Prepared for:

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

VOLUNTARY REMEDIATION PROGRAM
PROGRESS REPORT #8
Rheem Manufacturing Company
Milledgeville, Georgia

Prepared by:

EPS

1050 Crown Pointe Parkway, Suite 550
Atlanta, Georgia 30338
Tel: 404-315-9113

November 2017

VOLUNTARY REMEDIATION PROGRAM
PROGRESS REPORT #8

RHEEM MANUFACTURING COMPANY
MILLEDGEVILLE, GEORGIA

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Justin Vickery, P.G.
Principal

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TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT #8
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.

JUSTIN D. VICKERY
No. 1745

Certified by: ______________________ Date: 11/30/2017

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 (May 2017 through October 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), and a revised hydrogeologic cross section aligned in the longitudinal direction of the plume was provided in Appendix C, Figure 8B, of VRP Progress Report #7 (EPS, June 2017).

Data collected during the current reporting period support the CSM, and therefore, no update is warranted.

3 RECENTLY COMPLETED ACTIVITIES

3.1 Overview

Section 3 discusses activities conducted between May 1, 2017 and October 31, 2017, including:

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

3.2 Assessment and Monitoring

3.2.1 Off-Property Groundwater Monitoring

On August 22-23, 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 Appendices C and D, respectively.

Table 2 summarizes groundwater elevations, and Figure 3 is a potentiometric surface map for the August 2017 gauging event. The groundwater flow direction was to the south-southwest, consistent with potentiometric surface maps developed from past VRP monitoring.

Consistent with historical results, TCE was detected in samples collected from MW-34 (52 micrograms per liter (µg/L)), MW-43 (120 µg/L), and MW-46 (24 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 (cis-DCE) was detected in sample MW-43 (9.9 µg/L).

TCE was not detected in MW-33, where it has historically been detected at concentrations ranging from 36 to 170 µg/L. Additionally, cis-DCE was not detected in MW-33, where it has been historically detected at concentrations ranging from 15 to 64 µg/L. Vinyl chloride (VC), which historically has been periodically detected in MW-33 at concentrations ranging from 3.6 to 5.4 µg/L, was detected at 41 µg/L.

TCE results are shown on Figure 4. Table 3 provides a sampling history for TCE, cis-DCE, and VC in the off-Property monitoring wells.

3.3 Remediation

3.3.1 On-Property Groundwater Remedial Action

3.3.1.1 In-Situ Bioremediation

3.3.1.1.1 Background

Following an *In-Situ* Microcosm Study conducted in 2015, bioremediation was selected as the appropriate remediation strategy for addressing VOC concentrations in groundwater in the vicinity of the historical release. As shown on Figure 5, the selected bioremediation treatment areas include (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)). The treatment involves a combination of biostimulation and bioaugmentation to create suitable conditions for degradation (reductive dechlorination) of TCE and TCE daughter products to benign nontoxic end products. Biostimulation is provided by the application of emulsified vegetable oil (EVO), sold under the trade name SDS-SD® (Terra Systems, Inc.), and bioaugmentation is provided by the application of *Dehalococcoides* culture.

3.3.1.1.2 Bioremediation Pilot Test

In October 2016, a bioremediation pilot test was initiated, comprised of 22 injection wells 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 5)). At each location, vertical clusters of between three and five 1-inch wells were constructed with well screens set at varying depths in the saprolite, PWR, and bedrock, ranging from 20 to 118 feet below the ground surface (Table 1).

Injections of EVO and bioaugmentation culture commenced on January 24, 2017, to evaluate the performance of *in-situ* bioremediation and develop full-scale design parameters. From January 24 to February 17, 2017, approximately 31,320 gallons of 10% (by volume) EVO and 45 liters of bioaugmentation culture were injected in IW-1 through IW-5. A second injection of deoxygenated chase water was performed on June 28 through July 14, 2017 to facilitate the distribution of the EVO and bioaugmentation culture, following two sampling events that indicated the initial injection event did not achieve the desired radius of influence. Table 4 summarizes injection volume, injection rate, injection duration, etc., for each injection well.

3.3.1.1.3 Performance Monitoring

Since the last Progress Report, the monitoring program for the bioremediation pilot test was expanded by eight additional monitoring wells (PTW-1 through PTW-8) to increase the number of sample points near the IW wells and three performance monitoring sampling events to assess microbial activity. PTW locations are shown on Figure 5, PTW boring logs are included in Appendix E, and PTW construction details are summarized on Table 1. The monitoring program comprises three metrics: dissolved VOC concentrations, geochemical indicator parameters, and microbial activity markers. Dissolved VOC concentrations were tested via EPA Method 8260. Geochemical parameters, including dissolved oxygen (DO), oxidation-reduction potential (ORP), and pH, were measured during well purging, and groundwater samples were also laboratory analyzed for dissolved hydrocarbon gases (ethene, ethane, methane), nitrate, sulfate, and total organic carbon (TOC). Microbial markers, including the concentrations of microbial genes coded for TCE, cis-DCE, and VC reduction were determined with CENSUS analysis by Microbial Insights, Inc.. Sampling results from the baseline and performance monitoring events are summarized in Table 5.

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 (IRTC) technical guidance for in-situ bioremediation[1]) summarizes the usage of the analytical data, the performance expectations, and the results of the pilot test sampling.

Monitoring Parameter	**Data Usage**	**Performance Parameters**	**Post-Pilot Injection Groundwater Conditions**
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.	Degradation has been observed in several wells. An overall decline of chlorinated ethenes has not yet been observed.
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 cis-DCE or VC should be monitored.	Low levels of ethane/ethene have been observed (10^1-10^2 µg/L). Levels of 10^{4-} 10^5 are eventually expected.
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 cis-DCE and VC may indicate that additional substrate is required to shift reducing conditions into an environment suitable for reduction of these compounds.	Methane levels >1.0 mg/L have been observed in several of the monitoring locations, increasing from a baseline of <0.05 mg/L.
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.	TOC levels ranging from 10-70 mg/L have been detected, increasing from a baseline of non-detect to 4 mg/L.

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

Monitoring Parameter	Data Usage	Performance Parameters	Post-Pilot Injection Groundwater Conditions
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.	Nitrate level <1.0 mg/L is desirable for anaerobic dechlorination.	Pre-injection nitrate levels ranged from 0.2-0.7 mg/L.
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.	Pre-injection nitrate levels ranged from 1-12 mg/L.
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.	DO concentrations generally ranged from 0.0-0.5 mg/L, decreasing from a baseline of 1-5 mg/L.
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.	ORP has shown a significant decrease from positive to negative.
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 5.5–8.5 are desirable. pH <5 indicates that a buffering agent may be required to sustain high rates of anaerobic dechlorination.	pH levels have generally been measured within 5.5-8.5.
VOC Reductase Genes (CENSUS Analysis)	The concentrations of specific VOC reductase genes indicate the level of microbial activity (i.e., bioremediation) and indicate if complete reductive dechlorination of TCE to a non-toxic end product is viable	Reductase gene concentration >10^4 are desired for bioremediation but may require several months to achieve. Increasing reductase gene concentrations are an indicator that bioremediation can be effectively stimulated.	TCE and VC reductase have been detected at 10^1-10^4 in several locations.

The collective results from the performance monitoring events indicate the bioremediation approach is accelerating the degradation of TCE. The first line of evidence supporting this conclusion is the intrawell VOC profiles reported for several monitoring wells (*e.g.*, PZ-7, PTW-3, PTW-5, PTW-6), which have shifted from a profile with TCE as the prevailing VOC to one with cis-DCE as the prevailing VOC. Additional monitoring wells are also trending or indicating a shift to a cis-DCE prevailing condition, including MW-48A, MW-48B, and several PTW wells. It is noted that cis-DCE was infrequently detected in Site groundwater prior to the start of the bioremediation pilot, with current cis-DCE concentrations in wells proximal to an injection location now reporting approximately 2,000 to 20,000 µg/L. In monitoring wells not exhibiting the desired TCE degradation (*e.g.*, MW-1, MW-5, PTW-8), the supporting geochemical and microbial data provides a logical explanation for the current outcome and does not detract from the performance of the overall bioremediation approach. For example, the pH condition in MW-1 and MW-5 is outside the typical range supportive of microbial activity (i.e., pH< 5.5 or pH>8.5), a condition that can be corrected through buffer addition as the project transitions to full-scale.

