micrograms per liter

mg/L: milligrams per liter

DO: Dissolved Oxygen

ORP: Oxidation-Reduction Potential

mV: millivolts

PWR: Partially Weathered Rock

ND: Not Detected

N/A: Not Applicable

Table 8
Groundwater TCE Sampling Results - ART Performance Monitoring Wells
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Well Screen Interval (ft-bgs)/Lithology	Distance to Nearest ART Well (ft)	Analyte	2010			2011		2012			2013		2014								2015			2016		2017			
				Sep	Nov	Dec	Jun	Dec	Jun	Oct	Dec	Jan	Jun	Oct	Feb	Mar	Apr	May	Jun	Jul	Sep	Oct	Dec	Feb	Apr	Dec	Jun	Oct	Mar	
MW-39	30-40 Soil	35	cis-1,2-Dichloroethene						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Tetrachloroethene						5.1	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Trichloroethene						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Vinyl chloride						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-28	90-100 PWR	30'	cis-1,2-Dichloroethene	36	49				86	80	77		52	9.1	7.2	ND	ND	ND	6.6	11	9	13	ND	ND	ND		ND	ND	10	
			Tetrachloroethene	ND	ND				ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Trichloroethene	920	1,300	1,100	1,400	2,500	1,500	1,800	1,500	1,500	970	890	190	130	90	76	71	120	180	150	210	120	47	79		56	190	
			Vinyl chloride	ND	ND				ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-27	158-168 Bedrock	34	cis-1,2-Dichloroethene	5.4									14	12	13	9.9	8.9	9.4	9.0	11	9.1	9.0	8.4	7.7	8.0		7.1	5.8		
			Tetrachloroethene	ND									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
			Trichloroethene	45		59	60	47		48		53	23	16	14	12	11	10	9.6	9.5	8.2	7.5	10	8.4	8.1		13	9.3		
			Vinyl chloride	ND									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-37S	30-40 Soil	22	cis-1,2-Dichloroethene						ND	ND	ND		ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND
			Trichloroethene						ND	9.9	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Vinyl chloride						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-37D	77-87 PWR	22	cis-1,2-Dichloroethene						20	27	33		150	21	21	18	13	9.7	7.6	7.5	5.6	7.7	6.3	6.7	ND		ND	ND	ND	
			Tetrachloroethene						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
			Trichloroethene						370	320	310		20	120	160	88	110	110	88	81	75	72	100	61	53		41	50		
			Vinyl chloride						ND	ND	ND		34	13	9.3	20	5.3	4.4	4.6	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-38S	30-40 Soil	15	cis-1,2-Dichloroethene						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Tetrachloroethene						5.2	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Trichloroethene						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			Vinyl chloride						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-38D	67-77 PWR	15	cis-1,2-Dichloroethene						34	50	62		27	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND
			Trichloroethene						720	610	670		270	41	33	23	18	17	13	11	11	9	12	7.3	6.8		11	41		
			Vinyl chloride						ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-41A	195.5-200.5 Bedrock	24	cis-1,2-Dichloroethene										ND														ND	ND	ND	
			Tetrachloroethene										ND														ND	ND	ND	
			Trichloroethene										ND														ND	ND	ND	
			Vinyl chloride										ND														ND	ND	ND	
MW-41B	130-140 Bedrock	24	cis-1,2-Dichloroethene										ND														ND	ND	ND	
			Tetrachloroethene										ND														ND	ND	ND	
			Trichloroethene										6.5														ND	ND	ND	
			Vinyl chloride										ND														ND	ND	ND	
MW-41C	90-100 Bedrock	24	cis-1,2-Dichloroethene										ND														ND	10	12	
			Tetrachloroethene										ND														ND	ND	ND	
			Trichloroethene										15														5.6	65	110	
			Vinyl chloride										ND														ND	ND	ND	
MW-41D	70-80 PWR	24	cis-1,2-Dichloroethene										15														29	12	8.8	
			Tetrachloroethene										ND														ND	ND	ND	
			Trichloroethene										350														150	130	110	
			Vinyl chloride										ND														ND	ND	ND	

Table 8
Groundwater TCE Sampling Results - ART Performance Monitoring Wells
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Well Screen Interval (ft-bgs)/Lithology	Distance to Nearest ART Well (ft)	Analyte	2010			2011			2012			2013			2014									2015			2016		2017
				Sep	Nov	Dec	Jun	Dec	Jun	Oct	Dec	Jan	Jun	Oct	Feb	Mar	Apr	May	Jun	Jul	Sep	Oct	Dec	Feb	Apr	Dec	Jun	Oct	Mar	
MW-41E	30-40 PWR	24	cis-1,2-Dichloroethene											ND								ND						8.9	5.8	10
			Tetrachloroethene											ND								ND						ND	ND	ND
			Trichloroethene											ND								ND						ND	ND	ND
			Vinyl chloride											ND								ND						ND	ND	ND
MW-42A	182-192 Bedrock	26	cis-1,2-Dichloroethene											ND								ND						ND	ND	ND
			Tetrachloroethene											ND								ND						ND	ND	ND
			Trichloroethene											ND								ND						ND	ND	ND
			Vinyl chloride											ND								ND						ND	ND	ND
MW-42B	162-172 Bedrock	26	cis-1,2-Dichloroethene											ND								ND						ND	ND	ND
			Tetrachloroethene											ND								ND						ND	ND	ND
			Trichloroethene											ND								ND						ND	ND	ND
			Vinyl chloride											ND								ND						ND	ND	ND
MW-42C	100-110 Bedrock	26	cis-1,2-Dichloroethene											ND								ND						ND	6.9	11
			Tetrachloroethene											ND								ND						ND	ND	ND
			Trichloroethene											11								ND						6.3	ND	ND
			Vinyl chloride											ND								ND						ND	ND	ND
MW-42D	75-85 PWR/Bedrock	26	cis-1,2-Dichloroethene											5.2								17						8.7	ND	29
			Tetrachloroethene											ND								ND						ND	ND	ND
			Trichloroethene											27								75						38	58	11
			Vinyl chloride											ND								ND						ND	ND	ND
MW-42E	30-40 Saprolite/PWR	26	cis-1,2-Dichloroethene											ND								ND						ND	ND	ND
			Tetrachloroethene											ND								ND						ND	ND	ND
			Trichloroethene											15								27						9.9	19	39
			Vinyl chloride											ND								ND						ND	ND	ND

Notes:

Results are in micrograms per liter ($\mu\text{g/L}$)

PWR: Partially Weathered Rock

ft-bgs: feet below ground surface

ND: Not Detected

- Original Baseline Event (ART-1, ART-2 pilot test)
- Second Baseline Event (ART-3, ART-4, ART-5 pilot test)
- Third Baseline Event (ART-3, ART-4, ART-5, ART-6, ART-7, ART-8 full scale operation)

Table 9
Sub-Slab Soil Gas Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Sample Depth (ft-bgs)	Date Sampled	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	4-Bromofluorobenzene	4-Ethyltoluene	4-Methyl-2-pentanone	Benzene	Carbon disulfide	Carbon tetrachloride	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dibromofluoromethane	Dichloromethane (Methylene chloride)	Ethyl benzene	Freon-12	Isopropylbenzene	m&p-Xylene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	
		Non-Residential TSSSGC*	730,000	2,600	29,000	1,000	N/A	730,000	N/A	N/A	440,000	520	100,000	680	180	13,000	N/A	N/A	88,000	1,600	15,000	58,000	15,000	15,000	150,000	5,800	730,000	N/A	290	
VI-001	0.5	09/04/14	ND	ND	170	44	ND	333	37	ND	65	ND	ND	ND	ND	21			ND	130	ND	5.6	470	150	ND	ND	550	ND	1,800	
VI-002	0.5	09/04/14	ND	ND	ND	70	18	ND	356	15	ND	16	ND	ND	ND	ND			3.7	23	ND	ND	120	37	ND	ND	110	ND	61	
VI-003	0.5	09/04/14	ND	ND	ND	34	11	ND	360	6.2	ND	45	ND	ND	5.1	11	190		ND	31	ND	ND	120	41	ND	13	140	20	1,600	
VI-004	0.5	09/04/14	ND	ND	ND	110	26	ND	361	25	ND	18	ND	ND	5.2	ND	ND		ND	35	ND	ND	180	65	ND	6.9	130	ND	5,300	
		12/13/16	ND	ND	ND	6	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	8.7	ND		23	8.9	ND	97	23	ND	2,600	
VI-005	0.5	09/04/14	ND	ND	ND	140	33	ND	358	28	ND	17	ND	ND	ND	ND	ND		ND	38	ND	ND	190	72	ND	11	130	ND	3,900	
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	5.3	ND		12	6.2	ND	190	5.9	ND	3,400	
VI-006	0.5	09/03/14	ND	ND	ND	51	ND	ND	366	ND	ND	29	ND	ND	ND	ND	ND		ND	32	ND	ND	160	43	ND	56	180	ND	16,000	
VI-007	0.5	09/04/14	ND	ND	ND	170	56	ND	356	32	ND	46	ND	ND	ND	ND	ND		ND	41	ND	ND	220	67	ND	ND	180	ND	6,100	
VI-008	0.5	09/04/14	ND	ND	ND	100	27	ND	353	19	14	33	ND	ND	2.3	ND		ND	39	ND	ND	180	62	ND	15	150	ND	150		
VI-009	0.5	09/03/14	ND	ND	ND	59	ND	ND	355	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	97	28	ND	ND	90	ND	11,000		
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	4.2	ND	ND	ND	ND	ND		ND	ND	ND	9.4	4.6	ND	86	6.3	ND	2,500		
VI-010	0.5	09/04/14	ND	ND	6	390	100	ND	338	91	ND	61	ND	ND	2.9	ND		ND	280	ND	14	1,000	370	5.5	29	940	ND	99		
VI-011	0.5	09/05/14	ND	ND	97	130	38	ND	361	24	ND	36	ND	ND	2.1	ND		9	82	ND	ND	280	120	6.6	49	350	ND	2,100		
VI-012	0.5	09/04/14	ND	ND	ND	33	ND	ND	351	ND	ND	ND	ND	ND	25	ND		ND	ND	ND	ND	95	31	ND	310	28	ND	15,000		
VI-013	0.5	09/03/14	ND	ND	54	75	21	31	374	16	ND	13	ND	ND	90	ND	4,000		3.8	44	ND	ND	180	61	ND	29	180	260	6,600	
VI-014	0.5	09/04/14	1,500	ND	ND	ND	ND	2,530		ND	ND		ND	2,800	ND	43,000	2,430	ND	ND	ND	ND	ND	ND	ND	ND	260	ND	10,000	130,000	
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	2,200	ND	46,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000	90,000	
VI-015	0.5	09/04/14	17	ND	ND	81	27	150	352	15	180	68	6.9	ND	ND	2.1	ND		4.1	410	ND	8.7	1,500	480	11	430	160	ND	110	
VI-016	0.5	09/03/14	ND	ND	48	81	18	ND	365	19	ND	6.6	ND	ND	43	ND	79		3.8	23	7.3	ND	120	41	ND	76	120	52	60,000	
VI-017	0.5	09/03/14	ND	ND	ND	ND	ND	ND	2,340		ND	ND		ND	ND	ND	3,200	2,440	ND	ND	1,100	ND	ND	ND	ND	ND	ND	ND	41,000	
VI-018	0.5	09/04/14	ND	ND	ND	ND	ND	ND	2,740		ND	ND		ND	380	ND	2,100	2,570	540	ND	ND	ND	ND	ND	ND	ND	230	ND	ND	180,000
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	310		ND	ND	ND	ND	ND	ND	ND	43	ND	48	3,000	
VI-019	0.5	09/03/14	ND	ND	7,300	ND	ND	ND	2,520		ND	ND		ND	2,600	ND	320,000	2,210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47,000
VI-020	0.5	09/04/14	1,400	1,200	270	78	34	360	321	14	46	56	53	ND	43	2.7	1,400		23	41	ND	7.2	150	76	4.5	560	160	15	8,400	
VI-021	0.5	09/04/14	730	54	110	250	87	ND	353	55	ND	28	ND	ND	45	ND	ND		ND	580	ND	ND	2,400	550	ND	20,000	260	ND	3,900	
		12/13/16	110	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	46	ND		56	45	ND	4,100	ND	ND	4,500	
VI-022	0.5	09/03/14	ND	ND	ND	ND	ND	ND	2,420		ND	ND		ND	15,000	ND	ND	2,610	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,800,000	
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	8.8	ND	ND	ND	21	ND	35	
VI-023	0.5	09/03/14	ND	ND	ND	ND	ND	ND	2,400		ND	ND		ND	78,000	ND														

Table 9
Sub-Slab Soil Gas Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Sample Depth (ft-bgs)	Date Sampled	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	4-Bromofluorobenzene	4-Ethyltoluene	4-Methyl-2-pentanone	Benzene	Carbon disulfide	Carbon tetrachloride	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dibromofluoromethane	Dichloromethane (Methylene chloride)	Ethyl benzene	Freon-12	Isopropylbenzene	m&p-Xylene	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene				
		Non-Residential TSSSGC*	730,000	2,600	29,000	1,000	N/A	730,000	N/A	N/A	440,000	520	100,000	680	180	13,000	N/A	N/A	88,000	1,600	15,000	58,000	15,000	15,000	150,000	5,800	730,000	N/A	290				
VI-029	0.5	09/03/14	ND	ND	ND	ND	ND	ND	2,490		ND	ND		ND	490	ND	2,200	2,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250,000				
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12,000				
VI-030	0.5	09/04/14	ND	ND	ND	48	ND	ND	362	ND	ND	44	ND	ND	ND	ND	ND	ND	ND	ND	180	ND	ND	1600	500	ND	450	130	ND	750			
VI-031	0.5	09/04/14	7	ND	ND	270	130	ND	370	58	21	66	ND	ND	ND	ND	ND	ND	ND	110	ND	14	430	170	ND	29	250	ND	770				
VI-032	0.5	09/04/14	ND	ND	32,000	ND	ND	ND	2,730		ND	ND	ND	ND	ND	2,200	ND	6,600	2,470	ND	ND	ND	ND	ND	ND	170,000	ND	ND	ND	110,000			
		12/14/16	ND	ND	ND	5.9	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	ND	150		
VI-033	0.5	09/04/14	ND	ND	1,900	ND	ND	ND	2,640		ND	ND		ND	150	ND	ND	2,460	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35,000	ND	ND	170,000	
		12/14/16	ND	ND	ND	10	ND	ND		ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	9.9	ND		41	13	ND	27	27	ND	270			
VI-034	0.5	09/04/14	ND	ND	ND	ND	ND	ND	2,590		ND	ND		ND	ND	ND	ND	ND	2,560	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320	ND	ND	49,000
VI-035	0.5	09/04/14	ND	ND	ND	170	43	ND	343	32	9	18	ND	ND	6.6	ND	ND	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,200		
VI-036	0.5	09/04/14	ND	ND	ND	69	16	ND	355	15	ND	14	26	ND	ND	ND	ND	ND	ND	34	ND	ND	ND	130	45	ND	140	96	ND	55			
VI-037	0.5	09/04/14	ND	ND	ND	39	7.9	ND	361	7.7	ND	18	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	93	36	ND	160	120	ND	160			
VI-038	0.5	09/04/14	ND	ND	19	68	19	57	354	13	ND	32	ND	ND	2.3	ND	7.1	44	ND	ND	ND	ND	ND	ND	160	70	5.5	23	660	ND	44		
VI-039	0.5	09/04/14	ND	ND	190	51	14	ND	359	27	ND	17	ND	ND	4.1	ND	ND	ND	21	ND	ND	ND	130	42	ND	320	64	ND	ND	630			
VI-040	0.5	09/04/14	16	ND	ND	54	15	ND	358	12	ND	14	ND	ND	3	ND	ND	ND	22	ND	ND	ND	98	34	ND	85	92	ND	20				
VI-041	0.5	09/04/14	34,000	560	31	100	31	ND	365	20	ND	19	ND	ND	ND	ND	ND	ND	32	ND	ND	ND	160	56	ND	5,000	120	ND	190				
VI-042	0.5	09/04/14	110	ND	9,300	ND	ND	ND	347	ND	ND	24	ND	ND	ND	ND	ND	ND	34	ND	ND	ND	110	95	ND	2,300	69	ND	230				
VI-043	0.5	09/04/14	ND	ND	30	56	ND	ND	350	ND	ND	18	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	86	28	ND	2,400	110	ND	20,000			
		12/13/16	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17,000			
VI-044	0.5	09/04/14	ND	ND	ND	230	90	33	364	45	33	55	ND	ND	13	ND	ND	ND	3.5	71	ND	8.6	360	130	ND	100	230	ND	ND	140			
VI-045	0.5	09/04/14	40,000	1,100	460,000	ND	ND	ND	2,620		ND	ND		ND	170	ND	ND	2,830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13,000		
		12/14/16	ND	ND	290,000	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,800		
VI-046	0.5	09/04/14	ND	ND	ND	130	40	590	360	19	34	22	9.8	ND	ND	ND	ND	ND	5.4	31	ND	ND	150	56	6.4	ND	240	ND	ND	73			
		12/14/16	13	ND	140	12	5.6	ND		ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	4.5	ND		21	8.6	ND	370	8.4	ND	150				
VI-047	0.5	09/04/14	ND	ND	ND	62	20	ND	364	9.3	ND	19	ND	ND	ND	ND	ND	ND	84	ND	18	ND	ND	98	37	ND	ND	100	9	760			
		12/14/16	10	ND	120	8	ND	ND		ND	ND	7.3	ND	ND	ND	ND	ND	ND	ND	6.2	ND		25	8.4	ND	280	39	ND	ND	110			

Notes:

µg/m³: mic micrograms per cumbic meter

TSSSGC: Ta Target Sub-Slab Soil Gas Concentration

N/A: Not A not applicable

ft-bgs: feet feet below ground surface

ND: non-detect non- detect

*lower of carcinogenic (Target Cancer Risk of 10⁻⁵) or non-carcinogenic (Target Hazard Quotient of 1) risk

exceeds Non-Residential TSSSGC

Table 10
Indoor/Ambient Air Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	2-Butanone (MEK)	4-Ethyltoluene	Benzene	Carbon disulfide	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	Freon-11	Freon-12	m&p-Xylene	o-Xylene	Styrene	Toluene	Trichloroethene
		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)													
Non-Residential (NC) TIAC	22,000	880	31	N/A	3,500	22,000	N/A	130	3,100	440	390	N/A	N/A	2,600	4,400	N/A	100	440	440	4,400	22,000	8.8	
Non-Residential (C) TIAC*	N/A	N/A	N/A	N/A	11	N/A	N/A	16	N/A	20	N/A	N/A	3.3	12,000	49	N/A	30						
IA-1	08/28/14	ND	ND	0.87	ND	ND	2.2	ND	0.31	ND	0.36	ND	ND	ND	0.6	0.91	1.7	1.7	0.84	0.81	3.0	24	
	11/13/14	ND	ND	ND	ND	ND	ND	0.42	ND	0.38	1.0	ND	ND	ND	ND	1.2	1.1	ND	ND	ND	ND	2.9	
	12/12/16	ND	ND	ND	ND	ND	1.0	ND	0.39	ND	0.45	1.1	ND	ND	ND	1.2	2.2	0.84	ND	ND	0.88	0.65	
IA-2	08/28/14	ND	ND	0.75	ND	ND	1.9	ND	0.31	ND	0.33	0.83	ND	ND	ND	ND	0.98	2.0	1.1	0.61	0.62	2.1	0.71
	12/12/16	ND	ND	0.5	ND	ND	0.81	ND	0.39	ND	0.45	1.0	ND	ND	ND	ND	1.1	2.1	0.92	ND	ND	0.88	ND
IA-3	08/28/14	ND	ND	1.5	0.65	ND	2.6	1.1	0.69	ND	0.38	ND	ND	ND	0.97	1.3	2.0	4.2	1.8	ND	4.3	74	
	12/12/16	ND	ND	1.1	0.55	ND	1.1	0.55	0.55	ND	0.51	1.3	ND	ND	1.3	1.4	2.3	3.1	1.2	ND	1.6	1.2	
IA-4	08/28/14	ND	ND	1.1	ND	2.8	3.3	0.55	0.63	ND	0.49	ND	ND	ND	1.1	1.4	2.6	3.9	1.5	0.56	65	18	
	11/13/14	ND	ND	2.7	1.3	0.61	0.84	1.6	0.42	ND	0.38	1.2	ND	ND	ND	1.1	ND	0.53	ND	ND	5.2	0.55	
	12/12/16	ND	ND	1.8	ND	ND	2.7	ND	0.78	6.6	ND	1.5	ND	ND	1.1	2.6	1.5	2.3	8.4	2.7	ND	8.3	ND
IA-5	08/28/14	ND	ND	0.95	ND	2.2	2.1	ND	0.36	ND	ND	ND	ND	ND	0.7	0.79	ND	2.9	1.1	0.73	37	12	
	12/12/16	ND	ND	1.0	ND	ND	0.93	ND	0.49	ND	0.38	1.3	ND	ND	0.57	1.2	2.1	2.1	0.75	ND	1.8	ND	
IA-6	08/28/14	ND	ND	3.6	2.6	ND	1.7	1.6	0.42	ND	ND	1.5	ND	ND	2.2	0.85	1.4	12	5.1	ND	6.0	52	
	11/13/14	ND	ND	ND	ND	ND	0.69	ND	0.55	ND	0.38	0.95	ND	ND	ND	1.1	1.0	1.1	ND	ND	0.8	45	
	12/12/16	ND	1.2	1.3	0.85	ND	0.69	0.6	0.55	ND	0.45	1.3	ND	ND	0.75	1.3	2.3	3.7	1.6	ND	1.2	2.3	
IA-7	08/28/14	ND	0.68	5.7	4.0	1.0	3.0	2.2	0.84	ND	ND	2.0	ND	0.95	ND	4.5	1.3	1.1	22	8.3	1.1	7.2	92
	12/12/16	0.55	1.5	1.4	0.8	ND	0.75	0.65	0.61	ND	0.45	1.2	ND	ND	0.79	1.2	2.2	3.6	1.5	ND	1.3	2.4	
IA-8	08/28/14	ND	0.64	9.4	6.8	ND	4.3	5.7	0.81	ND	ND	3.1	ND	ND	6.0	1.3	1.3	37	14	0.47	4.9	72	
	11/13/14	ND	ND	5.4	3.4	ND	0.69	2.4	0.74	ND	0.38	1.0	ND	ND	2.8	1.1	1.1	24	8.2	ND	0.88	39	
	12/12/16	0.83	2.4	1.4	1.0	ND	1.6	0.6	0.65	ND	0.51	1.4	ND	ND	0.79	1.4	2.5	4.2	1.8	ND	1.3	2.3	
IA-9	08/28/14	ND	0.64	4.7	2.9	ND	3.4	2.1	0.81	ND	ND	ND	0.56	ND	ND	2.7	1.2	1.1	14	5.5	ND	9.0	140
	12/12/16	0.61	1.6	1.7	0.95	ND	1.0	0.6	0.52	ND	0.45	1.2	ND	ND	0.79	1.2	2.2	3.8	1.6	ND	1.4	2.0	
IA-10	08/28/14	ND	0.52	6.6	3.1	ND	5.3	1.9	2.0	ND	ND	ND	0.56	ND	ND	4.2	1.2	1.1	18	6.8	ND	13	230
	11/13/14	ND	ND	0.5	ND	ND	0.72	ND	0.74	ND	0.38	0.95	ND	ND	ND	1.2	1.1	1.3	0.44	ND	1.2	23	
	12/12/16	ND	1.9	1.7	ND	ND	ND	ND	0.52	ND	ND	1.2	ND	ND	1.2	2.3	3.8	1.5	ND	ND	ND	3.2	
IA-11	11/13/14	ND	0.76	0.6	ND	ND	1.1	0.5	0.87	ND	0.38	1.0	ND	ND	ND	1.1	ND	1.8	0.57	ND	2.9	7.0	
	12/12/16	1.4	3.9	1.2	0.8	ND	ND	0.7	0.49	ND	0.45	1.2	ND	ND	0.62	1.3	2.1	3.1	1.4	ND	0.99	1.6	
IA-12	11/13/14	ND	ND	0.6	ND	ND	ND	ND	0.55	ND	0.38	1.0	ND	ND	ND	1.1	1.3	1.2	0.44	ND	0.76	32	
	12/12/16	0.55	1.5	1.3	0.8	ND	0.84	0.55	0.58	ND	0.45	1.3	ND	ND	0.79	1.3	2.2	3.8	1.5	ND	1.2	2.4	
IA-13	11/13/14	ND																					

APPENDIX A
Professional Geologist Summary of Hours

3:37 PM
05/16/17

Environmental Planning Specialists, Inc.
Justin Vickery
Project Hours
November 2016 through April 2017

	<u>Nov 16</u>	<u>Dec 16</u>	<u>Jan 17</u>	<u>Feb 17</u>	<u>Mar 17</u>	<u>Apr 17</u>	<u>TOTAL</u>
Total Hours per Month	<u>62.00</u>	<u>36.25</u>	<u>23.50</u>	<u>20.25</u>	<u>56.75</u>	<u>71.25</u>	<u>270.00</u>

APPENDIX B
Milestone Schedule

PROJECTED MILESTONE SCHEDULE
Rheem Manufacturing Company
Milledgeville, GA

ID	Task Name	2013	2014				2015				2016				2017				2018		
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
1	VRP Enrollment																				
2	Cost Estimate																				
3	Financial Assurance																				
4	Updated Financial Assurance																				
5	Soil Delineation (completed prior to VRP enrollment)*																				
6	On-site Horizontal Groundwater Delineation (completed prior to VRP enrollment)*																				
7	Off-site Horizontal Groundwater Delineation																				
8	Vertical Groundwater Delineation (if necessary)																				
9	Semi-Annual Progress Reports																				
10	Updated CSM, Final Remediation Plan, and Preliminary Cost Estimate																				
11	Remedial Activities																				
12	Compliance Status Report																				

Notes: Dark gray shading indicates portion of schedule that has passed.

Planned activity

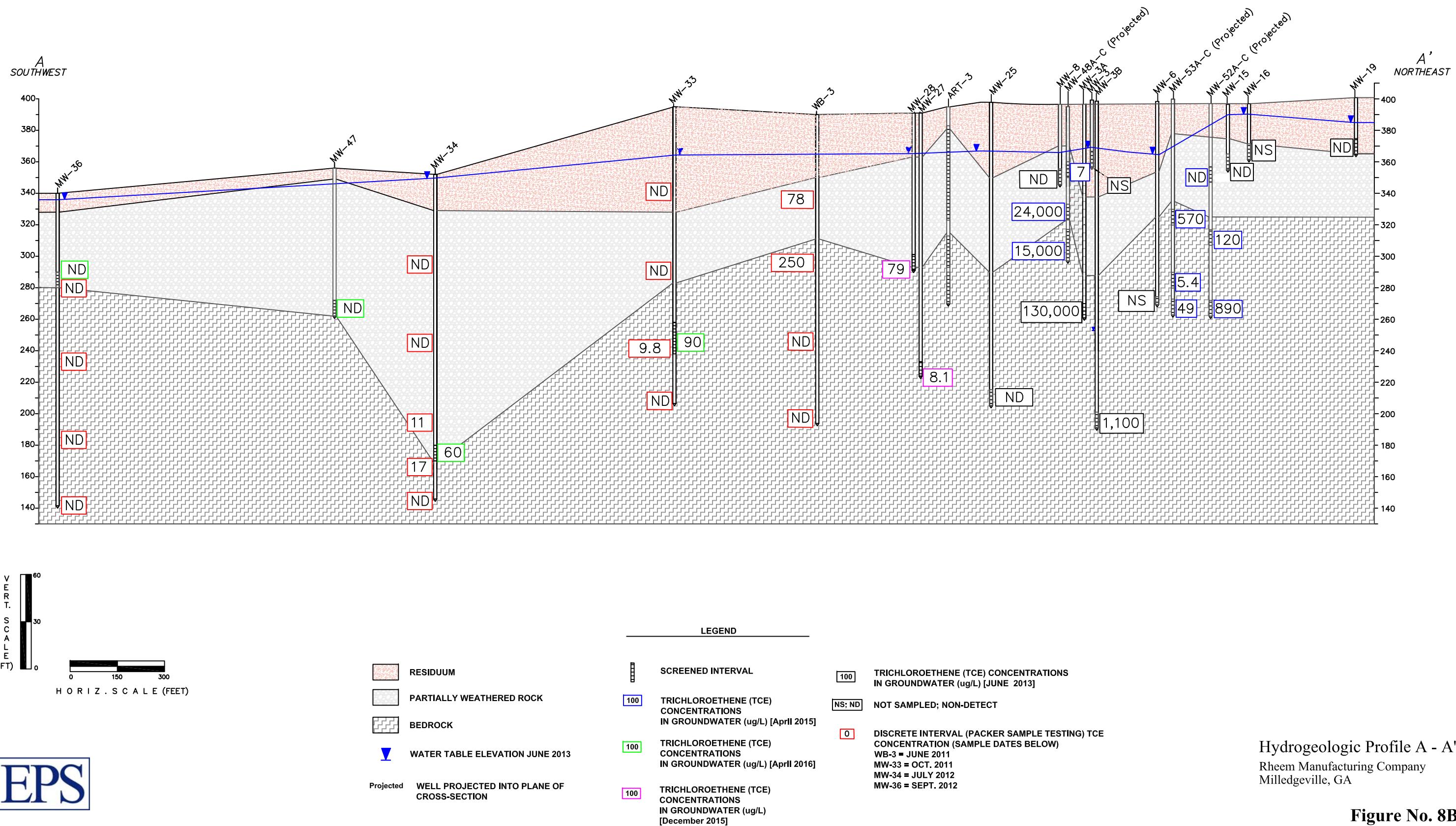
Activity completed/conducted to date

* Documented in the Voluntary Remediation Program Application Update 1, October 2012

[\[EPS\]](#)

APPENDIX C

Revised Figure 8B for the Updated CSM (EPS, June 2016)



APPENDIX D
Sampling Forms



Monitoring Work Sampling Form

Horiba / SmarTroll No.: 2KUUDHXM

Sample ID: 1634B-IW-2A

Time Collected: 1240

Technician Signature *Alf Schmid*



Monitoring W Sampling Form

Horiba / SmarTroll No.: 2KUJOHXM

Sample ID: 16348-Iw-3A

Time Collected: 1352

Technician Signature Jeff Felt



Monitoring W Sampling Form

Horiba / SmarTroll No.:

X X FDF4YC

Sample ID: 16348-1w-4A

Time Collected: 1543

Technician Signature Jeff Whys



Monitoring W⁺ Sampling Form

Horiba / SmarTroll No.: 3EUVJOHXM

Sample ID: 16348-Iw-4B

Time Collected: 1548

Technician Signature

Alex Schaffer



Monitoring W⁺ Sampling Form

Horiba / SmarTroll No.: XX KDF-17C

Sample ID: 16348-LW-5A
16348-DJP

Time Collected: 1715
1200

Technician Signature WY / 2010

Alex Pfeiffer



Monitoring W Sampling Form

Horiba / SmarTroll No.: 2KJUO4XW

Sample ID: 16348-IW-5B

Time Collected: 1727

Technician Signature

Alex Tschiff



Monitoring & Sampling Form

Water Quality Meter (Make/Model/SN): Horiba JUDT-N8L8

Pump (Make/Model): Saint pump (pneumatic)

Sample ID: 17067-MW-33
17067-DUP

Time Collected: 1355
1200

Technician Signature

Alex Felt



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Hach U-53 W3J66DT1

Pump (Make/Model): Alexis Peristaltic

Sample ID: 17067-MW-34

Time Collected: 1135

Technician Signature *Joe Levy*



Monitoring We Sampling Form

Water Quality Meter (Make/Model/SN): Horizon U-53 W3J6GDTI

Pump (Make/Model): Alexis Peristaltic

Sample ID: 17067-MW-35

Time Collected: 1425

Technician Signature *Joe Levy*



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): JWDTN8L8 Holiba

Pump (Make/Model): Alexis Peristatic Pump

Sample ID: 17D67-MU-36

Time Collected: 0915

Technician Signature 

E S

Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Horiba JUD-TN8L8

Pump (Make/Model): Solinst pump (pneumatic)

Sample ID: 17067-MW-43

Time Collected: 1520

Technician Signature

Alex Ishff



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): JVDTN8L8 Horiba

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17067 - MW-44

Time Collected: 1025

Technician Signature Alayna



Monitoring & Sampling Form

Water Quality Meter (Make/Model/SN): VR R.HL1B1

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17066-MW-45

Time Collected: 1735

Technician Signature

Alex Joffy



Monitoring Weather Sampling Form

Water Quality Meter (Make/Model/SN): Horiba U-53 W3JbGDT1

Pump (Make/Model): Alexis Peristaltic

Sample ID: 17067-MW-416

Time Collected: 1005

Technician Signature

Joe Terry



Monitoring Weather Sampling Form

Water Quality Meter (Make/Model/SN): JUDTN8L8 Horiba

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17067-MW-47

Time Collected: 1137

Technician Signature Alex J. Schy



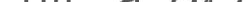
Monitoring & Sampling Form

Water Quality Meter (Make/Model/SN): URHHL1B1

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 13006 - MW - 54

Time Collected: 1622

Technician Signature 

Alex Fehlf



Monitoring Water Sampling Form



Water Quality Meter (Make/Model/SN): Hach U-53 S4JVC NUL

Pump (Make/Model): Crociel / Geogump peristaltic

Sample ID: 17087-MW-1

Time Collected: 1200

Technician Signature Joe Levy



Monitoring Water Sampling Form

Water Quality Meter (Make/Model/SN): Horiba STYNT1PS

Pump (Make/Model): peristaltic pump

Sample ID: 17087

Time Collected: 1230

Technician Signature Alf Tropf



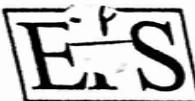
Water Quality Meter (Make/Model/SN): Horiba U-53 SHJVCNU

Pump (Make/Model): GeoTech / Gravimpy peristaltic

Sample ID: 17087-MW-0

Time Collected: 0940

Technician Signature Joe Henry



Monitoring Work Sampling Form

1

Water Quality Meter (Make/Model/SN): Horiba S7YN4IPS

Pump (Make/Model): Solinst pneumatic pump

Sample ID: 17087-MW-48A

Time Collected: 1017

Technician Signature *Alex Saenger*



Monitoring Water Sampling Form

EPS Project: Rheem Manufacturing

Date: 3-28-17

Well ID: MW-48B Field Conditions: ~70°F, clear
 Sampling Performed By: A. Testoff, J. Terry
 Well Construction: flush mount General Condition of Well: good
 Well Labeled: Y Well Cap: Y Well Locked: N Condition of surrounding area: asphalt
 Well depth from TOC: 72.0 Depth to Water from TOC: 21.85
 Well Diameter (in): 1" Method of measure: Water Level Meter
 Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 50.15
 Volume of water in well [Ht. x(0.04 for 1").(0.16 for 2").(0.653 for 4")](1.469 for 6")gal/ft]: 2.00 Three Well Volumes (gal): 6.0
 Purging Method: low flow, low volume Time @ Start of Purge: 0817
 Sample Method: direct,straw Sample Parameters: VOCs, Ethene/Ethane/Methane, Nitrate, Sulfate, TOC
 Initial Depth of Pump/Tubing: 68 ft (BTOC) Final Depth of Pump/Tubing: 68 ft (BTOC)

Water Quality Meter (Make/Model/SN): Hurley S7YNY1P5

Pump (Make/Model): Peristaltic Pump

Sample ID: 17087-Mw-48B

Time Collected: 0925

Technician Signature

Alex Felt



Monitoring Web Sampling Form

EPS Project: Rheem Manufacturing

Date: 3-28-17

Well ID: P7-7 Field Conditions: p. cloudy, 65°F
Sampling Performed By: A. Testoff, J. Terry
Well Construction: flush mount General Condition of Well: good
Well Labeled: N Well Cap: Y Well Locked: N Condition of surrounding area: asphalt parking lot
Well depth from TOC: 63 Depth to Water from TOC: 21.72
Well Diameter (in): 2" Method of measure: Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 41.28
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(.1469 for 6")gal/ft]: 6.6 Three Well Volumes (gal): 19.8
Purging Method: low flow, low volume Time @ Start of Purge: 0933
Sample Method: direct/straw Sample Parameters: VOCs, Ethene/Ethane/Methane, Nitrate, Sulfate, TOC
Initial Depth of Pump/Tubing: 58 ft (BTOC) Final Depth of Pump/Tubing: 58 ft (BTOC)

Water Quality Meter (Make/Model/SN): Horiiba STYNOVPS

Pump (Make/Model): Solinst 408 double valve peristaltic pump

Sample ID: 17087-PZ-7

Time Collected: 1105

Technician Signature Alej. Longo



Monitoring Water Sampling Form

Water Quality Meter (Make/Model/SN): Hach U-53 SVS VPL MU

Pump (Make/Model): Circatech Geopump Peristaltic

Sample ID: 17118-MW-1

Time Collected: 1325

Technician Signature *John Key*



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Hori bn ET0049P

Pump (Make/Model): Solinst preventic pump

Sample ID: 17118-MW-5

Time Collected: 1330

Technician Signature



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Horiba ETO 049 PY

Pump (Make/Model): Croopump peristaltic pump

Sample ID: 17118-HW-9

Time Collected: 1200

Technician Signature 



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Horiba ETO 949 PY

Pump (Make/Model): GeoPump peristaltic pump

Sample ID: 17118-MW-48A

Time Collected: 1010

Technician Signature

Alex Tschiff



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Nordb u-53 SV5VPLM4

Pump (Make/Model): Geotech Geopump peristaltic

Sample ID: 17118-MW-218B

Time Collected: 1005

Technician Signature

Joe Long



Monitoring Work Sampling Form

Water Quality Meter (Make/Model/SN): Horiba U-53 SV5VPLMU

Pump (Make/Model): Geotek Geopump peristaltic

Sample ID: 17110-12-7

Time Collected: ~~1120~~ 1205

Technician Signature



APPENDIX E
Laboratory Analytical Reports

03 January 2017

Mr. Justin Vickery
EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338



H&P Project: EPS122016-10
Client Project: Rheem Manufacturing

Dear Mr. Justin Vickery:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 20-Dec-16 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,



Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
16347-VIIA-1	E612109-01	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-2	E612109-02	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-3	E612109-03	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-4	E612109-04	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-5	E612109-05	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-6	E612109-06	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-7	E612109-07	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-8	E612109-08	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-9	E612109-09	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-10	E612109-10	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-11	E612109-11	Vapor	12-Dec-16	20-Dec-16
16347-VIIA-12	E612109-12	Vapor	12-Dec-16	20-Dec-16
16348-VI-022	E612109-13	Vapor	13-Dec-16	20-Dec-16
16348-VI-023	E612109-14	Vapor	13-Dec-16	20-Dec-16
16348-VI-024	E612109-15	Vapor	13-Dec-16	20-Dec-16
16348-VI-029	E612109-16	Vapor	13-Dec-16	20-Dec-16
16348-VI-027	E612109-17	Vapor	13-Dec-16	20-Dec-16
16348-VI-043	E612109-18	Vapor	13-Dec-16	20-Dec-16
16348-VI-021	E612109-19	Vapor	13-Dec-16	20-Dec-16
16348-VI-005	E612109-20	Vapor	13-Dec-16	20-Dec-16
16348-VI-004	E612109-21	Vapor	13-Dec-16	20-Dec-16
16348-VI-009	E612109-22	Vapor	13-Dec-16	20-Dec-16
16348-VI-014	E612109-23	Vapor	13-Dec-16	20-Dec-16
16348-VI-018	E612109-24	Vapor	13-Dec-16	20-Dec-16
16348-DUP	E612109-25	Vapor	13-Dec-16	20-Dec-16
16349-VI-026	E612109-26	Vapor	14-Dec-16	20-Dec-16
16349-VI-032	E612109-27	Vapor	14-Dec-16	20-Dec-16
16349-VI-033	E612109-28	Vapor	14-Dec-16	20-Dec-16

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
16349-VI-028	E612109-29	Vapor	14-Dec-16	20-Dec-16
16349-VI-025	E612109-30	Vapor	14-Dec-16	20-Dec-16
16349-VI-045	E612109-31	Vapor	14-Dec-16	20-Dec-16
16349-VI-046	E612109-32	Vapor	14-Dec-16	20-Dec-16
16349-VI-047	E612109-33	Vapor	14-Dec-16	20-Dec-16

Due to the presence of elevated analyte concentrations, samples 16348-VI-023, 16348-VI-014, 16348-DUP, and 16349-VI-045 were analyzed by H&P 8260SV rather than EPA Method TO-15.