The second line of evidence indicating that the bioremediation approach is accelerating the degradation of TCE is the observed increase in VOC reductase gene concentrations, indicating the microbial community is responding to the biostimulation (*i.e.*, injection of bioremediation media). Several wells currently report reductase gene concentrations close to or above the threshold considered necessary for effective bioremediation (>10^4 cell/mL). The expression of the VC reductase gene is also reported in the most recent testing, indicating complete reductive dechlorination to ethene is feasible. Detectable ethene concentrations are currently reported in several monitoring wells. Degradation of cis-DCE and VC is not limited to microbial degradation and can also occur through abiotic processes that can be the principal degradation pathway in mixed redox environments.

The final line of evidence indicating that the bioremediation approach is accelerating the degradation of TCE is the combined geochemical dataset. Field-collected geochemical results demonstrate an appropriate deviation from the baseline aquifer geochemical condition, indicating that the microbial activity is modifying the aquifer to a state supportive of reductive dechlorination. As shown in Table 5, ORP has decreased in each of the performance monitoring wells, with several exhibiting a sufficient (ORP <-50 millivolt (mV)) to strongly (ORP < -200mV) reducing condition. Aquifer DO near the bioremediation pilot injection wells also exhibits a significant decrease with several wells measuring low level DO concentrations of 0 to 0.5 mg/L. The change in aquifer geochemistry, in general, is correlated to an increase in TOC from the EVO, and the occurrence of increased methane that indicates highly reducing conditions are being attained in the aquifer.

3.3.1.1.4 Injection Rate Evaluation

The primary constraints on the implementation approach to date are poor hydraulic acceptance of the bioremediation media in the bedrock aquifer and biofouling of the aquifer media around injection wells. The hydraulic acceptance was determined based on injection rates and injection pressures. Poor hydraulic performance is characterized by low injection rate (≤ 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 greater VOC flux occurs.

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

3.3.1.2 Property Line ART System

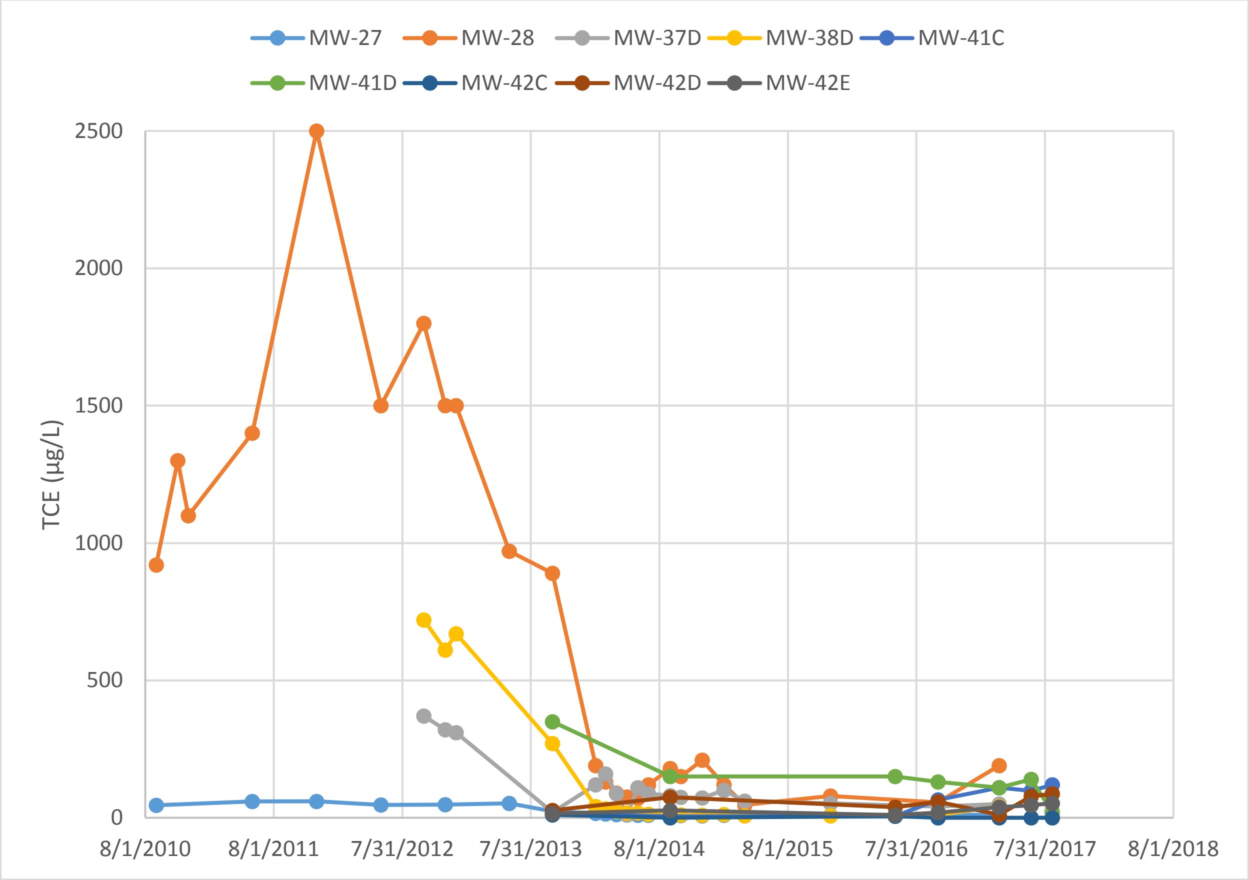
3.3.1.2.1 Overview

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 6. 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.

3.3.1.2.2 ART Performance Monitoring

The full suite of ART performance wells was sampled March 24, 2017 as discussed in VRP Progress Report #7. In June and August 2017, nested wells MW-41 and MW-42 were sampled specifically to monitor the newest portion of the ART system, wells ART-6, ART-7, and ART-8. The time series plot below presents results from recent and previous sampling events and illustrates the effectiveness of the ART system in decreasing TCE concentrations and mass flux off-Property. ART performance well sampling data is summarized on Table 6.

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.

One year of quarterly testing of nested wells MW-41 and MW-42 has been completed to monitor the effectiveness of remediation wells ART-6, ART-7, and ART-8. Each of these nested wells has five individual wells for a total of 10 monitored well locations. Results from the quarterly monitoring indicated that 8 of the 10 locations are either consistently non-detect or are fluctuating around the baseline concentrations. Results from MW-41C and MW-41D exhibit a greater degree of fluctuation from the baseline conditions. Additional time series monitoring will be performed to further evaluate performance trends.

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 (Figure 7). 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 replace the oxidizer with 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, bioremediation pilot study injections, and bioremediation injection well installation.

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 disposal/replacement.

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. Each of the lines has remained operational throughout the reporting period, with the exception of temporary shutdown of Lines 6-8 during bioremediation injection well installation.

As discussed in the June 2017 VRP Progress Report #7, results from samples collected after initiation of SSD system operations indicated that indoor air concentrations were below the EPA screening levels and that sub-slab soil gas sample concentrations decreased significantly below pre-system operation levels.

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 remain 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

Bioremediation injection wells were installed in October and November 2017, and it is anticipated that injections will begin during the next reporting period. A discussion of the injection well installation, the injections, and any performance monitoring will be included in the next progress report.

4.1.1.3 Property Line ART System Operation

During the next reporting period, the full scale system will continue operation, and a full round of performance monitoring will be conducted. The performance of the system expansion (wells ART-6, ART-7, and ART-8) will continue to be monitored quarterly using nested wells MW-41 and MW-42. Groundwater will be sampled for VOCs using passive diffusion bag methodology.

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

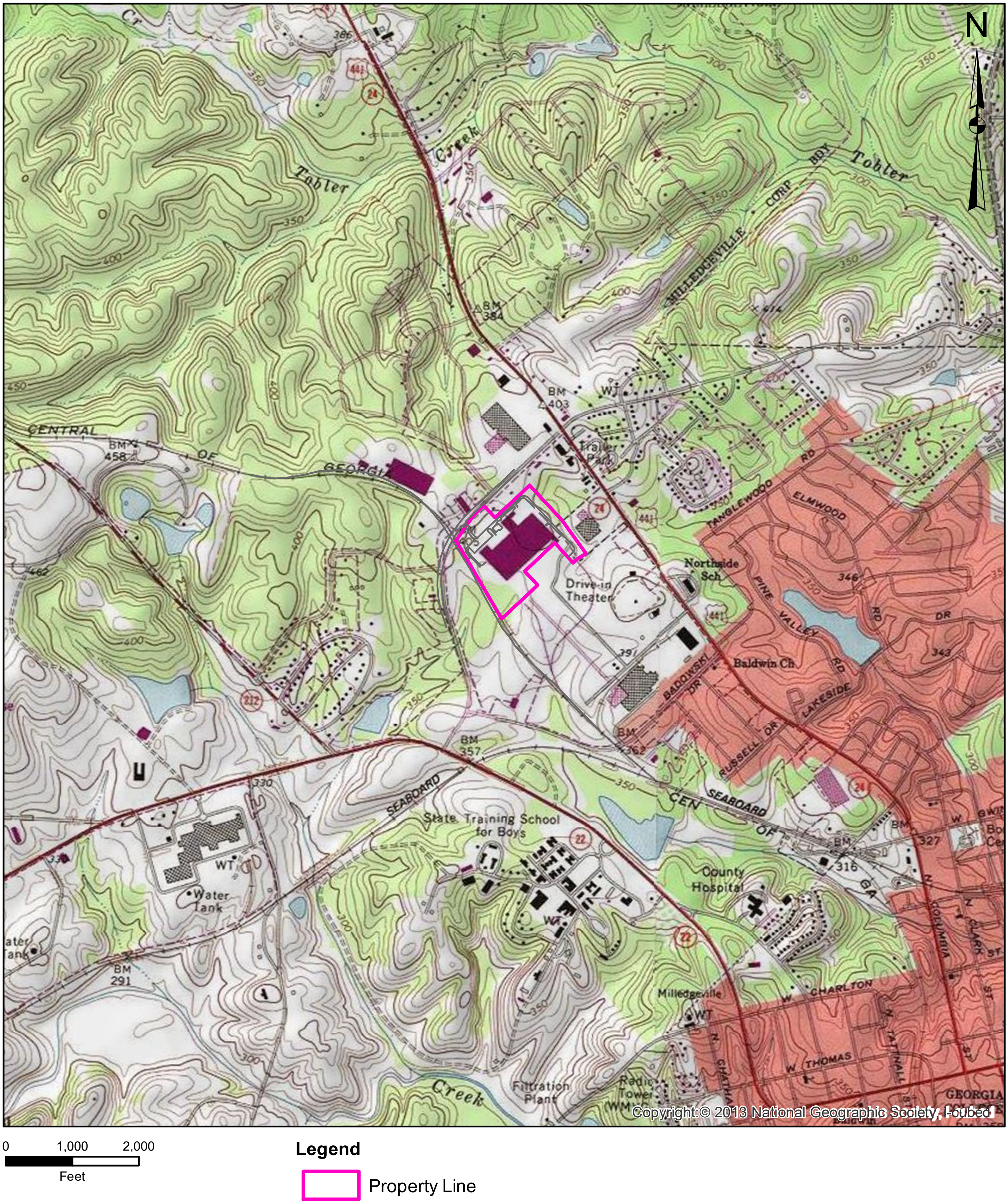
Monitoring wells MW-33, MW-34, MW-35, MW-36, MW-43, MW-44, MW-45, MW-46, MW-47, and MW-54 will be sampled during the next reporting period.

5 REFERENCES

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

Environmental Planning Specialists, Inc., June 2017, Voluntary Remediation Program Progress Report #7.

FIGURES



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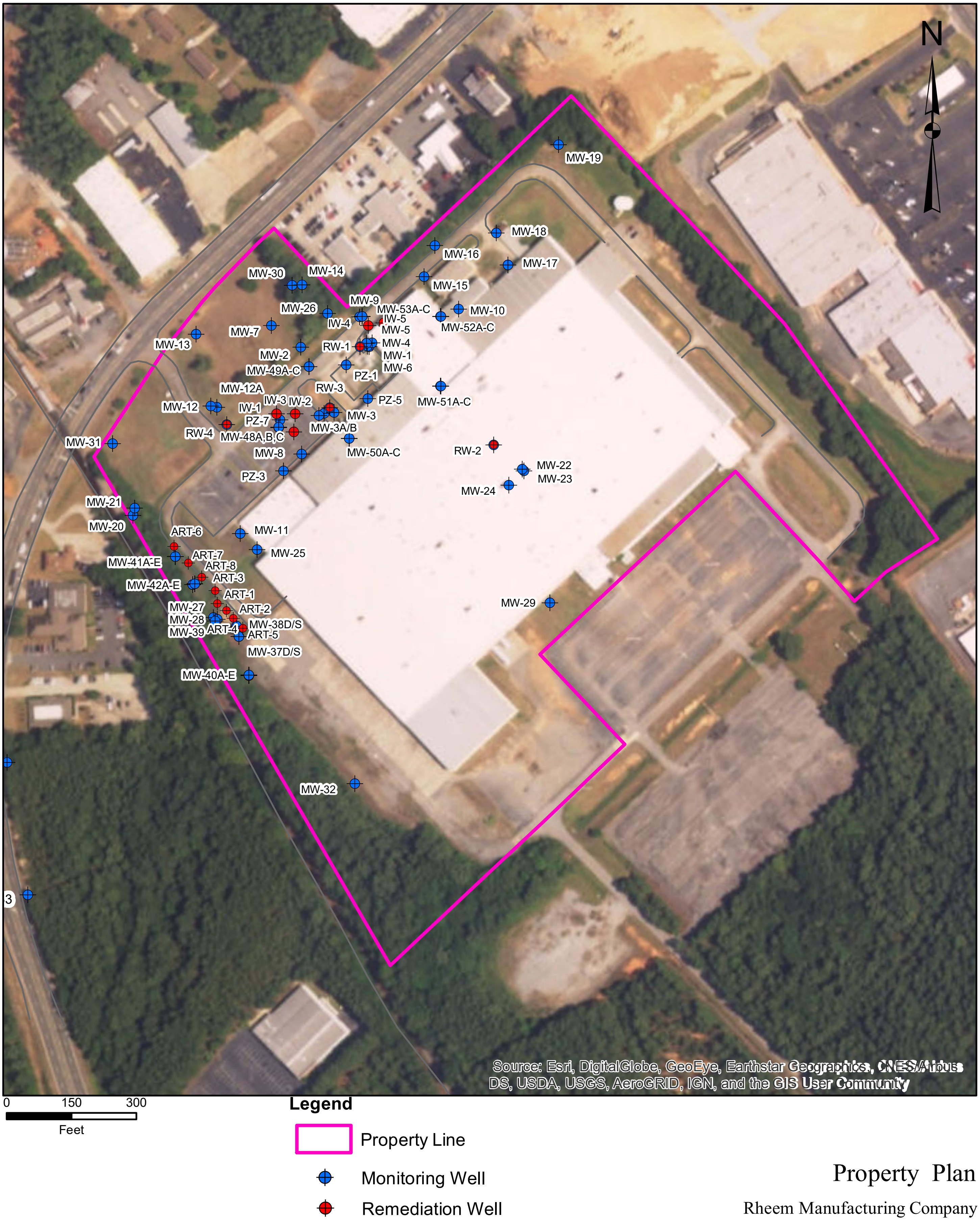
Property Vicinity Topographic Map

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.