The following EPA Method TO-15 analytes are not reported by H&P 8260SV:

Dichlorotetrafluoroethane
4-Ethyltoluene

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

DETECTIONS SUMMARY

Sample ID: **16347-VIIA-1**

Laboratory ID: **E612109-01**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	EPA TO-15	
Chloromethane	1.1	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56	ug/m3	EPA TO-15	
2-Butanone (MEK)	1.0	0.60	ug/m3	EPA TO-15	
Benzene	0.39	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Trichloroethene	0.65	0.55	ug/m3	EPA TO-15	
Toluene	0.88	0.76	ug/m3	EPA TO-15	
m,p-Xylene	0.84	0.44	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-2**

Laboratory ID: **E612109-02**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.1	1.0	ug/m3	EPA TO-15	
Chloromethane	1.0	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.1	0.56	ug/m3	EPA TO-15	
2-Butanone (MEK)	0.81	0.60	ug/m3	EPA TO-15	
Benzene	0.39	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Toluene	0.88	0.76	ug/m3	EPA TO-15	
m,p-Xylene	0.92	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.50	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-3**

Laboratory ID: **E612109-03**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.3	1.0	ug/m3	EPA TO-15	
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56	ug/m3	EPA TO-15	
2-Butanone (MEK)	1.1	0.60	ug/m3	EPA TO-15	
Benzene	0.55	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32	ug/m3	EPA TO-15	
Trichloroethene	1.2	0.55	ug/m3	EPA TO-15	
Toluene	1.6	0.76	ug/m3	EPA TO-15	
Ethylbenzene	1.3	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.1	0.44	ug/m3	EPA TO-15	
o-Xylene	1.2	0.44	ug/m3	EPA TO-15	

**H&P Mobile
Geochemistry Inc.**

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Sample ID: **16347-VIIA-3**

Laboratory ID: **E612109-03**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
4-Ethyltoluene	0.55	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	0.55	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.1	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-4**

Laboratory ID: **E612109-04**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Dichlorodifluoromethane (F12)	2.3	2.0	ug/m3	EPA TO-15	
Chloromethane	1.5	0.41	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.5	1.1	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	1.1	0.71	ug/m3	EPA TO-15	
Carbon disulfide	6.6	0.63	ug/m3	EPA TO-15	
2-Butanone (MEK)	2.7	1.2	ug/m3	EPA TO-15	
Benzene	0.78	0.32	ug/m3	EPA TO-15	
Toluene	8.3	1.5	ug/m3	EPA TO-15	
Ethylbenzene	2.6	0.88	ug/m3	EPA TO-15	
m,p-Xylene	8.4	0.88	ug/m3	EPA TO-15	
o-Xylene	2.7	0.88	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.8	1.0	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-5**

Laboratory ID: **E612109-05**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Dichlorodifluoromethane (F12)	2.1	1.0	ug/m3	EPA TO-15	
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56	ug/m3	EPA TO-15	
2-Butanone (MEK)	0.93	0.60	ug/m3	EPA TO-15	
Benzene	0.49	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.38	0.32	ug/m3	EPA TO-15	
Toluene	1.8	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.57	0.44	ug/m3	EPA TO-15	
m,p-Xylene	2.1	0.44	ug/m3	EPA TO-15	
o-Xylene	0.75	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.0	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-6**

Laboratory ID: **E612109-06**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Dichlorodifluoromethane (F12)	2.3	1.0	ug/m3	EPA TO-15	

**H&P Mobile
Geochemistry Inc.**

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EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Sample ID: **16347-VIIA-6**

Laboratory ID: **E612109-06**

Analyte	Result	Limit	Units	Method	Notes
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.3	0.56	ug/m3	EPA TO-15	
1,1-Dichloroethene	1.2	0.40	ug/m3	EPA TO-15	
2-Butanone (MEK)	0.69	0.60	ug/m3	EPA TO-15	
Benzene	0.55	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Trichloroethene	2.3	0.55	ug/m3	EPA TO-15	
Toluene	1.2	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.75	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.7	0.44	ug/m3	EPA TO-15	
o-Xylene	1.6	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.60	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	0.85	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.3	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-7**

Laboratory ID: **E612109-07**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	EPA TO-15	
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56	ug/m3	EPA TO-15	
1,1-Dichloroethene	1.5	0.40	ug/m3	EPA TO-15	
2-Butanone (MEK)	0.75	0.60	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	0.55	0.55	ug/m3	EPA TO-15	
Benzene	0.61	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Trichloroethene	2.4	0.55	ug/m3	EPA TO-15	
Toluene	1.3	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.79	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.6	0.44	ug/m3	EPA TO-15	
o-Xylene	1.5	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.65	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	0.80	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.4	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-8**

Laboratory ID: **E612109-08**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.5	1.0	ug/m3	EPA TO-15	

**H&P Mobile
Geochemistry Inc.**

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
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EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Sample ID: **16347-VIIA-8**

Laboratory ID: **E612109-08**

Analyte	Result	Limit	Units	Method	Notes
Chloromethane	1.4	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56	ug/m3	EPA TO-15	
1,1-Dichloroethene	2.4	0.40	ug/m3	EPA TO-15	
2-Butanone (MEK)	1.6	0.60	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	0.83	0.55	ug/m3	EPA TO-15	
Benzene	0.65	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32	ug/m3	EPA TO-15	
Trichloroethene	2.3	0.55	ug/m3	EPA TO-15	
Toluene	1.3	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.79	0.44	ug/m3	EPA TO-15	
m,p-Xylene	4.2	0.44	ug/m3	EPA TO-15	
o-Xylene	1.8	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.60	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	1.0	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.4	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-9**

Laboratory ID: **E612109-09**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	EPA TO-15	
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56	ug/m3	EPA TO-15	
1,1-Dichloroethene	1.6	0.40	ug/m3	EPA TO-15	
2-Butanone (MEK)	1.0	0.60	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	0.61	0.55	ug/m3	EPA TO-15	
Benzene	0.52	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Trichloroethene	2.0	0.55	ug/m3	EPA TO-15	
Toluene	1.4	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.79	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.8	0.44	ug/m3	EPA TO-15	
o-Xylene	1.6	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.60	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	0.95	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.7	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-10**

Laboratory ID: **E612109-10**

Analyte	Result	Limit	Units	Method	Notes

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Sample ID: **16347-VIIA-10**

Laboratory ID: **E612109-10**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.3	2.0	ug/m3	EPA TO-15	
Chloromethane	1.2	0.41	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	1.1	ug/m3	EPA TO-15	
1,1-Dichloroethene	1.9	0.80	ug/m3	EPA TO-15	
Benzene	0.52	0.32	ug/m3	EPA TO-15	
Trichloroethene	3.2	1.1	ug/m3	EPA TO-15	
m,p-Xylene	3.8	0.88	ug/m3	EPA TO-15	
o-Xylene	1.5	0.88	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.7	1.0	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-11**

Laboratory ID: **E612109-11**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.1	1.0	ug/m3	EPA TO-15	
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.3	0.56	ug/m3	EPA TO-15	
1,1-Dichloroethene	3.9	0.40	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	1.4	0.55	ug/m3	EPA TO-15	
Benzene	0.49	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Trichloroethene	1.6	0.55	ug/m3	EPA TO-15	
Toluene	0.99	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.62	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.1	0.44	ug/m3	EPA TO-15	
o-Xylene	1.4	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.70	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	0.80	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.2	0.50	ug/m3	EPA TO-15	

Sample ID: **16347-VIIA-12**

Laboratory ID: **E612109-12**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	EPA TO-15	
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.3	0.56	ug/m3	EPA TO-15	
1,1-Dichloroethene	1.5	0.40	ug/m3	EPA TO-15	
2-Butanone (MEK)	0.84	0.60	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	0.55	0.55	ug/m3	EPA TO-15	
Benzene	0.58	0.16	ug/m3	EPA TO-15	

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Sample ID: **16347-VIIA-12**

Laboratory ID: **E612109-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Carbon tetrachloride	0.45	0.32	ug/m3	EPA TO-15	
Trichloroethene	2.4	0.55	ug/m3	EPA TO-15	
Toluene	1.2	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.79	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.8	0.44	ug/m3	EPA TO-15	
o-Xylene	1.5	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.55	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	0.80	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.3	0.50	ug/m3	EPA TO-15	

Sample ID: **16348-VI-022**

Laboratory ID: **E612109-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	35	5.5	ug/m3	EPA TO-15	
Toluene	21	3.8	ug/m3	EPA TO-15	
m,p-Xylene	8.8	8.8	ug/m3	EPA TO-15	

Sample ID: **16348-VI-023**

Laboratory ID: **E612109-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	1100	500	ug/m3	H&P 8260SV	
Chloroform	2200	100	ug/m3	H&P 8260SV	
Carbon tetrachloride	130	100	ug/m3	H&P 8260SV	
Benzene	110	100	ug/m3	H&P 8260SV	
Trichloroethene	1700000	2000	ug/m3	H&P 8260SV	
Tetrachloroethene	3200	100	ug/m3	H&P 8260SV	

Sample ID: **16348-VI-024**

Laboratory ID: **E612109-15**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	280	81	ug/m3	EPA TO-15	
Trichloroethene	36000	140	ug/m3	EPA TO-15	
Toluene	2100	95	ug/m3	EPA TO-15	
Tetrachloroethene	170	170	ug/m3	EPA TO-15	
Ethylbenzene	270	110	ug/m3	EPA TO-15	
m,p-Xylene	530	220	ug/m3	EPA TO-15	
o-Xylene	150	110	ug/m3	EPA TO-15	

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Sample ID: **16348-VI-029**

Laboratory ID: **E612109-16**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	12000	27	ug/m3	EPA TO-15	
Tetrachloroethene	51	34	ug/m3	EPA TO-15	

Sample ID: **16348-VI-027**

Laboratory ID: **E612109-17**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	8300	27	ug/m3	EPA TO-15	
Tetrachloroethene	37	34	ug/m3	EPA TO-15	

Sample ID: **16348-VI-043**

Laboratory ID: **E612109-18**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	96	25	ug/m3	EPA TO-15	
Trichloroethene	17000	140	ug/m3	EPA TO-15	
Tetrachloroethene	850	34	ug/m3	EPA TO-15	

Sample ID: **16348-VI-021**

Laboratory ID: **E612109-19**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,1-Trichloroethane	110	28	ug/m3	EPA TO-15	
Trichloroethene	4500	27	ug/m3	EPA TO-15	
Tetrachloroethene	4100	34	ug/m3	EPA TO-15	
Ethylbenzene	46	22	ug/m3	EPA TO-15	
m,p-Xylene	56	44	ug/m3	EPA TO-15	
o-Xylene	45	22	ug/m3	EPA TO-15	

Sample ID: **16348-VI-005**

Laboratory ID: **E612109-20**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	3400	27	ug/m3	EPA TO-15	
Toluene	5.9	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	190	6.9	ug/m3	EPA TO-15	
Ethylbenzene	5.3	4.4	ug/m3	EPA TO-15	
m,p-Xylene	12	8.8	ug/m3	EPA TO-15	
o-Xylene	6.2	4.4	ug/m3	EPA TO-15	

Sample ID: **16348-VI-004**

Laboratory ID: **E612109-21**

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: **16348-VI-004**

Laboratory ID: **E612109-21**

Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	2600	27	ug/m3	EPA TO-15	
Toluene	23	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	97	6.9	ug/m3	EPA TO-15	
Ethylbenzene	8.7	4.4	ug/m3	EPA TO-15	
m,p-Xylene	23	8.8	ug/m3	EPA TO-15	
o-Xylene	8.9	4.4	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	5.5	5.0	ug/m3	EPA TO-15	

Sample ID: **16348-VI-009**

Laboratory ID: **E612109-22**

Analyte	Result	Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	5.8	5.0	ug/m3	EPA TO-15	
Benzene	4.2	3.2	ug/m3	EPA TO-15	
Trichloroethene	2500	27	ug/m3	EPA TO-15	
Toluene	6.3	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	86	6.9	ug/m3	EPA TO-15	
m,p-Xylene	9.4	8.8	ug/m3	EPA TO-15	
o-Xylene	4.6	4.4	ug/m3	EPA TO-15	

Sample ID: **16348-VI-014**

Laboratory ID: **E612109-23**

Analyte	Result	Limit	Units	Method	Notes
trans-1,2-Dichloroethene	10000	10000	ug/m3	H&P 8260SV	
cis-1,2-Dichloroethene	46000	10000	ug/m3	H&P 8260SV	
Chloroform	2200	2000	ug/m3	H&P 8260SV	
Trichloroethene	90000	2000	ug/m3	H&P 8260SV	

Sample ID: **16348-VI-018**

Laboratory ID: **E612109-24**

Analyte	Result	Limit	Units	Method	Notes
trans-1,2-Dichloroethene	48	40	ug/m3	EPA TO-15	
cis-1,2-Dichloroethene	310	20	ug/m3	EPA TO-15	
Trichloroethene	3000	27	ug/m3	EPA TO-15	
Tetrachloroethene	43	34	ug/m3	EPA TO-15	

Sample ID: **16348-DUP**

Laboratory ID: **E612109-25**

Analyte	Result	Limit	Units	Method	Notes
cis-1,2-Dichloroethene	680	500	ug/m3	H&P 8260SV	

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Sample ID: **16348-DUP**

Laboratory ID: **E612109-25**

Analyte	Result	Limit	Units	Method	Notes
Chloroform	1400	100	ug/m3	H&P 8260SV	
Trichloroethene	1300000	10000	ug/m3	H&P 8260SV	
Tetrachloroethene	1900	100	ug/m3	H&P 8260SV	

Sample ID: **16349-VI-026**

Laboratory ID: **E612109-26**

Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	280	5.5	ug/m3	EPA TO-15	
Toluene	3.9	3.8	ug/m3	EPA TO-15	

Sample ID: **16349-VI-032**

Laboratory ID: **E612109-27**

Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	150	5.5	ug/m3	EPA TO-15	
Toluene	9.8	3.8	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	5.9	5.0	ug/m3	EPA TO-15	

Sample ID: **16349-VI-033**

Laboratory ID: **E612109-28**

Analyte	Result	Limit	Units	Method	Notes
Benzene	3.9	3.2	ug/m3	EPA TO-15	
Trichloroethene	270	5.5	ug/m3	EPA TO-15	
Toluene	27	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	27	6.9	ug/m3	EPA TO-15	
Ethylbenzene	9.9	4.4	ug/m3	EPA TO-15	
m,p-Xylene	41	8.8	ug/m3	EPA TO-15	
o-Xylene	13	4.4	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	10	5.0	ug/m3	EPA TO-15	

Sample ID: **16349-VI-028**

Laboratory ID: **E612109-29**

Analyte	Result	Limit	Units	Method	Notes
Chloroform	20	4.9	ug/m3	EPA TO-15	
Benzene	4.4	3.2	ug/m3	EPA TO-15	
Trichloroethene	1500	5.5	ug/m3	EPA TO-15	
Toluene	15	3.8	ug/m3	EPA TO-15	
Ethylbenzene	8.9	4.4	ug/m3	EPA TO-15	
m,p-Xylene	42	8.8	ug/m3	EPA TO-15	
o-Xylene	13	4.4	ug/m3	EPA TO-15	

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Sample ID: **16349-VI-028**

Laboratory ID: **E612109-29**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
1,3,5-Trimethylbenzene	7.7	5.0	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	15	5.0	ug/m3	EPA TO-15	

Sample ID: **16349-VI-025**

Laboratory ID: **E612109-30**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
cis-1,2-Dichloroethene	51	4.0	ug/m3	EPA TO-15	
Chloroform	14	4.9	ug/m3	EPA TO-15	
Trichloroethene	1100	5.5	ug/m3	EPA TO-15	
Toluene	5.6	3.8	ug/m3	EPA TO-15	
m,p-Xylene	10	8.8	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	6.2	5.0	ug/m3	EPA TO-15	

Sample ID: **16349-VI-045**

Laboratory ID: **E612109-31**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
1,1-Dichloroethene	290000	10000	ug/m3	H&P 8260SV	
Trichloroethene	3800	2000	ug/m3	H&P 8260SV	
Tetrachloroethene	13000	2000	ug/m3	H&P 8260SV	

Sample ID: **16349-VI-046**

Laboratory ID: **E612109-32**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
1,1-Dichloroethene	140	4.0	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	13	5.5	ug/m3	EPA TO-15	
Benzene	3.3	3.2	ug/m3	EPA TO-15	
Trichloroethene	150	5.5	ug/m3	EPA TO-15	
Toluene	8.4	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	370	6.9	ug/m3	EPA TO-15	
Ethylbenzene	4.5	4.4	ug/m3	EPA TO-15	
m,p-Xylene	21	8.8	ug/m3	EPA TO-15	
o-Xylene	8.6	4.4	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	5.6	5.0	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	12	5.0	ug/m3	EPA TO-15	

Sample ID: **16349-VI-047**

Laboratory ID: **E612109-33**

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
1,1-Dichloroethene	120	4.0	ug/m3	EPA TO-15	

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Sample ID: **16349-VI-047**

Laboratory ID: **E612109-33**

Analyte	Result	Limit	Units	Method	Notes
1,1,1-Trichloroethane	10	5.5	ug/m3	EPA TO-15	
Benzene	7.3	3.2	ug/m3	EPA TO-15	
Trichloroethene	110	5.5	ug/m3	EPA TO-15	
Toluene	39	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	280	6.9	ug/m3	EPA TO-15	
Ethylbenzene	6.2	4.4	ug/m3	EPA TO-15	
m,p-Xylene	25	8.8	ug/m3	EPA TO-15	
o-Xylene	8.4	4.4	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	7.9	5.0	ug/m3	EPA TO-15	

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Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-1 (E612109-01) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
Chloromethane	1.1	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	1.0	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.39	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	0.65	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	0.88	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	ND	0.44	"	"	"	"	"	"	"
m,p-Xylene	0.84	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	ND	0.44	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-1 (E612109-01) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromoform	ND	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.8 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		100 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		91.8 %	77-127	"	"	"	"	"	"
16347-VIIA-2 (E612109-02) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.1	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
Chloromethane	1.0	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.1	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	0.81	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.39	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Project: EPS122016-10
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Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-2 (E612109-02) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	0.68	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	0.88	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	ND	0.44	"	"	"	"	"	"	"
m,p-Xylene	0.92	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	ND	0.44	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	0.50	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.9 %	76-134	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	78-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	77-127	"	"	"	"	"	

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-3 (E612109-03) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.3	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	1.1	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.55	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	"
Trichloroethene	1.2	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.6	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	1.3	0.44	"	"	"	"	"	"	"
m,p-Xylene	3.1	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.2	0.44	"	"	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-3 (E612109-03) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromoform	ND	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.55	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	0.55	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.1	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.6 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		99.4 %	77-127	"	"	"	"	"	"
16347-VIIA-4 (E612109-04) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.3	2.0	ug/m3	2	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
Chloromethane	1.5	0.41	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	1.4	"	"	"	"	"	"	"
Vinyl chloride	ND	0.26	"	"	"	"	"	"	"
Bromomethane	ND	0.79	"	"	"	"	"	"	"
Chloroethane	ND	0.54	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.5	1.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.80	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	1.5	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	1.1	0.71	"	"	"	"	"	"	"
Carbon disulfide	6.6	0.63	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.80	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.82	"	"	"	"	"	"	"
2-Butanone (MEK)	2.7	1.2	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.80	"	"	"	"	"	"	"
Chloroform	ND	0.49	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.1	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.82	"	"	"	"	"	"	"
Benzene	0.78	0.32	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.64	"	"	"	"	"	"	"
Trichloroethene	ND	1.1	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.94	"	"	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-4 (E612109-04) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	1.4	ug/m3	2	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.92	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	1.7	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.92	"	"	"	"	"	"	"
Toluene	8.3	1.5	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.1	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	1.7	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.4	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.94	"	"	"	"	"	"	"
Ethylbenzene	2.6	0.88	"	"	"	"	"	"	"
m,p-Xylene	8.4	0.88	"	"	"	"	"	"	"
Styrene	ND	0.86	"	"	"	"	"	"	"
o-Xylene	2.7	0.88	"	"	"	"	"	"	"
Bromoform	ND	2.1	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	"
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.8	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.4	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.4 %	76-134	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	78-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %	77-127	"	"	"	"	"	

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-5 (E612109-05) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.1	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	0.93	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.49	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.38	0.32	"	"	"	"	"	"	"
Trichloroethene	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.8	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.57	0.44	"	"	"	"	"	"	"
m,p-Xylene	2.1	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	0.75	0.44	"	"	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-5 (E612109-05) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromoform	ND	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.0	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.5 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	77-127	"	"	"	"	"	"
16347-VIIA-6 (E612109-06) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.3	1.0	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	1.2	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	0.69	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.55	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	2.3	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

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Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-6 (E612109-06) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	0.68	ug/m3	1	EL62016	20-Dec-16	20-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.2	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.75	0.44	"	"	"	"	"	"	"
m,p-Xylene	3.7	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.6	0.44	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.60	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	0.85	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.3	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		85.5 %	76-134	"	"	"	"	"	
Surrogate: Toluene-d8		98.2 %	78-125	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	77-127	"	"	"	"	"	

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-7 (E612109-07) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	1.5	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	0.75	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	0.55	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.61	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	2.4	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.3	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.79	0.44	"	"	"	"	"	"	"
m,p-Xylene	3.6	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.5	0.44	"	"	"	"	"	"	"

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-7 (E612109-07) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromoform	ND	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.65	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	0.80	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.4	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.5 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		102 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	77-127	"	"	"	"	"	"
16347-VIIA-8 (E612109-08) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.5	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
Chloromethane	1.4	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	2.4	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	1.6	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	0.83	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.65	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	"
Trichloroethene	2.3	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-8 (E612109-08) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	0.68	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.3	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.79	0.44	"	"	"	"	"	"	"
m,p-Xylene	4.2	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.8	0.44	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.60	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	1.0	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.4	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		89.6 %	76-134	"	"	"	"	"	"
Surrogate: Toluene-d8		101 %	78-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		96.0 %	77-127	"	"	"	"	"	"

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-9 (E612109-09) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	1.6	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	1.0	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	0.61	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.52	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	2.0	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.4	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.79	0.44	"	"	"	"	"	"	"
m,p-Xylene	3.8	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.6	0.44	"	"	"	"	"	"	"

EPS, Inc.
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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-9 (E612109-09) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromoform	ND	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.60	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	0.95	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.7	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.1 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	77-127	"	"	"	"	"	"
16347-VIIA-10 (E612109-10) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.3	2.0	ug/m3	2	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
Chloromethane	1.2	0.41	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	1.4	"	"	"	"	"	"	"
Vinyl chloride	ND	0.26	"	"	"	"	"	"	"
Bromomethane	ND	0.79	"	"	"	"	"	"	"
Chloroethane	ND	0.54	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.2	1.1	"	"	"	"	"	"	"
1,1-Dichloroethene	1.9	0.80	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	1.5	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.71	"	"	"	"	"	"	"
Carbon disulfide	ND	0.63	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.80	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.82	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	1.2	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.80	"	"	"	"	"	"	"
Chloroform	ND	0.49	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.1	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.82	"	"	"	"	"	"	"
Benzene	0.52	0.32	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.64	"	"	"	"	"	"	"
Trichloroethene	3.2	1.1	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.94	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-10 (E612109-10) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	1.4	ug/m3	2	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.92	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	1.7	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.92	"	"	"	"	"	"	"
Toluene	ND	1.5	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.1	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	1.7	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.4	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.94	"	"	"	"	"	"	"
Ethylbenzene	ND	0.88	"	"	"	"	"	"	"
m,p-Xylene	3.8	0.88	"	"	"	"	"	"	"
Styrene	ND	0.86	"	"	"	"	"	"	"
o-Xylene	1.5	0.88	"	"	"	"	"	"	"
Bromoform	ND	2.1	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	"
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.7	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.4	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.3 %	76-134	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	78-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	77-127	"	"	"	"	"	

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-11 (E612109-11) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.1	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	3.9	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	1.4	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.49	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	1.6	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	0.99	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.62	0.44	"	"	"	"	"	"	"
m,p-Xylene	3.1	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.4	0.44	"	"	"	"	"	"	"

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-11 (E612109-11) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromoform	ND	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.70	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	0.80	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.2	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.3 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		100 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	77-127	"	"	"	"	"	"
16347-VIIA-12 (E612109-12) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	2.2	1.0	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	"
Vinyl chloride	ND	0.13	"	"	"	"	"	"	"
Bromomethane	ND	0.39	"	"	"	"	"	"	"
Chloroethane	ND	0.27	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	"
1,1-Dichloroethene	1.5	0.40	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	"
Carbon disulfide	ND	0.32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	"
2-Butanone (MEK)	0.84	0.60	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	"
Chloroform	ND	0.25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	0.55	0.55	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	"
Benzene	0.58	0.16	"	"	"	"	"	"	"
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	"
Trichloroethene	2.4	0.55	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	"

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16347-VIIA-12 (E612109-12) Vapor Sampled: 12-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	0.68	ug/m3	1	EL62016	20-Dec-16	21-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	"
Toluene	1.2	0.76	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
Chlorobenzene	ND	0.47	"	"	"	"	"	"	"
Ethylbenzene	0.79	0.44	"	"	"	"	"	"	"
m,p-Xylene	3.8	0.44	"	"	"	"	"	"	"
Styrene	ND	0.43	"	"	"	"	"	"	"
o-Xylene	1.5	0.44	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	"
4-Ethyltoluene	0.55	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	0.80	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.3	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	87.0 %	76-134	"	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	78-125	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	77-127	"	"	"	"	"	"	"

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-022 (E612109-13) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	ND	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	35	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	21	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	ND	4.4	"	"	"	"	"	"	"
m,p-Xylene	8.8	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	ND	4.4	"	"	"	"	"	"	"

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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16348-VI-022 (E612109-13) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16

Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.9 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		91.5 %	77-127	"	"	"	"	"	"

16348-VI-024 (E612109-15) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16

Dichlorodifluoromethane (F12)	ND	130	ug/m3	25	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	52	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	180	"	"	"	"	"	"	"
Vinyl chloride	ND	65	"	"	"	"	"	"	"
Bromomethane	ND	390	"	"	"	"	"	"	"
Chloroethane	ND	200	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	140	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	100	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	190	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	88	"	"	"	"	"	"	"
Carbon disulfide	ND	160	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	100	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	750	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	"
Chloroform	ND	120	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	140	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	100	"	"	"	"	"	"	"
Benzene	280	81	"	"	"	"	"	"	"
Carbon tetrachloride	ND	160	"	"	"	"	"	"	"
Trichloroethene	36000	140	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	230	"	"	"	"	"	"	"

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-024 (E612109-15) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	170	ug/m3	25	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	120	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	210	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	120	"	"	"	"	"	"	"
Toluene	2100	95	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	140	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	210	"	"	"	"	"	"	"
Dibromochloromethane	ND	220	"	"	"	"	"	"	"
Tetrachloroethene	170	170	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	190	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	170	"	"	"	"	"	"	"
Chlorobenzene	ND	120	"	"	"	"	"	"	"
Ethylbenzene	270	110	"	"	"	"	"	"	"
m,p-Xylene	530	220	"	"	"	"	"	"	"
Styrene	ND	110	"	"	"	"	"	"	"
o-Xylene	150	110	"	"	"	"	"	"	"
Bromoform	ND	260	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	170	"	"	"	"	"	"	"
4-Ethyltoluene	ND	120	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	120	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	120	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	940	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1300	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		88.7 %	76-134	"	"	"	"	"	"
Surrogate: Toluene-d8		98.6 %	78-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		90.4 %	77-127	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-029 (E612109-16) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	"
Vinyl chloride	ND	13	"	"	"	"	"	"	"
Bromomethane	ND	79	"	"	"	"	"	"	"
Chloroethane	ND	40	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	"
Carbon disulfide	ND	32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	"
Chloroform	ND	25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	"
Benzene	ND	16	"	"	"	"	"	"	"
Carbon tetrachloride	ND	32	"	"	"	"	"	"	"
Trichloroethene	12000	27	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	"
Bromodichloromethane	ND	34	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
Toluene	ND	19	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	"
Dibromochloromethane	ND	43	"	"	"	"	"	"	"
Tetrachloroethene	51	34	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
Chlorobenzene	ND	23	"	"	"	"	"	"	"
Ethylbenzene	ND	22	"	"	"	"	"	"	"
m,p-Xylene	ND	44	"	"	"	"	"	"	"
Styrene	ND	22	"	"	"	"	"	"	"
o-Xylene	ND	22	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Project: EPS122016-10
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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16348-VI-029 (E612109-16) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16

Bromoform	ND	52	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	"
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
4-Ethyltoluene	ND	25	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.2 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.2 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		93.5 %	77-127	"	"	"	"	"	"

16348-VI-027 (E612109-17) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16

Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	"
Chloromethane	ND	10	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	"
Vinyl chloride	ND	13	"	"	"	"	"	"	"
Bromomethane	ND	79	"	"	"	"	"	"	"
Chloroethane	ND	40	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	"
Carbon disulfide	ND	32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	"
Chloroform	ND	25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	"
Benzene	ND	16	"	"	"	"	"	"	"
Carbon tetrachloride	ND	32	"	"	"	"	"	"	"
Trichloroethene	8300	27	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-027 (E612109-17) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	34	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
Toluene	ND	19	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	"
Dibromochloromethane	ND	43	"	"	"	"	"	"	"
Tetrachloroethene	37	34	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
Chlorobenzene	ND	23	"	"	"	"	"	"	"
Ethylbenzene	ND	22	"	"	"	"	"	"	"
m,p-Xylene	ND	44	"	"	"	"	"	"	"
Styrene	ND	22	"	"	"	"	"	"	"
o-Xylene	ND	22	"	"	"	"	"	"	"
Bromoform	ND	52	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
4-Ethyltoluene	ND	25	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.5 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.2 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		96.1 %	77-127	"	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-043 (E612109-18) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	"
Vinyl chloride	ND	13	"	"	"	"	"	"	"
Bromomethane	ND	79	"	"	"	"	"	"	"
Chloroethane	ND	40	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	"
Carbon disulfide	ND	32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	"
Chloroform	96	25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	"
Benzene	ND	16	"	"	"	"	"	"	"
Carbon tetrachloride	ND	32	"	"	"	"	"	"	"
Trichloroethene	17000	140	"	25	"	"	24-Dec-16	"	
1,2-Dichloropropane	ND	47	"	5	"	"	22-Dec-16	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
Toluene	ND	19	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	"
Dibromochloromethane	ND	43	"	"	"	"	"	"	"
Tetrachloroethene	850	34	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
Chlorobenzene	ND	23	"	"	"	"	"	"	"
Ethylbenzene	ND	22	"	"	"	"	"	"	"
m,p-Xylene	ND	44	"	"	"	"	"	"	"
Styrene	ND	22	"	"	"	"	"	"	"
o-Xylene	ND	22	"	"	"	"	"	"	"

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-043 (E612109-18) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromoform	ND	52	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
4-Ethyltoluene	ND	25	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.3 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.1 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		89.1 %	77-127	"	"	"	"	"	"
16348-VI-021 (E612109-19) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	"
Vinyl chloride	ND	13	"	"	"	"	"	"	"
Bromomethane	ND	79	"	"	"	"	"	"	"
Chloroethane	ND	40	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	"
Carbon disulfide	ND	32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	"
Chloroform	ND	25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	110	28	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	"
Benzene	ND	16	"	"	"	"	"	"	"
Carbon tetrachloride	ND	32	"	"	"	"	"	"	"
Trichloroethene	4500	27	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	"

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-021 (E612109-19) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	34	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
Toluene	ND	19	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	"
Dibromochloromethane	ND	43	"	"	"	"	"	"	"
Tetrachloroethene	4100	34	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
Chlorobenzene	ND	23	"	"	"	"	"	"	"
Ethylbenzene	46	22	"	"	"	"	"	"	"
m,p-Xylene	56	44	"	"	"	"	"	"	"
Styrene	ND	22	"	"	"	"	"	"	"
o-Xylene	45	22	"	"	"	"	"	"	"
Bromoform	ND	52	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
4-Ethyltoluene	ND	25	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.6 %	76-134	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.7 %	78-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.7 %	77-127	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-005 (E612109-20) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	ND	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	3400	27	"	5	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	1	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	5.9	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	190	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	5.3	4.4	"	"	"	"	"	"	"
m,p-Xylene	12	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	6.2	4.4	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-005 (E612109-20) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.5 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		97.7 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		94.9 %	77-127	"	"	"	"	"	"
16348-VI-004 (E612109-21) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	ND	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	2600	27	"	5	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	1	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-004 (E612109-21) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	6.8	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	23	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	97	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	8.7	4.4	"	"	"	"	"	"	"
m,p-Xylene	23	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	8.9	4.4	"	"	"	"	"	"	"
Bromoform	ND	10	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	5.5	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.6 %	76-134	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.6 %	78-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.5 %	77-127	"	"	"	"	"	

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-009 (E612109-22) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	5.8	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorodifluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	4.2	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	2500	27	"	5	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	1	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	6.3	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	86	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	ND	4.4	"	"	"	"	"	"	"
m,p-Xylene	9.4	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	4.6	4.4	"	"	"	"	"	"	"

EPS, Inc.
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Project: EPS122016-10
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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16348-VI-009 (E612109-22) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16

Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.3 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.0 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		90.9 %	77-127	"	"	"	"	"	"

16348-VI-018 (E612109-24) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16

Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	"
Vinyl chloride	ND	13	"	"	"	"	"	"	"
Bromomethane	ND	79	"	"	"	"	"	"	"
Chloroethane	ND	40	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	"
Carbon disulfide	ND	32	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	48	40	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	310	20	"	"	"	"	"	"	"
Chloroform	ND	25	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	"
Benzene	ND	16	"	"	"	"	"	"	"
Carbon tetrachloride	ND	32	"	"	"	"	"	"	"
Trichloroethene	3000	27	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	"

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-018 (E612109-24) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	34	ug/m3	5	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	"
Toluene	ND	19	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	"
Dibromochloromethane	ND	43	"	"	"	"	"	"	"
Tetrachloroethene	43	34	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
Chlorobenzene	ND	23	"	"	"	"	"	"	"
Ethylbenzene	ND	22	"	"	"	"	"	"	"
m,p-Xylene	ND	44	"	"	"	"	"	"	"
Styrene	ND	22	"	"	"	"	"	"	"
o-Xylene	ND	22	"	"	"	"	"	"	"
Bromoform	ND	52	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	"
4-Ethyltoluene	ND	25	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.6 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		97.2 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		95.3 %	77-127	"	"	"	"	"	"

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-026 (E612109-26) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	ND	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	280	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	3.9	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	ND	4.4	"	"	"	"	"	"	"
m,p-Xylene	ND	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	ND	4.4	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-026 (E612109-26) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.4 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.7 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		89.6 %	77-127	"	"	"	"	"	"
16349-VI-032 (E612109-27) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	ND	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	150	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-032 (E612109-27) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	6.8	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	9.8	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	ND	4.4	"	"	"	"	"	"	"
m,p-Xylene	ND	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	ND	4.4	"	"	"	"	"	"	"
Bromoform	ND	10	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	5.9	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.1 %	76-134	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.7 %	78-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.1 %	77-127	"	"	"	"	"	

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-033 (E612109-28) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	3.9	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	270	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	27	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	27	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	9.9	4.4	"	"	"	"	"	"	"
m,p-Xylene	41	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	13	4.4	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Project: EPS122016-10
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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16349-VI-033 (E612109-28) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16

Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	10	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.2 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.6 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		91.9 %	77-127	"	"	"	"	"	"

16349-VI-028 (E612109-29) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	20	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	4.4	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	1500	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"

EPS, Inc.
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-028 (E612109-29) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	6.8	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	15	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	8.9	4.4	"	"	"	"	"	"	"
m,p-Xylene	42	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	13	4.4	"	"	"	"	"	"	"
Bromoform	ND	10	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	7.7	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	15	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		89.2 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	77-127		"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-025 (E612109-30) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	51	4.0	"	"	"	"	"	"	"
Chloroform	14	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	ND	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	1100	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	5.6	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	ND	4.4	"	"	"	"	"	"	"
m,p-Xylene	10	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	ND	4.4	"	"	"	"	"	"	"