Figure No.1



Property Plan

Rheem Manufacturing Company
Milledgeville, Georgia

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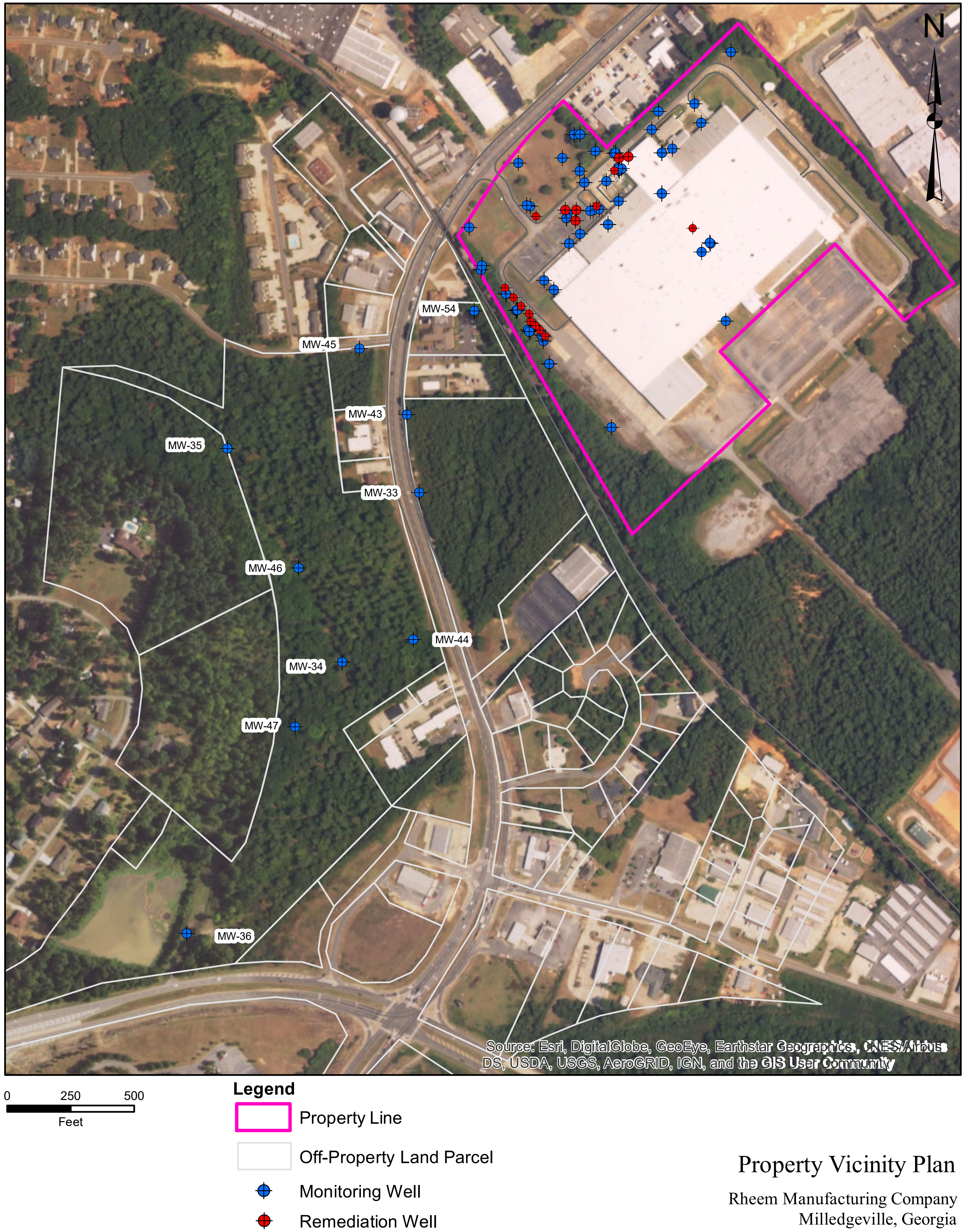
Figure No.2A



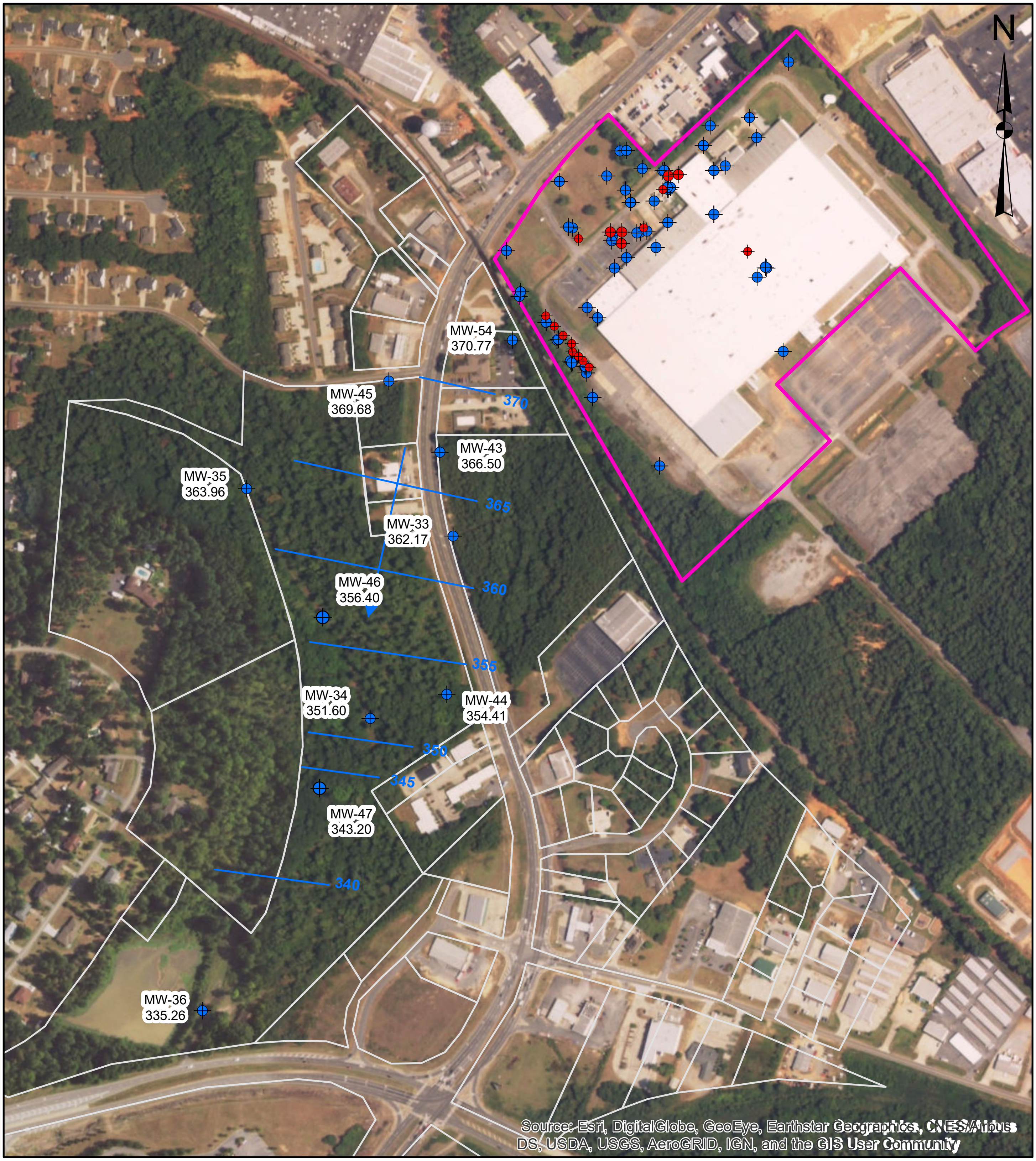
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Property Vicinity Plan

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.

Figure No.2B



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 250 500
Feet

Legend

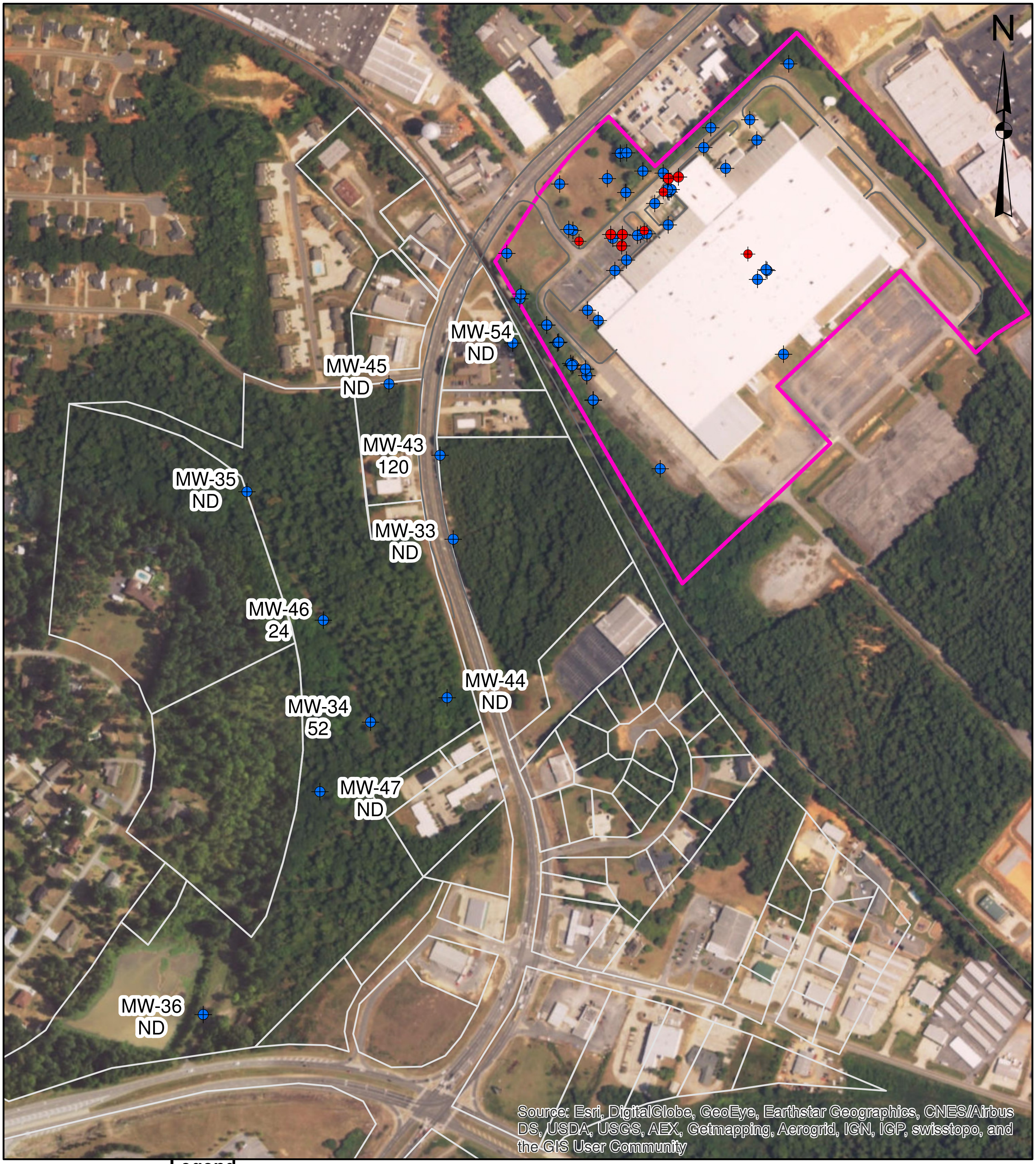
▭	Property Line
●	Monitoring Well
335.26	Groundwater Elevation (ft)
●	Remediation Well
360 —	Potentiometric Surface Contour
→	Groundwater Flow Direction
▭	Off-Property Land Parcel

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

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.

Figure No.3

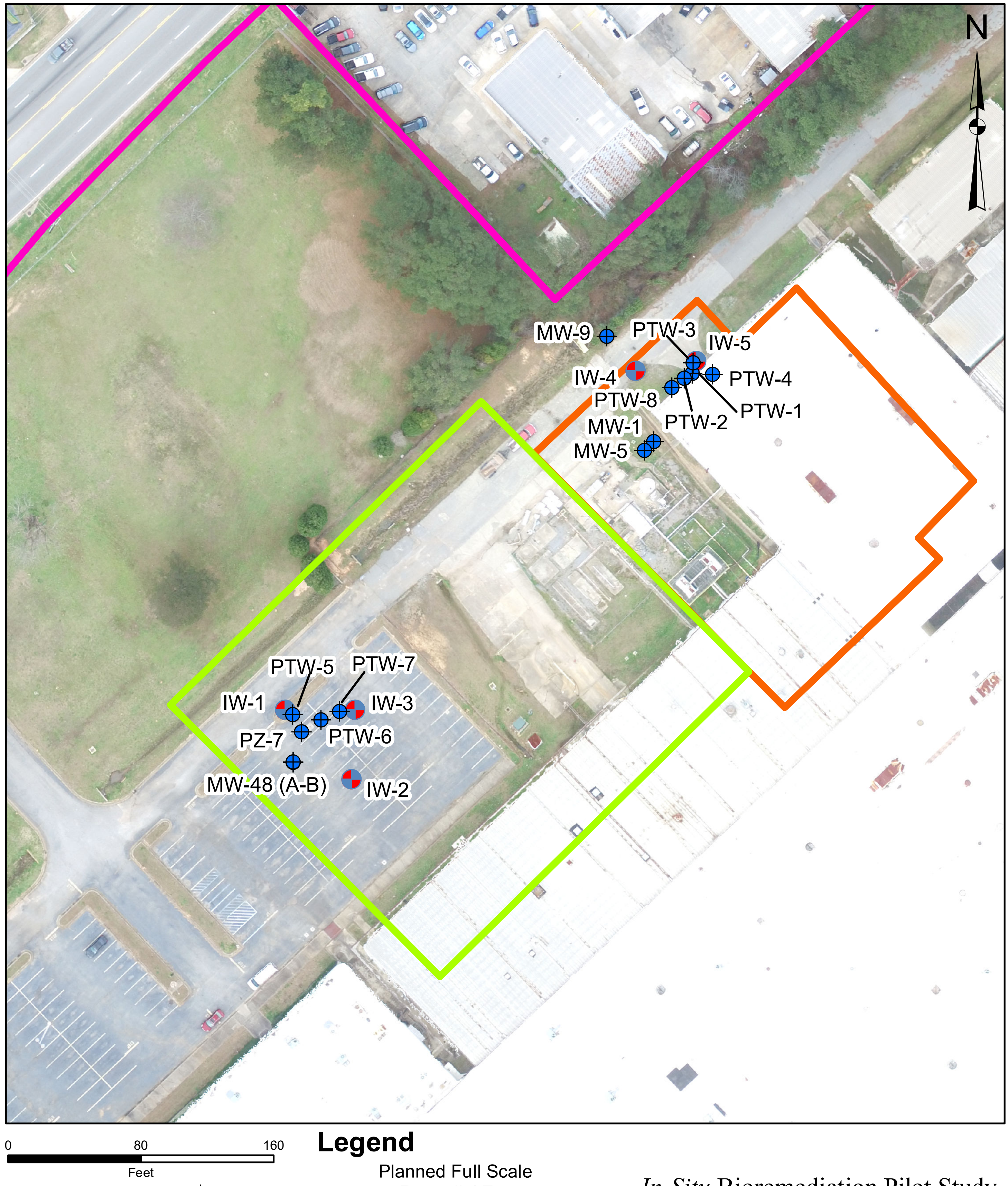


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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