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-025 (E612109-30) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	6.2	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.0 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.7 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		97.6 %	77-127	"	"	"	"	"	"
16349-VI-046 (E612109-32) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	140	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	13	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	3.3	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	150	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-046 (E612109-32) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	6.8	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	8.4	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	370	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	4.5	4.4	"	"	"	"	"	"	"
m,p-Xylene	21	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	8.6	4.4	"	"	"	"	"	"	"
Bromoform	ND	10	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	5.6	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	12	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		90.9 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	77-127		"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-047 (E612109-33) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"	"
Bromomethane	ND	16	"	"	"	"	"	"	"
Chloroethane	ND	8.0	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	120	4.0	"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	"
Carbon disulfide	ND	6.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.9	"	"	"	"	"	"	"
1,1,1-Trichloroethane	10	5.5	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	"
Benzene	7.3	3.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	"
Trichloroethene	110	5.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	"
Toluene	39	3.8	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	"
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	"
Tetrachloroethene	280	6.9	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"	"
Ethylbenzene	6.2	4.4	"	"	"	"	"	"	"
m,p-Xylene	25	8.8	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"
o-Xylene	8.4	4.4	"	"	"	"	"	"	"

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Project: EPS122016-10
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Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-047 (E612109-33) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromoform	ND	10	ug/m3	1	EL62117	21-Dec-16	22-Dec-16	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	7.9	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.9 %	76-134	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.8 %	78-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		91.9 %	77-127	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-023 (E612109-14) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
2-Butanone (MEK)	ND	2500	ug/m3	0.05	EL62214	21-Dec-16	21-Dec-16	H&P 8260SV	
2-Hexanone (MBK)	ND	2500	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	2500	"	"	"	"	"	"	"
Dichlorodifluoromethane (F12)	ND	500	"	"	"	"	"	"	"
Chloromethane	ND	500	"	"	"	"	"	"	"
Vinyl chloride	ND	50	"	"	"	"	"	"	"
Bromomethane	ND	500	"	"	"	"	"	"	"
Chloroethane	ND	500	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	500	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	500	"	"	"	"	"	"	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	500	"	"	"	"	"	"	"
Carbon disulfide	ND	500	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	500	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	500	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	500	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	1100	500	"	"	"	"	"	"	"
Chloroform	2200	100	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	500	"	"	"	"	"	"	"
Carbon tetrachloride	130	100	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	100	"	"	"	"	"	"	"
Benzene	110	100	"	"	"	"	"	"	"
Trichloroethene	1700000	2000	"	1	"	"	"	"	"
1,2-Dichloropropane	ND	500	"	0.05	"	"	"	"	"
Bromodichloromethane	ND	500	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	500	"	"	"	"	"	"	"
Toluene	ND	1000	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	500	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	500	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	"
Tetrachloroethene	3200	100	"	"	"	"	"	"	"
Dibromochloromethane	ND	500	"	"	"	"	"	"	"
Chlorobenzene	ND	100	"	"	"	"	"	"	"
Ethylbenzene	ND	500	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	500	"	"	"	"	"	"	"
m,p-Xylene	ND	500	"	"	"	"	"	"	"
o-Xylene	ND	500	"	"	"	"	"	"	"
Styrene	ND	500	"	"	"	"	"	"	"
Bromoform	ND	500	"	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-023 (E612109-14) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
1,1,2,2-Tetrachloroethane	ND	500	ug/m3	0.05	EL62214	21-Dec-16	21-Dec-16	H&P 8260SV	
1,3,5-Trimethylbenzene	ND	500	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	500	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	500	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	75-125	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	75-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	75-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	75-125	"	"	"	"	"	
16348-VI-014 (E612109-23) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
2-Butanone (MEK)	ND	50000	ug/m3	1	EL62214	21-Dec-16	21-Dec-16	H&P 8260SV	
2-Hexanone (MBK)	ND	50000	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	50000	"	"	"	"	"	"	"
Dichlorodifluoromethane (F12)	ND	10000	"	"	"	"	"	"	"
Chloromethane	ND	10000	"	"	"	"	"	"	"
Vinyl chloride	ND	1000	"	"	"	"	"	"	"
Bromomethane	ND	10000	"	"	"	"	"	"	"
Chloroethane	ND	10000	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	10000	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	10000	"	"	"	"	"	"	"
Carbon disulfide	ND	10000	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	10000	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	10000	10000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	46000	10000	"	"	"	"	"	"	
Chloroform	2200	2000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	2000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2000	"	"	"	"	"	"	
Benzene	ND	2000	"	"	"	"	"	"	
Trichloroethene	90000	2000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10000	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-VI-014 (E612109-23) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	10000	ug/m3	1	EL62214	21-Dec-16	21-Dec-16	H&P 8260SV	
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	"
Toluene	ND	20000	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	10000	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	10000	"	"	"	"	"	"	"
Tetrachloroethene	ND	2000	"	"	"	"	"	"	"
Dibromochloromethane	ND	10000	"	"	"	"	"	"	"
Chlorobenzene	ND	2000	"	"	"	"	"	"	"
Ethylbenzene	ND	10000	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	"
m,p-Xylene	ND	10000	"	"	"	"	"	"	"
o-Xylene	ND	10000	"	"	"	"	"	"	"
Styrene	ND	10000	"	"	"	"	"	"	"
Bromoform	ND	10000	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	10000	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	10000	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>	117 %	75-125	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	75-125	"	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>	104 %	75-125	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	104 %	75-125	"	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-DUP (E612109-25) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
2-Butanone (MEK)	ND	2500	ug/m3	0.05	EL62212	21-Dec-16	21-Dec-16	H&P 8260SV	
2-Hexanone (MBK)	ND	2500	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	2500	"	"	"	"	"	"	"
Dichlorodifluoromethane (F12)	ND	500	"	"	"	"	"	"	"
Chloromethane	ND	500	"	"	"	"	"	"	"
Vinyl chloride	ND	50	"	"	"	"	"	"	"
Bromomethane	ND	500	"	"	"	"	"	"	"
Chloroethane	ND	500	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	500	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	500	"	"	"	"	"	"	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	500	"	"	"	"	"	"	"
Carbon disulfide	ND	500	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	500	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	500	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	500	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	680	500	"	"	"	"	"	"	"
Chloroform	1400	100	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	500	"	"	"	"	"	"	"
Carbon tetrachloride	ND	100	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	100	"	"	"	"	"	"	"
Benzene	ND	100	"	"	"	"	"	"	"
Trichloroethene	1300000	10000	"	5	"	"	"	"	"
1,2-Dichloropropane	ND	500	"	0.05	"	"	"	"	"
Bromodichloromethane	ND	500	"	"	"	"	"	"	"
<i>cis</i> -1,3-Dichloropropene	ND	500	"	"	"	"	"	"	"
Toluene	ND	1000	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	500	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	500	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	"
Tetrachloroethene	1900	100	"	"	"	"	"	"	"
Dibromochloromethane	ND	500	"	"	"	"	"	"	"
Chlorobenzene	ND	100	"	"	"	"	"	"	"
Ethylbenzene	ND	500	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	500	"	"	"	"	"	"	"
m,p-Xylene	ND	500	"	"	"	"	"	"	"
<i>o</i> -Xylene	ND	500	"	"	"	"	"	"	"
Styrene	ND	500	"	"	"	"	"	"	"
Bromoform	ND	500	"	"	"	"	"	"	"

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16348-DUP (E612109-25) Vapor Sampled: 13-Dec-16 Received: 20-Dec-16									
1,1,2,2-Tetrachloroethane	ND	500	ug/m3	0.05	EL62212	21-Dec-16	21-Dec-16	H&P 8260SV	
1,3,5-Trimethylbenzene	ND	500	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	500	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	500	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		107 %	75-125		"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	75-125		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		100 %	75-125		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	75-125		"	"	"	"	"
16349-VI-045 (E612109-31) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
2-Butanone (MEK)	ND	50000	ug/m3	1	EL62211	21-Dec-16	21-Dec-16	H&P 8260SV	
2-Hexanone (MBK)	ND	50000	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	50000	"	"	"	"	"	"	"
Dichlorodifluoromethane (F12)	ND	10000	"	"	"	"	"	"	"
Chloromethane	ND	10000	"	"	"	"	"	"	"
Vinyl chloride	ND	1000	"	"	"	"	"	"	"
Bromomethane	ND	10000	"	"	"	"	"	"	"
Chloroethane	ND	10000	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	10000	"	"	"	"	"	"	"
1,1-Dichloroethene	290000	10000	"	"	"	"	"	"	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	10000	"	"	"	"	"	"	"
Carbon disulfide	ND	10000	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	10000	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	"
Chloroform	ND	2000	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	10000	"	"	"	"	"	"	"
Carbon tetrachloride	ND	2000	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	2000	"	"	"	"	"	"	"
Benzene	ND	2000	"	"	"	"	"	"	"
Trichloroethene	3800	2000	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	10000	"	"	"	"	"	"	"

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Project Manager: Mr. Justin Vickery

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
16349-VI-045 (E612109-31) Vapor Sampled: 14-Dec-16 Received: 20-Dec-16									
Bromodichloromethane	ND	10000	ug/m3	1	EL62211	21-Dec-16	21-Dec-16	H&P 8260SV	
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	"
Toluene	ND	20000	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	10000	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	10000	"	"	"	"	"	"	"
Tetrachloroethene	13000	2000	"	"	"	"	"	"	"
Dibromochloromethane	ND	10000	"	"	"	"	"	"	"
Chlorobenzene	ND	2000	"	"	"	"	"	"	"
Ethylbenzene	ND	10000	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	"
m,p-Xylene	ND	10000	"	"	"	"	"	"	"
o-Xylene	ND	10000	"	"	"	"	"	"	"
Styrene	ND	10000	"	"	"	"	"	"	"
Bromoform	ND	10000	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	10000	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	10000	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>	<i>75-125</i>		"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>100 %</i>	<i>75-125</i>		"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>118 %</i>	<i>75-125</i>		"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>86.5 %</i>	<i>75-125</i>		"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62016 - TO-15

Blank (EL62016-BLK2)

Prepared & Analyzed: 20-Dec-16

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3
Chloromethane	ND	0.21	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"
Vinyl chloride	ND	0.13	"
Bromomethane	ND	0.39	"
Chloroethane	ND	0.27	"
Trichlorofluoromethane (F11)	ND	0.56	"
1,1-Dichloroethene	ND	0.40	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"
Methylene chloride (Dichloromethane)	ND	0.35	"
Carbon disulfide	ND	0.32	"
trans-1,2-Dichloroethene	ND	0.40	"
1,1-Dichloroethane	ND	0.41	"
2-Butanone (MEK)	ND	0.60	"
cis-1,2-Dichloroethene	ND	0.40	"
Chloroform	ND	0.25	"
1,1,1-Trichloroethane	ND	0.55	"
1,2-Dichloroethane (EDC)	ND	0.41	"
Benzene	ND	0.16	"
Carbon tetrachloride	ND	0.32	"
Trichloroethene	ND	0.55	"
1,2-Dichloropropane	ND	0.47	"
Bromodichloromethane	ND	0.68	"
cis-1,3-Dichloropropene	ND	0.46	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"
trans-1,3-Dichloropropene	ND	0.46	"
Toluene	ND	0.76	"
1,1,2-Trichloroethane	ND	0.55	"
2-Hexanone (MBK)	ND	0.83	"
Dibromochloromethane	ND	0.86	"
Tetrachloroethene	ND	0.69	"
1,2-Dibromoethane (EDB)	ND	0.78	"
1,1,1,2-Tetrachloroethane	ND	0.70	"
Chlorobenzene	ND	0.47	"

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62016 - TO-15

Blank (EL62016-BLK2)

Prepared & Analyzed: 20-Dec-16

Ethylbenzene	ND	0.44	ug/m3							
m,p-Xylene	ND	0.44	"							
Styrene	ND	0.43	"							
o-Xylene	ND	0.44	"							
Bromoform	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.70	"							
4-Ethyltoluene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.61	"							
1,4-Dichlorobenzene	ND	0.61	"							
1,2-Dichlorobenzene	ND	0.61	"							
1,2,4-Trichlorobenzene	ND	1.9	"							
Hexachlorobutadiene	ND	2.7	"							

Surrogate: 1,2-Dichloroethane-d4	38.3	"	42.9	89.4	76-134
Surrogate: Toluene-d8	41.3	"	41.4	99.8	78-125
Surrogate: 4-Bromofluorobenzene	75.4	"	72.9	103	77-127

LCS (EL62016-BS2)

Prepared & Analyzed: 20-Dec-16

Dichlorodifluoromethane (F12)	17	1.0	ug/m3	20.2	84.9	59-128
Vinyl chloride	7.8	0.13	"	10.4	74.5	64-127
Chloroethane	7.0	0.27	"	10.7	65.1	63-127
Trichlorofluoromethane (F11)	18	0.56	"	22.6	78.2	62-126
1,1-Dichloroethene	13	0.40	"	16.2	78.4	61-133
1,1,2-Trichlorotrifluoroethane (F113)	26	0.77	"	31.0	83.0	66-126
Methylene chloride (Dichloromethane)	11	0.35	"	14.2	74.4	62-115
trans-1,2-Dichloroethene	12	0.40	"	16.2	74.9	67-124
1,1-Dichloroethane	13	0.41	"	16.5	77.2	68-126
cis-1,2-Dichloroethene	12	0.40	"	16.0	75.7	70-121
Chloroform	16	0.25	"	19.8	81.8	68-123
1,1,1-Trichloroethane	19	0.55	"	22.2	84.3	68-125
1,2-Dichloroethane (EDC)	13	0.41	"	16.5	77.5	65-128
Benzene	11	0.16	"	13.0	84.6	69-119

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Limit	Notes
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Batch EL62016 - TO-15

LCS (EL62016-BS2)

Prepared & Analyzed: 20-Dec-16

Carbon tetrachloride	21	0.32	ug/m3	25.6	83.8	68-132
Trichloroethene	24	0.55	"	21.9	107	71-123
Toluene	13	0.76	"	15.4	87.4	66-119
1,1,2-Trichloroethane	20	0.55	"	22.2	89.0	73-119
Tetrachloroethene	26	0.69	"	27.6	93.3	66-124
1,1,1,2-Tetrachloroethane	28	0.70	"	28.0	98.3	67-129
Ethylbenzene	17	0.44	"	17.7	97.7	70-124
m,p-Xylene	16	0.44	"	17.7	92.5	61-134
o-Xylene	17	0.44	"	17.7	93.5	67-125
1,1,2,2-Tetrachloroethane	21	0.70	"	28.0	75.2	65-127
<i>Surrogate: 1,2-Dichloroethane-d4</i>	38.5		"	42.9	89.8	76-134
<i>Surrogate: Toluene-d8</i>	41.1		"	41.4	99.3	78-125
<i>Surrogate: 4-Bromofluorobenzene</i>	79.2		"	72.9	109	77-127

LCS Dup (EL62016-BSD2)

Prepared & Analyzed: 20-Dec-16

Dichlorodifluoromethane (F12)	18	1.0	ug/m3	20.2	89.9	59-128	5.70	25
Vinyl chloride	8.4	0.13	"	10.4	80.8	64-127	8.03	25
Chloroethane	7.3	0.27	"	10.7	68.4	63-127	4.86	25
Trichlorodifluoromethane (F11)	19	0.56	"	22.6	82.7	62-126	5.57	25
1,1-Dichloroethene	13	0.40	"	16.2	82.4	61-133	4.95	25
1,1,2-Trichlorotrifluoroethane (F113)	26	0.77	"	31.0	84.8	66-126	2.07	25
Methylene chloride (Dichloromethane)	11	0.35	"	14.2	78.2	62-115	4.89	25
trans-1,2-Dichloroethene	13	0.40	"	16.2	78.2	67-124	4.23	25
1,1-Dichloroethane	13	0.41	"	16.5	81.2	68-126	5.03	25
cis-1,2-Dichloroethene	13	0.40	"	16.0	83.0	70-121	9.19	25
Chloroform	17	0.25	"	19.8	86.3	68-123	5.33	25
1,1,1-Trichloroethane	20	0.55	"	22.2	89.3	68-125	5.71	25
1,2-Dichloroethane (EDC)	14	0.41	"	16.5	82.7	65-128	6.53	25
Benzene	12	0.16	"	13.0	90.9	69-119	7.11	25
Carbon tetrachloride	22	0.32	"	25.6	86.8	68-132	3.51	25
Trichloroethene	24	0.55	"	21.9	111	71-123	2.96	25
Toluene	14	0.76	"	15.4	89.4	66-119	2.25	25
1,1,2-Trichloroethane	20	0.55	"	22.2	91.0	73-119	2.20	25

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62016 - TO-15

LCS Dup (EL62016-BSD2)										Prepared & Analyzed: 20-Dec-16
Tetrachloroethene	26	0.69	ug/m3	27.6	93.8	66-124	0.533	25		
1,1,1,2-Tetrachloroethane	28	0.70	"	28.0	99.8	67-129	1.51	25		
Ethylbenzene	17	0.44	"	17.7	98.2	70-124	0.508	25		
m,p-Xylene	17	0.44	"	17.7	93.7	61-134	1.34	25		
o-Xylene	17	0.44	"	17.7	96.0	67-125	2.62	25		
1,1,2,2-Tetrachloroethane	21	0.70	"	28.0	75.9	65-127	0.988	25		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	39.8		"	42.9	92.8	76-134				
<i>Surrogate: Toluene-d8</i>	41.3		"	41.4	99.8	78-125				
<i>Surrogate: 4-Bromofluorobenzene</i>	77.6		"	72.9	106	77-127				

Batch EL62117 - TO-15

Blank (EL62117-BLK1)										Prepared: 21-Dec-16 Analyzed: 22-Dec-16
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.6	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	4.9	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62117 - TO-15

Blank (EL62117-BLK1)

Prepared: 21-Dec-16 Analyzed: 22-Dec-16

Trichloroethene	ND	5.5	ug/m3
1,2-Dichloropropane	ND	9.4	"
Bromodichloromethane	ND	6.8	"
cis-1,3-Dichloropropene	ND	4.6	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"
trans-1,3-Dichloropropene	ND	4.6	"
Toluene	ND	3.8	"
1,1,2-Trichloroethane	ND	5.5	"
2-Hexanone (MBK)	ND	8.3	"
Dibromochloromethane	ND	8.6	"
Tetrachloroethene	ND	6.9	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,1,1,2-Tetrachloroethane	ND	7.0	"
Chlorobenzene	ND	4.7	"
Ethylbenzene	ND	4.4	"
m,p-Xylene	ND	8.8	"
Styrene	ND	4.3	"
o-Xylene	ND	4.4	"
Bromoform	ND	10	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
4-Ethyltoluene	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	12	"
1,4-Dichlorobenzene	ND	12	"
1,2-Dichlorobenzene	ND	12	"
1,2,4-Trichlorobenzene	ND	38	"
Hexachlorobutadiene	ND	54	"

Surrogate: 1,2-Dichloroethane-d4	37.5	"	42.9	87.6	76-134
Surrogate: Toluene-d8	40.9	"	41.4	98.9	78-125
Surrogate: 4-Bromofluorobenzene	69.2	"	72.9	94.9	77-127

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62117 - TO-15

LCS (EL62117-BS1)							Prepared: 21-Dec-16 Analyzed: 22-Dec-16			
Dichlorodifluoromethane (F12)	87	5.0	ug/m3	101		86.7	59-128			
Vinyl chloride	40	2.6	"	52.0		76.5	64-127			
Chloroethane	36	8.0	"	53.6		66.5	63-127			
Trichlorofluoromethane (F11)	91	5.6	"	113		80.7	62-126			
1,1-Dichloroethene	65	4.0	"	80.8		80.0	61-133			
1,1,2-Trichlorotrifluoroethane (F113)	130	7.7	"	155		81.9	66-126			
Methylene chloride (Dichloromethane)	53	3.5	"	70.8		74.4	62-115			
trans-1,2-Dichloroethene	59	8.0	"	80.8		73.5	67-124			
1,1-Dichloroethane	64	4.1	"	82.4		78.0	68-126			
cis-1,2-Dichloroethene	60	4.0	"	80.0		75.0	70-121			
Chloroform	83	4.9	"	99.2		83.8	68-123			
1,1,1-Trichloroethane	97	5.5	"	111		87.4	68-125			
1,2-Dichloroethane (EDC)	66	4.1	"	82.4		80.4	65-128			
Benzene	56	3.2	"	64.8		86.2	69-119			
Carbon tetrachloride	97	6.4	"	128		75.8	68-132			
Trichloroethene	130	5.5	"	110		118	71-123			
Toluene	72	3.8	"	76.8		93.2	66-119			
1,1,2-Trichloroethane	110	5.5	"	111		94.6	73-119			
Tetrachloroethene	140	6.9	"	138		100	66-124			
1,1,1,2-Tetrachloroethane	150	7.0	"	140		105	67-129			
Ethylbenzene	91	4.4	"	88.4		102	70-124			
m,p-Xylene	86	8.8	"	88.4		96.8	61-134			
o-Xylene	89	4.4	"	88.4		100	67-125			
1,1,2,2-Tetrachloroethane	110	7.0	"	140		77.4	65-127			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	37.0		"	42.9		86.3	76-134			
<i>Surrogate: Toluene-d8</i>	40.8		"	41.4		98.7	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	73.9		"	72.9		101	77-127			

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Limit Notes
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Batch EL62117 - TO-15

LCS Dup (EL62117-BSD1)									
Prepared: 21-Dec-16 Analyzed: 22-Dec-16									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Limit Notes
Dichlorodifluoromethane (F12)	85	5.0	ug/m3	101	84.3	59-128	2.85	25	
Vinyl chloride	38	2.6	"	52.0	73.7	64-127	3.78	25	
Chloroethane	34	8.0	"	53.6	63.6	63-127	4.37	25	
Trichlorofluoromethane (F11)	89	5.6	"	113	78.2	62-126	3.13	25	
1,1-Dichloroethene	62	4.0	"	80.8	77.0	61-133	3.80	25	
1,1,2-Trichlorotrifluoroethane (F113)	120	7.7	"	155	79.5	66-126	2.89	25	
Methylene chloride (Dichloromethane)	51	3.5	"	70.8	71.9	62-115	3.40	25	
trans-1,2-Dichloroethene	60	8.0	"	80.8	74.1	67-124	0.877	25	
1,1-Dichloroethane	61	4.1	"	82.4	74.2	68-126	4.98	25	
cis-1,2-Dichloroethene	59	4.0	"	80.0	74.2	70-121	1.08	25	
Chloroform	80	4.9	"	99.2	80.6	68-123	4.00	25	
1,1,1-Trichloroethane	94	5.5	"	111	84.6	68-125	3.23	25	
1,2-Dichloroethane (EDC)	64	4.1	"	82.4	77.7	65-128	3.40	25	
Benzene	53	3.2	"	64.8	82.4	69-119	4.56	25	
Carbon tetrachloride	110	6.4	"	128	83.1	68-132	9.23	25	
Trichloroethene	120	5.5	"	110	114	71-123	3.31	25	
Toluene	71	3.8	"	76.8	91.9	66-119	1.34	25	
1,1,2-Trichloroethane	100	5.5	"	111	90.7	73-119	4.18	25	
Tetrachloroethene	130	6.9	"	138	97.2	66-124	3.28	25	
1,1,1,2-Tetrachloroethane	140	7.0	"	140	103	67-129	1.77	25	
Ethylbenzene	89	4.4	"	88.4	101	70-124	1.42	25	
m,p-Xylene	86	8.8	"	88.4	96.9	61-134	0.0514	25	
o-Xylene	87	4.4	"	88.4	98.4	67-125	1.95	25	
1,1,2,2-Tetrachloroethane	110	7.0	"	140	75.3	65-127	2.80	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	36.5		"	42.9	85.1	76-134			
<i>Surrogate: Toluene-d8</i>	40.2		"	41.4	97.1	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	75.4		"	72.9	103	77-127			

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62211 - EPA 5030

Blank (EL62211-BLK1)

Prepared & Analyzed: 21-Dec-16

2-Butanone (MEK)	ND	2500	ug/m3
2-Hexanone (MBK)	ND	2500	"
4-Methyl-2-pentanone (MIBK)	ND	2500	"
Dichlorodifluoromethane (F12)	ND	500	"
Chloromethane	ND	500	"
Vinyl chloride	ND	50	"
Bromomethane	ND	500	"
Chloroethane	ND	500	"
Trichlorofluoromethane (F11)	ND	500	"
1,1-Dichloroethene	ND	500	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	500	"
Carbon disulfide	ND	500	"
Methylene chloride (Dichloromethane)	ND	500	"
trans-1,2-Dichloroethene	ND	500	"
1,1-Dichloroethane	ND	500	"
cis-1,2-Dichloroethene	ND	500	"
Chloroform	ND	100	"
1,1,1-Trichloroethane	ND	500	"
Carbon tetrachloride	ND	100	"
1,2-Dichloroethane (EDC)	ND	100	"
Benzene	ND	100	"
Trichloroethene	ND	100	"
1,2-Dichloropropane	ND	500	"
Bromodichloromethane	ND	500	"
cis-1,3-Dichloropropene	ND	500	"
Toluene	ND	1000	"
trans-1,3-Dichloropropene	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,2-Dibromoethane (EDB)	ND	500	"
Tetrachloroethene	ND	100	"
Dibromochloromethane	ND	500	"
Chlorobenzene	ND	100	"
Ethylbenzene	ND	500	"
1,1,1,2-Tetrachloroethane	ND	500	"

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03-Jan-17 11:11

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62211 - EPA 5030

Blank (EL62211-BLK1)

Prepared & Analyzed: 21-Dec-16

m,p-Xylene	ND	500	ug/m3							
o-Xylene	ND	500	"							
Styrene	ND	500	"							
Bromoform	ND	500	"							
1,1,2,2-Tetrachloroethane	ND	500	"							
1,3,5-Trimethylbenzene	ND	500	"							
1,2,4-Trimethylbenzene	ND	500	"							
1,3-Dichlorobenzene	ND	500	"							
1,4-Dichlorobenzene	ND	500	"							
1,2-Dichlorobenzene	ND	500	"							
1,2,4-Trichlorobenzene	ND	500	"							
Hexachlorobutadiene	ND	500	"							

Surrogate: Dibromofluoromethane	2360	"	2500	94.2	75-125
Surrogate: 1,2-Dichloroethane-d4	2220	"	2500	88.7	75-125
Surrogate: Toluene-d8	2290	"	2500	91.7	75-125
Surrogate: 4-Bromofluorobenzene	2450	"	2500	98.0	75-125

LCS (EL62211-BS1)

Prepared & Analyzed: 21-Dec-16

Dichlorodifluoromethane (F12)	3900	500	ug/m3	5000	77.2	70-130
Vinyl chloride	5600	50	"	5000	112	70-130
Chloroethane	6200	500	"	5000	124	70-130
Trichlorofluoromethane (F11)	3900	500	"	5000	78.8	70-130
1,1-Dichloroethene	4000	500	"	5000	80.2	70-130
1,1,2 Trichlorotrifluoroethane (F113)	4300	500	"	5000	85.6	70-130
Methylene chloride (Dichloromethane)	4200	500	"	5000	83.6	70-130
trans-1,2-Dichloroethene	4500	500	"	5000	90.7	70-130
1,1-Dichloroethane	4400	500	"	5000	87.3	70-130
cis-1,2-Dichloroethene	5100	500	"	5000	101	70-130
Chloroform	4400	100	"	5000	87.3	70-130
1,1,1-Trichloroethane	4500	500	"	5000	89.1	70-130
Carbon tetrachloride	4400	100	"	5000	88.1	70-130
1,2-Dichloroethane (EDC)	4400	100	"	5000	87.4	70-130
Benzene	4700	100	"	5000	93.3	70-130

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
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Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch EL62211 - EPA 5030

LCS (EL62211-BS1)

Prepared & Analyzed: 21-Dec-16

Trichloroethene	4700	100	ug/m3	5000	94.3	70-130
Toluene	4900	1000	"	5000	97.4	70-130
1,1,2-Trichloroethane	4700	500	"	5000	93.4	70-130
Tetrachloroethene	5300	100	"	5000	106	70-130
Ethylbenzene	5700	500	"	5000	114	70-130
1,1,1,2-Tetrachloroethane	5300	500	"	5000	105	70-130
m,p-Xylene	11000	500	"	10000	111	70-130
o-Xylene	5500	500	"	5000	110	70-130
1,1,2,2-Tetrachloroethane	4500	500	"	5000	89.0	70-130
<i>Surrogate: Dibromofluoromethane</i>	2240		"	2500	89.5	75-125
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2070		"	2500	82.9	75-125
<i>Surrogate: Toluene-d8</i>	2340		"	2500	93.6	75-125
<i>Surrogate: 4-Bromofluorobenzene</i>	2430		"	2500	97.1	75-125

Batch EL62212 - EPA 5030

Blank (EL62212-BLK1)

Prepared & Analyzed: 21-Dec-16

2-Butanone (MEK)	ND	2500	ug/m3
2-Hexanone (MBK)	ND	2500	"
4-Methyl-2-pentanone (MIBK)	ND	2500	"
Dichlorodifluoromethane (F12)	ND	500	"
Chloromethane	ND	500	"
Vinyl chloride	ND	50	"
Bromomethane	ND	500	"
Chloroethane	ND	500	"
Trichlorofluoromethane (F11)	ND	500	"
1,1-Dichloroethene	ND	500	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	500	"
Carbon disulfide	ND	500	"
Methylene chloride (Dichloromethane)	ND	500	"
trans-1,2-Dichloroethene	ND	500	"
1,1-Dichloroethane	ND	500	"
cis-1,2-Dichloroethene	ND	500	"

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Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62212 - EPA 5030

Blank (EL62212-BLK1)

Prepared & Analyzed: 21-Dec-16

Chloroform	ND	100	ug/m3							
1,1,1-Trichloroethane	ND	500	"							
Carbon tetrachloride	ND	100	"							
1,2-Dichloroethane (EDC)	ND	100	"							
Benzene	ND	100	"							
Trichloroethene	ND	100	"							
1,2-Dichloropropane	ND	500	"							
Bromodichloromethane	ND	500	"							
cis-1,3-Dichloropropene	ND	500	"							
Toluene	ND	1000	"							
trans-1,3-Dichloropropene	ND	500	"							
1,1,2-Trichloroethane	ND	500	"							
1,2-Dibromoethane (EDB)	ND	500	"							
Tetrachloroethene	ND	100	"							
Dibromochloromethane	ND	500	"							
Chlorobenzene	ND	100	"							
Ethylbenzene	ND	500	"							
1,1,1,2-Tetrachloroethane	ND	500	"							
m,p-Xylene	ND	500	"							
o-Xylene	ND	500	"							
Styrene	ND	500	"							
Bromoform	ND	500	"							
1,1,2,2-Tetrachloroethane	ND	500	"							
1,3,5-Trimethylbenzene	ND	500	"							
1,2,4-Trimethylbenzene	ND	500	"							
1,3-Dichlorobenzene	ND	500	"							
1,4-Dichlorobenzene	ND	500	"							
1,2-Dichlorobenzene	ND	500	"							
1,2,4-Trichlorobenzene	ND	500	"							
Hexachlorobutadiene	ND	500	"							
<i>Surrogate: Dibromofluoromethane</i>	2670	"	2500		107	75-125				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2380	"	2500		95.4	75-125				
<i>Surrogate: Toluene-d8</i>	2620	"	2500		105	75-125				

EPS, Inc.
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Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch EL62212 - EPA 5030

Blank (EL62212-BLK1)

Prepared & Analyzed: 21-Dec-16

Surrogate: 4-Bromofluorobenzene 2780 ug/m3 2500 III 75-125

LCS (EL62212-BS1)

Prepared & Analyzed: 21-Dec-16

Dichlorodifluoromethane (F12)	4400	500	ug/m3	5000	88.9	70-130
Vinyl chloride	4500	50	"	5000	90.0	70-130
Chloroethane	5100	500	"	5000	102	70-130
Trichlorofluoromethane (F11)	4600	500	"	5000	92.0	70-130
1,1-Dichloroethene	4600	500	"	5000	92.4	70-130
1,1,2 Trichlorotrifluoroethane (F113)	5300	500	"	5000	106	70-130
Methylene chloride (Dichloromethane)	4600	500	"	5000	91.3	70-130
trans-1,2-Dichloroethene	4700	500	"	5000	94.2	70-130
1,1-Dichloroethane	4600	500	"	5000	91.4	70-130
cis-1,2-Dichloroethene	4900	500	"	5000	97.0	70-130
Chloroform	4900	100	"	5000	99.0	70-130
1,1,1-Trichloroethane	4900	500	"	5000	97.8	70-130
Carbon tetrachloride	4700	100	"	5000	94.4	70-130
1,2-Dichloroethane (EDC)	5100	100	"	5000	103	70-130
Benzene	4600	100	"	5000	92.9	70-130
Trichloroethene	4900	100	"	5000	98.8	70-130
Toluene	4700	1000	"	5000	94.0	70-130
1,1,2-Trichloroethane	5100	500	"	5000	102	70-130
Tetrachloroethene	4900	100	"	5000	97.7	70-130
Ethylbenzene	4800	500	"	5000	96.4	70-130
1,1,1,2-Tetrachloroethane	5000	500	"	5000	101	70-130
m,p-Xylene	9500	500	"	10000	95.5	70-130
o-Xylene	4700	500	"	5000	94.1	70-130
1,1,2,2-Tetrachloroethane	5200	500	"	5000	105	70-130

Surrogate: Dibromofluoromethane	2650	"	2500	106	75-125
Surrogate: 1,2-Dichloroethane-d4	2600	"	2500	104	75-125
Surrogate: Toluene-d8	2670	"	2500	107	75-125
Surrogate: 4-Bromofluorobenzene	2660	"	2500	107	75-125

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62214 - EPA 5030

Blank (EL62214-BLK1)

Prepared & Analyzed: 21-Dec-16

2-Butanone (MEK)	ND	2500	ug/m3
2-Hexanone (MBK)	ND	2500	"
4-Methyl-2-pentanone (MIBK)	ND	2500	"
Dichlorodifluoromethane (F12)	ND	500	"
Chloromethane	ND	500	"
Vinyl chloride	ND	50	"
Bromomethane	ND	500	"
Chloroethane	ND	500	"
Trichlorofluoromethane (F11)	ND	500	"
1,1-Dichloroethene	ND	500	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	500	"
Carbon disulfide	ND	500	"
Methylene chloride (Dichloromethane)	ND	500	"
trans-1,2-Dichloroethene	ND	500	"
1,1-Dichloroethane	ND	500	"
cis-1,2-Dichloroethene	ND	500	"
Chloroform	ND	100	"
1,1,1-Trichloroethane	ND	500	"
Carbon tetrachloride	ND	100	"
1,2-Dichloroethane (EDC)	ND	100	"
Benzene	ND	100	"
Trichloroethene	ND	100	"
1,2-Dichloropropane	ND	500	"
Bromodichloromethane	ND	500	"
cis-1,3-Dichloropropene	ND	500	"
Toluene	ND	1000	"
trans-1,3-Dichloropropene	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,2-Dibromoethane (EDB)	ND	500	"
Tetrachloroethene	ND	100	"
Dibromochloromethane	ND	500	"
Chlorobenzene	ND	100	"
Ethylbenzene	ND	500	"
1,1,1,2-Tetrachloroethane	ND	500	"

EPS, Inc.
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Reported:
03-Jan-17 11:11

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62214 - EPA 5030

Blank (EL62214-BLK1)

Prepared & Analyzed: 21-Dec-16

m,p-Xylene	ND	500	ug/m3							
o-Xylene	ND	500	"							
Styrene	ND	500	"							
Bromoform	ND	500	"							
1,1,2,2-Tetrachloroethane	ND	500	"							
1,3,5-Trimethylbenzene	ND	500	"							
1,2,4-Trimethylbenzene	ND	500	"							
1,3-Dichlorobenzene	ND	500	"							
1,4-Dichlorobenzene	ND	500	"							
1,2-Dichlorobenzene	ND	500	"							
1,2,4-Trichlorobenzene	ND	500	"							
Hexachlorobutadiene	ND	500	"							

Surrogate: Dibromofluoromethane	2540	"	2500	102	75-125
Surrogate: 1,2-Dichloroethane-d4	2330	"	2500	93.3	75-125
Surrogate: Toluene-d8	2580	"	2500	103	75-125
Surrogate: 4-Bromofluorobenzene	2680	"	2500	107	75-125

LCS (EL62214-BS1)

Prepared & Analyzed: 21-Dec-16

Dichlorodifluoromethane (F12)	5100	500	ug/m3	5000	102	70-130
Vinyl chloride	5300	50	"	5000	107	70-130
Chloroethane	5400	500	"	5000	109	70-130
Trichlorofluoromethane (F11)	5600	500	"	5000	113	70-130
1,1-Dichloroethene	5200	500	"	5000	105	70-130
1,1,2 Trichlorotrifluoroethane (F113)	5600	500	"	5000	112	70-130
Methylene chloride (Dichloromethane)	5700	500	"	5000	113	70-130
trans-1,2-Dichloroethene	5600	500	"	5000	113	70-130
1,1-Dichloroethane	5500	500	"	5000	109	70-130
cis-1,2-Dichloroethene	6100	500	"	5000	123	70-130
Chloroform	6000	100	"	5000	121	70-130
1,1,1-Trichloroethane	5600	500	"	5000	111	70-130
Carbon tetrachloride	6100	100	"	5000	121	70-130
1,2-Dichloroethane (EDC)	6400	100	"	5000	128	70-130
Benzene	5700	100	"	5000	113	70-130

H&P Mobile
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EPS, Inc.
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Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch EL62214 - EPA 5030

LCS (EL62214-BS1)

Prepared & Analyzed: 21-Dec-16

Trichloroethene	5900	100	ug/m3	5000	117	70-130
Toluene	6000	1000	"	5000	119	70-130
1,1,2-Trichloroethane	6100	500	"	5000	121	70-130
Tetrachloroethene	5700	100	"	5000	115	70-130
Ethylbenzene	6300	500	"	5000	126	70-130
1,1,1,2-Tetrachloroethane	6200	500	"	5000	125	70-130
m,p-Xylene	12000	500	"	10000	123	70-130
o-Xylene	6200	500	"	5000	125	70-130
1,1,2,2-Tetrachloroethane	5200	500	"	5000	104	70-130
<i>Surrogate: Dibromofluoromethane</i>	2810		"	2500	112	75-125
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2620		"	2500	105	75-125
<i>Surrogate: Toluene-d8</i>	2740		"	2500	110	75-125
<i>Surrogate: 4-Bromofluorobenzene</i>	2440		"	2500	97.6	75-125