Rheem Manufacturing Company
Milledgeville, Georgia

Figure No.4

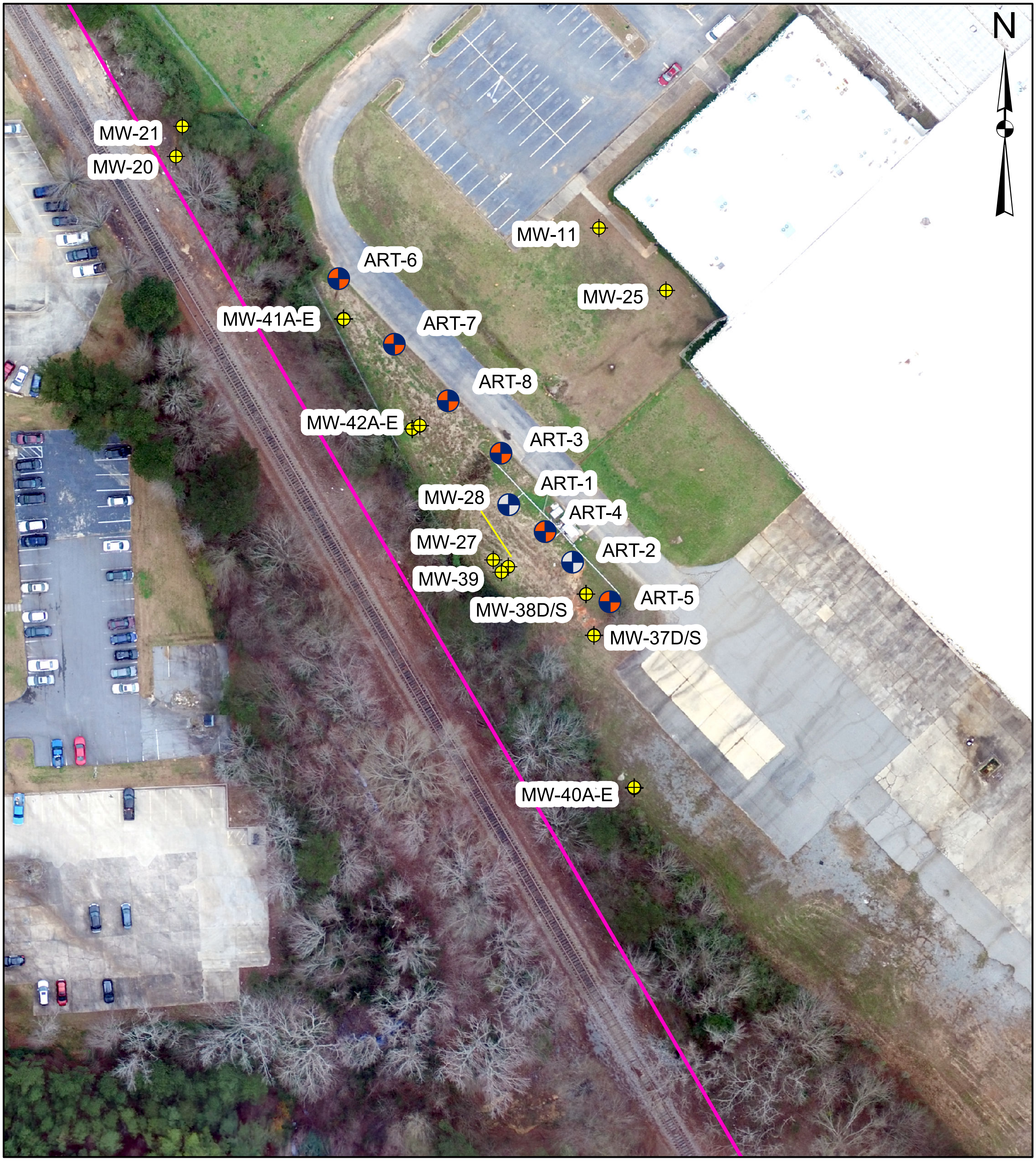


In-Situ Bioremediation Pilot Study
Treatment Zones and Well Network

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.

Figure No.5



Legend

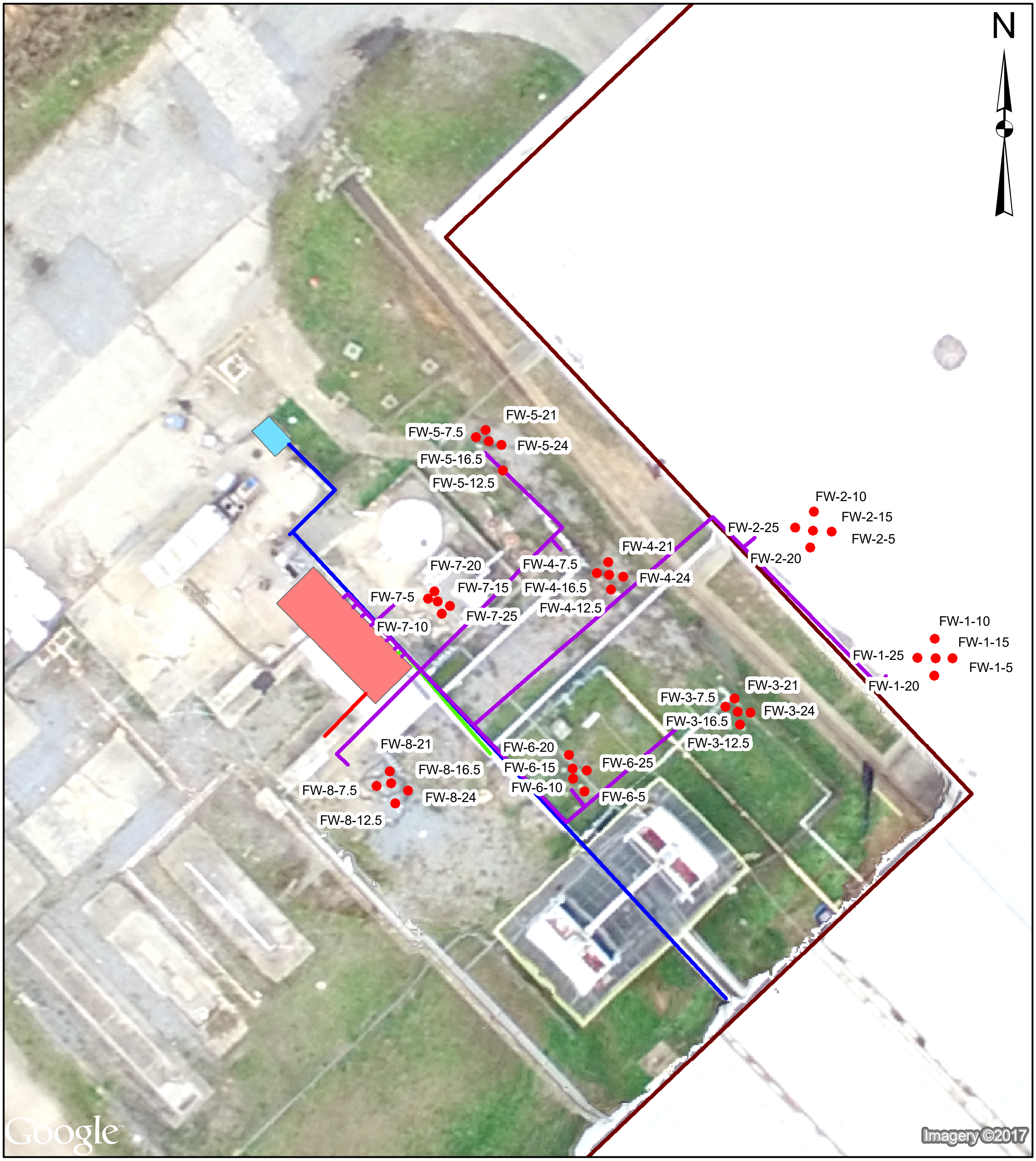
●	ART Well Location (Active)
●	ART Well Location (Inactive)
▭	Property Line
⊕	Monitoring Well

Property Line Plan

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.

Figure No.6



0 10 20

Feet

Legend

SVE Lines	🟥 SVE System
Power	🟦 Safety Shower
Water Line	● Frac Wells
Drain Line	

SVE System Layout

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.
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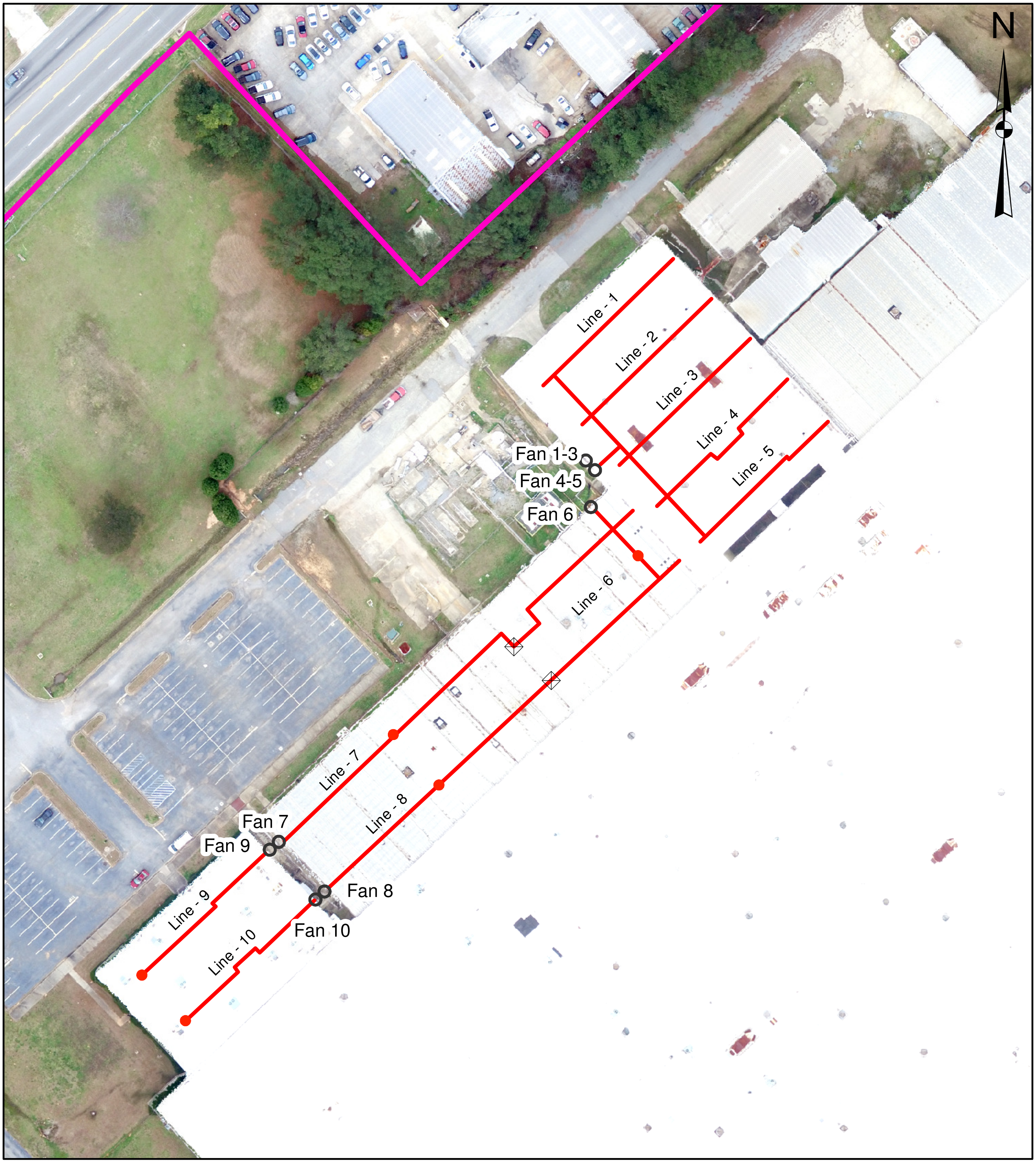
Figure No. 7