EPS, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta, GA 30338

Project: EPS122016-10
Project Number: Rheem Manufacturing
Project Manager: Mr. Justin Vickery

Reported:
03-Jan-17 11:11

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L15-279-R1

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

VAPOR / AIR Chain of Custody

DATE: 12-14-16
Page 1 of 4

Lab Client and Project Information		
Lab Client/Consultant: EPS Inc.	Project Name / #: Rheem Manufacturing	
Lab Client Project Manager: Justin Vickery	Project Location: Milledgeville, GA	
Lab Client Address: 1050 Crown Pointe Pkwy, Ste. 550	Report E-Mail(s): jvickery@envplanning.com, atestaff@envplanning.com	
Lab Client City, State, Zip: Atlanta, GA 30338		
Phone Number: 404 315 9113		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	<input checked="" type="checkbox"/> 5-7 day Stnd <input type="checkbox"/> 24-Hr Rush	Sampler(s): Alex Tertaf Signature: Alex Tertaf Date: 12-14-16
<input checked="" type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____	<input type="checkbox"/> 3-day Rush <input type="checkbox"/> Mobile Lab	
<input type="checkbox"/> CA Geotracker Global ID: _____	<input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	

Sample Receipt (Lab Use Only)	
Date Rec'd: 12/20/16	Control #: 161112.01
H&P Project # EPS122016-10	
Lab Work Order # E612 109	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: 70020	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #: 1293TT619051368783 1293TT619049242869 1293TT6190518002742 1293TT619049041955 1293TT619049287973 Lab PM Initials: KIM	

Additional Instructions to Laboratory:

Check if Project Analyte List is Attached

* Preferred VOC units (please choose one):

µg/L µg/m³ ppbv ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt/Vac	VOCs Standard Full List <input type="checkbox"/> 8260SV <input checked="" type="checkbox"/> TO-15	VOCs Short List/Project List <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Oxygenates <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Naphthalene <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15 <input checked="" type="checkbox"/> TO-17m	TPHv as Gas <input type="checkbox"/> 8260SV/m <input type="checkbox"/> TO-15m	TPHv as Diesel (sorbent tube) <input type="checkbox"/> TO-17m	Aromatic/Aliphatic Fractions <input type="checkbox"/> 8260SV/m <input type="checkbox"/> TO-15m	Leak Check Compound <input type="checkbox"/> DFA <input type="checkbox"/> IPA <input type="checkbox"/> He	Methane by EPA 8015m <input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2	Fixed Gases by ASTM D1945 <input type="checkbox"/>
16347-VIIA-1	VIIA-1	12/12/16	1759	AA	6L	450	-1.07	<input checked="" type="checkbox"/>									
16347-VIIA-2	VIIA-2	12/12/16	1747	AA	6L	487	-3.23	<input checked="" type="checkbox"/>									
16347-VIIA-3	VIIA-3	12/12/16	1753	IA	6L	446	-2.47	<input checked="" type="checkbox"/>									
16347-VIIA-4	VIIA-4	12/12/16	1749	IA	6L	206	-11.38	<input checked="" type="checkbox"/>									
16347-VIIA-5	VIIA-5	12/12/16	1750	IA	6L	484	-1.81	<input checked="" type="checkbox"/>									
16347-VIIA-6	VIIA-6	12/12/16	1755	IA	6L	287	-3.78	<input checked="" type="checkbox"/>									
16347-VIIA-7	VIIA-7	12/12/16	1757	IA	6L	51027	-2.54	<input checked="" type="checkbox"/>									
16347-VIIA-8	VIIA-8	12/12/16	1804	IA	6L	345	-3.81	<input checked="" type="checkbox"/>									
16347-VIIA-9	VIIA-9	12/12/16	1801	IA	6L	315	-2.42	<input checked="" type="checkbox"/>									
16347-VIIA-10	VIIA-10	12/12/16	1805	IA	6L	280	-15.67	<input checked="" type="checkbox"/>									
Approved/Relinquished by: <i>Alex Tertaf</i>	Company: EPS Inc.	Date: 12-17-16	Time: 1000	Received by: Jon Chisworth	Company: H&P	Date: 12/20/16	Time: 11:10										
Approved/Relinquished by: <i>Alex Tertaf</i>	Company:	Date:	Time:	Received by:	Company:	Date:	Time:										
Approved/Relinquished by: <i>Alex Tertaf</i>	Company:	Date:	Time:	Received by:	Company:	Date:	Time:										

VAPOR / AIR Chain of Custody

DATE: 12-17-16
Page 2 of 4

Lab Client and Project Information		
Lab Client/Consultant: EPS Inc.	Project Name / #: Rheem Manufacturing	
Lab Client Project Manager: Justin Vickery	Project Location: Milledgeville, GA	
Lab Client Address: 1050 Crown Pointe Pkwy, Ste. 550	Report E-Mail(s): jvickery@envplanning.com	
Lab Client City, State, Zip: Atlanta, GA 30338	a-teststaff@envplanning.com	
Phone Number: 404 315 9113		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	<input checked="" type="checkbox"/> 5-7 day Stnd <input type="checkbox"/> 24-Hr Rush	Sampler(s): Alex Testoff
<input checked="" type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____	<input type="checkbox"/> 3-day Rush <input type="checkbox"/> Mobile Lab	Signature: Alex Testoff
<input type="checkbox"/> CA Geotracker Global ID: _____	<input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	Date: 12-14-16

Sample Receipt (Lab Use Only)	
Date Rec'd: 12/20/16	Control #: 1101112.01
H&P Project # EPS122016-10	
Lab Work Order # E612109	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: 11167 + 70020	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #: 8783, 2369, 0742, 7955, 7973	
Lab PM Initials: KIM	

Additional Instructions to Laboratory: **(*) 16348-VI-023 Analyzed by H&P 8260CSV**
JPE 13/17

Check if Project Analyte List is Attached

* Preferred VOC units (please choose one):

µg/L µg/m³ ppbv ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List <input type="checkbox"/> 8260SV <input checked="" type="checkbox"/> TO-15	VOCs Short List / Project List <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Oxygenates <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Naphthalene <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15 <input type="checkbox"/> TO-17m	TPHv as Gas <input type="checkbox"/> 8260SV/m <input type="checkbox"/> TO-15m	TPHv as Diesel (sorbent tube) <input type="checkbox"/> TO-17m	Aromatic/Aliphatic Fractions <input type="checkbox"/> 8260SV/m <input type="checkbox"/> TO-15m	Leak Check Compound <input type="checkbox"/> DFA <input type="checkbox"/> IPA <input type="checkbox"/> He	Methane by EPA 8015m <input type="checkbox"/> Fixed Gases by ASTM D1945 <input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2	
16347-VIIA-11	VIIA-11	12/12/16	1815	IA	6L	296	-2.68	X									
16347-VIIA-12	VIIA-12	12/12/16	1811	IA	6L	51014	-4.71	X									
16348-VI-022	VI-022	12/13/16	0830	SS	400 mL	199	.06	X									
16348-VI-023	VI-023	12/13/16	0845	SS	400 mL	098	.11	X									
16348-VI-024	VI-024	12/13/16	0900	SS	400 mL	193	.10	X									
16348-VI-029	VI-029	12/13/16	0925	SS	400 mL	104	.27	X									
16348-VI-027	VI-027	12/13/16	0937	SS	400 mL	037	.23	X									
16348-VI-043	VI-043	12/13/16	0957	SS	400 mL	128	.12	X									
16348-VI-021	VI-021	12/13/16	1015	SS	400 mL	036	.09	X									
16348-VI-005	VI-005	12/13/16	1030	SS	400 mL	313	.17	X									

Approved/Relinquished by: **Alex Testoff**

Company: **EPS Inc.**

Date: **12-14-16** Time: **10:00**

Received by: **Tori Chisworth**

Company: **H&P**

Date: **12/20/16** Time: **11:10**

Approved/Relinquished by:

Company:

Date: Time:

Received by:

Company:

Date: Time:

VAPOR / AIR Chain of Custody

DATE: 12-14-16
Page 3 of 4

Lab Client and Project Information		
Lab Client/Consultant: EPS Inc.	Project Name / #: Rheem Manufacturing	
Lab Client Project Manager: Justin Vickery	Project Location: Milledgeville, GA	
Lab Client Address: 1050 Crown Pointe Pkwy, Ste. 550	Report E-Mail(s): jvickery@envplanning.com	
Lab Client City, State, Zip: Atlanta, GA 30338	ajtestoff@envplanning.com	
Phone Number: 404 315 9113		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	<input checked="" type="checkbox"/> 5-7 day Stnd <input type="checkbox"/> 24-Hr Rush	Sampler(s): Alex Testoff
<input checked="" type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____	<input type="checkbox"/> 3-day Rush <input type="checkbox"/> Mobile Lab	Signature: Alex Testoff
<input type="checkbox"/> CA Geotracker Global ID: _____	<input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	Date: 12-14-16

Sample Receipt (Lab Use Only)	
Date Rec'd: 12/20/16	Control #: 161112.01
H&P Project #:	EPS/22016-10
Lab Work Order #:	E612109
Sample Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below
Receipt Gauge ID:	11167
Temp:	RT
Outside Lab:	
Receipt Notes/Tracking #: 8783, 2369, 0742, 7955, 7973	
Lab PM Initials: KIM	

Additional Instructions to Laboratory:
 Check if Project Analyte List is Attached
Analyzed by H&P 8260QSV 1/31/17

* Preferred VOC units (please choose one):

µg/L µg/m³ ppbv ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List <input type="checkbox"/> 8260SV <input checked="" type="checkbox"/> TO-15	VOCs Short List / Project List <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Oxygenates <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Naphthalene <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15 <input checked="" type="checkbox"/> TO-17m	TPHv as Gas <input type="checkbox"/> 8260SV/m <input type="checkbox"/> TO-15m	TPHv as Diesel (sorbent tube) <input type="checkbox"/> TO-17m	Aromatic/Aliphatic Fractions <input type="checkbox"/> 8260SV/m <input type="checkbox"/> TO-15m	Leak Check Compound <input type="checkbox"/> DFA <input type="checkbox"/> IPA <input type="checkbox"/> He	Methane by EPA 8015m <input type="checkbox"/>	Fixed Gases by ASTM D1945 <input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2
16348-VI-004	VI-004	12/13/16	1044	SS	400 mL	061	:25	X									
16348-VI-009	VI-009	12/13/16	1055	SS	400 mL	316	:28	X									
16348-VI-014	VI-014	12/13/16	1107	SS	400 mL	900	-1.22	X									
16348-VI-018	VI-018	12/13/16	1115	SS	400 mL	076	.51	X									
16348-DUP	(X)	12/13/16	1200	SS	400 mL	303	:21	X									
16349-VI-026	VI-026	12/14/16	0805	SS	400 mL	554	.13	X									
16349-VI-032	VI-032	12/14/16	0815	SS	400 mL	146	.05	X									
16349-VI-033	VI-033	12/14/16	0825	SS	400 mL	166	.12	X									
16349-VI-028	VI-028	12/14/16	0836	SS	400 mL	055	.49	X									
16349-VI-025	VI-025	12/14/16	0848	SS	400 mL	016	.46	X									

Approved/Relinquished by:
Alex Testoff

Company: **EPS Inc.** Date: **12-14-16** Time: **1000**

Received by: **Jen Churnik**

Company: **H&P** Date: **12/20/16** Time: **11:10**

Approved/Relinquished by:

Company: _____ Date: _____ Time: _____

Received by: _____

Company: _____ Date: _____ Time: _____

Approved/Relinquished by:

Company: _____ Date: _____ Time: _____

Received by: _____

Company: _____ Date: _____ Time: _____



Mobile
Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 12-14-16
Page 4 of 4

Lab Client and Project Information					
Lab Client/Consultant:	EPS Inc.	Project Name / #:	Rheem Manufacturing		
Lab Client Project Manager:	Justin Vickery	Project Location:	Milledgeville, GA		
Lab Client Address:	1050 Crown Pointe Pkwy, Ste. 550	Report E-Mails:	jvickery@envplanning.com atestoff@envplanning.com		
Lab Client City, State, Zip:	Atlanta, GA 30338				
Phone Number:	404 315 9113				
Reporting Requirements		Turnaround Time		Sampler Information	
<input checked="" type="checkbox"/> Standard Report	<input type="checkbox"/> Level III	<input type="checkbox"/> Level IV	<input checked="" type="checkbox"/> 5-7 day Stdnd	<input type="checkbox"/> 24-Hr Rush	Sampler(s): Alex Testoff
<input checked="" type="checkbox"/> Excel EDD	<input type="checkbox"/> Other EDD: _____		<input type="checkbox"/> 3-day Rush	<input type="checkbox"/> Mobile Lab	Signature: Alex Testoff
<input type="checkbox"/> CA Geotracker Global ID: _____			<input type="checkbox"/> 48-Hr Rush	<input type="checkbox"/> Other: _____	Date: 12-14-16

Sample Receipt (Lab Use Only)		
Date Rec'd:	12/20/16	Control #:
H&P Project #	EPS122016-10	
Lab Work Order #	E612109	
Sample Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID:	11167	Temp: RT
Outside Lab:		
Receipt Notes/Tracking #:	8783, 2369, 0742, 7955, 7973	
Lab PM Initials: KIM		

Additional Instructions to Laboratory:

- Check if Project Analyte List is Attached

*** Preferred VOC units (please choose one):**

- $\mu\text{g/L}$ $\mu\text{g/m}^3$ ppbv ppmv

**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Rev 08/18/2014



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 19, 2016

Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Rheem

Dear Justin Vickery:

Order No: 1612D97

Analytical Environmental Services, Inc. received 8 samples on December 14, 2016 11:04 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.

-NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials effective 03/01/16-02/28/17

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Augusta P. H.

Chris Pafford
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1612097

Date: 12-13-16 Page 1 of 1

COMPANY: ERS Inc.		ADDRESS: 1050 Crown Pointe Pkwy Suite 550 Atlanta, GA 30338		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers								
				VOCs																	
PHONE: 404 315 9113		FAX:																			
SAMPLED BY: Alex Testaff / Joe Terry		SIGNATURE: <i>Alex Testaff</i>																			
#	SAMPLE ID	SAMPLER		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS						
		DATE	TIME																		
1	16348-IW-2A	12-13-16	1240	X		GW	X									2					
2	16348-IW-3A	12-13-16	1352	X		GW	X									2					
3	16348-IW-4A	12-13-16	1543	X		GW	X									2					
4	16348-IW-4B	12-13-16	1540	X		GW	X									2					
5	16348-IW-5A	12-13-16	1715	X		GW	X									2					
6	16348-IW-5B	12-13-16	1727	X		GW	X									2					
7	16348-DUP	12-13-16	1200	X		GW	X									2					
8	Trip Blank					W	X									2					
9																					
10																					
11																					
12																					
13																					
14																					
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION								RECEIPT					
1: <i>Alex Testaff</i>		12-14-16 0240		1: <i>Joe Terry</i>		12-14-16/0740		PROJECT NAME: Rheem								Total # of Containers 16					
2: <i>Joe Terry</i>		12-14-16/1104		2: <i>Loretta Omerair</i>		12-14-16/1104		PROJECT #: 								Turnaround Time Request					
3: <i></i>				3: <i></i>				SITE ADDRESS: Milledgeville, GA								<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____					
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:								INVOICE TO: (IF DIFFERENT FROM ABOVE)								STATE PROGRAM (if any): _____			
		OUT / /	VIA:																	E-mail? _____ Fax? _____	DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>
		IN / /	VIA:																	QUOTE #: _____	PO#: _____
		CLIENT FedEx UPS MAIL COURIER	GREYHOUND OTHER																		

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-2A					
Project Name:	Rheem	Collection Date:	12/13/2016 12:40:00 PM					
Lab ID:	1612D97-001	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,1,2-Trichloroethane		23	5.0	ug/L	234948	1	12/15/2016 20:18	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,1-Dichloroethene		18	5.0	ug/L	234948	1	12/15/2016 20:18	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
2-Butanone	BRL	50		ug/L	234948	1	12/15/2016 20:18	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/15/2016 20:18	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/15/2016 20:18	BN
Acetone	BRL	50		ug/L	234948	1	12/15/2016 20:18	BN
Benzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Chloroethane	BRL	10		ug/L	234948	1	12/15/2016 20:18	BN
Chloroform	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Chloromethane	BRL	10		ug/L	234948	1	12/15/2016 20:18	BN
cis-1,2-Dichloroethene		180	5.0	ug/L	234948	1	12/15/2016 20:18	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/15/2016 20:18	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Freon-113	BRL	10		ug/L	234948	1	12/15/2016 20:18	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-2A
Project Name:	Rheem	Collection Date:	12/13/2016 12:40:00 PM
Lab ID:	1612D97-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Tetrachloroethene	9.3	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Toluene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Trichloroethene	56000	2500		ug/L	234948	500	12/16/2016 14:56	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:18	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/15/2016 20:18	BN
Surr: 4-Bromofluorobenzene	98.8	66.1-129		%REC	234948	500	12/16/2016 14:56	NH
Surr: 4-Bromofluorobenzene	99.6	66.1-129		%REC	234948	1	12/15/2016 20:18	BN
Surr: Dibromofluoromethane	118	83.6-123		%REC	234948	500	12/16/2016 14:56	NH
Surr: Dibromofluoromethane	94	83.6-123		%REC	234948	1	12/15/2016 20:18	BN
Surr: Toluene-d8	117	81.8-118		%REC	234948	500	12/16/2016 14:56	NH
Surr: Toluene-d8	101	81.8-118		%REC	234948	1	12/15/2016 20:18	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-3A
Project Name:	Rheem	Collection Date:	12/13/2016 1:52:00 PM
Lab ID:	1612D97-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,1-Dichloroethene	11	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
2-Butanone	BRL	50		ug/L	234948	1	12/15/2016 20:46	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/15/2016 20:46	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/15/2016 20:46	BN
Acetone	BRL	50		ug/L	234948	1	12/15/2016 20:46	BN
Benzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Chloroethane	BRL	10		ug/L	234948	1	12/15/2016 20:46	BN
Chloroform	25	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Chloromethane	BRL	10		ug/L	234948	1	12/15/2016 20:46	BN
cis-1,2-Dichloroethene	41	5.0		ug/L	234948	1	12/15/2016 20:46	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/15/2016 20:46	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Freon-113	BRL	10		ug/L	234948	1	12/15/2016 20:46	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-3A
Project Name:	Rheem	Collection Date:	12/13/2016 1:52:00 PM
Lab ID:	1612D97-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Tetrachloroethene	6.3	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Toluene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Trichloroethene	4600	250		ug/L	234948	50	12/16/2016 17:16	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/15/2016 20:46	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/15/2016 20:46	BN
Surr: 4-Bromofluorobenzene	98.4	66.1-129		%REC	234948	50	12/16/2016 17:16	NH
Surr: 4-Bromofluorobenzene	99.2	66.1-129		%REC	234948	1	12/15/2016 20:46	BN
Surr: Dibromofluoromethane	113	83.6-123		%REC	234948	50	12/16/2016 17:16	NH
Surr: Dibromofluoromethane	101	83.6-123		%REC	234948	1	12/15/2016 20:46	BN
Surr: Toluene-d8	115	81.8-118		%REC	234948	50	12/16/2016 17:16	NH
Surr: Toluene-d8	101	81.8-118		%REC	234948	1	12/15/2016 20:46	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-4A
Project Name:	Rheem	Collection Date:	12/13/2016 3:43:00 PM
Lab ID:	1612D97-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,1-Dichloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
2-Butanone	BRL	50		ug/L	234948	1	12/16/2016 00:02	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/16/2016 00:02	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/16/2016 00:02	BN
Acetone	BRL	50		ug/L	234948	1	12/16/2016 00:02	BN
Benzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Chloroethane	BRL	10		ug/L	234948	1	12/16/2016 00:02	BN
Chloroform		11	5.0	ug/L	234948	1	12/16/2016 00:02	BN
Chloromethane	BRL	10		ug/L	234948	1	12/16/2016 00:02	BN
cis-1,2-Dichloroethene		23	5.0	ug/L	234948	1	12/16/2016 00:02	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/16/2016 00:02	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Freon-113	BRL	10		ug/L	234948	1	12/16/2016 00:02	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-4A
Project Name:	Rheem	Collection Date:	12/13/2016 3:43:00 PM
Lab ID:	1612D97-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Tetrachloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Toluene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Trichloroethene	140	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:02	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/16/2016 00:02	BN
Surr: 4-Bromofluorobenzene	100	66.1-129		%REC	234948	1	12/16/2016 00:02	BN
Surr: Dibromofluoromethane	102	83.6-123		%REC	234948	1	12/16/2016 00:02	BN
Surr: Toluene-d8	101	81.8-118		%REC	234948	1	12/16/2016 00:02	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-4B
Project Name:	Rheem	Collection Date:	12/13/2016 3:40:00 PM
Lab ID:	1612D97-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,1-Dichloroethene	76	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
2-Butanone	BRL	50		ug/L	234948	1	12/15/2016 21:14	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/15/2016 21:14	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/15/2016 21:14	BN
Acetone	BRL	50		ug/L	234948	1	12/15/2016 21:14	BN
Benzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Chloroethane	BRL	10		ug/L	234948	1	12/15/2016 21:14	BN
Chloroform	8.7	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Chloromethane	BRL	10		ug/L	234948	1	12/15/2016 21:14	BN
cis-1,2-Dichloroethene	30	5.0		ug/L	234948	1	12/15/2016 21:14	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/15/2016 21:14	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Freon-113	BRL	10		ug/L	234948	1	12/15/2016 21:14	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-4B
Project Name:	Rheem	Collection Date:	12/13/2016 3:40:00 PM
Lab ID:	1612D97-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Tetrachloroethene	73	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Toluene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Trichloroethene	880	50		ug/L	234948	10	12/16/2016 15:52	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:14	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/15/2016 21:14	BN
Surr: 4-Bromofluorobenzene	97.6	66.1-129		%REC	234948	10	12/16/2016 15:52	NH
Surr: 4-Bromofluorobenzene	98.6	66.1-129		%REC	234948	1	12/15/2016 21:14	BN
Surr: Dibromofluoromethane	101	83.6-123		%REC	234948	1	12/15/2016 21:14	BN
Surr: Dibromofluoromethane	113	83.6-123		%REC	234948	10	12/16/2016 15:52	NH
Surr: Toluene-d8	101	81.8-118		%REC	234948	1	12/15/2016 21:14	BN
Surr: Toluene-d8	106	81.8-118		%REC	234948	10	12/16/2016 15:52	NH

Qualifiers:	*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
	BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See case narrative
	N	Analyte not NELAC certified	NC	Not confirmed
	B	Analyte detected in the associated method blank	<	Less than Result value
	>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-5A
Project Name:	Rheem	Collection Date:	12/13/2016 5:15:00 PM
Lab ID:	1612D97-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
2-Butanone	BRL	50		ug/L	234948	1	12/16/2016 14:00	NH
2-Hexanone	BRL	10		ug/L	234948	1	12/16/2016 14:00	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/16/2016 14:00	NH
Acetone	BRL	50		ug/L	234948	1	12/16/2016 14:00	NH
Benzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Bromoform	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Bromomethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Chloroethane	BRL	10		ug/L	234948	1	12/16/2016 14:00	NH
Chloroform		9.5	5.0	ug/L	234948	1	12/16/2016 14:00	NH
Chloromethane	BRL	10		ug/L	234948	1	12/16/2016 14:00	NH
cis-1,2-Dichloroethene		65	5.0	ug/L	234948	1	12/16/2016 14:00	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Cyclohexane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/16/2016 14:00	NH
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Freon-113	BRL	10		ug/L	234948	1	12/16/2016 14:00	NH
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Methyl acetate	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Methylene chloride	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
o-Xylene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-5A
Project Name:	Rheem	Collection Date:	12/13/2016 5:15:00 PM
Lab ID:	1612D97-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Tetrachloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Toluene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Trichloroethene	270	50		ug/L	234948	10	12/16/2016 13:32	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/16/2016 14:00	NH
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/16/2016 14:00	NH
Surr: 4-Bromofluorobenzene	98.3	66.1-129		%REC	234948	1	12/16/2016 14:00	NH
Surr: 4-Bromofluorobenzene	100	66.1-129		%REC	234948	10	12/16/2016 13:32	NH
Surr: Dibromofluoromethane	111	83.6-123		%REC	234948	1	12/16/2016 14:00	NH
Surr: Dibromofluoromethane	123	83.6-123		%REC	234948	10	12/16/2016 13:32	NH
Surr: Toluene-d8	110	81.8-118		%REC	234948	1	12/16/2016 14:00	NH
Surr: Toluene-d8	116	81.8-118		%REC	234948	10	12/16/2016 13:32	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-5B
Project Name:	Rheem	Collection Date:	12/13/2016 5:27:00 PM
Lab ID:	1612D97-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,1-Dichloroethene	41	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
2-Butanone	BRL	50		ug/L	234948	1	12/15/2016 21:41	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/15/2016 21:41	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/15/2016 21:41	BN
Acetone	BRL	50		ug/L	234948	1	12/15/2016 21:41	BN
Benzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Chloroethane	BRL	10		ug/L	234948	1	12/15/2016 21:41	BN
Chloroform	11	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Chloromethane	BRL	10		ug/L	234948	1	12/15/2016 21:41	BN
cis-1,2-Dichloroethene	28	5.0		ug/L	234948	1	12/15/2016 21:41	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/15/2016 21:41	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Freon-113	BRL	10		ug/L	234948	1	12/15/2016 21:41	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-IW-5B
Project Name:	Rheem	Collection Date:	12/13/2016 5:27:00 PM
Lab ID:	1612D97-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Tetrachloroethene	25	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Toluene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Trichloroethene	280	50		ug/L	234948	10	12/16/2016 16:20	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/15/2016 21:41	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/15/2016 21:41	BN
Surr: 4-Bromofluorobenzene	98.9	66.1-129		%REC	234948	10	12/16/2016 16:20	NH
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	234948	1	12/15/2016 21:41	BN
Surr: Dibromofluoromethane	111	83.6-123		%REC	234948	1	12/15/2016 21:41	BN
Surr: Dibromofluoromethane	114	83.6-123		%REC	234948	10	12/16/2016 16:20	NH
Surr: Toluene-d8	109	81.8-118		%REC	234948	1	12/15/2016 21:41	BN
Surr: Toluene-d8	110	81.8-118		%REC	234948	10	12/16/2016 16:20	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-DUP
Project Name:	Rheem	Collection Date:	12/13/2016 12:00:00 PM
Lab ID:	1612D97-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,1-Dichloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
2-Butanone	BRL	50		ug/L	234948	1	12/16/2016 00:29	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/16/2016 00:29	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/16/2016 00:29	BN
Acetone	BRL	50		ug/L	234948	1	12/16/2016 00:29	BN
Benzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Chloroethane	BRL	10		ug/L	234948	1	12/16/2016 00:29	BN
Chloroform		10	5.0	ug/L	234948	1	12/16/2016 00:29	BN
Chloromethane	BRL	10		ug/L	234948	1	12/16/2016 00:29	BN
cis-1,2-Dichloroethene		69	5.0	ug/L	234948	1	12/16/2016 00:29	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/16/2016 00:29	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Freon-113	BRL	10		ug/L	234948	1	12/16/2016 00:29	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	16348-DUP
Project Name:	Rheem	Collection Date:	12/13/2016 12:00:00 PM
Lab ID:	1612D97-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Tetrachloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Toluene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Trichloroethene	270	50		ug/L	234948	10	12/16/2016 16:48	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/16/2016 00:29	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/16/2016 00:29	BN
Surr: 4-Bromofluorobenzene	97	66.1-129		%REC	234948	10	12/16/2016 16:48	NH
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	234948	1	12/16/2016 00:29	BN
Surr: Dibromofluoromethane	109	83.6-123		%REC	234948	10	12/16/2016 16:48	NH
Surr: Dibromofluoromethane	114	83.6-123		%REC	234948	1	12/16/2016 00:29	BN
Surr: Toluene-d8	99.7	81.8-118		%REC	234948	1	12/16/2016 00:29	BN
Surr: Toluene-d8	110	81.8-118		%REC	234948	10	12/16/2016 16:48	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Rheem	Collection Date:	12/14/2016
Lab ID:	1612D97-008	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,1-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,1-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,2-Dibromoethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,2-Dichloroethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,2-Dichloropropane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
2-Butanone	BRL	50		ug/L	234948	1	12/15/2016 14:29	BN
2-Hexanone	BRL	10		ug/L	234948	1	12/15/2016 14:29	BN
4-Methyl-2-pentanone	BRL	10		ug/L	234948	1	12/15/2016 14:29	BN
Acetone	BRL	50		ug/L	234948	1	12/15/2016 14:29	BN
Benzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Bromodichloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Bromoform	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Bromomethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Carbon disulfide	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Carbon tetrachloride	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Chlorobenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Chloroethane	BRL	10		ug/L	234948	1	12/15/2016 14:29	BN
Chloroform	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Chloromethane	BRL	10		ug/L	234948	1	12/15/2016 14:29	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Cyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Dibromochloromethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Dichlorodifluoromethane	BRL	10		ug/L	234948	1	12/15/2016 14:29	BN
Ethylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Freon-113	BRL	10		ug/L	234948	1	12/15/2016 14:29	BN
Isopropylbenzene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
m,p-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Methyl acetate	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Methylcyclohexane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Methylene chloride	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
o-Xylene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 19-Dec-16

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Rheem	Collection Date:	12/14/2016
Lab ID:	1612D97-008	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Tetrachloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Toluene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Trichloroethene	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Trichlorofluoromethane	BRL	5.0		ug/L	234948	1	12/15/2016 14:29	BN
Vinyl chloride	BRL	2.0		ug/L	234948	1	12/15/2016 14:29	BN
Surr: 4-Bromofluorobenzene	99.6	66.1-129		%REC	234948	1	12/15/2016 14:29	BN
Surr: Dibromofluoromethane	98.8	83.6-123		%REC	234948	1	12/15/2016 14:29	BN
Surr: Toluene-d8	102	81.8-118		%REC	234948	1	12/15/2016 14:29	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client 203

Work Order Number 1612097

Checklist completed by Munawar 12/14/16
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other _____

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 26 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1612D97

ANALYTICAL QC SUMMARY REPORT**BatchID: 234948**

Sample ID: MB-234948	Client ID:				Units: ug/L	Prep Date: 12/15/2016	Run No: 332204				
SampleType: MLBK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 234948	Analysis Date: 12/15/2016	Seq No: 7234655				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers: > Greater than Result value

< Less than Result value

B Analyte detected in the associated method blank

BRL Below reporting limit

E Estimated (value above quantitation range)

H Holding times for preparation or analysis exceeded

J Estimated value detected below Reporting Limit

N Analyte not NELAC certified

R RPD outside limits due to matrix

Rpt Lim Reporting Limit

S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1612D97

ANALYTICAL QC SUMMARY REPORT**BatchID: 234948**

Sample ID: MB-234948	Client ID:				Units: ug/L	Prep Date: 12/15/2016	Run No: 332204
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 234948	Analysis Date: 12/15/2016	Seq No: 7234655
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit
cis-1,2-Dichloroethene	BRL	5.0					
cis-1,3-Dichloropropene	BRL	5.0					
Cyclohexane	BRL	5.0					
Dibromochloromethane	BRL	5.0					
Dichlorodifluoromethane	BRL	10					
Ethylbenzene	BRL	5.0					
Freon-113	BRL	10					
Isopropylbenzene	BRL	5.0					
m,p-Xylene	BRL	5.0					
Methyl acetate	BRL	5.0					
Methyl tert-butyl ether	BRL	5.0					
Methylcyclohexane	BRL	5.0					
Methylene chloride	BRL	5.0					
o-Xylene	BRL	5.0					
Styrene	BRL	5.0					
Tetrachloroethene	BRL	5.0					
Toluene	BRL	5.0					
trans-1,2-Dichloroethene	BRL	5.0					
trans-1,3-Dichloropropene	BRL	5.0					
Trichloroethene	BRL	5.0					
Trichlorofluoromethane	BRL	5.0					
Vinyl chloride	BRL	2.0					
Surr: 4-Bromofluorobenzene	49.49	0	50.00		99.0	66.1	129
Surr: Dibromofluoromethane	49.24	0	50.00		98.5	83.6	123
Surr: Toluene-d8	49.90	0	50.00		99.8	81.8	118

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1612D97

ANALYTICAL QC SUMMARY REPORT**BatchID: 234948**

Sample ID: LCS-234948	Client ID: 	Units: ug/L	Prep Date: 12/15/2016	Run No: 332204
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 234948	Analysis Date: 12/15/2016	Seq No: 7234654
Analyte Result RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual				

1,1-Dichloroethene	49.64	5.0	50.00		99.3	68	139				
Benzene	51.75	5.0	50.00		104	74	125				
Chlorobenzene	47.88	5.0	50.00		95.8	75.7	123				
Toluene	51.45	5.0	50.00		103	75.9	126				
Trichloroethene	52.51	5.0	50.00		105	70.6	129				
Surr: 4-Bromofluorobenzene	47.89	0	50.00		95.8	66.1	129				
Surr: Dibromofluoromethane	47.51	0	50.00		95.0	83.6	123				
Surr: Toluene-d8	49.37	0	50.00		98.7	81.8	118				

Sample ID: 1612D97-005AMS	Client ID: 16348-IW-5A	Units: ug/L	Prep Date: 12/15/2016	Run No: 332297
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 234948	Analysis Date: 12/15/2016	Seq No: 7237316
Analyte Result RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual				

1,1-Dichloroethene	2995	250	2500		120	64.3	149				
Benzene	2820	250	2500		113	71.6	132				
Chlorobenzene	2585	250	2500		103	73.1	126				
Toluene	3044	250	2500		122	72.5	135				
Trichloroethene	3035	250	2500	237.5	112	70.2	132				
Surr: 4-Bromofluorobenzene	2460	0	2500		98.4	66.1	129				
Surr: Dibromofluoromethane	2984	0	2500		119	83.6	123				
Surr: Toluene-d8	2943	0	2500		118	81.8	118				

Sample ID: 1612D97-005AMSD	Client ID: 16348-IW-5A	Units: ug/L	Prep Date: 12/15/2016	Run No: 332297
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 234948	Analysis Date: 12/15/2016	Seq No: 7237330
Analyte Result RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual				

1,1-Dichloroethene	2840	250	2500		114	64.3	149	2995	5.31	30.8
Benzene	2644	250	2500		106	71.6	132	2820	6.44	20.7

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1612D97

ANALYTICAL QC SUMMARY REPORT**BatchID: 234948**

Sample ID: 1612D97-005AMSD	Client ID: 16348-IW-5A				Units: ug/L	Prep Date: 12/15/2016	Run No: 332297				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 234948	Analysis Date: 12/15/2016	Seq No: 7237330				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2504	250	2500		100	73.1	126	2585	3.18	26.6	
Toluene	2814	250	2500		113	72.5	135	3044	7.82	23.2	
Trichloroethene	2826	250	2500	237.5	104	70.2	132	3035	7.13	27.7	
Surr: 4-Bromofluorobenzene	2450	0	2500		98.0	66.1	129	2460	0	0	
Surr: Dibromofluoromethane	2961	0	2500		118	83.6	123	2984	0	0	
Surr: Toluene-d8	2598	0	2500		104	81.8	118	2943	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 15, 2017

Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Rheem

Dear Justin Vickery: Order No: 1703745

Analytical Environmental Services, Inc. received 12 samples on 3/9/2017 9:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

A handwritten signature in black ink, appearing to read "Chris Pafford".

Chris Pafford
Project Manager



COMPANY: EPS Inc.		ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers		
PHONE: 404 315 9113		FAX:		VOC											
SAMPLED BY: Alex Testoff & Joe Terry		SIGNATURE: <i>Alex Testoff</i>													
#	SAMPLE ID	SAMPLER		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS
		DATE	TIME				X	X	X	X	X	X	X		
1	17067-MW-33	3-8-17	1355	X		GW	X								2
2	17067-MW-34	3-8-17	1135	X		GW	X								2
3	17067-MW-35	3-8-17	1425	X		GW	X								2
4	17067-MW-36	3-8-17	0915	X		GW	X								2
5	17067-MW-43	3-8-17	1520	X		GW	X								2
6	17067-MW-44	3-8-17	1025	X		GW	X								2
7	17066-MW-45	3-8-17	1735	X		GW	X								2
8	17067-MW-46	3-8-17	1005	X		GW	X								2
9	17067-MW-47	3-8-17	1137	X		GW	X								2
10	17066-MW-54	3-7-17	1622	X		GW	X								2
11	17067-DUP	3-8-17	1200	X		GW	X								2
12	Trip Blank					W	X								2
13															
14															
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION								RECEIPT		
1:	<i>Alex Testoff</i>	3-9-17 0915	1: <i>Joe Terry</i>	3/9/17 9:15	PROJECT NAME: Rheem Manufacturing								Total # of Containers	24	
2:			2:		PROJECT #: _____								Turnaround Time Request		
3:			3:		SITE ADDRESS: Milledgeville, GA								Standard 5 Business Days		
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT / / VIA:	INVOICE TO: (IF DIFFERENT FROM ABOVE)								2 Business Day Rush		
		IN / / VIA:									Next Business Day Rush				
		CLIENT FedEx UPS MAIL COURIER									Same Day Rush (auth req.)				
		GREYHOUND OTHER _____									Other _____				
		QUOTE #: _____	PO#: _____								STATE PROGRAM (if any): _____				
											E-mail? Y / N; Fax? Y / N				
											DATA PACKAGE: I II III IV				

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-33					
Project Name:	Rheem	Collection Date:	3/8/2017 1:55:00 PM					
Lab ID:	1703745-001	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 11:10	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 11:10	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 11:10	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 11:10	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 11:10	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 11:10	BN
cis-1,2-Dichloroethene		64		ug/L	239455	1	03/15/2017 11:10	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 11:10	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 11:10	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-33
Project Name:	Rheem	Collection Date:	3/8/2017 1:55:00 PM
Lab ID:	1703745-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Trichloroethene	100	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:10	BN
Vinyl chloride	4.8	2.0		ug/L	239455	1	03/15/2017 11:10	BN
Surr: 4-Bromofluorobenzene	80.1	66.1-129	%REC		239455	1	03/15/2017 11:10	BN
Surr: Dibromofluoromethane	102	83.6-123	%REC		239455	1	03/15/2017 11:10	BN
Surr: Toluene-d8	89.9	81.8-118	%REC		239455	1	03/15/2017 11:10	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-34
Project Name:	Rheem	Collection Date:	3/8/2017 11:35:00 AM
Lab ID:	1703745-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 11:39	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 11:39	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 11:39	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 11:39	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 11:39	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 11:39	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 11:39	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 11:39	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-34
Project Name:	Rheem	Collection Date:	3/8/2017 11:35:00 AM
Lab ID:	1703745-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Trichloroethene	66	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 11:39	BN
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 11:39	BN
Surr: 4-Bromofluorobenzene	80.6	66.1-129	%REC		239455	1	03/15/2017 11:39	BN
Surr: Dibromofluoromethane	101	83.6-123	%REC		239455	1	03/15/2017 11:39	BN
Surr: Toluene-d8	92.6	81.8-118	%REC		239455	1	03/15/2017 11:39	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-35
Project Name:	Rheem	Collection Date:	3/8/2017 2:25:00 PM
Lab ID:	1703745-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 12:08	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 12:08	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 12:08	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 12:08	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 12:08	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 12:08	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 12:08	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 12:08	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-35
Project Name:	Rheem	Collection Date:	3/8/2017 2:25:00 PM
Lab ID:	1703745-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:08	BN
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 12:08	BN
Surr: 4-Bromofluorobenzene	81.2	66.1-129	%REC		239455	1	03/15/2017 12:08	BN
Surr: Dibromofluoromethane	106	83.6-123	%REC		239455	1	03/15/2017 12:08	BN
Surr: Toluene-d8	92.1	81.8-118	%REC		239455	1	03/15/2017 12:08	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-36
Project Name:	Rheem	Collection Date:	3/8/2017 9:15:00 AM
Lab ID:	1703745-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 12:45	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 12:45	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 12:45	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 12:45	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 12:45	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 12:45	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 12:45	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 12:45	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-36
Project Name:	Rheem	Collection Date:	3/8/2017 9:15:00 AM
Lab ID:	1703745-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:45	BN
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 12:45	BN
Surr: 4-Bromofluorobenzene	80.4	66.1-129	%REC		239455	1	03/15/2017 12:45	BN
Surr: Dibromofluoromethane	105	83.6-123	%REC		239455	1	03/15/2017 12:45	BN
Surr: Toluene-d8	88	81.8-118	%REC		239455	1	03/15/2017 12:45	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-43
Project Name:	Rheem	Collection Date:	3/8/2017 3:20:00 PM
Lab ID:	1703745-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 13:14	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 13:14	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 13:14	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 13:14	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 13:14	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 13:14	BN
cis-1,2-Dichloroethene		7.2	5.0	ug/L	239455	1	03/15/2017 13:14	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 13:14	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 13:14	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-43
Project Name:	Rheem	Collection Date:	3/8/2017 3:20:00 PM
Lab ID:	1703745-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Trichloroethene	83	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:14	BN
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 13:14	BN
Surr: 4-Bromofluorobenzene	77.8	66.1-129		%REC	239455	1	03/15/2017 13:14	BN
Surr: Dibromofluoromethane	102	83.6-123		%REC	239455	1	03/15/2017 13:14	BN
Surr: Toluene-d8	87.5	81.8-118		%REC	239455	1	03/15/2017 13:14	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-44
Project Name:	Rheem	Collection Date:	3/8/2017 10:25:00 AM
Lab ID:	1703745-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 13:43	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 13:43	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 13:43	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 13:43	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 13:43	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 13:43	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 13:43	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 13:43	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-44
Project Name:	Rheem	Collection Date:	3/8/2017 10:25:00 AM
Lab ID:	1703745-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:43	BN
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 13:43	BN
Surr: 4-Bromofluorobenzene	74.1	66.1-129	%REC		239455	1	03/15/2017 13:43	BN
Surr: Dibromofluoromethane	98.7	83.6-123	%REC		239455	1	03/15/2017 13:43	BN
Surr: Toluene-d8	87.2	81.8-118	%REC		239455	1	03/15/2017 13:43	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17066-MW-45
Project Name:	Rheem	Collection Date:	3/7/2017 5:35:00 PM
Lab ID:	1703745-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 14:12	BN
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 14:12	BN
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 14:12	BN
Acetone	BRL	50		ug/L	239455	1	03/15/2017 14:12	BN
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 14:12	BN
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 14:12	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 14:12	BN
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 14:12	BN
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Methyl tert-butyl ether		5.6	5.0	ug/L	239455	1	03/15/2017 14:12	BN
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17066-MW-45
Project Name:	Rheem	Collection Date:	3/7/2017 5:35:00 PM
Lab ID:	1703745-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:12	BN
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 14:12	BN
Surr: 4-Bromofluorobenzene	73.1	66.1-129	%REC	239455	1	03/15/2017 14:12	BN	
Surr: Dibromofluoromethane	96.9	83.6-123	%REC	239455	1	03/15/2017 14:12	BN	
Surr: Toluene-d8	86.6	81.8-118	%REC	239455	1	03/15/2017 14:12	BN	

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-46
Project Name:	Rheem	Collection Date:	3/8/2017 10:05:00 AM
Lab ID:	1703745-008	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 13:23	NP
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 13:23	NP
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 13:23	NP
Acetone	BRL	50		ug/L	239455	1	03/15/2017 13:23	NP
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 13:23	NP
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 13:23	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 13:23	NP
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 13:23	NP
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-46
Project Name:	Rheem	Collection Date:	3/8/2017 10:05:00 AM
Lab ID:	1703745-008	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Trichloroethene	22	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:23	NP
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 13:23	NP
Surr: 4-Bromofluorobenzene	95.4	66.1-129	%REC		239455	1	03/15/2017 13:23	NP
Surr: Dibromofluoromethane	102	83.6-123	%REC		239455	1	03/15/2017 13:23	NP
Surr: Toluene-d8	97.8	81.8-118	%REC		239455	1	03/15/2017 13:23	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-47
Project Name:	Rheem	Collection Date:	3/8/2017 11:37:00 AM
Lab ID:	1703745-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 13:47	NP
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 13:47	NP
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 13:47	NP
Acetone	BRL	50		ug/L	239455	1	03/15/2017 13:47	NP
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 13:47	NP
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 13:47	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 13:47	NP
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 13:47	NP
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-MW-47
Project Name:	Rheem	Collection Date:	3/8/2017 11:37:00 AM
Lab ID:	1703745-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 13:47	NP
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 13:47	NP
Surr: 4-Bromofluorobenzene	95.4	66.1-129	%REC		239455	1	03/15/2017 13:47	NP
Surr: Dibromofluoromethane	101	83.6-123	%REC		239455	1	03/15/2017 13:47	NP
Surr: Toluene-d8	96.4	81.8-118	%REC		239455	1	03/15/2017 13:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17066-MW-54
Project Name:	Rheem	Collection Date:	3/7/2017 4:22:00 PM
Lab ID:	1703745-010	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 14:11	NP
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 14:11	NP
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 14:11	NP
Acetone	BRL	50		ug/L	239455	1	03/15/2017 14:11	NP
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 14:11	NP
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 14:11	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 14:11	NP
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 14:11	NP
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17066-MW-54
Project Name:	Rheem	Collection Date:	3/7/2017 4:22:00 PM
Lab ID:	1703745-010	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:11	NP
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 14:11	NP
Surr: 4-Bromofluorobenzene	96.9	66.1-129	%REC	239455	1	03/15/2017 14:11	NP	
Surr: Dibromofluoromethane	102	83.6-123	%REC	239455	1	03/15/2017 14:11	NP	
Surr: Toluene-d8	97.2	81.8-118	%REC	239455	1	03/15/2017 14:11	NP	

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-DUP
Project Name:	Rheem	Collection Date:	3/8/2017 12:00:00 PM
Lab ID:	1703745-011	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 14:34	NP
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 14:34	NP
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 14:34	NP
Acetone	BRL	50		ug/L	239455	1	03/15/2017 14:34	NP
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 14:34	NP
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 14:34	NP
cis-1,2-Dichloroethene	51	5.0		ug/L	239455	1	03/15/2017 14:34	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 14:34	NP
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 14:34	NP
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17067-DUP
Project Name:	Rheem	Collection Date:	3/8/2017 12:00:00 PM
Lab ID:	1703745-011	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Trichloroethene	83	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 14:34	NP
Vinyl chloride	3.9	2.0		ug/L	239455	1	03/15/2017 14:34	NP
Surr: 4-Bromofluorobenzene	97.1	66.1-129	%REC		239455	1	03/15/2017 14:34	NP
Surr: Dibromofluoromethane	102	83.6-123	%REC		239455	1	03/15/2017 14:34	NP
Surr: Toluene-d8	97.8	81.8-118	%REC		239455	1	03/15/2017 14:34	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL	Below reporting limit	S Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr See case narrative
N	Analyte not NELAC certified	NC Not confirmed
B	Analyte detected in the associated method blank	< Less than Result value
>	Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Rheem	Collection Date:	3/9/2017
Lab ID:	1703745-012	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,1-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,1-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,2-Dibromoethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,2-Dichloroethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,2-Dichloropropane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
2-Butanone	BRL	50		ug/L	239455	1	03/15/2017 12:50	NP
2-Hexanone	BRL	10		ug/L	239455	1	03/15/2017 12:50	NP
4-Methyl-2-pentanone	BRL	10		ug/L	239455	1	03/15/2017 12:50	NP
Acetone	BRL	50		ug/L	239455	1	03/15/2017 12:50	NP
Benzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Bromodichloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Bromoform	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Bromomethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Carbon disulfide	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Carbon tetrachloride	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Chlorobenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Chloroethane	BRL	10		ug/L	239455	1	03/15/2017 12:50	NP
Chloroform	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Chloromethane	BRL	10		ug/L	239455	1	03/15/2017 12:50	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Cyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Dibromochloromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Dichlorodifluoromethane	BRL	10		ug/L	239455	1	03/15/2017 12:50	NP
Ethylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Freon-113	BRL	10		ug/L	239455	1	03/15/2017 12:50	NP
Isopropylbenzene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
m,p-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Methyl acetate	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Methylcyclohexane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Methylene chloride	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
o-Xylene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Rheem	Collection Date:	3/9/2017
Lab ID:	1703745-012	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Tetrachloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Toluene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Trichloroethene	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	239455	1	03/15/2017 12:50	NP
Vinyl chloride	BRL	2.0		ug/L	239455	1	03/15/2017 12:50	NP
Surr: 4-Bromofluorobenzene	94.4	66.1-129	%REC	239455	1	03/15/2017 12:50	NP	
Surr: Dibromofluoromethane	94	83.6-123	%REC	239455	1	03/15/2017 12:50	NP	
Surr: Toluene-d8	96.7	81.8-118	%REC	239455	1	03/15/2017 12:50	NP	

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____ AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703745

ANALYTICAL QC SUMMARY REPORT**BatchID: 239455**

Sample ID: MB-239455	Client ID:				Units: ug/L	Prep Date: 03/14/2017	Run No: 338432				
SampleType: MLBK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 239455	Analysis Date: 03/14/2017	Seq No: 7397441				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703745

ANALYTICAL QC SUMMARY REPORT**BatchID: 239455**

Sample ID: MB-239455	Client ID:	Units: ug/L			Prep Date:	03/14/2017	Run No:	338432			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 239455			Analysis Date:	03/14/2017	Seq No:	7397441			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.42	0	50.00		82.8	66.1	129				
Surr: Dibromofluoromethane	47.55	0	50.00		95.1	83.6	123				
Surr: Toluene-d8	45.77	0	50.00		91.5	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703745

ANALYTICAL QC SUMMARY REPORT**BatchID: 239455**

Sample ID: LCS-239455	Client ID:	Units: ug/L			Prep Date:	03/14/2017	Run No:	338432			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 239455			Analysis Date:	03/14/2017	Seq No:	7397442			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.40	5.0	50.00		103	68	139				
Benzene	51.67	5.0	50.00		103	74	125				
Chlorobenzene	51.74	5.0	50.00		103	75.7	123				
Toluene	50.42	5.0	50.00		101	75.9	126				
Trichloroethene	50.00	5.0	50.00		100	70.6	129				
Surr: 4-Bromofluorobenzene	42.72	0	50.00		85.4	66.1	129				
Surr: Dibromofluoromethane	47.41	0	50.00		94.8	83.6	123				
Surr: Toluene-d8	44.93	0	50.00		89.9	81.8	118				

Sample ID: 1703B94-008AMS	Client ID:	Units: ug/L			Prep Date:	03/14/2017	Run No:	338432			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 239455			Analysis Date:	03/14/2017	Seq No:	7397449			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1213	100	1000		121	64.3	149				
Benzene	1068	100	1000		107	71.6	132				
Chlorobenzene	1016	100	1000		102	73.1	126				
Toluene	1008	100	1000		101	72.5	135				
Trichloroethene	984.6	100	1000		98.5	70.2	132				
Surr: 4-Bromofluorobenzene	821.6	0	1000		82.2	66.1	129				
Surr: Dibromofluoromethane	961.6	0	1000		96.2	83.6	123				
Surr: Toluene-d8	881.4	0	1000		88.1	81.8	118				

Sample ID: 1703B94-008AMSD	Client ID:	Units: ug/L			Prep Date:	03/14/2017	Run No:	338432			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 239455			Analysis Date:	03/14/2017	Seq No:	7397450			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1145	100	1000		114	64.3	149	1213	5.73	30.8	
Benzene	1045	100	1000		105	71.6	132	1068	2.12	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL		Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703745

ANALYTICAL QC SUMMARY REPORT**BatchID: 239455**

Sample ID: 1703B94-008AMSD	Client ID:				Units: ug/L	Prep Date:	03/14/2017	Run No: 338432
SampleType: MSD	TestCode:	TCL VOLATILE ORGANICS SW8260B			BatchID: 239455	Analysis Date:	03/14/2017	Seq No: 7397450
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val
Chlorobenzene	979.2	100	1000		97.9	73.1	126	1016
Toluene	970.0	100	1000		97.0	72.5	135	1008
Trichloroethene	1012	100	1000		101	70.2	132	984.6
Surr: 4-Bromofluorobenzene	826.4	0	1000		82.6	66.1	129	821.6
Surr: Dibromofluoromethane	1008	0	1000		101	83.6	123	961.6
Surr: Toluene-d8	911.4	0	1000		91.1	81.8	118	881.4
								Qual

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 03, 2017

Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Rheem

Dear Justin Vickery:

Order No: 1703M77

Analytical Environmental Services, Inc. received 19samples on 3/24/2017 3:10:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Chris Pafford
Project Manager

Revision 4/3/2017



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703M77

Date: 3-24-17 Page 1 of 2

COMPANY: EPS Inc.		ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers			
				VOCs												
PHONE: 404 315 9113	SAMPLED BY: Alex Testoff, Cameron Lee	FAX:		SIGNATURE: <i>Alex Testoff</i>		PRESERVATION (See codes)								REMARKS		
#	SAMPLE ID	SAMPLED		DATE	TIME	Grab	Composite	Matrix (See codes)	H+I							
1	17083-MW-27-P			3-24-17	0915	X		GW	X							2
2	17083-MW-28-P				0945	X		GW	X							2
3	17083-MW-37D-P				0950	X		GW	X							2
4	17083-MW-37S-P				0956	X		GW	X							2
5	17083-MW-38D-P				1003	X		GW	X							2
6	17083-MW-38S-P				1009	X		GW	X							2
7	17083-MW-39-P				0930	X		GW	X							2
8	17083-MW-41A-P				1033	X		GW	X							2
9	17083-MW-41B-P				1051	X		GW	X							2
10	17083-MW-41C-P				1058	X		GW	X							2
11	17083-MW-41D-P				1104	X		GW	X							2
12	17083-MW-41E-P				1111	X		GW	X							2
13	17083-MW-42A-P				1130	X		GW	X							2
14	17083-MW-42B-P			↓	1140	X		GW	X							2
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION								RECEIPT		
<i>Alex Testoff</i>		1510 3-24-17	<i>Chris Hunt</i>		1510 3/24/17	PROJECT NAME: Rheem								Total # of Containers	28	
2:		2:	PROJECT #: _____								Turnaround Time Request					
3:		3:	SITE ADDRESS: Milledgeville, GA								Standard 5 Business Days					
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				SEND REPORT TO: jvickery@enviroplanning.com & atestoff@enviroplanning.com								2 Business Day Rush		
		OUT / /	VIA:	(IF DIFFERENT FROM ABOVE)								Next Business Day Rush				
		IN / /	VIA:									Same Day Rush (auth req.)				
		CLIENT FedEx UPS MAIL COURIER										Other _____				
		GREYHOUND OTHER _____										STATE PROGRAM (if any): _____				
				QUOTE #: _____ PO#: _____								E-mail? Y/N; Fax? Y/N				
												DATA PACKAGE: I II III IV				
SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.																

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Page 2 of 46



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703M77

Date: 3-24-17 Page 2 of 2

COMPANY: EPS Inc.		ADDRESS: 1080 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers					
PHONE: 404 315 9113		FAX:		VOCs														
SAMPLED BY: Alex Testoff, Cameron Lee		SIGNATURE: <i>Alex Testoff</i>		HPLC														
#	SAMPLE ID	SAMPLING		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS			
		DATE	TIME				HPLC											
1	17083-MW-42C-P	3-24-17	1150	X	GW	X												2
2	17083-MW-42D-P		1208	X	GW	X												2
3	17083-MW-42E-P		1158	X	GW	X												2
4	17083-Bigak-P		1215	X	GW	X												2
5	17083-DSP-P	↓	1200	X	GW	X												2
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION								RECEIPT					
1:	<i>Alex Testoff</i>	3-24-17 1510	1: <i>Amy Hui</i>	3/24/17 1510	PROJECT NAME: <i>Bheem</i>								Total # of Containers	10				
2:		2:			PROJECT #: _____								Turnaround Time Request					
3:		3:			SITE ADDRESS: <i>Milledgeville, GA</i>								Standard 5 Business Days					
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: <i>jtestoff@envplanning.com & atestoff@envplanning.com</i> (IF DIFFERENT FROM ABOVE)				Next Business Day Rush						
OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER												Same Day Rush (auth req.)						
												Other _____						
												STATE PROGRAM (if any): _____						
												E-mail? Y / N; Fax? Y / N						
												DATA PACKAGE: I II III IV						
SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.																		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.		Client Sample ID:	17083-MW-27-P				
Project Name:	Rheem		Collection Date:	3/24/2017 9:15:00 AM				
Lab ID:	1703M77-001		Matrix:	Groundwater				
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 10:55	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 10:55	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 10:55	LJ
Acetone	63	50		ug/L	240335	1	03/29/2017 10:55	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 10:55	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 10:55	LJ
cis-1,2-Dichloroethene	5.8	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 10:55	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 10:55	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-27-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:15:00 AM
Lab ID:	1703M77-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Trichloroethene	9.3	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 10:55	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 10:55	LJ
Surr: 4-Bromofluorobenzene	66.2	66.1-129		%REC	240335	1	03/29/2017 10:55	LJ
Surr: Dibromofluoromethane	101	83.6-123		%REC	240335	1	03/29/2017 10:55	LJ
Surr: Toluene-d8	86.3	81.8-118		%REC	240335	1	03/29/2017 10:55	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-28-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:45:00 AM
Lab ID:	1703M77-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 12:22	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 12:22	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 12:22	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 12:22	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 12:22	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 12:22	LJ
cis-1,2-Dichloroethene		10		ug/L	240335	1	03/29/2017 12:22	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 12:22	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 12:22	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-28-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:45:00 AM
Lab ID:	1703M77-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Trichloroethene	190	50		ug/L	240335	10	03/30/2017 18:47	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:22	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 12:22	LJ
Surr: 4-Bromofluorobenzene	72	66.1-129		%REC	240335	1	03/29/2017 12:22	LJ
Surr: 4-Bromofluorobenzene	74.4	66.1-129		%REC	240335	10	03/30/2017 18:47	LJ
Surr: Dibromofluoromethane	97.2	83.6-123		%REC	240335	1	03/29/2017 12:22	LJ
Surr: Dibromofluoromethane	107	83.6-123		%REC	240335	10	03/30/2017 18:47	LJ
Surr: Toluene-d8	88	81.8-118		%REC	240335	1	03/29/2017 12:22	LJ
Surr: Toluene-d8	88.3	81.8-118		%REC	240335	10	03/30/2017 18:47	LJ

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-37D-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:50:00 AM
Lab ID:	1703M77-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 12:50	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 12:50	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 12:50	LJ
Acetone	58	50		ug/L	240335	1	03/29/2017 12:50	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 12:50	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 12:50	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 12:50	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 12:50	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-37D-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:50:00 AM
Lab ID:	1703M77-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Trichloroethene	50	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 12:50	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 12:50	LJ
Surr: 4-Bromofluorobenzene	68.8	66.1-129	%REC		240335	1	03/29/2017 12:50	LJ
Surr: Dibromofluoromethane	100	83.6-123	%REC		240335	1	03/29/2017 12:50	LJ
Surr: Toluene-d8	86.7	81.8-118	%REC		240335	1	03/29/2017 12:50	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-37S-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:56:00 AM
Lab ID:	1703M77-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 13:19	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 13:19	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 13:19	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 13:19	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 13:19	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 13:19	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 13:19	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 13:19	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-37S-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:56:00 AM
Lab ID:	1703M77-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Trichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:19	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 13:19	LJ
Surr: 4-Bromofluorobenzene	68.3	66.1-129	%REC		240335	1	03/29/2017 13:19	LJ
Surr: Dibromofluoromethane	104	83.6-123	%REC		240335	1	03/29/2017 13:19	LJ
Surr: Toluene-d8	89.4	81.8-118	%REC		240335	1	03/29/2017 13:19	LJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-38D-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:03:00 AM
Lab ID:	1703M77-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 13:48	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 13:48	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 13:48	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 13:48	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 13:48	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 13:48	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 13:48	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 13:48	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-38D-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:03:00 AM
Lab ID:	1703M77-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Trichloroethene	41	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 13:48	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 13:48	LJ
Surr: 4-Bromofluorobenzene	69.6	66.1-129	%REC		240335	1	03/29/2017 13:48	LJ
Surr: Dibromofluoromethane	105	83.6-123	%REC		240335	1	03/29/2017 13:48	LJ
Surr: Toluene-d8	87.5	81.8-118	%REC		240335	1	03/29/2017 13:48	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-38S-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:09:00 AM
Lab ID:	1703M77-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 14:18	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 14:18	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 14:18	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 14:18	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 14:18	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 14:18	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 14:18	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 14:18	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-38S-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:09:00 AM
Lab ID:	1703M77-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Trichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:18	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 14:18	LJ
Surr: 4-Bromofluorobenzene	68.9	66.1-129	%REC		240335	1	03/29/2017 14:18	LJ
Surr: Dibromofluoromethane	97.8	83.6-123	%REC		240335	1	03/29/2017 14:18	LJ
Surr: Toluene-d8	87.8	81.8-118	%REC		240335	1	03/29/2017 14:18	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-39-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:30:00 AM
Lab ID:	1703M77-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 14:47	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 14:47	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 14:47	LJ
Acetone	57	50		ug/L	240335	1	03/29/2017 14:47	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 14:47	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 14:47	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 14:47	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 14:47	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-39-P
Project Name:	Rheem	Collection Date:	3/24/2017 9:30:00 AM
Lab ID:	1703M77-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Trichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 14:47	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 14:47	LJ
Surr: 4-Bromofluorobenzene	69.4	66.1-129	%REC		240335	1	03/29/2017 14:47	LJ
Surr: Dibromofluoromethane	101	83.6-123	%REC		240335	1	03/29/2017 14:47	LJ
Surr: Toluene-d8	86.5	81.8-118	%REC		240335	1	03/29/2017 14:47	LJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41A-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:33:00 AM
Lab ID:	1703M77-008	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 15:16	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 15:16	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 15:16	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 15:16	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 15:16	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 15:16	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 15:16	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 15:16	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41A-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:33:00 AM
Lab ID:	1703M77-008	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Trichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:16	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 15:16	LJ
Surr: 4-Bromofluorobenzene	68.9	66.1-129		%REC	240335	1	03/29/2017 15:16	LJ
Surr: Dibromofluoromethane	99.9	83.6-123		%REC	240335	1	03/29/2017 15:16	LJ
Surr: Toluene-d8	87	81.8-118		%REC	240335	1	03/29/2017 15:16	LJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41B-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:51:00 AM
Lab ID:	1703M77-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 15:45	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 15:45	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 15:45	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 15:45	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 15:45	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 15:45	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 15:45	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 15:45	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41B-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:51:00 AM
Lab ID:	1703M77-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Trichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 15:45	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 15:45	LJ
Surr: 4-Bromofluorobenzene	70.7	66.1-129	%REC		240335	1	03/29/2017 15:45	LJ
Surr: Dibromofluoromethane	106	83.6-123	%REC		240335	1	03/29/2017 15:45	LJ
Surr: Toluene-d8	90.6	81.8-118	%REC		240335	1	03/29/2017 15:45	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41C-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:58:00 AM
Lab ID:	1703M77-010	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								(SW5030B)
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
2-Butanone	BRL	50		ug/L	240335	1	03/29/2017 16:14	LJ
2-Hexanone	BRL	10		ug/L	240335	1	03/29/2017 16:14	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/29/2017 16:14	LJ
Acetone	BRL	50		ug/L	240335	1	03/29/2017 16:14	LJ
Benzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Bromoform	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Bromomethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Chloroethane	BRL	10		ug/L	240335	1	03/29/2017 16:14	LJ
Chloroform	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Chloromethane	BRL	10		ug/L	240335	1	03/29/2017 16:14	LJ
cis-1,2-Dichloroethene	12	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Cyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/29/2017 16:14	LJ
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Freon-113	BRL	10		ug/L	240335	1	03/29/2017 16:14	LJ
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Methyl acetate	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Methylene chloride	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
o-Xylene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41C-P
Project Name:	Rheem	Collection Date:	3/24/2017 10:58:00 AM
Lab ID:	1703M77-010	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Toluene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Trichloroethene	110	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/29/2017 16:14	LJ
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/29/2017 16:14	LJ
Surr: 4-Bromofluorobenzene	71	66.1-129	%REC		240335	1	03/29/2017 16:14	LJ
Surr: Dibromofluoromethane	104	83.6-123	%REC		240335	1	03/29/2017 16:14	LJ
Surr: Toluene-d8	87.9	81.8-118	%REC		240335	1	03/29/2017 16:14	LJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41D-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:04:00 AM
Lab ID:	1703M77-011	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 17:30	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 17:30	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 17:30	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 17:30	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 17:30	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 17:30	NH
cis-1,2-Dichloroethene	8.8	5.0		ug/L	240335	1	03/30/2017 17:30	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 17:30	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 17:30	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41D-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:04:00 AM
Lab ID:	1703M77-011	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Trichloroethene	110	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:30	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 17:30	NH
Surr: 4-Bromofluorobenzene	89.4	66.1-129	%REC		240335	1	03/30/2017 17:30	NH
Surr: Dibromofluoromethane	102	83.6-123	%REC		240335	1	03/30/2017 17:30	NH
Surr: Toluene-d8	96	81.8-118	%REC		240335	1	03/30/2017 17:30	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41E-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:11:00 AM
Lab ID:	1703M77-012	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 17:57	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 17:57	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 17:57	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 17:57	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 17:57	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 17:57	NH
cis-1,2-Dichloroethene		10		ug/L	240335	1	03/30/2017 17:57	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 17:57	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 17:57	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-41E-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:11:00 AM
Lab ID:	1703M77-012	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Trichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:57	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 17:57	NH
Surr: 4-Bromofluorobenzene	90.8	66.1-129	%REC		240335	1	03/30/2017 17:57	NH
Surr: Dibromofluoromethane	103	83.6-123	%REC		240335	1	03/30/2017 17:57	NH
Surr: Toluene-d8	99.7	81.8-118	%REC		240335	1	03/30/2017 17:57	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42A-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:30:00 AM
Lab ID:	1703M77-013	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 18:24	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 18:24	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 18:24	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 18:24	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 18:24	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 18:24	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 18:24	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 18:24	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42A-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:30:00 AM
Lab ID:	1703M77-013	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Trichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:24	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 18:24	NH
Surr: 4-Bromofluorobenzene	85	66.1-129	%REC		240335	1	03/30/2017 18:24	NH
Surr: Dibromofluoromethane	104	83.6-123	%REC		240335	1	03/30/2017 18:24	NH
Surr: Toluene-d8	101	81.8-118	%REC		240335	1	03/30/2017 18:24	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42B-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:40:00 AM
Lab ID:	1703M77-014	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 18:51	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 18:51	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 18:51	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 18:51	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 18:51	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 18:51	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 18:51	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 18:51	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42B-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:40:00 AM
Lab ID:	1703M77-014	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Trichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 18:51	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 18:51	NH
Surr: 4-Bromofluorobenzene	86.7	66.1-129	%REC		240335	1	03/30/2017 18:51	NH
Surr: Dibromofluoromethane	105	83.6-123	%REC		240335	1	03/30/2017 18:51	NH
Surr: Toluene-d8	99.6	81.8-118	%REC		240335	1	03/30/2017 18:51	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42C-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:50:00 AM
Lab ID:	1703M77-015	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 19:45	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 19:45	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 19:45	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 19:45	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 19:45	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 19:45	NH
cis-1,2-Dichloroethene	11	5.0		ug/L	240335	1	03/30/2017 19:45	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 19:45	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 19:45	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42C-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:50:00 AM
Lab ID:	1703M77-015	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Trichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:45	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 19:45	NH
Surr: 4-Bromofluorobenzene	87.4	66.1-129	%REC		240335	1	03/30/2017 19:45	NH
Surr: Dibromofluoromethane	106	83.6-123	%REC		240335	1	03/30/2017 19:45	NH
Surr: Toluene-d8	96.2	81.8-118	%REC		240335	1	03/30/2017 19:45	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42D-P
Project Name:	Rheem	Collection Date:	3/24/2017 12:08:00 PM
Lab ID:	1703M77-016	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 17:03	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 17:03	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 17:03	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 17:03	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 17:03	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 17:03	NH
cis-1,2-Dichloroethene	29	5.0		ug/L	240335	1	03/30/2017 17:03	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 17:03	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 17:03	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42D-P
Project Name:	Rheem	Collection Date:	3/24/2017 12:08:00 PM
Lab ID:	1703M77-016	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Trichloroethene	11	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 17:03	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 17:03	NH
Surr: 4-Bromofluorobenzene	85.6	66.1-129	%REC		240335	1	03/30/2017 17:03	NH
Surr: Dibromofluoromethane	104	83.6-123	%REC		240335	1	03/30/2017 17:03	NH
Surr: Toluene-d8	95.9	81.8-118	%REC		240335	1	03/30/2017 17:03	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42E-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:58:00 AM
Lab ID:	1703M77-017	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 19:18	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 19:18	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 19:18	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 19:18	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 19:18	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 19:18	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 19:18	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 19:18	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-MW-42E-P
Project Name:	Rheem	Collection Date:	3/24/2017 11:58:00 AM
Lab ID:	1703M77-017	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Trichloroethene	39	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 19:18	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 19:18	NH
Surr: 4-Bromofluorobenzene	93.8	66.1-129	%REC		240335	1	03/30/2017 19:18	NH
Surr: Dibromofluoromethane	102	83.6-123	%REC		240335	1	03/30/2017 19:18	NH
Surr: Toluene-d8	98.7	81.8-118	%REC		240335	1	03/30/2017 19:18	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-BLANK-P
Project Name:	Rheem	Collection Date:	3/24/2017 12:15:00 PM
Lab ID:	1703M77-018	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 16:36	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 16:36	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 16:36	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 16:36	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 16:36	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 16:36	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 16:36	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 16:36	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-BLANK-P
Project Name:	Rheem	Collection Date:	3/24/2017 12:15:00 PM
Lab ID:	1703M77-018	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Trichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 16:36	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 16:36	NH
Surr: 4-Bromofluorobenzene	87.8	66.1-129	%REC		240335	1	03/30/2017 16:36	NH
Surr: Dibromofluoromethane	104	83.6-123	%REC		240335	1	03/30/2017 16:36	NH
Surr: Toluene-d8	98.9	81.8-118	%REC		240335	1	03/30/2017 16:36	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-DUP-P
Project Name:	Rheem	Collection Date:	3/24/2017 12:00:00 PM
Lab ID:	1703M77-019	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,1-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,1-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,2-Dibromoethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,2-Dichloroethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,2-Dichloropropane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
2-Butanone	BRL	50		ug/L	240335	1	03/30/2017 20:12	NH
2-Hexanone	BRL	10		ug/L	240335	1	03/30/2017 20:12	NH
4-Methyl-2-pentanone	BRL	10		ug/L	240335	1	03/30/2017 20:12	NH
Acetone	BRL	50		ug/L	240335	1	03/30/2017 20:12	NH
Benzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Bromodichloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Bromoform	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Bromomethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Carbon disulfide	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Carbon tetrachloride	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Chlorobenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Chloroethane	BRL	10		ug/L	240335	1	03/30/2017 20:12	NH
Chloroform	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Chloromethane	BRL	10		ug/L	240335	1	03/30/2017 20:12	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Cyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Dibromochloromethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Dichlorodifluoromethane	BRL	10		ug/L	240335	1	03/30/2017 20:12	NH
Ethylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Freon-113	BRL	10		ug/L	240335	1	03/30/2017 20:12	NH
Isopropylbenzene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
m,p-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Methyl acetate	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Methylcyclohexane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Methylene chloride	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
o-Xylene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Mar-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17083-DUP-P
Project Name:	Rheem	Collection Date:	3/24/2017 12:00:00 PM
Lab ID:	1703M77-019	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Tetrachloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Toluene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Trichloroethene	53	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Trichlorofluoromethane	BRL	5.0		ug/L	240335	1	03/30/2017 20:12	NH
Vinyl chloride	BRL	2.0		ug/L	240335	1	03/30/2017 20:12	NH
Surr: 4-Bromofluorobenzene	86.1	66.1-129	%REC		240335	1	03/30/2017 20:12	NH
Surr: Dibromofluoromethane	96.6	83.6-123	%REC		240335	1	03/30/2017 20:12	NH
Surr: Toluene-d8	93.9	81.8-118	%REC		240335	1	03/30/2017 20:12	NH

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

 1. Client Name: **Environmental Planning Specialists, Inc.**

 AES Work Order Number: **1703M77**

 2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 3.6 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

MJ 3/24/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials).

AJ 3-25-17

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Checked after analysis
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

I certify that I have completed sections 28-30 (dated initials).

AJ 3-25-17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703M77

ANALYTICAL QC SUMMARY REPORT**BatchID: 240335**

Sample ID: MB-240335	Client ID:	Units: ug/L	Prep Date: 03/29/2017	Run No: 339544							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 240335	Analysis Date: 03/29/2017	Seq No: 7427528							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703M77

ANALYTICAL QC SUMMARY REPORT**BatchID: 240335**

Sample ID: MB-240335	Client ID:	Units: ug/L			Prep Date:	03/29/2017	Run No:	339544			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 240335			Analysis Date:	03/29/2017	Seq No:	7427528			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	34.55	0	50.00		69.1	66.1	129				
Surr: Dibromofluoromethane	49.98	0	50.00		100.0	83.6	123				
Surr: Toluene-d8	44.00	0	50.00		88.0	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703M77

ANALYTICAL QC SUMMARY REPORT**BatchID: 240335**

Sample ID: LCS-240335	Client ID: TestCode: TCL VOLATILE ORGANICS SW8260B	Units: ug/L	Prep Date: 03/29/2017	Run No: 339544							
SampleType: LCS		BatchID: 240335	Analysis Date: 03/29/2017	Seq No: 7427527							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.97	5.0	50.00		130	68	139				
Benzene	54.56	5.0	50.00		109	74	125				
Chlorobenzene	52.13	5.0	50.00		104	75.7	123				
Toluene	50.95	5.0	50.00		102	75.9	126				
Trichloroethene	53.15	5.0	50.00		106	70.6	129				
Surr: 4-Bromofluorobenzene	37.38	0	50.00		74.8	66.1	129				
Surr: Dibromofluoromethane	46.45	0	50.00		92.9	83.6	123				
Surr: Toluene-d8	41.90	0	50.00		83.8	81.8	118				

Sample ID: 1703M77-001AMS	Client ID: 17083-MW-27-P	Units: ug/L	Prep Date: 03/29/2017	Run No: 339544							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 240335	Analysis Date: 03/29/2017	Seq No: 7427530							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.06	5.0	50.00		122	64.3	149				
Benzene	52.92	5.0	50.00		106	71.6	132				
Chlorobenzene	50.29	5.0	50.00		101	73.1	126				
Toluene	51.56	5.0	50.00		103	72.5	135				
Trichloroethene	60.79	5.0	50.00	9.290	103	70.2	132				
Surr: 4-Bromofluorobenzene	35.62	0	50.00		71.2	66.1	129				
Surr: Dibromofluoromethane	47.90	0	50.00		95.8	83.6	123				
Surr: Toluene-d8	42.97	0	50.00		85.9	81.8	118				

Sample ID: 1703M77-001AMSD	Client ID: 17083-MW-27-P	Units: ug/L	Prep Date: 03/29/2017	Run No: 339544							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 240335	Analysis Date: 03/29/2017	Seq No: 7427531							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.81	5.0	50.00		120	64.3	149	61.06	2.07	30.8	
Benzene	53.99	5.0	50.00		108	71.6	132	52.92	2.00	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703M77

ANALYTICAL QC SUMMARY REPORT**BatchID: 240335**

Sample ID: 1703M77-001AMSD	Client ID: 17083-MW-27-P				Units: ug/L	Prep Date: 03/29/2017	Run No: 339544				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 240335	Analysis Date: 03/29/2017	Seq No: 7427531				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.44	5.0	50.00		98.9	73.1	126	50.29	1.70	26.6	
Toluene	51.79	5.0	50.00		104	72.5	135	51.56	0.445	23.2	
Trichloroethene	60.06	5.0	50.00	9.290	102	70.2	132	60.79	1.21	27.7	
Surr: 4-Bromofluorobenzene	34.46	0	50.00		68.9	66.1	129	35.62	0	0	
Surr: Dibromofluoromethane	49.35	0	50.00		98.7	83.6	123	47.90	0	0	
Surr: Toluene-d8	43.66	0	50.00		87.3	81.8	118	42.97	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 10, 2017

Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Rheem

Dear Justin Vickery:

Order No: 1703O72

Analytical Environmental Services, Inc. received 7 samples on 3/28/2017 2:43:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

A handwritten signature in black ink, appearing to read "Chris Pafford".