Legend

- ━ Sub-Slab Depressurization Lines
- ● Access Vault
- ○ Fan
- ☒ Closed Valve

Sub-Slab Depressurization System Layout

Rheem Manufacturing Company
Milledgeville, Georgia

Environmental Planning Specialists, Inc.

Figure No. 8

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	PWR	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
PTW-1	50	35-50	NM	N/A	Saprolite	7/24/2017
PTW-2	50	35-50	NM	N/A	Saprolite	7/24/2017
PTW-3	50	35-50	NM	N/A	Saprolite	7/25/2017
PTW-4	50	35-50	NM	N/A	Saprolite	7/25/2017
PTW-5	55	40-55	NM	N/A	Saprolite/PWR	7/26/2017
PTW-6	56	41-56	NM	N/A	Saprolite/PWR	7/26/2017
PTW-7	60	45-60	NM	N/A	Saprolite/PWR	7/26/2017
PTW-8	46	31-46	NM	N/A	Saprolite	7/26/2017

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 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	08/23/17	392.08	29.52	362.56
MW-34	08/23/17	352.76	1.69	351.07
MW-35	08/23/17	364.16	0.60	363.56
MW-36	08/23/17	339.48	4.24	335.24
MW-43	08/23/17	392.91	26.09	366.82
MW-44	08/23/17	361.74	7.63	354.11
MW-45	08/22/17	393.98	22.87	371.11
MW-46	08/23/17	359.01	2.89	356.12
MW-47	08/23/17	347.98	5.56	342.42
MW-54	08/22/17	389.92	16.67	373.25

Notes:
ft-amls: feet above mean sea level

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

		2012	**2013**		**2014**			**2015**		**2016**			**2017**	
Well No.	**Analyte**	**Dec**	**Jun**	**Aug**	**Mar**	**Jul**	**Sep**	**Mar**	**Oct**	**Feb**	**Apr**	**Oct**	**Mar**	**Aug**
MW-33	TCE	100	53		36		86	140	150		90	170	100	ND
	cis-DCE						49	18	18		31	15	64	ND
	VC						3.6	ND	ND		5.4	ND	4.8	41
MW-34	TCE	45			41		48	53	57		60	58	66	52
	cis-DCE						ND	ND	ND		ND	ND	ND	ND
	VC						ND	ND	ND		ND	ND	ND	ND
MW-35	TCE	ND			NA		ND	NA	NA		ND	ND	ND	ND
	cis-DCE						ND	NA	NA		ND	ND	ND	ND
	VC						ND	NA	NA		ND	ND	ND	ND
MW-36	TCE	ND	ND		ND		ND	ND	ND		ND	ND	ND	ND
	cis-DCE						ND	ND	ND		ND	ND	ND	ND
	VC						ND	ND	ND		ND	ND	ND	ND
MW-43	TCE			170	150		150	170	140		150	160	83	120
	cis-DCE			5.6			12	6.9	6.6		7.5	8.1	7.2	9.9
	VC			ND			ND	ND	ND		ND	ND	ND	ND
MW-44	TCE			ND	ND		ND	ND	ND		ND	ND	ND	ND
	cis-DCE			ND			ND	ND	ND		ND	ND	ND	ND
	VC			ND			ND	ND	ND		ND	ND	ND	ND
MW-45	TCE				ND		ND	ND	ND		ND	ND	ND	ND
	cis-DCE						ND	ND	ND		ND	ND	ND	ND
	VC						ND	ND	ND		ND	ND	ND	ND
MW-46	TCE					9.8	15	15	21		23	24	22	24
	cis-DCE					ND	ND	ND	ND		ND	ND	ND	ND
	VC					ND	ND	ND	ND		ND	ND	ND	ND
MW-47	TCE					ND	ND	ND	ND		ND	ND	ND	ND
	cis-DCE					ND	ND	ND	ND		ND	ND	ND	ND
	VC					ND	ND	ND	ND		ND	ND	ND	ND
MW-54	TCE									ND	ND	ND	ND	ND
	cis-DCE									ND	ND	ND	ND	ND
	VC									ND	ND	ND	ND	ND

Notes:

Results are in micrograms per liter (µg/L)

ND: Not Detected

NA: Well Not Accessible

Blank: Well Not Sampled

Table 4
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 5
Groundwater Sampling Results - Bioremediation Pilot Test Performance Monitoring Wells
Rheem Manufacturing Company
Milledgeville, Georgia