Chris Pafford
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 703072Date: 3-28-17 Page 1 of 1

COMPANY: EPS Inc.		ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers								
				VOCs	Ethane	Ethene	Methane	TOL	Nitrate	Sulfate											
PHONE: 404 315 9113		FAX:		SIGNATURE: Alex Testoff																	
SAMPLED BY: Alex Testoff, Joe Terry, Cameron Lee																					
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)												REMARKS		
		DATE	TIME				H	I	II	III	IV	V	S	VI	VII	VIII					
1	17087-MW-1	3-28-17	1200	X		GW	X	X	X	X	X	X	X	X	X	6					
2	17087-MW-5		1230	X		GW	X	X	X	X	X	X	X	X	X	6					
3	17087-MW-9		0940	X		GW	X	X	X	X	X	X	X	X	X	6					
4	17087-MW-48A		1017	X		GW	X	X	X	X	X	X	X	X	X	6					
5	17087-MW-48B		0925	X		GW	X	X	X	X	X	X	X	X	X	6					
6	17087-PZ-7		1105	X		GW	X	X	X	X	X	X	X	X	X	6					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION												RECEIPT	
1: Alex Testoff		3-28-17 1443		1: Alex Testoff		3/28/17 1443		PROJECT NAME: Rheem												Total # of Containers 36	
2:				2:				PROJECT #: _____												Turnaround Time Request	
3:				3:				SITE ADDRESS: Milledgeville, GA												<input checked="" type="checkbox"/> Standard 5 Business Days	
								SEND REPORT TO: Jwickry@envplanning.com & atestoff@envplanning.com												<input type="checkbox"/> 2 Business Day Rush	
																				<input type="checkbox"/> Next Business Day Rush	
																				<input type="checkbox"/> Same Day Rush (auth req.)	
																				<input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:												INVOICE TO: (IF DIFFERENT FROM ABOVE)		STATE PROGRAM (if any): _____					
		OUT	/	/	VIA:													atestoff@envplanning.com		E-mail? _____ Fax? _____	
		IN	/	/	VIA:													QUOTE #: _____ PO#: _____		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.																					
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.																					

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Client: Environmental Planning Specialists, Inc.
Project: Rheem
Lab ID: 1703O72

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Workorder 1703O72 was received at 15.2°C, outside required temperature range of 0-6°C. Samples were received on ice but, due to being immediately delivered to the laboratory, target temperature had not been reached.

Volatiles Organic Compounds Analysis by Method 8260B:

cis-1,2-Dichloroethene value for sample 1703O72-005A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-1					
Project Name:	Rheem	Collection Date:	3/28/2017 12:00:00 PM					
Lab ID:	1703072-001	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R340172	1	04/06/2017 10:23	JW
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,1,2-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,1-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 19:19	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 19:19	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 19:19	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 19:19	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 19:19	JE
Chloroform	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 19:19	JE
cis-1,2-Dichloroethene		12		ug/L	240426	1	03/31/2017 19:19	JE
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Dichlorodifluoromethane	BRL	10		ug/L	240426	1	03/31/2017 19:19	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 19:19	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-1
Project Name:	Rheem	Collection Date:	3/28/2017 12:00:00 PM
Lab ID:	1703072-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Methylene chloride	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Tetrachloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Trichloroethene	560	50		ug/L	240426	10	04/04/2017 10:46	JE
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:19	JE
Vinyl chloride	BRL	2.0		ug/L	240426	1	03/31/2017 19:19	JE
Surr: 4-Bromofluorobenzene	96.1	66.1-129	%REC		240426	10	04/04/2017 10:46	JE
Surr: 4-Bromofluorobenzene	99	66.1-129	%REC		240426	1	03/31/2017 19:19	JE
Surr: Dibromofluoromethane	97.6	83.6-123	%REC		240426	10	04/04/2017 10:46	JE
Surr: Dibromofluoromethane	99	83.6-123	%REC		240426	1	03/31/2017 19:19	JE
Surr: Toluene-d8	99.4	81.8-118	%REC		240426	1	03/31/2017 19:19	JE
Surr: Toluene-d8	98.5	81.8-118	%REC		240426	10	04/04/2017 10:46	JE

ION SCAN SW9056A

Nitrate	0.26	0.25	mg/L	R339836	1	03/29/2017 11:01	JW
Sulfate	5.6	1.0	mg/L	R339836	1	03/29/2017 11:01	JW

GC Analysis of Gaseous Samples SOP-RSK 175

Ethane	BRL	9.0	ug/L	240379	1	03/31/2017 10:09	EI
Ethylene	BRL	7.0	ug/L	240379	1	03/31/2017 10:09	EI
Methane	BRL	4.0	ug/L	240379	1	03/31/2017 10:09	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-5					
Project Name:	Rheem	Collection Date:	3/28/2017 12:30:00 PM					
Lab ID:	1703072-002	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	5.85	1.00		mg/L	R340172	1	04/06/2017 10:50	JW
TCL VOLATILE ORGANICS SW8260B								
(SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,1,2-Trichloroethane		61	5.0	ug/L	240426	1	03/31/2017 19:45	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,1-Dichloroethene		87	5.0	ug/L	240426	1	03/31/2017 19:45	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 19:45	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 19:45	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 19:45	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 19:45	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 19:45	JE
Chloroform		5.6	5.0	ug/L	240426	1	03/31/2017 19:45	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 19:45	JE
cis-1,2-Dichloroethene		2500	2500	ug/L	240426	500	04/04/2017 12:04	JE
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Dichlorodifluoromethane		15	10	ug/L	240426	1	03/31/2017 19:45	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 19:45	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-5
Project Name:	Rheem	Collection Date:	3/28/2017 12:30:00 PM
Lab ID:	1703072-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Methylene chloride	12	5.0		ug/L	240426	1	03/31/2017 19:45	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Tetrachloroethene	16	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Trichloroethene	140000	25000		ug/L	240426	5000	04/04/2017 13:52	NP
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 19:45	JE
Vinyl chloride	2.9	2.0		ug/L	240426	1	03/31/2017 19:45	JE
Surr: 4-Bromofluorobenzene	79.8	66.1-129	%REC		240426	5000	04/04/2017 13:52	NP
Surr: 4-Bromofluorobenzene	97.5	66.1-129	%REC		240426	500	04/04/2017 12:04	JE
Surr: 4-Bromofluorobenzene	98.7	66.1-129	%REC		240426	1	03/31/2017 19:45	JE
Surr: Dibromofluoromethane	98.2	83.6-123	%REC		240426	500	04/04/2017 12:04	JE
Surr: Dibromofluoromethane	110	83.6-123	%REC		240426	5000	04/04/2017 13:52	NP
Surr: Dibromofluoromethane	98.9	83.6-123	%REC		240426	1	03/31/2017 19:45	JE
Surr: Toluene-d8	97.8	81.8-118	%REC		240426	500	04/04/2017 12:04	JE
Surr: Toluene-d8	105	81.8-118	%REC		240426	5000	04/04/2017 13:52	NP
Surr: Toluene-d8	87.2	81.8-118	%REC		240426	1	03/31/2017 19:45	JE

ION SCAN SW9056A

Nitrate	BRL	0.25		mg/L	R339836	1	03/29/2017 11:16	JW
Sulfate		1.7	1.0	mg/L	R339836	1	03/29/2017 11:16	JW

GC Analysis of Gaseous Samples SOP-RSK 175

Ethane	BRL	9.0		ug/L	240379	1	03/31/2017 10:19	EI
Ethylene	BRL	7.0		ug/L	240379	1	03/31/2017 10:19	EI
Methane	BRL	4.0		ug/L	240379	1	03/31/2017 10:19	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

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> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-9
Project Name:	Rheem	Collection Date:	3/28/2017 9:40:00 AM
Lab ID:	1703072-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	8.94	1.00		mg/L	R340172	1	04/06/2017 11:16	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,1,2-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,1-Dichloroethene		74	5.0	ug/L	240426	1	03/31/2017 20:11	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 20:11	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 20:11	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 20:11	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 20:11	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 20:11	JE
Chloroform	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 20:11	JE
cis-1,2-Dichloroethene		3300	500	ug/L	240426	100	04/04/2017 15:09	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Dichlorodifluoromethane	BRL	10		ug/L	240426	1	03/31/2017 20:11	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 20:11	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-9
Project Name:	Rheem	Collection Date:	3/28/2017 9:40:00 AM
Lab ID:	1703072-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Methylene chloride	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Tetrachloroethene	21	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Trichloroethene	690	500		ug/L	240426	100	04/04/2017 15:09	NP
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:11	JE
Vinyl chloride	2.8	2.0		ug/L	240426	1	03/31/2017 20:11	JE
Surr: 4-Bromofluorobenzene	79.4	66.1-129	%REC		240426	100	04/04/2017 15:09	NP
Surr: 4-Bromofluorobenzene	99.8	66.1-129	%REC		240426	1	03/31/2017 20:11	JE
Surr: Dibromofluoromethane	103	83.6-123	%REC		240426	1	03/31/2017 20:11	JE
Surr: Dibromofluoromethane	108	83.6-123	%REC		240426	100	04/04/2017 15:09	NP
Surr: Toluene-d8	98.9	81.8-118	%REC		240426	1	03/31/2017 20:11	JE
Surr: Toluene-d8	101	81.8-118	%REC		240426	100	04/04/2017 15:09	NP
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R339836	1	03/29/2017 11:31	JW
Sulfate	3.0	1.0		mg/L	R339836	1	03/29/2017 11:31	JW
GC Analysis of Gaseous Samples SOP-RSK 175								
Ethane	BRL	9.0		ug/L	240379	1	03/31/2017 10:27	EI
Ethylene	BRL	7.0		ug/L	240379	1	03/31/2017 10:27	EI
Methane	BRL	4.0		ug/L	240379	1	03/31/2017 10:27	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-48A
Project Name:	Rheem	Collection Date:	3/28/2017 10:17:00 AM
Lab ID:	1703072-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	4.45	1.00		mg/L	R340172	1	04/06/2017 11:42	JW
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,1,2-Trichloroethane		17		ug/L	240426	1	03/31/2017 20:37	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,1-Dichloroethene		15		ug/L	240426	1	03/31/2017 20:37	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 20:37	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 20:37	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 20:37	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 20:37	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 20:37	JE
Chloroform	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 20:37	JE
cis-1,2-Dichloroethene		960	500	ug/L	240426	500	04/04/2017 12:30	JE
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Dichlorodifluoromethane	BRL	10		ug/L	240426	1	03/31/2017 20:37	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 20:37	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-48A
Project Name:	Rheem	Collection Date:	3/28/2017 10:17:00 AM
Lab ID:	1703072-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Methylene chloride	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Tetrachloroethene	5.1	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Trichloroethene	31000	2500		ug/L	240426	500	04/04/2017 12:30	JE
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 20:37	JE
Vinyl chloride	BRL	2.0		ug/L	240426	1	03/31/2017 20:37	JE
Surr: 4-Bromofluorobenzene	98.8	66.1-129	%REC		240426	500	04/04/2017 12:30	JE
Surr: 4-Bromofluorobenzene	98.2	66.1-129	%REC		240426	1	03/31/2017 20:37	JE
Surr: Dibromofluoromethane	98.9	83.6-123	%REC		240426	500	04/04/2017 12:30	JE
Surr: Dibromofluoromethane	97.4	83.6-123	%REC		240426	1	03/31/2017 20:37	JE
Surr: Toluene-d8	97.8	81.8-118	%REC		240426	500	04/04/2017 12:30	JE
Surr: Toluene-d8	94.9	81.8-118	%REC		240426	1	03/31/2017 20:37	JE
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R339836	1	03/29/2017 11:46	JW
Sulfate	4.8	1.0		mg/L	R339836	1	03/29/2017 11:46	JW
GC Analysis of Gaseous Samples SOP-RSK 175								
Ethane	9.9	9.0		ug/L	240379	1	03/31/2017 11:01	EI
Ethylene	15	7.0		ug/L	240379	1	03/31/2017 11:01	EI
Methane	BRL	4.0		ug/L	240379	1	03/31/2017 11:01	EI

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-48B					
Project Name:	Rheem	Collection Date:	3/28/2017 9:25:00 AM					
Lab ID:	1703072-005	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A		(SW5030B)						
Organic Carbon, Total	4.34	1.00		mg/L	R340172	1	04/06/2017 12:08	JW
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,1,2-Trichloroethane		24		ug/L	240426	1	03/31/2017 21:02	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,1-Dichloroethene		18		ug/L	240426	1	03/31/2017 21:02	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 21:02	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 21:02	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 21:02	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 21:02	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 21:02	JE
Chloroform	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 21:02	JE
cis-1,2-Dichloroethene		330	E	ug/L	240426	1	03/31/2017 21:02	JE
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Dichlorodifluoromethane	BRL	10		ug/L	240426	1	03/31/2017 21:02	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 21:02	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-MW-48B
Project Name:	Rheem	Collection Date:	3/28/2017 9:25:00 AM
Lab ID:	1703072-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Methylene chloride	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Tetrachloroethene	8.4	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Trichloroethene	47000	2500		ug/L	240426	500	04/04/2017 14:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:02	JE
Vinyl chloride	BRL	2.0		ug/L	240426	1	03/31/2017 21:02	JE
Surr: 4-Bromofluorobenzene	78.1	66.1-129	%REC		240426	500	04/04/2017 14:18	NP
Surr: 4-Bromofluorobenzene	97.7	66.1-129	%REC		240426	1	03/31/2017 21:02	JE
Surr: Dibromofluoromethane	111	83.6-123	%REC		240426	500	04/04/2017 14:18	NP
Surr: Dibromofluoromethane	96.6	83.6-123	%REC		240426	1	03/31/2017 21:02	JE
Surr: Toluene-d8	103	81.8-118	%REC		240426	500	04/04/2017 14:18	NP
Surr: Toluene-d8	92	81.8-118	%REC		240426	1	03/31/2017 21:02	JE
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R339836	1	03/29/2017 12:01	JW
Sulfate		1.4	1.0	mg/L	R339836	1	03/29/2017 12:01	JW
GC Analysis of Gaseous Samples SOP-RSK 175								
Ethane	BRL	9.0		ug/L	240379	1	03/31/2017 11:07	EI
Ethylene	BRL	7.0		ug/L	240379	1	03/31/2017 11:07	EI
Methane	BRL	4.0		ug/L	240379	1	03/31/2017 11:07	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-PZ-7					
Project Name:	Rheem	Collection Date:	3/28/2017 11:05:00 AM					
Lab ID:	1703072-006	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	9.26	1.00		mg/L	R340230	1	04/07/2017 05:41	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,1,2-Trichloroethane		16	5.0	ug/L	240426	1	03/31/2017 21:28	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,1-Dichloroethene		20	5.0	ug/L	240426	1	03/31/2017 21:28	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 21:28	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 21:28	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 21:28	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 21:28	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 21:28	JE
Chloroform	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 21:28	JE
cis-1,2-Dichloroethene		1200	1000	ug/L	240426	500	04/04/2017 14:43	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Dichlorodifluoromethane	BRL	10		ug/L	240426	1	03/31/2017 21:28	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 21:28	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17087-PZ-7
Project Name:	Rheem	Collection Date:	3/28/2017 11:05:00 AM
Lab ID:	1703072-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Methylene chloride	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Tetrachloroethene	8.3	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Trichloroethene	30000	2500		ug/L	240426	500	04/04/2017 14:43	NP
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 21:28	JE
Vinyl chloride	BRL	2.0		ug/L	240426	1	03/31/2017 21:28	JE
Surr: 4-Bromofluorobenzene	79.4	66.1-129	%REC		240426	500	04/04/2017 14:43	NP
Surr: 4-Bromofluorobenzene	98.6	66.1-129	%REC		240426	1	03/31/2017 21:28	JE
Surr: Dibromofluoromethane	113	83.6-123	%REC		240426	500	04/04/2017 14:43	NP
Surr: Dibromofluoromethane	98.3	83.6-123	%REC		240426	1	03/31/2017 21:28	JE
Surr: Toluene-d8	104	81.8-118	%REC		240426	500	04/04/2017 14:43	NP
Surr: Toluene-d8	94.6	81.8-118	%REC		240426	1	03/31/2017 21:28	JE
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R339836	1	03/29/2017 12:16	JW
Sulfate	BRL	1.0		mg/L	R339836	1	03/29/2017 12:16	JW
GC Analysis of Gaseous Samples SOP-RSK 175								
Ethane	BRL	9.0		ug/L	240379	1	03/31/2017 11:13	EI
Ethylene	BRL	7.0		ug/L	240379	1	03/31/2017 11:13	EI
Methane	BRL	4.0		ug/L	240379	1	03/31/2017 11:13	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Rheem	Collection Date:	3/28/2017
Lab ID:	1703072-007	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,1,2-Trichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,1-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,1-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,2-Dibromoethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,2-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,2-Dichloroethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,2-Dichloropropane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,3-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
1,4-Dichlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
2-Butanone	BRL	50		ug/L	240426	1	03/31/2017 18:02	JE
2-Hexanone	BRL	10		ug/L	240426	1	03/31/2017 18:02	JE
4-Methyl-2-pentanone	BRL	10		ug/L	240426	1	03/31/2017 18:02	JE
Acetone	BRL	50		ug/L	240426	1	03/31/2017 18:02	JE
Benzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Bromodichloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Bromoform	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Bromomethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Carbon disulfide	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Carbon tetrachloride	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Chlorobenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Chloroethane	BRL	10		ug/L	240426	1	03/31/2017 18:02	JE
Chloroform	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Chloromethane	BRL	10		ug/L	240426	1	03/31/2017 18:02	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
cis-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Cyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Dibromochloromethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Dichlorodifluoromethane	BRL	10		ug/L	240426	1	03/31/2017 18:02	JE
Ethylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Freon-113	BRL	10		ug/L	240426	1	03/31/2017 18:02	JE
Isopropylbenzene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
m,p-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Methyl acetate	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Methyl tert-butyl ether	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Methylcyclohexane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Methylene chloride	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
o-Xylene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Apr-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Rheem	Collection Date:	3/28/2017
Lab ID:	1703072-007	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Tetrachloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Toluene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
trans-1,3-Dichloropropene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Trichloroethene	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Trichlorofluoromethane	BRL	5.0		ug/L	240426	1	03/31/2017 18:02	JE
Vinyl chloride	BRL	2.0		ug/L	240426	1	03/31/2017 18:02	JE
Surr: 4-Bromofluorobenzene	101	66.1-129	%REC		240426	1	03/31/2017 18:02	JE
Surr: Dibromofluoromethane	99	83.6-123	%REC		240426	1	03/31/2017 18:02	JE
Surr: Toluene-d8	99	81.8-118	%REC		240426	1	03/31/2017 18:02	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.**

AES Work Order Number: **1703072**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input checked="" type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 15.2 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

MJ 3/28/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input checked="" type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials).

AJ 3/28/17

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		AS APPLICABLE
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

I certify that I have completed sections 28-30 (dated initials).

AJ 3/28/17

Client:	Environmental Planning Specialists, Inc.	Dates Report				
Project Name:	Rheem					
Lab Order:	1703O72					

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1703O72-001A	17087-MW-1	3/28/2017 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017
1703O72-001A	17087-MW-1	3/28/2017 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	04/04/2017
1703O72-001B	17087-MW-1	3/28/2017 12:00:00PM	Groundwater	GC Analysis of Gaseous Samples		3/31/2017 9:00:00 AM	03/31/2017
1703O72-001C	17087-MW-1	3/28/2017 12:00:00PM	Groundwater	Total Organic Carbon (TOC)			04/06/2017
1703O72-001D	17087-MW-1	3/28/2017 12:00:00PM	Groundwater	ION SCAN			03/29/2017
1703O72-002A	17087-MW-5	3/28/2017 12:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017
1703O72-002A	17087-MW-5	3/28/2017 12:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	04/04/2017
1703O72-002B	17087-MW-5	3/28/2017 12:30:00PM	Groundwater	GC Analysis of Gaseous Samples		3/31/2017 9:00:00 AM	03/31/2017
1703O72-002C	17087-MW-5	3/28/2017 12:30:00PM	Groundwater	Total Organic Carbon (TOC)			04/06/2017
1703O72-002D	17087-MW-5	3/28/2017 12:30:00PM	Groundwater	ION SCAN			03/29/2017
1703O72-003A	17087-MW-9	3/28/2017 9:40:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017
1703O72-003A	17087-MW-9	3/28/2017 9:40:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	04/04/2017
1703O72-003B	17087-MW-9	3/28/2017 9:40:00AM	Groundwater	GC Analysis of Gaseous Samples		3/31/2017 9:00:00 AM	03/31/2017
1703O72-003C	17087-MW-9	3/28/2017 9:40:00AM	Groundwater	Total Organic Carbon (TOC)			04/06/2017
1703O72-003D	17087-MW-9	3/28/2017 9:40:00AM	Groundwater	ION SCAN			03/29/2017
1703O72-004A	17087-MW-48A	3/28/2017 10:17:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017
1703O72-004A	17087-MW-48A	3/28/2017 10:17:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	04/04/2017
1703O72-004B	17087-MW-48A	3/28/2017 10:17:00AM	Groundwater	GC Analysis of Gaseous Samples		3/31/2017 9:00:00 AM	03/31/2017
1703O72-004C	17087-MW-48A	3/28/2017 10:17:00AM	Groundwater	Total Organic Carbon (TOC)			04/06/2017
1703O72-004D	17087-MW-48A	3/28/2017 10:17:00AM	Groundwater	ION SCAN			03/29/2017
1703O72-005A	17087-MW-48B	3/28/2017 9:25:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017
1703O72-005A	17087-MW-48B	3/28/2017 9:25:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	04/04/2017
1703O72-005B	17087-MW-48B	3/28/2017 9:25:00AM	Groundwater	GC Analysis of Gaseous Samples		3/31/2017 9:00:00 AM	03/31/2017
1703O72-005C	17087-MW-48B	3/28/2017 9:25:00AM	Groundwater	Total Organic Carbon (TOC)			04/06/2017
1703O72-005D	17087-MW-48B	3/28/2017 9:25:00AM	Groundwater	ION SCAN			03/29/2017
1703O72-006A	17087-PZ-7	3/28/2017 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017
1703O72-006A	17087-PZ-7	3/28/2017 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	04/04/2017
1703O72-006B	17087-PZ-7	3/28/2017 11:05:00AM	Groundwater	GC Analysis of Gaseous Samples		3/31/2017 9:00:00 AM	03/31/2017
1703O72-006C	17087-PZ-7	3/28/2017 11:05:00AM	Groundwater	Total Organic Carbon (TOC)			04/07/2017

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab Order: 1703O72

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1703O72-006D	17087-PZ-7	3/28/2017 11:05:00AM	Groundwater	ION SCAN			03/29/2017
1703O72-007A	TRIP BLANK	3/28/2017 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		3/31/2017 12:21:00 PM	03/31/2017

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT
BatchID: 240379

Sample ID: MB-240379	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339814				
SampleType: MLBK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 240379	Analysis Date: 03/31/2017	Seq No: 7433204				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9.0									
Ethylene	BRL	7.0									
Methane	BRL	4.0									
Sample ID: LCS-240379	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339814				
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 240379	Analysis Date: 03/31/2017	Seq No: 7433205				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	123.1	9.0	200.0		61.6	43.9	115				
Ethylene	82.16	7.0	200.0		41.1	29.6	115				
Methane	134.1	4.0	200.0		67.0	49.2	115				
Sample ID: LCSD-240379	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339814				
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 240379	Analysis Date: 03/31/2017	Seq No: 7433206				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	116.1	9.0	200.0		58.0	43.9	115	123.1	5.92	20	
Ethylene	77.35	7.0	200.0		38.7	29.6	115	82.16	6.03	20	
Methane	125.7	4.0	200.0		62.8	49.2	115	134.1	6.45	20	
Sample ID: 1703O18-001AMS	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339814				
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 240379	Analysis Date: 03/31/2017	Seq No: 7433208				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	118.7	9.0	200.0		59.3	36.3	115				
Ethylene	77.87	7.0	200.0		38.9	27	115				
Methane	125.0	4.0	200.0	1.353	61.8	40.5	115				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: 240379**

Sample ID: 1703O18-001AMSD	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339814				
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 240379	Analysis Date: 03/31/2017	Seq No: 7433209				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	126.8	9.0	200.0		63.4	36.3	115	118.7	6.62	20	
Ethylene	83.46	7.0	200.0		41.7	27	115	77.87	6.92	20	
Methane	133.6	4.0	200.0	1.353	66.1	40.5	115	125.0	6.64	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: 240426**

Sample ID: MB-240426	Client ID:	Units: ug/L			Prep Date:	03/31/2017	Run No:	339772			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 240426			Analysis Date:	03/31/2017	Seq No:	7431940			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers: > Greater than Result value

< Less than Result value

B Analyte detected in the associated method blank

BRL Below reporting limit

E Estimated (value above quantitation range)

H Holding times for preparation or analysis exceeded

J Estimated value detected below Reporting Limit

N Analyte not NELAC certified

R RPD outside limits due to matrix

Rpt Lim Reporting Limit

S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: 240426**

Sample ID: MB-240426	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339772				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 240426	Analysis Date: 03/31/2017	Seq No: 7431940				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	49.05	0	50.00		98.1	66.1	129				
Surr: Dibromofluoromethane	48.97	0	50.00		97.9	83.6	123				
Surr: Toluene-d8	49.81	0	50.00		99.6	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: 240426**

Sample ID: LCS-240426	Client ID:				Units: ug/L	Prep Date: 03/31/2017	Run No: 339772				
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 240426	Analysis Date: 03/31/2017	Seq No: 7431938				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.44	5.0	50.00		111	68	139				
Benzene	54.97	5.0	50.00		110	74	125				
Chlorobenzene	53.93	5.0	50.00		108	75.7	123				
Toluene	55.34	5.0	50.00		111	75.9	126				
Trichloroethene	54.46	5.0	50.00		109	70.6	129				
Surr: 4-Bromofluorobenzene	50.44	0	50.00		101	66.1	129				
Surr: Dibromofluoromethane	51.42	0	50.00		103	83.6	123				
Surr: Toluene-d8	50.06	0	50.00		100	81.8	118				

Sample ID: 1703O72-001AMS	Client ID: 17087-MW-1				Units: ug/L	Prep Date: 03/31/2017	Run No: 339933				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 240426	Analysis Date: 04/04/2017	Seq No: 7436532				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	615.5	50	500.0		123	64.3	149				
Benzene	561.1	50	500.0		112	71.6	132				
Chlorobenzene	538.3	50	500.0		108	73.1	126				
Toluene	569.5	50	500.0		114	72.5	135				
Trichloroethene	1132	50	500.0	558.4	115	70.2	132				
Surr: 4-Bromofluorobenzene	491.3	0	500.0		98.3	66.1	129				
Surr: Dibromofluoromethane	507.7	0	500.0		102	83.6	123				
Surr: Toluene-d8	496.8	0	500.0		99.4	81.8	118				

Sample ID: 1703O72-001AMSD	Client ID: 17087-MW-1				Units: ug/L	Prep Date: 03/31/2017	Run No: 339933				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 240426	Analysis Date: 04/04/2017	Seq No: 7436533				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	609.8	50	500.0		122	64.3	149	615.5	0.930	30.8	
Benzene	547.5	50	500.0		110	71.6	132	561.1	2.45	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: 240426**

Sample ID: 1703O72-001AMSD	Client ID: 17087-MW-1				Units: ug/L	Prep Date: 03/31/2017	Run No: 339933				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 240426	Analysis Date: 04/04/2017	Seq No: 7436533				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	530.4	50	500.0		106	73.1	126	538.3	1.48	26.6	
Toluene	537.9	50	500.0		108	72.5	135	569.5	5.71	23.2	
Trichloroethene	1087	50	500.0	558.4	106	70.2	132	1132	4.10	27.7	
Surr: 4-Bromofluorobenzene	495.0	0	500.0		99.0	66.1	129	491.3	0	0	
Surr: Dibromofluoromethane	504.6	0	500.0		101	83.6	123	507.7	0	0	
Surr: Toluene-d8	494.2	0	500.0		98.8	81.8	118	496.8	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: R339836**

Sample ID: MB-R339836	Client ID: ION SCAN SW9056A	Units: mg/L	Prep Date:	Run No: 339836							
SampleType: MLBK	TestCode: ION SCAN SW9056A	BatchID: R339836	Analysis Date: 03/29/2017	Seq No: 7433750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									
Sample ID: LCS-R339836	Client ID: ION SCAN SW9056A	Units: mg/L	Prep Date:	Run No: 339836							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R339836	Analysis Date: 03/29/2017	Seq No: 7433749							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.873	0.25	5.000		97.5	90	110				
Sulfate	23.00	1.0	25.00		92.0	90	110				
Sample ID: 1703P94-002BMS	Client ID: ION SCAN SW9056A	Units: mg/L	Prep Date:	Run No: 339836							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R339836	Analysis Date: 03/29/2017	Seq No: 7433787							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	55.71	2.5	50.00	4.624	102	90	110				
Sulfate	269.4	10	250.0	33.44	94.4	90	110				
Sample ID: 1703P95-002BMS	Client ID: ION SCAN SW9056A	Units: mg/L	Prep Date:	Run No: 339836							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R339836	Analysis Date: 03/29/2017	Seq No: 7433795							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	59.47	2.5	50.00	8.235	102	90	110				
Sulfate	268.4	10	250.0	30.25	95.3	90	110				
Sample ID: 1703P94-002BMSD	Client ID: ION SCAN SW9056A	Units: mg/L	Prep Date:	Run No: 339836							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R339836	Analysis Date: 03/29/2017	Seq No: 7433789							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	55.78	2.5	50.00	4.624	102	90	110	55.71	0.136	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: R339836**

Sample ID: 1703P94-002BMSD	Client ID:				Units: mg/L	Prep Date:	Run No: 339836				
SampleType: MSD	TestCode: ION SCAN SW9056A				BatchID: R339836	Analysis Date: 03/29/2017	Seq No: 7433789				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	270.4	10	250.0	33.44	94.8	90	110	269.4	0.360	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheeem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: R340172**

Sample ID: MB-R340172	Client ID:				Units: mg/L	Prep Date:	Run No: 340172				
SampleType: MBLK	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340172	Analysis Date: 04/06/2017	Seq No: 7442602				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									
Sample ID: LCS-R340172	Client ID:				Units: mg/L	Prep Date:	Run No: 340172				
SampleType: LCS	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340172	Analysis Date: 04/06/2017	Seq No: 7442601				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.88	1.00	25.00		108	90	110				
Sample ID: 1703O72-005CMS	Client ID: 17087-MW-48B				Units: mg/L	Prep Date:	Run No: 340172				
SampleType: MS	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340172	Analysis Date: 04/06/2017	Seq No: 7442622				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	30.53	1.00	25.00	4.337	105	80	120				
Sample ID: 1703O72-005CMSD	Client ID: 17087-MW-48B				Units: mg/L	Prep Date:	Run No: 340172				
SampleType: MSD	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340172	Analysis Date: 04/06/2017	Seq No: 7442624				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	30.93	1.00	25.00	4.337	106	80	120	30.53	1.30	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheeem
Workorder: 1703O72

ANALYTICAL QC SUMMARY REPORT**BatchID: R340230**

Sample ID: MB-R340230	Client ID:				Units: mg/L	Prep Date:	Run No: 340230				
SampleType: MBLK	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340230	Analysis Date: 04/07/2017	Seq No: 7444357				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									
Sample ID: LCS-R340230	Client ID:				Units: mg/L	Prep Date:	Run No: 340230				
SampleType: LCS	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340230	Analysis Date: 04/07/2017	Seq No: 7444354				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	27.44	1.00	25.00		110	90	110				
Sample ID: 1703O72-006CMS	Client ID: 17087-PZ-7				Units: mg/L	Prep Date:	Run No: 340230				
SampleType: MS	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340230	Analysis Date: 04/07/2017	Seq No: 7444372				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	34.67	1.00	25.00	9.255	102	80	120				
Sample ID: 1703O72-006CMSD	Client ID: 17087-PZ-7				Units: mg/L	Prep Date:	Run No: 340230				
SampleType: MSD	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R340230	Analysis Date: 04/07/2017	Seq No: 7444377				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	34.89	1.00	25.00	9.255	103	80	120	34.67	0.633	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 11, 2017

Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway, Suite 550
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Rheem Manufacturing

Dear Justin Vickery: Order No: 1704N69

Analytical Environmental Services, Inc. received 7 samples on 4/27/2017 1:33:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Air & Emissions for Volatile Organics effective 07/01/16-06/30/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Pafford".

Chris Pafford
Project Manager



APPENDIX

Compound	CAS #	Alternate Name	TO-14A	TO-15	SOP
Acetone	67-64-1				X
Allyl chloride	107-05-1	3-Chloropropene		X	
Benzene	71-43-2		X	X	
Benzyl chloride	100-44-7		X	X	
Bromodichloromethane	75-27-4	Dichlorobromomethane			X
Bromoform	75-25-2	Tribromomethane		X	
Bromomethane	74-83-9	Methyl bromide	X	X	
1,3-Butadiene	106-99-0			X	
Carbon disulfide	75-15-0			X	
Carbon tetrachloride	56-23-5		X	X	
Chlorobenzene	108-90-7		X	X	
Chloroethane	75-00-3	Ethyl chloride	X	X	
Chloroform	67-66-3		X	X	
Chloromethane	74-87-3	Methyl chloride	X	X	
Cyclohexane	110-82-7				X
Dibromochloromethane	124-48-1	Chlorodibromomethane			X
1,2-Dibromoethane	106-93-4	EDB/Ethylene dibromide	X	X	
1,2-Dichlorobenzene	95-50-1	<i>o</i> -Dichlorobenzene	X	X	
1,3-Dichlorobenzene	541-73-1	<i>m</i> -Dichlorobenzene	X	X	
1,4-Dichlorobenzene	106-46-7	<i>p</i> -Dichlorobenzene	X	X	
Dichlorodifluoromethane	75-71-8	Freon-12	X		
1,1-Dichloroethane	75-34-3		X	X	
1,2-Dichloroethane	107-06-2		X	X	
1,1-Dichloroethene	75-35-4	1,1-Dichloroethylene	X	X	
<i>cis</i> -1,2-Dichloroethene	156-59-2	<i>cis</i> -1,2-Dichloroethylene	X	X	
<i>trans</i> -1,2-Dichloroethene	156-60-5	<i>trans</i> -1,2-Dichloroethylene		X	
1,2-Dichloropropane	78-87-5		X	X	
<i>cis</i> -1,3-Dichloropropene	10061-01-5		X	X	
<i>trans</i> -1,3-Dichloropropene	10061-02-6		X	X	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	Freon-114	X		
1,4-Dioxane	123-91-1	1,4-Diethylene oxide		X	
Ethyl acetate	141-78-6	Acetic acid, ethyl ester			X
Ethylbenzene	100-41-4		X	X	
4-Ethyltoluene	622-96-8				X
n-Heptane	142-82-5	Heptane			X
Hexachlorobutadiene	87-68-3	Hexachloro-1,3-butadiene	X	X	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

n-Hexane	110-54-3	Hexane		X	
Compound	CAS #	Alternate Name	TO-14A	TO-15	SOP
2-Hexanone	591-78-6	Methyl butyl ketone			X
Methylene chloride	75-09-2	Dichloromethane	X	X	
Methyl tert-butyl ether	1634-04-4	MTBE		X	
Methyl ethyl ketone	78-93-3	MEK/2-Butanone		X	
Methyl isobutyl ketone	108-10-1	4-Methyl-2-pentanone		X	
2-Propanol	67-63-0	Isopropanol/Isopropyl alcohol			X
Propene	115-07-1	Propylene			X
Styrene	100-42-5			X	
1,1,2,2-Tetrachloroethane	79-34-5		X	X	
Tetrachloroethene	127-18-4	Tetrachloroethylene	X	X	
Tetrahydrofuran	109-99-9				X
Toluene	108-88-3			X	
1,2,4-Trichlorobenzene	120-82-1			X	
1,1,1-Trichloroethane	74-55-6			X	
1,1,2-Trichloroethane	79-00-5			X	
Trichloroethene	79-01-6	Trichloroethylene		X	
Trichlorofluoromethane	75-69-4	Freon-11	X		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	Freon-113	X		
1,2,4-Trimethylbenzene	95-63-6		X	X	
1,3,5-Trimethylbenzene	108-67-8		X	X	
2,2,4-Trimethylpentane	540-84-1	Isooctane		X	
Vinyl acetate	108-05-04			X	
Vinyl bromide	593-60-2	Bromoethene		X	
Vinyl chloride	75-01-4	Chloroethene	X	X	
Xylenes, Total	1330-20-7		X	X	
m/p-Xylene	179601-23-1		X	X	
o-Xylene	95-47-6		X	X	



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

VAPOR/AIR CHAIN OF CUSTODY

Work Order #: 1704N609

Page 1 of 1

Company: EPS Inc.		Address: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338		Bottle Order #: 81461				Turnaround Time (Circle One):				<input checked="" type="radio"/> Standard	3 Day Rush		
												<input type="radio"/> 2 Day Rush	Other		
Phone: 404 315 9113		Fax:		Sample Matrix*	Canister Serial #	Flow Controller ID	Canister Pressure In Field ("Hg) Start	Canister Pressure In Field ("Hg) Stop	ANALYSIS REQUESTED				Remarks		
Sampled by: Alex Testoff & Jim Fineis		Signature:													
#	Sample ID	Sample Start							Sample Finish						
		Date	Time (24hr)	Date	Time (24 hr)										
1	17117-OFFSG-1	4-27-17	0750	4-27-17	0756	SV	4015	01102	30	0	X				
2	17117-OFFSG-2		0835		0843		3990	01126	29	0	X				
3	17117-OFFSG-3		0820		1033		3997	01111	>30	4.5	X				
4	17117-OFFSG-4		0912		0919		3989	01136	28	6	X				
5	17117-OFFSG-5		0936		0944		3964	01119	29	0	X				
6	17117-OFFSG-6		1004		1018		3970	01082	28	0	X				
7	17117-OFFSG-DVP	4-27-17	1200	4-27-17	1200	SV	3966	01141	30	0	X				
8															
9															
10															
SPECIAL INSTRUCTIONS/COMMENTS:		RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION					
If specialized list is required, list analytes here:		1:		4-27-17 1335		1:		4-27-17 133PM		PROJECT NAME: Rheem Manufacturing					
		2:				2:				PROJECT #: _____					
		3:				3:				SITE ADDRESS: Milledgeville, GA					
										SEND REPORT TO: jvickery@envplanning.com & atestoff@envplanning.com					
SHIPMENT METHOD										INVOICE TO: (IF DIFFERENT FROM ABOVE)					
OUT / /		VIA:								PO#:					
IN / /		VIA:								STATE PROGRAM (if any): _____ E-mail? Y / N Fax? Y / N					
		CLIENT FedEx UPS MAIL COURIER								QUOTE #: _____ DATA PACKAGE: I II III IV					
		GREYHOUND OTHER _____													

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC, AES WILL PROCEED AS STANDARD TAT.

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

Samples are disposed of 30 days after collection unless prior arrangements have been made.

*SAMPLE MATRIX: IA = Indoor Air AA = Ambient Air SS = Subslab SV = Soil Vapor O = Other (specify)

AES, Inc., assumes no liability with respect to the collection and shipment of these samples.



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

VAPOR/AIR FIELD TEST DATA SHEET

Work Order #: 1704N69

Page 1 of 1

Company: EPS Inc.		Address: 1050 Crown Pointe Plaza Ste. 550 Atlanta, GA 30338		Project Name: Rheem Manufacturing						Project Number:						
				Site Address: Milledgeville, GA												
Phone: 404 315 9113		Fax:		SAMPLING INFORMATION												
Sampled by: Alex Testaff &		Signature: Alex Testaff		Sample Start						Sample Stop						
#	Sample ID Jim Fineis	Canister Serial #	Flow Controller ID#	Canister Cert. ID#	Date	Time (24hr)	Canister Pressure in Field ("Hg)	Flow Control Readout (mL/min)	Temperature		Date	Time (24hr)	Canister Pressure in Field ("Hg)	Flow Control Readout (mL/min)	Temperature	
									Interior (°F)	Ambient (°F)					Interior (°F)	Ambient (°F)
1	17117-OffSG-1	4015	01102	240623	4-27-17	0750	30	N/A	—	75	4-27-17	0756	0	N/A	—	75
2	17117-OffSG-2	3990	01126	240624		0835	29		—	75		0843	0		—	75
3	17117-OffSG-3	3997	01111	240623		0820	>30		—	75		1033	4.5		—	75
4	17117-OffSG-4	3989	01136	240624		0912	28		—	75		0919	0		—	75
5	17117-OffSG-5	3964	01119	240624		0936	29		—	75		0944	0		—	75
6	17117-OffSG-6	3970	01082	240623		1004	28		—	75		1018	0		—	75
7	17117-OffSG-DUP	3966	01126	240624	4-27-17	1200	30	N/A	—	75	4-27-17	1200	0	N/A	—	75
8																
9																
10																
Date Shipped Out From Lab: 4-26-17				Field Notes:												
Date Received Back To Lab: 4-27-17																
Weather Conditions																
Ambient Temp Avg: 75 °F																
Ambient Temp High/Low:																
Indoor Air Temp Avg:																
Barometric Pressure: 29.8 in Hg																
Wind Speed/Direction: (avg) 2.5 mph SSW																
Other:																

Client: Environmental Planning Specialists, Inc.
Project: Rheem Manufacturing
Lab ID: 1704N69

Case Narrative

Sample Receiving Nonconformance:

Sample 1704N69-008 was received but not listed on the Chain of Custody. Per Alex Testoff via email 04-27-17 the cannister was not used.

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-1						
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 7:56:00 AM						
Lab ID:	1704N69-001	Matrix:	Air						
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst	
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)						
1,1,1-Trichloroethane	BRL	5.5		ug/m3	241980	2	05/02/2017 13:07	MD	
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m3	241980	2	05/02/2017 13:07	MD	
1,1,2-Trichloroethane	BRL	5.5		ug/m3	241980	2	05/02/2017 13:07	MD	
1,1-Dichloroethane	BRL	4.0		ug/m3	241980	2	05/02/2017 13:07	MD	
1,1-Dichloroethene	BRL	4.0		ug/m3	241980	2	05/02/2017 13:07	MD	
1,2,4-Trichlorobenzene	BRL	7.4		ug/m3	241980	2	05/02/2017 13:07	MD	
1,2,4-Trimethylbenzene	BRL	4.9		ug/m3	241980	2	05/02/2017 13:07	MD	
1,2-Dibromoethane	BRL	7.7		ug/m3	241980	2	05/02/2017 13:07	MD	
1,2-Dichlorobenzene	BRL	6.0		ug/m3	241980	2	05/02/2017 13:07	MD	
1,2-Dichloroethane	BRL	4.0		ug/m3	241980	2	05/02/2017 13:07	MD	
1,2-Dichloropropane	BRL	4.6		ug/m3	241980	2	05/02/2017 13:07	MD	
1,3,5-Trimethylbenzene	BRL	4.9		ug/m3	241980	2	05/02/2017 13:07	MD	
1,3-Dichlorobenzene	BRL	6.0		ug/m3	241980	2	05/02/2017 13:07	MD	
1,4-Dichlorobenzene	BRL	6.0		ug/m3	241980	2	05/02/2017 13:07	MD	
2-Butanone	BRL	2.9		ug/m3	241980	2	05/02/2017 13:07	MD	
2-Hexanone	BRL	4.1		ug/m3	241980	2	05/02/2017 13:07	MD	
4-Ethyltoluene	BRL	4.9		ug/m3	241980	2	05/02/2017 13:07	MD	
4-Methyl-2-pentanone	BRL	4.1		ug/m3	241980	2	05/02/2017 13:07	MD	
Benzene	BRL	3.2		ug/m3	241980	2	05/02/2017 13:07	MD	
Bromodichloromethane	BRL	6.7		ug/m3	241980	2	05/02/2017 13:07	MD	
Bromoform	BRL	10		ug/m3	241980	2	05/02/2017 13:07	MD	
Bromomethane	BRL	3.9		ug/m3	241980	2	05/02/2017 13:07	MD	
Carbon disulfide	BRL	3.1		ug/m3	241980	2	05/02/2017 13:07	MD	
Carbon tetrachloride	BRL	6.3		ug/m3	241980	2	05/02/2017 13:07	MD	
Chlorobenzene	BRL	4.6		ug/m3	241980	2	05/02/2017 13:07	MD	
Chloroethane	BRL	2.6		ug/m3	241980	2	05/02/2017 13:07	MD	
Chloroform	BRL	4.9		ug/m3	241980	2	05/02/2017 13:07	MD	
Chloromethane	BRL	2.1		ug/m3	241980	2	05/02/2017 13:07	MD	
cis-1,2-Dichloroethene	BRL	4.0		ug/m3	241980	2	05/02/2017 13:07	MD	
cis-1,3-Dichloropropene	BRL	4.5		ug/m3	241980	2	05/02/2017 13:07	MD	
Dibromochloromethane	BRL	8.5		ug/m3	241980	2	05/02/2017 13:07	MD	
Dichlorodifluoromethane	BRL	4.9		ug/m3	241980	2	05/02/2017 13:07	MD	
Ethylbenzene	BRL	4.3		ug/m3	241980	2	05/02/2017 13:07	MD	
Freon-113	BRL	7.7		ug/m3	241980	2	05/02/2017 13:07	MD	
Freon-114	BRL	7.0		ug/m3	241980	2	05/02/2017 13:07	MD	
Hexachlorobutadiene	BRL	11		ug/m3	241980	2	05/02/2017 13:07	MD	
m,p-Xylene	BRL	8.7		ug/m3	241980	2	05/02/2017 13:07	MD	
Methylene chloride	BRL	3.5		ug/m3	241980	2	05/02/2017 13:07	MD	
o-Xylene	BRL	4.3		ug/m3	241980	2	05/02/2017 13:07	MD	
Styrene	BRL	4.3		ug/m3	241980	2	05/02/2017 13:07	MD	
Tetrachloroethene	BRL	6.8		ug/m3	241980	2	05/02/2017 13:07	MD	

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-1
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 7:56:00 AM
Lab ID:	1704N69-001	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	BRL	3.8		ug/m ³	241980	2	05/02/2017 13:07	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 13:07	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 13:07	MD
Trichloroethene	BRL	5.4		ug/m ³	241980	2	05/02/2017 13:07	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 13:07	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 13:07	MD
Xylenes, Total	BRL	13		ug/m ³	241980	2	05/02/2017 13:07	MD
Surr: 4-Bromofluorobenzene	95.8	70-130		%REC	241980	2	05/02/2017 13:07	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

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> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-2
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 8:43:00 AM
Lab ID:	1704N69-002	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)					
1,1,1-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 14:45	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m ³	241980	2	05/02/2017 14:45	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 14:45	MD
1,1-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 14:45	MD
1,1-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 14:45	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m ³	241980	2	05/02/2017 14:45	MD
1,2,4-Trimethylbenzene		120	4.9	ug/m ³	241980	2	05/02/2017 14:45	MD
1,2-Dibromoethane	BRL	7.7		ug/m ³	241980	2	05/02/2017 14:45	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 14:45	MD
1,2-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 14:45	MD
1,2-Dichloropropane	BRL	4.6		ug/m ³	241980	2	05/02/2017 14:45	MD
1,3,5-Trimethylbenzene		42	4.9	ug/m ³	241980	2	05/02/2017 14:45	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 14:45	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 14:45	MD
2-Butanone		45	2.9	ug/m ³	241980	2	05/02/2017 14:45	MD
2-Hexanone		5.9	4.1	ug/m ³	241980	2	05/02/2017 14:45	MD
4-Ethyltoluene	BRL	4.9		ug/m ³	241980	2	05/02/2017 14:45	MD
4-Methyl-2-pentanone		210	4.1	ug/m ³	241980	2	05/02/2017 14:45	MD
Benzene	BRL	3.2		ug/m ³	241980	2	05/02/2017 14:45	MD
Bromodichloromethane	BRL	6.7		ug/m ³	241980	2	05/02/2017 14:45	MD
Bromoform	BRL	10		ug/m ³	241980	2	05/02/2017 14:45	MD
Bromomethane	BRL	3.9		ug/m ³	241980	2	05/02/2017 14:45	MD
Carbon disulfide	BRL	3.1		ug/m ³	241980	2	05/02/2017 14:45	MD
Carbon tetrachloride	BRL	6.3		ug/m ³	241980	2	05/02/2017 14:45	MD
Chlorobenzene	BRL	4.6		ug/m ³	241980	2	05/02/2017 14:45	MD
Chloroethane	BRL	2.6		ug/m ³	241980	2	05/02/2017 14:45	MD
Chloroform	BRL	4.9		ug/m ³	241980	2	05/02/2017 14:45	MD
Chloromethane	BRL	2.1		ug/m ³	241980	2	05/02/2017 14:45	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 14:45	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 14:45	MD
Dibromochloromethane	BRL	8.5		ug/m ³	241980	2	05/02/2017 14:45	MD
Dichlorodifluoromethane	BRL	4.9		ug/m ³	241980	2	05/02/2017 14:45	MD
Ethylbenzene		6.9	4.3	ug/m ³	241980	2	05/02/2017 14:45	MD
Freon-113	BRL	7.7		ug/m ³	241980	2	05/02/2017 14:45	MD
Freon-114	BRL	7.0		ug/m ³	241980	2	05/02/2017 14:45	MD
Hexachlorobutadiene	BRL	11		ug/m ³	241980	2	05/02/2017 14:45	MD
m,p-Xylene		33	8.7	ug/m ³	241980	2	05/02/2017 14:45	MD
Methylene chloride	BRL	3.5		ug/m ³	241980	2	05/02/2017 14:45	MD
o-Xylene		17	4.3	ug/m ³	241980	2	05/02/2017 14:45	MD
Styrene	BRL	4.3		ug/m ³	241980	2	05/02/2017 14:45	MD
Tetrachloroethene	BRL	6.8		ug/m ³	241980	2	05/02/2017 14:45	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-2
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 8:43:00 AM
Lab ID:	1704N69-002	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	16	3.8		ug/m ³	241980	2	05/02/2017 14:45	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 14:45	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 14:45	MD
Trichloroethene	BRL	5.4		ug/m ³	241980	2	05/02/2017 14:45	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 14:45	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 14:45	MD
Xylenes, Total	50	13		ug/m ³	241980	2	05/02/2017 14:45	MD
Surr: 4-Bromofluorobenzene	102	70-130		%REC	241980	2	05/02/2017 14:45	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-3
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 10:33:00 AM
Lab ID:	1704N69-003	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)					
1,1,1-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 15:35	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m ³	241980	2	05/02/2017 15:35	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 15:35	MD
1,1-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 15:35	MD
1,1-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 15:35	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m ³	241980	2	05/02/2017 15:35	MD
1,2,4-Trimethylbenzene	150	4.9		ug/m ³	241980	2	05/02/2017 15:35	MD
1,2-Dibromoethane	BRL	7.7		ug/m ³	241980	2	05/02/2017 15:35	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 15:35	MD
1,2-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 15:35	MD
1,2-Dichloropropane	BRL	4.6		ug/m ³	241980	2	05/02/2017 15:35	MD
1,3,5-Trimethylbenzene	62	4.9		ug/m ³	241980	2	05/02/2017 15:35	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 15:35	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 15:35	MD
2-Butanone	150	2.9		ug/m ³	241980	2	05/02/2017 15:35	MD
2-Hexanone		14	4.1	ug/m ³	241980	2	05/02/2017 15:35	MD
4-Ethyltoluene	BRL	4.9		ug/m ³	241980	2	05/02/2017 15:35	MD
4-Methyl-2-pentanone	250	4.1		ug/m ³	241980	2	05/02/2017 15:35	MD
Benzene		5.6	3.2	ug/m ³	241980	2	05/02/2017 15:35	MD
Bromodichloromethane	BRL	6.7		ug/m ³	241980	2	05/02/2017 15:35	MD
Bromoform	BRL	10		ug/m ³	241980	2	05/02/2017 15:35	MD
Bromomethane	BRL	3.9		ug/m ³	241980	2	05/02/2017 15:35	MD
Carbon disulfide		5.1	3.1	ug/m ³	241980	2	05/02/2017 15:35	MD
Carbon tetrachloride	BRL	6.3		ug/m ³	241980	2	05/02/2017 15:35	MD
Chlorobenzene	BRL	4.6		ug/m ³	241980	2	05/02/2017 15:35	MD
Chloroethane	BRL	2.6		ug/m ³	241980	2	05/02/2017 15:35	MD
Chloroform	BRL	4.9		ug/m ³	241980	2	05/02/2017 15:35	MD
Chloromethane	BRL	2.1		ug/m ³	241980	2	05/02/2017 15:35	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 15:35	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 15:35	MD
Dibromochloromethane	BRL	8.5		ug/m ³	241980	2	05/02/2017 15:35	MD
Dichlorodifluoromethane	BRL	4.9		ug/m ³	241980	2	05/02/2017 15:35	MD
Ethylbenzene		13	4.3	ug/m ³	241980	2	05/02/2017 15:35	MD
Freon-113	BRL	7.7		ug/m ³	241980	2	05/02/2017 15:35	MD
Freon-114	BRL	7.0		ug/m ³	241980	2	05/02/2017 15:35	MD
Hexachlorobutadiene	BRL	11		ug/m ³	241980	2	05/02/2017 15:35	MD
m,p-Xylene		59	8.7	ug/m ³	241980	2	05/02/2017 15:35	MD
Methylene chloride	BRL	3.5		ug/m ³	241980	2	05/02/2017 15:35	MD
o-Xylene		21	4.3	ug/m ³	241980	2	05/02/2017 15:35	MD
Styrene	BRL	4.3		ug/m ³	241980	2	05/02/2017 15:35	MD
Tetrachloroethene	BRL	6.8		ug/m ³	241980	2	05/02/2017 15:35	MD

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-3
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 10:33:00 AM
Lab ID:	1704N69-003	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	31	3.8		ug/m ³	241980	2	05/02/2017 15:35	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 15:35	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 15:35	MD
Trichloroethene	12	5.4		ug/m ³	241980	2	05/02/2017 15:35	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 15:35	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 15:35	MD
Xylenes, Total	80	13		ug/m ³	241980	2	05/02/2017 15:35	MD
Surr: 4-Bromofluorobenzene	102	70-130		%REC	241980	2	05/02/2017 15:35	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-4
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 9:19:00 AM
Lab ID:	1704N69-004	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)					
1,1,1-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 17:12	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m ³	241980	2	05/02/2017 17:12	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 17:12	MD
1,1-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 17:12	MD
1,1-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 17:12	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m ³	241980	2	05/02/2017 17:12	MD
1,2,4-Trimethylbenzene		76	4.9	ug/m ³	241980	2	05/02/2017 17:12	MD
1,2-Dibromoethane	BRL	7.7		ug/m ³	241980	2	05/02/2017 17:12	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 17:12	MD
1,2-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 17:12	MD
1,2-Dichloropropane	BRL	4.6		ug/m ³	241980	2	05/02/2017 17:12	MD
1,3,5-Trimethylbenzene		29	4.9	ug/m ³	241980	2	05/02/2017 17:12	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 17:12	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 17:12	MD
2-Butanone		14	2.9	ug/m ³	241980	2	05/02/2017 17:12	MD
2-Hexanone	BRL	4.1		ug/m ³	241980	2	05/02/2017 17:12	MD
4-Ethyltoluene	BRL	4.9		ug/m ³	241980	2	05/02/2017 17:12	MD
4-Methyl-2-pentanone		53	4.1	ug/m ³	241980	2	05/02/2017 17:12	MD
Benzene	BRL	3.2		ug/m ³	241980	2	05/02/2017 17:12	MD
Bromodichloromethane	BRL	6.7		ug/m ³	241980	2	05/02/2017 17:12	MD
Bromoform	BRL	10		ug/m ³	241980	2	05/02/2017 17:12	MD
Bromomethane	BRL	3.9		ug/m ³	241980	2	05/02/2017 17:12	MD
Carbon disulfide	BRL	3.1		ug/m ³	241980	2	05/02/2017 17:12	MD
Carbon tetrachloride	BRL	6.3		ug/m ³	241980	2	05/02/2017 17:12	MD
Chlorobenzene	BRL	4.6		ug/m ³	241980	2	05/02/2017 17:12	MD
Chloroethane	BRL	2.6		ug/m ³	241980	2	05/02/2017 17:12	MD
Chloroform	BRL	4.9		ug/m ³	241980	2	05/02/2017 17:12	MD
Chloromethane	BRL	2.1		ug/m ³	241980	2	05/02/2017 17:12	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 17:12	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 17:12	MD
Dibromochloromethane	BRL	8.5		ug/m ³	241980	2	05/02/2017 17:12	MD
Dichlorodifluoromethane	BRL	4.9		ug/m ³	241980	2	05/02/2017 17:12	MD
Ethylbenzene	BRL	4.3		ug/m ³	241980	2	05/02/2017 17:12	MD
Freon-113	BRL	7.7		ug/m ³	241980	2	05/02/2017 17:12	MD
Freon-114	BRL	7.0		ug/m ³	241980	2	05/02/2017 17:12	MD
Hexachlorobutadiene	BRL	11		ug/m ³	241980	2	05/02/2017 17:12	MD
m,p-Xylene		17	8.7	ug/m ³	241980	2	05/02/2017 17:12	MD
Methylene chloride	BRL	3.5		ug/m ³	241980	2	05/02/2017 17:12	MD
o-Xylene		7.6	4.3	ug/m ³	241980	2	05/02/2017 17:12	MD
Styrene	BRL	4.3		ug/m ³	241980	2	05/02/2017 17:12	MD
Tetrachloroethene	BRL	6.8		ug/m ³	241980	2	05/02/2017 17:12	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-4
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 9:19:00 AM
Lab ID:	1704N69-004	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	12	3.8		ug/m ³	241980	2	05/02/2017 17:12	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 17:12	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 17:12	MD
Trichloroethene	BRL	5.4		ug/m ³	241980	2	05/02/2017 17:12	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 17:12	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 17:12	MD
Xylenes, Total	24	13		ug/m ³	241980	2	05/02/2017 17:12	MD
Surr: 4-Bromofluorobenzene	99.2	70-130		%REC	241980	2	05/02/2017 17:12	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-5
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 9:44:00 AM
Lab ID:	1704N69-005	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)					
1,1,1-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 18:01	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m ³	241980	2	05/02/2017 18:01	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 18:01	MD
1,1-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:01	MD
1,1-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:01	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m ³	241980	2	05/02/2017 18:01	MD
1,2,4-Trimethylbenzene		16	4.9	ug/m ³	241980	2	05/02/2017 18:01	MD
1,2-Dibromoethane	BRL	7.7		ug/m ³	241980	2	05/02/2017 18:01	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 18:01	MD
1,2-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:01	MD
1,2-Dichloropropane	BRL	4.6		ug/m ³	241980	2	05/02/2017 18:01	MD
1,3,5-Trimethylbenzene		6.9	4.9	ug/m ³	241980	2	05/02/2017 18:01	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 18:01	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 18:01	MD
2-Butanone	BRL	2.9		ug/m ³	241980	2	05/02/2017 18:01	MD
2-Hexanone	BRL	4.1		ug/m ³	241980	2	05/02/2017 18:01	MD
4-Ethyltoluene	BRL	4.9		ug/m ³	241980	2	05/02/2017 18:01	MD
4-Methyl-2-pentanone	BRL	4.1		ug/m ³	241980	2	05/02/2017 18:01	MD
Benzene	BRL	3.2		ug/m ³	241980	2	05/02/2017 18:01	MD
Bromodichloromethane	BRL	6.7		ug/m ³	241980	2	05/02/2017 18:01	MD
Bromoform	BRL	10		ug/m ³	241980	2	05/02/2017 18:01	MD
Bromomethane	BRL	3.9		ug/m ³	241980	2	05/02/2017 18:01	MD
Carbon disulfide	BRL	3.1		ug/m ³	241980	2	05/02/2017 18:01	MD
Carbon tetrachloride	BRL	6.3		ug/m ³	241980	2	05/02/2017 18:01	MD
Chlorobenzene	BRL	4.6		ug/m ³	241980	2	05/02/2017 18:01	MD
Chloroethane	BRL	2.6		ug/m ³	241980	2	05/02/2017 18:01	MD
Chloroform	BRL	4.9		ug/m ³	241980	2	05/02/2017 18:01	MD
Chloromethane	BRL	2.1		ug/m ³	241980	2	05/02/2017 18:01	MD
cis-1,2-Dichloroethene		4.2	4.0	ug/m ³	241980	2	05/02/2017 18:01	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 18:01	MD
Dibromochloromethane	BRL	8.5		ug/m ³	241980	2	05/02/2017 18:01	MD
Dichlorodifluoromethane	BRL	4.9		ug/m ³	241980	2	05/02/2017 18:01	MD
Ethylbenzene	BRL	4.3		ug/m ³	241980	2	05/02/2017 18:01	MD
Freon-113	BRL	7.7		ug/m ³	241980	2	05/02/2017 18:01	MD
Freon-114	BRL	7.0		ug/m ³	241980	2	05/02/2017 18:01	MD
Hexachlorobutadiene	BRL	11		ug/m ³	241980	2	05/02/2017 18:01	MD
m,p-Xylene	BRL	8.7		ug/m ³	241980	2	05/02/2017 18:01	MD
Methylene chloride	BRL	3.5		ug/m ³	241980	2	05/02/2017 18:01	MD
o-Xylene	BRL	4.3		ug/m ³	241980	2	05/02/2017 18:01	MD
Styrene	BRL	4.3		ug/m ³	241980	2	05/02/2017 18:01	MD
Tetrachloroethene	BRL	6.8		ug/m ³	241980	2	05/02/2017 18:01	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-5
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 9:44:00 AM
Lab ID:	1704N69-005	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	4.9	3.8		ug/m ³	241980	2	05/02/2017 18:01	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:01	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 18:01	MD
Trichloroethene	BRL	5.4		ug/m ³	241980	2	05/02/2017 18:01	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 18:01	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 18:01	MD
Xylenes, Total	BRL	13		ug/m ³	241980	2	05/02/2017 18:01	MD
Surr: 4-Bromofluorobenzene	98.8	70-130		%REC	241980	2	05/02/2017 18:01	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-6
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 10:18:00 AM
Lab ID:	1704N69-006	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)					
1,1,1-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 18:50	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m ³	241980	2	05/02/2017 18:50	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 18:50	MD
1,1-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:50	MD
1,1-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:50	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m ³	241980	2	05/02/2017 18:50	MD
1,2,4-Trimethylbenzene		80	4.9	ug/m ³	241980	2	05/02/2017 18:50	MD
1,2-Dibromoethane	BRL	7.7		ug/m ³	241980	2	05/02/2017 18:50	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 18:50	MD
1,2-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:50	MD
1,2-Dichloropropane	BRL	4.6		ug/m ³	241980	2	05/02/2017 18:50	MD
1,3,5-Trimethylbenzene		28	4.9	ug/m ³	241980	2	05/02/2017 18:50	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 18:50	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 18:50	MD
2-Butanone	BRL	2.9		ug/m ³	241980	2	05/02/2017 18:50	MD
2-Hexanone	BRL	4.1		ug/m ³	241980	2	05/02/2017 18:50	MD
4-Ethyltoluene	BRL	4.9		ug/m ³	241980	2	05/02/2017 18:50	MD
4-Methyl-2-pentanone		58	4.1	ug/m ³	241980	2	05/02/2017 18:50	MD
Benzene	BRL	3.2		ug/m ³	241980	2	05/02/2017 18:50	MD
Bromodichloromethane	BRL	6.7		ug/m ³	241980	2	05/02/2017 18:50	MD
Bromoform	BRL	10		ug/m ³	241980	2	05/02/2017 18:50	MD
Bromomethane	BRL	3.9		ug/m ³	241980	2	05/02/2017 18:50	MD
Carbon disulfide	BRL	3.1		ug/m ³	241980	2	05/02/2017 18:50	MD
Carbon tetrachloride	BRL	6.3		ug/m ³	241980	2	05/02/2017 18:50	MD
Chlorobenzene	BRL	4.6		ug/m ³	241980	2	05/02/2017 18:50	MD
Chloroethane	BRL	2.6		ug/m ³	241980	2	05/02/2017 18:50	MD
Chloroform	BRL	4.9		ug/m ³	241980	2	05/02/2017 18:50	MD
Chloromethane	BRL	2.1		ug/m ³	241980	2	05/02/2017 18:50	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:50	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 18:50	MD
Dibromochloromethane	BRL	8.5		ug/m ³	241980	2	05/02/2017 18:50	MD
Dichlorodifluoromethane	BRL	4.9		ug/m ³	241980	2	05/02/2017 18:50	MD
Ethylbenzene	BRL	4.3		ug/m ³	241980	2	05/02/2017 18:50	MD
Freon-113	BRL	7.7		ug/m ³	241980	2	05/02/2017 18:50	MD
Freon-114	BRL	7.0		ug/m ³	241980	2	05/02/2017 18:50	MD
Hexachlorobutadiene	BRL	11		ug/m ³	241980	2	05/02/2017 18:50	MD
m,p-Xylene		16	8.7	ug/m ³	241980	2	05/02/2017 18:50	MD
Methylene chloride	BRL	3.5		ug/m ³	241980	2	05/02/2017 18:50	MD
o-Xylene		7.4	4.3	ug/m ³	241980	2	05/02/2017 18:50	MD
Styrene	BRL	4.3		ug/m ³	241980	2	05/02/2017 18:50	MD
Tetrachloroethene	BRL	6.8		ug/m ³	241980	2	05/02/2017 18:50	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-6
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 10:18:00 AM
Lab ID:	1704N69-006	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	7.0	3.8		ug/m ³	241980	2	05/02/2017 18:50	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 18:50	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 18:50	MD
Trichloroethene	BRL	5.4		ug/m ³	241980	2	05/02/2017 18:50	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 18:50	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 18:50	MD
Xylenes, Total	23	13		ug/m ³	241980	2	05/02/2017 18:50	MD
Surr: 4-Bromofluorobenzene	101	70-130		%REC	241980	2	05/02/2017 18:50	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-DUP
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 12:00:00 PM
Lab ID:	1704N69-007	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS		TO-15	(TO-15)					
1,1,1-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 19:40	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m ³	241980	2	05/02/2017 19:40	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m ³	241980	2	05/02/2017 19:40	MD
1,1-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 19:40	MD
1,1-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 19:40	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m ³	241980	2	05/02/2017 19:40	MD
1,2,4-Trimethylbenzene		59	4.9	ug/m ³	241980	2	05/02/2017 19:40	MD
1,2-Dibromoethane	BRL	7.7		ug/m ³	241980	2	05/02/2017 19:40	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 19:40	MD
1,2-Dichloroethane	BRL	4.0		ug/m ³	241980	2	05/02/2017 19:40	MD
1,2-Dichloropropane	BRL	4.6		ug/m ³	241980	2	05/02/2017 19:40	MD
1,3,5-Trimethylbenzene		21	4.9	ug/m ³	241980	2	05/02/2017 19:40	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 19:40	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m ³	241980	2	05/02/2017 19:40	MD
2-Butanone		57	2.9	ug/m ³	241980	2	05/02/2017 19:40	MD
2-Hexanone		6.1	4.1	ug/m ³	241980	2	05/02/2017 19:40	MD
4-Ethyltoluene	BRL	4.9		ug/m ³	241980	2	05/02/2017 19:40	MD
4-Methyl-2-pentanone		180	4.1	ug/m ³	241980	2	05/02/2017 19:40	MD
Benzene	BRL	3.2		ug/m ³	241980	2	05/02/2017 19:40	MD
Bromodichloromethane	BRL	6.7		ug/m ³	241980	2	05/02/2017 19:40	MD
Bromoform	BRL	10		ug/m ³	241980	2	05/02/2017 19:40	MD
Bromomethane	BRL	3.9		ug/m ³	241980	2	05/02/2017 19:40	MD
Carbon disulfide	BRL	3.1		ug/m ³	241980	2	05/02/2017 19:40	MD
Carbon tetrachloride	BRL	6.3		ug/m ³	241980	2	05/02/2017 19:40	MD
Chlorobenzene	BRL	4.6		ug/m ³	241980	2	05/02/2017 19:40	MD
Chloroethane	BRL	2.6		ug/m ³	241980	2	05/02/2017 19:40	MD
Chloroform	BRL	4.9		ug/m ³	241980	2	05/02/2017 19:40	MD
Chloromethane	BRL	2.1		ug/m ³	241980	2	05/02/2017 19:40	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 19:40	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 19:40	MD
Dibromochloromethane	BRL	8.5		ug/m ³	241980	2	05/02/2017 19:40	MD
Dichlorodifluoromethane	BRL	4.9		ug/m ³	241980	2	05/02/2017 19:40	MD
Ethylbenzene	BRL	4.3		ug/m ³	241980	2	05/02/2017 19:40	MD
Freon-113	BRL	7.7		ug/m ³	241980	2	05/02/2017 19:40	MD
Freon-114	BRL	7.0		ug/m ³	241980	2	05/02/2017 19:40	MD
Hexachlorobutadiene	BRL	11		ug/m ³	241980	2	05/02/2017 19:40	MD
m,p-Xylene		16	8.7	ug/m ³	241980	2	05/02/2017 19:40	MD
Methylene chloride	BRL	3.5		ug/m ³	241980	2	05/02/2017 19:40	MD
o-Xylene		8.5	4.3	ug/m ³	241980	2	05/02/2017 19:40	MD
Styrene	BRL	4.3		ug/m ³	241980	2	05/02/2017 19:40	MD
Tetrachloroethene	BRL	6.8		ug/m ³	241980	2	05/02/2017 19:40	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17117-OFFSG-DUP
Project Name:	Rheem Manufacturing	Collection Date:	4/27/2017 12:00:00 PM
Lab ID:	1704N69-007	Matrix:	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15 (TO-15)								
Toluene	7.9	3.8		ug/m ³	241980	2	05/02/2017 19:40	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m ³	241980	2	05/02/2017 19:40	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m ³	241980	2	05/02/2017 19:40	MD
Trichloroethene	BRL	5.4		ug/m ³	241980	2	05/02/2017 19:40	MD
Trichlorofluoromethane	BRL	5.6		ug/m ³	241980	2	05/02/2017 19:40	MD
Vinyl chloride	BRL	2.6		ug/m ³	241980	2	05/02/2017 19:40	MD
Xylenes, Total	25	13		ug/m ³	241980	2	05/02/2017 19:40	MD
Surr: 4-Bromofluorobenzene	99	70-130		%REC	241980	2	05/02/2017 19:40	MD

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample Receipt Checklist for Air Canisters

Client Env. Planning

Work Order Number 1704N69

Checklist completed by J Signature

4/27/17

Date

Carrier name: FedEx UPS Courier Client US Mail Other _____

Shipping container in good condition? Yes No Not Present

Custody seals intact on shipping container? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Field data sheets present? Yes No

Sample containers intact? Yes No

If no, explain: _____

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

All canisters received per Bottle Order issued? Yes No

See Case Narrative for resolution of the Non-Conformance.

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1704N69

ANALYTICAL QC SUMMARY REPORT**BatchID: 241980**

Sample ID: MB-241980	Client ID:				Units: ug/m3	Prep Date: 05/02/2017	Run No: 342070				
SampleType: MBLK	TestCode: Toxic Organic Compounds in Air by GCMS TO-15				BatchID: 241980	Analysis Date: 05/02/2017	Seq No: 7493049				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.1									
1,1,2,2-Tetrachloroethane	BRL	1.4									
1,1,2-Trichloroethane	BRL	1.1									
1,1-Dichloroethane	BRL	0.81									
1,1-Dichloroethene	BRL	0.79									
1,2,4-Trichlorobenzene	BRL	1.5									
1,2,4-Trimethylbenzene	BRL	0.98									
1,2-Dibromoethane	BRL	1.5									
1,2-Dichlorobenzene	BRL	1.2									
1,2-Dichloroethane	BRL	0.81									
1,2-Dichloropropane	BRL	0.92									
1,3,5-Trimethylbenzene	BRL	0.98									
1,3-Dichlorobenzene	BRL	1.2									
1,4-Dichlorobenzene	BRL	1.2									
2-Butanone	BRL	0.59									
2-Hexanone	BRL	0.82									
4-Ethyltoluene	BRL	0.98									
4-Methyl-2-pentanone	BRL	0.82									
Benzene	BRL	0.64									
Bromodichloromethane	BRL	1.3									
Bromoform	BRL	2.1									
Bromomethane	BRL	0.78									
Carbon disulfide	BRL	0.62									
Carbon tetrachloride	BRL	1.3									
Chlorobenzene	BRL	0.92									
Chloroethane	BRL	0.53									
Chloroform	BRL	0.98									

Qualifiers: > Greater than Result value

< Less than Result value

B Analyte detected in the associated method blank

BRL Below reporting limit

E Estimated (value above quantitation range)

H Holding times for preparation or analysis exceeded

J Estimated value detected below Reporting Limit

N Analyte not NELAC certified

R RPD outside limits due to matrix

Rpt Lim Reporting Limit

S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1704N69

ANALYTICAL QC SUMMARY REPORT**BatchID: 241980**

Sample ID: MB-241980	Client ID:				Units: ug/m3	Prep Date: 05/02/2017	Run No: 342070				
SampleType: MBLK	TestCode: Toxic Organic Compounds in Air by GCMS TO-15				BatchID: 241980	Analysis Date: 05/02/2017	Seq No: 7493049				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	0.41									
cis-1,2-Dichloroethene	BRL	0.79									
cis-1,3-Dichloropropene	BRL	0.91									
Dibromochloromethane	BRL	1.7									
Dichlorodifluoromethane	BRL	0.99									
Ethylbenzene	BRL	0.87									
Freon-113	BRL	1.5									
Freon-114	BRL	1.4									
Hexachlorobutadiene	BRL	2.1									
m,p-Xylene	BRL	1.7									
Methylene chloride	BRL	0.69									
o-Xylene	BRL	0.87									
Styrene	BRL	0.85									
Tetrachloroethene	BRL	1.4									
Toluene	BRL	0.75									
trans-1,2-Dichloroethene	BRL	0.79									
trans-1,3-Dichloropropene	BRL	0.91									
Trichloroethene	BRL	1.1									
Trichlorofluoromethane	BRL	1.1									
Vinyl chloride	BRL	0.51									
Xylenes, Total	BRL	2.6									
Surr: 4-Bromofluorobenzene	3.780	0	4.000		94.5	70	130				

Sample ID: LCS-241980	Client ID:				Units: ug/m3	Prep Date: 05/02/2017	Run No: 342070				
SampleType: LCS	TestCode: Toxic Organic Compounds in Air by GCMS TO-15				BatchID: 241980	Analysis Date: 05/02/2017	Seq No: 7493107				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	10.80	1.1	10.91		99.0	70	130				
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1704N69

ANALYTICAL QC SUMMARY REPORT**BatchID: 241980**

Sample ID: LCS-241980	Client ID:	Units: ug/m3			Prep Date:	05/02/2017	Run No: 342070				
SampleType: LCS	TestCode: Toxic Organic Compounds in Air by GCMS TO-15	BatchID: 241980			Analysis Date:	05/02/2017	Seq No: 7493107				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2,2-Tetrachloroethane	13.94	1.4	13.73		102	70	130				
1,1,2-Trichloroethane	10.53	1.1	10.91		96.5	70	130				
1,1-Dichloroethane	8.176	0.81	8.095		101	70	130				
1,1-Dichloroethene	7.969	0.79	7.930		100	70	130				
1,2,4-Trichlorobenzene	14.62	1.5	14.85		98.5	70	130				
1,2,4-Trimethylbenzene	9.931	0.98	9.832	0.5899	95.0	70	130				
1,2-Dibromoethane	15.14	1.5	15.37		98.5	70	130				
1,2-Dichlorobenzene	12.33	1.2	12.02		102	70	130				
1,2-Dichloroethane	7.973	0.81	8.095		98.5	70	130				
1,2-Dichloropropane	9.012	0.92	9.243		97.5	70	130				
1,3,5-Trimethylbenzene	9.980	0.98	9.832	0.1475	100	70	130				
1,3-Dichlorobenzene	12.93	1.2	12.02		108	70	130				
1,4-Dichlorobenzene	12.45	1.2	12.02		104	70	130				
2-Butanone	5.751	0.59	5.899		97.5	70	130				
2-Hexanone	8.401	0.82	8.196		102	70	130				
4-Ethyltoluene	9.980	0.98	9.832		102	70	130				
4-Methyl-2-pentanone	8.196	0.82	8.196		100	70	130				
Benzene	6.166	0.64	6.389		96.5	70	130				
Bromodichloromethane	13.20	1.3	13.40		98.5	70	130				
Bromoform	20.78	2.1	20.68		100	70	130				
Bromomethane	7.727	0.78	7.766		99.5	70	130				
Carbon disulfide	6.384	0.62	6.228		102	70	130				
Carbon tetrachloride	12.46	1.3	12.58		99.0	70	130				
Chlorobenzene	9.119	0.92	9.211		99.0	70	130				
Chloroethane	5.357	0.53	5.278		102	70	130				
Chloroform	9.620	0.98	9.767		98.5	70	130				
Chloromethane	4.213	0.41	4.130		102	70	130				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1704N69

ANALYTICAL QC SUMMARY REPORT**BatchID: 241980**

Sample ID: LCS-241980	Client ID:	Units: ug/m3			Prep Date:	05/02/2017	Run No: 342070				
SampleType: LCS	TestCode: Toxic Organic Compounds in Air by GCMS TO-15	BatchID: 241980			Analysis Date:	05/02/2017	Seq No: 7493107				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	7.850	0.79	7.930		99.0	70	130				
cis-1,3-Dichloropropene	8.717	0.91	9.080		96.0	70	130				
Dibromochloromethane	17.21	1.7	17.04		101	70	130				
Dichlorodifluoromethane	10.09	0.99	9.890		102	70	130				
Ethylbenzene	8.644	0.87	8.687		99.5	70	130				
Freon-113	15.48	1.5	15.33		101	70	130				
Freon-114	14.26	1.4	13.98		102	70	130				
Hexachlorobutadiene	20.91	2.1	21.33		98.0	70	130				
m,p-Xylene	17.55	1.7	17.37		101	70	130				
Methylene chloride	6.705	0.69	6.948		96.5	70	130				
o-Xylene	8.904	0.87	8.687		102	70	130				
Styrene	8.473	0.85	8.515		99.5	70	130				
Tetrachloroethene	13.43	1.4	13.56		99.0	70	130				
Toluene	7.160	0.75	7.537		95.0	70	130				
trans-1,2-Dichloroethene	8.009	0.79	7.930		101	70	130				
trans-1,3-Dichloropropene	8.535	0.91	9.080		94.0	70	130				
Trichloroethene	10.59	1.1	10.75		98.5	70	130				
Trichlorofluoromethane	11.58	1.1	11.24		103	70	130				
Vinyl chloride	5.240	0.51	5.112		102	70	130				
Xylenes, Total	26.45	2.6	26.06	0.1737	101	70	130				
Surr: 4-Bromofluorobenzene	4.030	0	4.000		101	70	130				

Sample ID: 1704N69-007ADUP	Client ID: 17117-OFFSG-DUP	Units: ug/m3	Prep Date:	05/02/2017	Run No: 342070						
SampleType: DUP	TestCode: Toxic Organic Compounds in Air by GCMS TO-15	BatchID: 241980	Analysis Date:	05/02/2017	Seq No: 7493152						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.5						0	0	25	
1,1,2,2-Tetrachloroethane	BRL	6.9						0	0	25	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1704N69

ANALYTICAL QC SUMMARY REPORT**BatchID: 241980**

Sample ID: 1704N69-007ADUP	Client ID: 17117-OFFSG-DUP	Units: ug/m3	Prep Date: 05/02/2017	Run No: 342070							
SampleType: DUP	TestCode: Toxic Organic Compounds in Air by GCMS TO-15	BatchID: 241980	Analysis Date: 05/02/2017	Seq No: 7493152							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	BRL	5.5						0	0	25	
1,1-Dichloroethane	BRL	4.0						0	0	25	
1,1-Dichloroethene	BRL	4.0						0	0	25	
1,2,4-Trichlorobenzene	BRL	7.4						0	0	25	
1,2,4-Trimethylbenzene	60.71	4.9						58.50	3.71	25	
1,2-Dibromoethane	BRL	7.7						0	0	25	
1,2-Dichlorobenzene	BRL	6.0						0	0	25	
1,2-Dichloroethane	BRL	4.0						0	0	25	
1,2-Dichloropropane	BRL	4.6						0	0	25	
1,3,5-Trimethylbenzene	21.88	4.9						21.14	3.43	25	
1,3-Dichlorobenzene	BRL	6.0						0	0	25	
1,4-Dichlorobenzene	BRL	6.0						0	0	25	
2-Butanone	57.36	2.9						56.63	1.29	25	
2-Hexanone	6.147	4.1						6.147	0	25	
4-Ethyltoluene	BRL	4.9						0	0	25	
4-Methyl-2-pentanone	180.9	4.1						182.2	0.677	25	
Benzene	BRL	3.2						0.7987	0	25	
Bromodichloromethane	BRL	6.7						0	0	25	
Bromoform	BRL	10						0	0	25	
Bromomethane	BRL	3.9						0	0	25	
Carbon disulfide	BRL	3.1						0	0	25	
Carbon tetrachloride	BRL	6.3						0	0	25	
Chlorobenzene	BRL	4.6						0	0	25	
Chloroethane	BRL	2.6						0	0	25	
Chloroform	BRL	4.9						0	0	25	
Chloromethane	BRL	2.1						0	0	25	
cis-1,2-Dichloroethene	BRL	4.0						0	0	25	

Qualifiers: > Greater than Result value

< Less than Result value

B Analyte detected in the associated method blank

BRL Below reporting limit

E Estimated (value above quantitation range)

H Holding times for preparation or analysis exceeded

J Estimated value detected below Reporting Limit

N Analyte not NELAC certified

R RPD outside limits due to matrix

Rpt Lim Reporting Limit

S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1704N69

ANALYTICAL QC SUMMARY REPORT**BatchID: 241980**

Sample ID: 1704N69-007ADUP	Client ID: 17117-OFFSG-DUP	Units: ug/m3	Prep Date: 05/02/2017	Run No: 342070							
SampleType: DUP	TestCode: Toxic Organic Compounds in Air by GCMS TO-15	BatchID: 241980	Analysis Date: 05/02/2017	Seq No: 7493152							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	BRL	4.5						0	0	25	
Dibromochloromethane	BRL	8.5						0	0	25	
Dichlorodifluoromethane	BRL	4.9						0	0	25	
Ethylbenzene	BRL	4.3						3.258	0	25	
Freon-113	BRL	7.7						0	0	25	
Freon-114	BRL	7.0						0	0	25	
Hexachlorobutadiene	BRL	11						0	0	25	
m,p-Xylene	16.51	8.7						16.07	2.67	25	
Methylene chloride	BRL	3.5						2.779	0	25	
o-Xylene	9.121	4.3						8.470	7.41	25	
Styrene	BRL	4.3						0	0	25	
Tetrachloroethene	BRL	6.8						0	0	25	
Toluene	8.102	3.8						7.914	2.35	25	
trans-1,2-Dichloroethene	BRL	4.0						0	0	25	
trans-1,3-Dichloropropene	BRL	4.5						0	0	25	
Trichloroethene	BRL	5.4						2.150	0	25	
Trichlorofluoromethane	BRL	5.6						1.124	0	25	
Vinyl chloride	BRL	2.6						0	0	25	
Xylenes, Total	25.63	13						24.54	4.33	25	
Surr: 4-Bromofluorobenzene	20.30	0	20.00		102	70	130	19.80	0	0	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 09, 2017

Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Rheem

Dear Justin Vickery:

Order No: 1704P11

Analytical Environmental Services, Inc. received 7 samples on 4/28/2017 3:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Chris Pafford
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1704P11

Date: 4-28-17 Page 1 of 1

COMPANY: EPS		ADDRESS: 1050 Crown Pointe Pkwy Ste 550 Atlanta, GA 30338		ANALYSIS REQUESTED							Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers		
				VOCs	TOC	Ethene	Ethane	Methane						
PHONE: 404-315-9113	FAX:	SIGNATURE: A. Testoff, J. Terry		PRESERVATION (See codes)							REMARKS			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	H ₂ O	S ₂	H ₂	H ₂ O ₂	Cl ₂	Br ₂		
DATE	TIME													
1 17118-MW-1	4-28-17 1325	G		GW	X X X X X								5	
2 17118-MW-5	1330	I											5	
3 17118-MW-9	1200	I											5	
4 17118-MW-48A	1010	I											5	
5 17118-MW-48B	1005	I											5	
6 17118-PZ-7	1205	I		GW	X X X X X								5	
7 Trip Blank	4-28-17 -	G		W	X								2	
8														
9														
10														
11														
12														
13														
14														
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION							RECEIPT			
1: Joe Terry	4-28-17 1550	2: Dawn Huij	4-28-17 1550	PROJECT NAME: Rheem							Total # of Containers 32			
2:		3:		PROJECT #: _____							Turnaround Time Request			
3:		3:		SITE ADDRESS: Milledgeville, GA							Standard 5 Business Days			
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER_							SEND REPORT TO: jvickey@envplanning.com & atestoff@envplanning.com			
											INVOICE TO: (IF DIFFERENT FROM ABOVE)			
											QUOTE #: _____ PO#: _____			
SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.														

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Environmental Planning Specialists, Inc.
Project: Rheem
Lab ID: 1704P11

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1704P11-002A, -004A, & -005A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-1					
Project Name:	Rheem	Collection Date:	4/28/2017 1:25:00 PM					
Lab ID:	1704P11-001	Matrix:	Groundwater					
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R342429	1	05/05/2017 13:15	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,2-Dibromoethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,2-Dichloropropane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
2-Butanone	BRL	50		ug/L	241929	1	05/04/2017 01:22	NP
2-Hexanone	BRL	10		ug/L	241929	1	05/04/2017 01:22	NP
4-Methyl-2-pentanone	BRL	10		ug/L	241929	1	05/04/2017 01:22	NP
Acetone	BRL	50		ug/L	241929	1	05/04/2017 01:22	NP
Benzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Bromodichloromethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Bromoform	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Bromomethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Carbon disulfide	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Chlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Chloroethane	BRL	10		ug/L	241929	1	05/04/2017 01:22	NP
Chloroform	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Chloromethane	BRL	10		ug/L	241929	1	05/04/2017 01:22	NP
cis-1,2-Dichloroethene		8.5	5.0	ug/L	241929	1	05/04/2017 01:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Cyclohexane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Dibromochloromethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Dichlorodifluoromethane	BRL	10		ug/L	241929	1	05/04/2017 01:22	NP
Ethylbenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Freon-113	BRL	10		ug/L	241929	1	05/04/2017 01:22	NP
Isopropylbenzene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
m,p-Xylene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Methyl acetate	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-1
Project Name:	Rheem	Collection Date:	4/28/2017 1:25:00 PM
Lab ID:	1704P11-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Methylene chloride	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
o-Xylene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Styrene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Tetrachloroethene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Toluene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Trichloroethene	440	50		ug/L	241929	10	05/04/2017 01:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	241929	1	05/04/2017 01:22	NP
Vinyl chloride	BRL	2.0		ug/L	241929	1	05/04/2017 01:22	NP
Surr: 4-Bromofluorobenzene	81.3	66.1-129	%REC	241929	10	05/04/2017 01:48	NP	
Surr: 4-Bromofluorobenzene	83.4	66.1-129	%REC	241929	1	05/04/2017 01:22	NP	
Surr: Dibromofluoromethane	101	83.6-123	%REC	241929	10	05/04/2017 01:48	NP	
Surr: Dibromofluoromethane	103	83.6-123	%REC	241929	1	05/04/2017 01:22	NP	
Surr: Toluene-d8	99.3	81.8-118	%REC	241929	1	05/04/2017 01:22	NP	
Surr: Toluene-d8	98.5	81.8-118	%REC	241929	10	05/04/2017 01:48	NP	
GC Analysis of Gaseous Samples SOP-RSK 175								
(RSK175)								
Ethane	BRL	9.0		ug/L	241917	1	05/02/2017 16:01	EI
Ethylene	BRL	7.0		ug/L	241917	1	05/02/2017 16:01	EI
Methane	BRL	4.0		ug/L	241917	1	05/02/2017 16:01	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-5
Project Name:	Rheem	Collection Date:	4/28/2017 1:30:00 PM
Lab ID:	1704P11-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	9.63	1.00		mg/L	R342429	1	05/05/2017 14:32	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,1,2,2-Tetrachloroethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,1,2-Trichloroethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,1-Dichloroethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,1-Dichloroethene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,2,4-Trichlorobenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,2-Dibromo-3-chloropropane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,2-Dibromoethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,2-Dichlorobenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,2-Dichloroethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,2-Dichloropropane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,3-Dichlorobenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
1,4-Dichlorobenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
2-Butanone	BRL	50000		ug/L	241929	1000	05/04/2017 12:36	NP
2-Hexanone	BRL	10000		ug/L	241929	1000	05/04/2017 12:36	NP
4-Methyl-2-pentanone	BRL	10000		ug/L	241929	1000	05/04/2017 12:36	NP
Acetone	BRL	50000		ug/L	241929	1000	05/04/2017 12:36	NP
Benzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Bromodichloromethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Bromoform	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Bromomethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Carbon disulfide	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Carbon tetrachloride	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Chlorobenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Chloroethane	BRL	10000		ug/L	241929	1000	05/04/2017 12:36	NP
Chloroform	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Chloromethane	BRL	10000		ug/L	241929	1000	05/04/2017 12:36	NP
cis-1,2-Dichloroethene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
cis-1,3-Dichloropropene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Cyclohexane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Dibromochloromethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Dichlorodifluoromethane	BRL	10000		ug/L	241929	1000	05/04/2017 12:36	NP
Ethylbenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Freon-113	BRL	10000		ug/L	241929	1000	05/04/2017 12:36	NP
Isopropylbenzene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
m,p-Xylene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Methyl acetate	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Methyl tert-butyl ether	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-5
Project Name:	Rheem	Collection Date:	4/28/2017 1:30:00 PM
Lab ID:	1704P11-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Methylene chloride	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
o-Xylene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Styrene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Tetrachloroethene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Toluene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
trans-1,2-Dichloroethene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
trans-1,3-Dichloropropene	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Trichloroethene	190000	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Trichlorofluoromethane	BRL	5000		ug/L	241929	1000	05/04/2017 12:36	NP
Vinyl chloride	BRL	2000		ug/L	241929	1000	05/04/2017 12:36	NP
Surr: 4-Bromofluorobenzene	78.7	66.1-129	%REC		241929	1000	05/04/2017 12:36	NP
Surr: Dibromofluoromethane	108	83.6-123	%REC		241929	1000	05/04/2017 12:36	NP
Surr: Toluene-d8	99.8	81.8-118	%REC		241929	1000	05/04/2017 12:36	NP
GC Analysis of Gaseous Samples SOP-RSK 175								
(RSK175)								
Ethane	BRL	9.0		ug/L	241917	1	05/02/2017 16:19	EI
Ethylene	BRL	7.0		ug/L	241917	1	05/02/2017 16:19	EI
Methane	BRL	4.0		ug/L	241917	1	05/02/2017 16:19	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-9
Project Name:	Rheem	Collection Date:	4/28/2017 12:00:00 PM
Lab ID:	1704P11-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	6.74	1.00		mg/L	R342429	1	05/05/2017 14:58	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,1-Dichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,1-Dichloroethene		26	5.0	ug/L	241929	1	05/04/2017 02:13	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,2-Dibromoethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,2-Dichloroethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,2-Dichloropropane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
2-Butanone	BRL	50		ug/L	241929	1	05/04/2017 02:13	NP
2-Hexanone	BRL	10		ug/L	241929	1	05/04/2017 02:13	NP
4-Methyl-2-pentanone	BRL	10		ug/L	241929	1	05/04/2017 02:13	NP
Acetone	BRL	50		ug/L	241929	1	05/04/2017 02:13	NP
Benzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Bromodichloromethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Bromoform	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Bromomethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Carbon disulfide	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Carbon tetrachloride	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Chlorobenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Chloroethane	BRL	10		ug/L	241929	1	05/04/2017 02:13	NP
Chloroform	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Chloromethane	BRL	10		ug/L	241929	1	05/04/2017 02:13	NP
cis-1,2-Dichloroethene		3400	100	ug/L	241929	20	05/04/2017 00:57	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Cyclohexane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Dibromochloromethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Dichlorodifluoromethane	BRL	10		ug/L	241929	1	05/04/2017 02:13	NP
Ethylbenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Freon-113	BRL	10		ug/L	241929	1	05/04/2017 02:13	NP
Isopropylbenzene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
m,p-Xylene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Methyl acetate	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-9
Project Name:	Rheem	Collection Date:	4/28/2017 12:00:00 PM
Lab ID:	1704P11-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Methylene chloride	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
o-Xylene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Styrene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Tetrachloroethene	6.6	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Toluene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
trans-1,2-Dichloroethene	14	5.0		ug/L	241929	1	05/04/2017 02:13	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Trichloroethene	2200	100		ug/L	241929	20	05/04/2017 00:57	NP
Trichlorofluoromethane	BRL	5.0		ug/L	241929	1	05/04/2017 02:13	NP
Vinyl chloride	2.1	2.0		ug/L	241929	1	05/04/2017 02:13	NP
Surr: 4-Bromofluorobenzene	82.6	66.1-129	%REC		241929	1	05/04/2017 02:13	NP
Surr: 4-Bromofluorobenzene	83.6	66.1-129	%REC		241929	20	05/04/2017 00:57	NP
Surr: Dibromofluoromethane	106	83.6-123	%REC		241929	1	05/04/2017 02:13	NP
Surr: Dibromofluoromethane	99.7	83.6-123	%REC		241929	20	05/04/2017 00:57	NP
Surr: Toluene-d8	98.1	81.8-118	%REC		241929	1	05/04/2017 02:13	NP
Surr: Toluene-d8	96.9	81.8-118	%REC		241929	20	05/04/2017 00:57	NP
GC Analysis of Gaseous Samples SOP-RSK 175								
(RSK175)								
Ethane	BRL	9.0		ug/L	241917	1	05/02/2017 16:23	EI
Ethylene	BRL	7.0		ug/L	241917	1	05/02/2017 16:23	EI
Methane	BRL	4.0		ug/L	241917	1	05/02/2017 16:23	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

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> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-48A
Project Name:	Rheem	Collection Date:	4/28/2017 10:10:00 AM
Lab ID:	1704P11-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.89	1.00		mg/L	R342429	1	05/05/2017 15:25	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,1,2-Trichloroethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,1-Dichloroethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,1-Dichloroethene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,2,4-Trichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,2-Dibromoethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,2-Dichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,2-Dichloroethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,2-Dichloropropane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,3-Dichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
1,4-Dichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
2-Butanone	BRL	2500		ug/L	241929	50	05/04/2017 14:46	NP
2-Hexanone	BRL	500		ug/L	241929	50	05/04/2017 14:46	NP
4-Methyl-2-pentanone	BRL	500		ug/L	241929	50	05/04/2017 14:46	NP
Acetone	BRL	2500		ug/L	241929	50	05/04/2017 14:46	NP
Benzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Bromodichloromethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Bromoform	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Bromomethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Carbon disulfide	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Carbon tetrachloride	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Chlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Chloroethane	BRL	500		ug/L	241929	50	05/04/2017 14:46	NP
Chloroform	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Chloromethane	BRL	500		ug/L	241929	50	05/04/2017 14:46	NP
cis-1,2-Dichloroethene	BRL	390		ug/L	241929	50	05/04/2017 14:46	NP
cis-1,3-Dichloropropene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Cyclohexane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Dibromochloromethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Dichlorodifluoromethane	BRL	500		ug/L	241929	50	05/04/2017 14:46	NP
Ethylbenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Freon-113	BRL	500		ug/L	241929	50	05/04/2017 14:46	NP
Isopropylbenzene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
m,p-Xylene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Methyl acetate	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Methyl tert-butyl ether	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-48A
Project Name:	Rheem	Collection Date:	4/28/2017 10:10:00 AM
Lab ID:	1704P11-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Methylene chloride	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
o-Xylene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Styrene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Tetrachloroethene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Toluene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
trans-1,2-Dichloroethene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
trans-1,3-Dichloropropene	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Trichloroethene	18000	2500		ug/L	241929	500	05/04/2017 13:02	NP
Trichlorofluoromethane	BRL	250		ug/L	241929	50	05/04/2017 14:46	NP
Vinyl chloride	BRL	100		ug/L	241929	50	05/04/2017 14:46	NP
Surr: 4-Bromofluorobenzene	77	66.1-129	%REC		241929	50	05/04/2017 14:46	NP
Surr: 4-Bromofluorobenzene	77.7	66.1-129	%REC		241929	500	05/04/2017 13:02	NP
Surr: Dibromofluoromethane	104	83.6-123	%REC		241929	50	05/04/2017 14:46	NP
Surr: Dibromofluoromethane	110	83.6-123	%REC		241929	500	05/04/2017 13:02	NP
Surr: Toluene-d8	99	81.8-118	%REC		241929	500	05/04/2017 13:02	NP
Surr: Toluene-d8	99.7	81.8-118	%REC		241929	50	05/04/2017 14:46	NP
GC Analysis of Gaseous Samples SOP-RSK 175								
(RSK175)								
Ethane	13	9.0		ug/L	241917	1	05/02/2017 16:31	EI
Ethylene	19	7.0		ug/L	241917	1	05/02/2017 16:31	EI
Methane	BRL	4.0		ug/L	241917	1	05/02/2017 16:31	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-48B
Project Name:	Rheem	Collection Date:	4/28/2017 10:05:00 AM
Lab ID:	1704P11-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.95	1.00		mg/L	R342429	1	05/05/2017 15:56	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,1,2-Trichloroethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,1-Dichloroethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,1-Dichloroethene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,2,4-Trichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,2-Dibromoethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,2-Dichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,2-Dichloroethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,2-Dichloropropane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,3-Dichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
1,4-Dichlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
2-Butanone	BRL	2500		ug/L	241929	50	05/04/2017 15:11	NP
2-Hexanone	BRL	500		ug/L	241929	50	05/04/2017 15:11	NP
4-Methyl-2-pentanone	BRL	500		ug/L	241929	50	05/04/2017 15:11	NP
Acetone	BRL	2500		ug/L	241929	50	05/04/2017 15:11	NP
Benzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Bromodichloromethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Bromoform	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Bromomethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Carbon disulfide	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Carbon tetrachloride	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Chlorobenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Chloroethane	BRL	500		ug/L	241929	50	05/04/2017 15:11	NP
Chloroform	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Chloromethane	BRL	500		ug/L	241929	50	05/04/2017 15:11	NP
cis-1,2-Dichloroethene	BRL	670		ug/L	241929	50	05/04/2017 15:11	NP
cis-1,3-Dichloropropene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Cyclohexane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Dibromochloromethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Dichlorodifluoromethane	BRL	500		ug/L	241929	50	05/04/2017 15:11	NP
Ethylbenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Freon-113	BRL	500		ug/L	241929	50	05/04/2017 15:11	NP
Isopropylbenzene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
m,p-Xylene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Methyl acetate	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Methyl tert-butyl ether	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

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> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-MW-48B
Project Name:	Rheem	Collection Date:	4/28/2017 10:05:00 AM
Lab ID:	1704P11-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Methylene chloride	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
o-Xylene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Styrene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Tetrachloroethene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Toluene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
trans-1,2-Dichloroethene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
trans-1,3-Dichloropropene	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Trichloroethene	34000	2500		ug/L	241929	500	05/04/2017 13:28	NP
Trichlorofluoromethane	BRL	250		ug/L	241929	50	05/04/2017 15:11	NP
Vinyl chloride	BRL	100		ug/L	241929	50	05/04/2017 15:11	NP
Surr: 4-Bromofluorobenzene	76.8	66.1-129	%REC		241929	50	05/04/2017 15:11	NP
Surr: 4-Bromofluorobenzene	77.1	66.1-129	%REC		241929	500	05/04/2017 13:28	NP
Surr: Dibromofluoromethane	110	83.6-123	%REC		241929	50	05/04/2017 15:11	NP
Surr: Dibromofluoromethane	115	83.6-123	%REC		241929	500	05/04/2017 13:28	NP
Surr: Toluene-d8	98.2	81.8-118	%REC		241929	500	05/04/2017 13:28	NP
Surr: Toluene-d8	98.4	81.8-118	%REC		241929	50	05/04/2017 15:11	NP
GC Analysis of Gaseous Samples SOP-RSK 175								
(RSK175)								
Ethane	BRL	9.0		ug/L	241917	1	05/02/2017 16:35	EI
Ethylene	BRL	7.0		ug/L	241917	1	05/02/2017 16:35	EI
Methane	BRL	4.0		ug/L	241917	1	05/02/2017 16:35	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-PZ-7
Project Name:	Rheem	Collection Date:	4/28/2017 12:05:00 PM
Lab ID:	1704P11-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	10.5	1.00		mg/L	R342429	1	05/05/2017 16:22	JW
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,1,2-Trichloroethane		12		ug/L	241929	1	05/05/2017 11:30	NP
1,1-Dichloroethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,1-Dichloroethene		30		ug/L	241929	1	05/05/2017 11:30	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,2-Dibromoethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,2-Dichloroethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,2-Dichloropropane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
2-Butanone	BRL	50		ug/L	241929	1	05/05/2017 11:30	NP
2-Hexanone	BRL	10		ug/L	241929	1	05/05/2017 11:30	NP
4-Methyl-2-pentanone	BRL	10		ug/L	241929	1	05/05/2017 11:30	NP
Acetone	BRL	50		ug/L	241929	1	05/05/2017 11:30	NP
Benzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Bromodichloromethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Bromoform	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Bromomethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Carbon disulfide	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Carbon tetrachloride	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Chlorobenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Chloroethane	BRL	10		ug/L	241929	1	05/05/2017 11:30	NP
Chloroform	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Chloromethane	BRL	10		ug/L	241929	1	05/05/2017 11:30	NP
cis-1,2-Dichloroethene		9500	2500	ug/L	241929	500	05/04/2017 13:54	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Cyclohexane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Dibromochloromethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Dichlorodifluoromethane		74	10	ug/L	241929	1	05/05/2017 11:30	NP
Ethylbenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Freon-113	BRL	10		ug/L	241929	1	05/05/2017 11:30	NP
Isopropylbenzene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
m,p-Xylene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Methyl acetate	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	17118-PZ-7
Project Name:	Rheem	Collection Date:	4/28/2017 12:05:00 PM
Lab ID:	1704P11-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
Methylcyclohexane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Methylene chloride	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
o-Xylene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Styrene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Tetrachloroethene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Toluene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
trans-1,2-Dichloroethene	73	5.0		ug/L	241929	1	05/05/2017 11:30	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Trichloroethene	8500	2500		ug/L	241929	500	05/04/2017 13:54	NP
Trichlorofluoromethane	BRL	5.0		ug/L	241929	1	05/05/2017 11:30	NP
Vinyl chloride	5.5	2.0		ug/L	241929	1	05/05/2017 11:30	NP
Surr: 4-Bromofluorobenzene	74.9	66.1-129	%REC	241929	500	05/04/2017 13:54	NP	
Surr: 4-Bromofluorobenzene	73.4	66.1-129	%REC	241929	1	05/05/2017 11:30	NP	
Surr: Dibromofluoromethane	117	83.6-123	%REC	241929	500	05/04/2017 13:54	NP	
Surr: Dibromofluoromethane	111	83.6-123	%REC	241929	1	05/05/2017 11:30	NP	
Surr: Toluene-d8	100	81.8-118	%REC	241929	500	05/04/2017 13:54	NP	
Surr: Toluene-d8	99.8	81.8-118	%REC	241929	1	05/05/2017 11:30	NP	
GC Analysis of Gaseous Samples SOP-RSK 175								
(RSK175)								
Ethane	BRL	9.0		ug/L	241917	1	05/02/2017 16:41	EI
Ethylene	BRL	7.0		ug/L	241917	1	05/02/2017 16:41	EI
Methane	4.3	4.0		ug/L	241917	1	05/02/2017 16:41	EI

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	Trip Blank
Project Name:	Rheem	Collection Date:	4/28/2017
Lab ID:	1704P11-007	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B							(SW5030B)	
1,1,1-Trichloroethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,2-Dibromoethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
2-Butanone	BRL	50		ug/L	241929	1	05/03/2017 16:25	NP
2-Hexanone	BRL	10		ug/L	241929	1	05/03/2017 16:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	241929	1	05/03/2017 16:25	NP
Acetone	BRL	50		ug/L	241929	1	05/03/2017 16:25	NP
Benzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Bromodichloromethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Bromoform	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Bromomethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Carbon disulfide	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Chlorobenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Chloroethane	BRL	10		ug/L	241929	1	05/03/2017 16:25	NP
Chloroform	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Chloromethane	BRL	10		ug/L	241929	1	05/03/2017 16:25	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Cyclohexane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Dibromochloromethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Dichlorodifluoromethane	BRL	10		ug/L	241929	1	05/03/2017 16:25	NP
Ethylbenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Freon-113	BRL	10		ug/L	241929	1	05/03/2017 16:25	NP
Isopropylbenzene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
m,p-Xylene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Methyl acetate	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Methylcyclohexane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Methylene chloride	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
o-Xylene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP

Qualifiers: * Value exceeds maximum contaminant level

E Estimated (value above quantitation range)

BRL Below reporting limit

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

Narr See case narrative

N Analyte not NELAC certified

NC Not confirmed

B Analyte detected in the associated method blank

< Less than Result value

> Greater than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-May-17

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	Trip Blank
Project Name:	Rheem	Collection Date:	4/28/2017
Lab ID:	1704P11-007	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B								
							(SW5030B)	
Styrene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Tetrachloroethene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Toluene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Trichloroethene	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	241929	1	05/03/2017 16:25	NP
Vinyl chloride	BRL	2.0		ug/L	241929	1	05/03/2017 16:25	NP
Surr: 4-Bromofluorobenzene	76.1	66.1-129	%REC		241929	1	05/03/2017 16:25	NP
Surr: Dibromofluoromethane	118	83.6-123	%REC		241929	1	05/03/2017 16:25	NP
Surr: Toluene-d8	100	81.8-118	%REC		241929	1	05/03/2017 16:25	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.**

AES Work Order Number: **1704P11**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.1 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C

14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

MJ 4/28/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials).

MJ 5/1/17

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		AS APPLICABLE
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		AS APPLICABLE
30. Was pH adjusted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		

I certify that I have completed sections 28-30 (dated initials).

MJ 5/1/17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT
BatchID: 241917

Sample ID: MB-241917	Client ID:				Units: ug/L	Prep Date:	05/02/2017	Run No: 342044
SampleType: MLBK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 241917	Analysis Date:	05/02/2017	Seq No: 7492404
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val
Ethane	BRL	9.0						
Ethylene	BRL	7.0						
Methane	BRL	4.0						
Sample ID: LCS-241917	Client ID:				Units: ug/L	Prep Date:	05/02/2017	Run No: 342044
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 241917	Analysis Date:	05/02/2017	Seq No: 7492405
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val
Ethane	142.2	9.0	200.0		71.1	43.9	115	
Ethylene	94.51	7.0	200.0		47.3	29.6	115	
Methane	146.5	4.0	200.0		73.3	49.2	115	
Sample ID: LCSD-241917	Client ID:				Units: ug/L	Prep Date:	05/02/2017	Run No: 342044
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 241917	Analysis Date:	05/02/2017	Seq No: 7492407
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val
Ethane	164.0	9.0	200.0		82.0	43.9	115	142.2
Ethylene	108.8	7.0	200.0		54.4	29.6	115	94.51
Methane	168.2	4.0	200.0		84.1	49.2	115	146.5
Sample ID: 1704P11-001BMS	Client ID: 17118-MW-1				Units: ug/L	Prep Date:	05/02/2017	Run No: 342044
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 241917	Analysis Date:	05/02/2017	Seq No: 7492416
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val
Ethane	136.4	9.0	200.0		68.2	36.3	115	
Ethylene	90.53	7.0	200.0		45.3	27	115	
Methane	142.5	4.0	200.0		71.3	40.5	115	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT**BatchID: 241917**

Sample ID: 1704P11-001BMSD	Client ID: 17118-MW-1	Units: ug/L	Prep Date: 05/02/2017	Run No: 342044							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 241917	Analysis Date: 05/02/2017	Seq No: 7492415							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	160.3	9.0	200.0		80.1	36.3	115	136.4	16.1	20	
Ethylene	106.3	7.0	200.0		53.1	27	115	90.53	16.0	20	
Methane	165.9	4.0	200.0		82.9	40.5	115	142.5	15.2	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT**BatchID: 241929**

Sample ID: MB-241929	Client ID: TestCode: TCL VOLATILE ORGANICS SW8260B	Units: ug/L	Prep Date: 05/01/2017	Run No: 341972							
SampleType: MBLK		BatchID: 241929	Analysis Date: 05/01/2017	Seq No: 7490652							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers: > Greater than Result value

< Less than Result value

B Analyte detected in the associated method blank

BRL Below reporting limit

E Estimated (value above quantitation range)

H Holding times for preparation or analysis exceeded

J Estimated value detected below Reporting Limit

N Analyte not NELAC certified

R RPD outside limits due to matrix

Rpt Lim Reporting Limit

S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT**BatchID: 241929**

Sample ID: MB-241929	Client ID:	Units: ug/L			Prep Date:	05/01/2017	Run No:	341972			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 241929			Analysis Date:	05/01/2017	Seq No:	7490652			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.92	0	50.00		89.8	66.1	129				
Surr: Dibromofluoromethane	51.23	0	50.00		102	83.6	123				
Surr: Toluene-d8	50.95	0	50.00		102	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT**BatchID: 241929**

Sample ID: LCS-241929	Client ID:				Units: ug/L	Prep Date: 05/01/2017	Run No: 341972				
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 241929	Analysis Date: 05/01/2017	Seq No: 7490653				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.24	5.0	50.00		112	68	139				
Benzene	57.82	5.0	50.00		116	74	125				
Chlorobenzene	51.54	5.0	50.00	0.9400	101	75.7	123				
Toluene	58.41	5.0	50.00		117	75.9	126				
Trichloroethene	50.70	5.0	50.00		101	70.6	129				
Surr: 4-Bromofluorobenzene	45.62	0	50.00		91.2	66.1	129				
Surr: Dibromofluoromethane	50.89	0	50.00		102	83.6	123				
Surr: Toluene-d8	50.08	0	50.00		100	81.8	118				

Sample ID: 1704O38-001AMS	Client ID:				Units: ug/L	Prep Date: 05/01/2017	Run No: 341972				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 241929	Analysis Date: 05/01/2017	Seq No: 7490662				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.94	5.0	50.00		91.9	64.3	149				
Benzene	51.77	5.0	50.00	0.6000	102	71.6	132				
Chlorobenzene	44.62	5.0	50.00		89.2	73.1	126				
Toluene	49.89	5.0	50.00		99.8	72.5	135				
Trichloroethene	43.78	5.0	50.00		87.6	70.2	132				
Surr: 4-Bromofluorobenzene	47.25	0	50.00		94.5	66.1	129				
Surr: Dibromofluoromethane	50.02	0	50.00		100	83.6	123				
Surr: Toluene-d8	49.74	0	50.00		99.5	81.8	118				

Sample ID: 1704O38-001AMSD	Client ID:				Units: ug/L	Prep Date: 05/01/2017	Run No: 341972				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 241929	Analysis Date: 05/01/2017	Seq No: 7490663				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	44.90	5.0	50.00		89.8	64.3	149	45.94	2.29	30.8	
Benzene	50.86	5.0	50.00	0.6000	101	71.6	132	51.77	1.77	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT**BatchID: 241929**

Sample ID: 1704O38-001AMSD	Client ID:				Units: ug/L	Prep Date:	05/01/2017	Run No: 341972
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 241929	Analysis Date:	05/01/2017	Seq No: 7490663
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val
Chlorobenzene	44.71	5.0	50.00		89.4	73.1	126	44.62
Toluene	49.27	5.0	50.00		98.5	72.5	135	49.89
Trichloroethene	42.25	5.0	50.00		84.5	70.2	132	43.78
Surr: 4-Bromofluorobenzene	46.03	0	50.00		92.1	66.1	129	47.25
Surr: Dibromofluoromethane	49.86	0	50.00		99.7	83.6	123	50.02
Surr: Toluene-d8	49.84	0	50.00		99.7	81.8	118	49.74
								Qual

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1704P11

ANALYTICAL QC SUMMARY REPORT**BatchID: R342429**

Sample ID: MB-R342429	Client ID:				Units: mg/L	Prep Date:	Run No: 342429				
SampleType: MBLK	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R342429	Analysis Date: 05/05/2017	Seq No: 7502432				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									
Sample ID: LCS-R342429	Client ID:				Units: mg/L	Prep Date:	Run No: 342429				
SampleType: LCS	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R342429	Analysis Date: 05/05/2017	Seq No: 7502433				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.76	1.00	25.00		103	90	110				
Sample ID: 1704P11-001CMS	Client ID: 17118-MW-1				Units: mg/L	Prep Date:	Run No: 342429				
SampleType: MS	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R342429	Analysis Date: 05/05/2017	Seq No: 7502442				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.55	1.00	25.00		102	80	120				
Sample ID: 1704P11-001CMSD	Client ID: 17118-MW-1				Units: mg/L	Prep Date:	Run No: 342429				
SampleType: MSD	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R342429	Analysis Date: 05/08/2017	Seq No: 7502454				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.10	1.00	25.00		104	80	120	25.55	2.13	20	
Sample ID: 1704G63-009ADUP	Client ID:				Units: mg/L	Prep Date:	Run No: 342429				
SampleType: DUP	TestCode: Total Organic Carbon (TOC)	SW9060A			BatchID: R342429	Analysis Date: 05/05/2017	Seq No: 7502440				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	13.16	1.00						13.17	0.076	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		