Sample Location	Screened/ Open Depth Interval (ft-bgs)	Hydrogeologic Setting of Screened Interval	Associated Injection Wells	Date Sampled	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	TOC (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	pH (SU)	DO (mg/L)	ORP (mV)	DHC (cells/mL)	TCE Reductase (cells/mL)	BAV1 VC Reductase (cells/mL)	VC Reductase (cells/mL)
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	5.25	6.67	305				
				03/28/17	560	12	ND	ND	ND	ND	ND	ND	0.26	5.6	5.97	8.05	239				
				04/28/17	440	8.5	ND	ND	ND	ND	ND	ND	N/A	N/A	5.47	7.54	149				
				05/25/17	500	28	ND	ND	ND	ND	ND	ND	N/A	N/A	5.66	2.67	161				
				06/22/17	480	11	ND	ND	ND	ND	ND	ND	N/A	N/A	5.58	2.28	225				
				08/29/17	430	9.6	ND	ND	ND	ND	ND	ND	N/A	N/A	5.67	4.46	233				
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	8.53	0.41	-23				
				03/28/17	140,000	2,500	ND	2.9	5.85	ND	ND	ND	ND	1.7	8.60	0.00	50				
				04/28/17	190,000	2,600	ND	ND	9.63	ND	ND	ND	N/A	N/A	7.97	5.01	-86				
				05/25/17	180,000	2,900	ND	ND	10.8	ND	ND	ND	N/A	N/A	8.09	0.97	-3				
				06/22/17	37,000	260	ND	ND	2.66	ND	ND	ND	N/A	N/A	9.13	0.32	16	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
				08/29/17	200,000	2,100	ND	ND	19.5	ND	ND	ND	N/A	N/A	7.84	0.24	-52	5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
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	6.26	2.53	177				
				03/28/17	690	3,300	ND	2.8	8.94	ND	ND	ND	ND	3.0	6.61	0.02	-146				
				04/28/17	2,200	3,400	14	2.1	6.74	ND	ND	ND	N/A	N/A	6.25	2.20	-160				
				05/25/17	6,600	2,700	ND	3.7	3.86	ND	ND	22	N/A	N/A	6.32	0.38	-49				
				06/22/17	7,300	1,100	ND	6.1	2.28	ND	ND	49	N/A	N/A	6.58	0.00	-90	3.95E+03	1.79E+03	<5.00E-01	2.03E+03
				08/29/17	5,500	2,400	ND	ND	8.43	ND	27	1500	N/A	N/A	6.26	0.00	-76				
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	6.78	1.00	9				
				03/28/17	31,000	960	ND	ND	4.45	9.9	15	ND	ND	4.8	7.27	0.00	36				
				04/28/17	18,000	390	ND	ND	2.89	13	19	ND	N/A	N/A	7.19	1.14	-53				
				05/25/17	25,000	1,400	ND	ND	4.03	9.2	14	ND	N/A	N/A	6.90	1.63	-5				
				06/22/17	24,000	1,300	ND	5.6	3.21	11	17	ND	N/A	N/A	7.38	0.16	-67				
				08/28/17	19,000	7,200	ND	ND	11.7	ND	11	21	N/A	N/A	6.27	0.57	10				
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	2.0	6.48	3.66	220				
				03/28/17	47,000	330	ND	ND	4.34	ND	ND	ND	ND	1.4	6.67	0.00	-44				
				04/28/17	34,000	670	ND	ND	3.95	ND	ND	ND	N/A	N/A	6.12	0.54	-3				
				05/25/17	33,000	2,600	ND	ND	4.78	ND	ND	ND	N/A	N/A	6.30	0.91	9				
				06/22/17	26,000	2,700	ND	2.7	3.62	ND	ND	ND	N/A	N/A	6.24	0.42	122	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
				08/28/17	19,000	7,600	ND	ND	11.3	ND	ND	80	N/A	N/A	6.16	0.43	180	5.10E+00	1.40E+00	<5.00E-01	1.70E+00
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	5.83	4.99	437				
				03/28/17	30,000	1,200	ND	ND	9.26	ND	ND	ND	ND	ND	6.78	0.00	-59				
				04/28/17	8,500	9,500	73	5.5	10.5	ND	ND	4.3	N/A	N/A	6.27	0.95	-110				
				05/25/17	2,800	22,000	ND*	ND*	17.8	ND	ND	11	N/A	N/A	6.13	0.52	-33				
				06/22/17	ND	24,000	11	16	16.5	ND	ND	53	N/A	N/A	6.50	0.69	-128	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
				08/28/17	870	18,000	ND	ND	30.7	ND	ND	6300	N/A	N/A	6.96	0.55	-81	4.22E+02	4.39E+02	<5.00E-01	3.56E+02
IW-1B			IW-1B	06/22/17	18,000	190	ND	ND	3.72	ND	ND	24	N/A	N/A	6.60	1.20	-121	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01

Table 5
Groundwater Sampling Results - Bioremediation Pilot Test Performance Monitoring 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)	pH (SU)	DO (mg/L)	ORP (mV)	DHC (cells/mL)	TCE Reductase (cells/mL)	BAV1 VC Reductase (cells/mL)	VC Reductase (cells/mL)
PTW-1	35-50	Bedrock	IW-5D/E	07/31/17	60,000	5,100	ND	97	4.00	32	67	2,800	N/A	N/A	6.81	0.65	-255	3.94E+03	5.69E+03	<5.00E-01	5.08E+03
				08/29/17	75,000	7,600	ND	ND	17.30	48	130	2,000	N/A	N/A	6.43	0.09	-45	3.44E+04	2.01E+04	<5.00E-01	1.41E+04
PTW-2	35-50	PWR	IW-5D/E	08/01/17	130,000	5,700	ND	ND	5.16	12	10	8.4	N/A	N/A	6.38	0.72	-246	2.90E+00	<1.00E-1	<1.00E-1	2.70E+00
				08/29/17	160,000	7,000	ND	ND	6.83	34	22	10	N/A	N/A	6.40	0.00	-108	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
PTW-3	35-50	PWR	IW-5D/E	08/01/17	40,000	8,800	ND	ND	10.1	ND	14	92	N/A	N/A	6.40	1.12	-193	<1.00E-1	<1.00E-1	<1.00E-1	<1.00E-1
				08/29/17	12,000	27,000	ND	ND	72.5	9.6	24	120	N/A	N/A	6.49	0.39	-92				
PTW-4	35-50	Bedrock	IW-5D/E	07/31/17	49,000	17,000	ND	63	38.3	33	47	74	N/A	N/A	6.41	1.02	-252	1.30E+00	2.00E-01	<7.00E-1	<7.00E-1
				08/29/17	36,000	26,000	ND	ND	44	23	47	210	N/A	N/A	6.37	0.39	-55	4.10E+00	6.00E+00	<5.00E-01	4.60E+00
PTW-5	40-55	PWR	IW-1B/C, IW-3D/E	07/31/17	880	23,000	ND	ND	48.9	ND	ND	4,400	N/A	N/A	6.52	0.68	-108	4.85E+01	1.27E+02	<5.00E-01	1.48E+02
				08/28/17	700	23,000	ND	ND	57.8	ND	ND	8,700	N/A	N/A	6.81	0.00	-80	8.83E+03	1.03E+04	<5.00E-01	7.48E+03
PTW-6	41-56	PWR	IW-1B/C, IW-3D/E	07/31/17	8,500	28,000	ND	44	22.6	ND	ND	3,400	N/A	N/A	6.51	0.75	-183	1.30E+00	5.20E+00	<5.00E-01	4.10E+00
				08/28/17	3,000	32,000	ND	ND	50.5	ND	ND	6,400	N/A	N/A	6.38	0.65	-97	3.09E+02	3.75E+02	<5.00E-01	2.90E+02
PTW-7	45-60	PWR	IW-1B/C, IW-3C/D	07/31/17	25,000	9,700	ND	ND	9.02	34	33	3,400	N/A	N/A	6.69	1.52	-265	5.00E+00	8.10E+00	<5.00E-01	9.00E+00
				08/28/17	19,000	16,000	ND	ND	14.4	15	13	541	N/A	N/A	6.50	0.36	-53	2.83E+03	3.36E+03	<5.00E-01	2.67E+03
PTW-8	31-46	PWR	IW-5D/E	07/31/17	88,000	1,700	ND	ND	9.39	62	87	7.4	N/A	N/A	6.63	0.62	-245	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
				08/28/17	130,000	3,300	ND	ND	8.97	400	260	15.0	N/A	N/A	6.54	0.00	-413				

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 Ap
*Detection limit was 100 µg/L. Based on the April and May 2017 sampling data, the concentrations are likely as high or higher than the April 2017detections.

Table 6
Groundwater 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	June	Aug
MW-39	30-40 Soil	35	TCE							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			cis-DCE							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			VC							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
MW-28	90-100 PWR	30	TCE	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		
			cis-DCE	36	49					86	80	77		52	9.1	7.2	ND	ND	ND	6.6	11	9	13	ND	ND	ND		ND	10		
			VC	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	TCE	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		
			cis-DCE	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		
			VC	ND										ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
MW-37S	30-40 Soil	22	TCE							ND	9.9	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			cis-DCE							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			VC							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
MW-37D	77-87 PWR	22	TCE							370	320	310		20	120	160	88	110	110	88	81	75	72	100	61	53		41	50		
			cis-DCE							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		
			VC							ND	ND	ND		34	13	9.3	20	5.3	4.4	4.6	3.4	ND	ND	ND	ND	ND		ND	ND		
MW-38S	30-40 Soil	15	TCE							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			cis-DCE							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			VC							ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
MW-38D	67-77 PWR	15	TCE							720	610	670		270	41	33	23	18	17	13	11	11	9	12	7.3	6.8		11	41		
			cis-DCE							34	50	62		27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
			VC							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	TCE											ND							ND						ND	ND	ND	ND	ND
			cis-DCE											ND							ND						ND	ND	ND	ND	ND
			VC											ND							ND						ND	ND	ND	ND	ND
MW-41B	130-140 Bedrock	24	TCE											6.5							ND						ND	ND	ND	ND	ND
			cis-DCE											ND							ND						ND	ND	ND	ND	ND
			VC											ND							ND						ND	ND	ND	ND	ND
MW-41C	90-100 Bedrock	24	TCE											15							5.2						5.6	65	110	98	120
			cis-DCE											ND							ND						ND	10	12	9.6	23
			VC											ND							ND						ND	ND	ND	ND	ND
MW-41D	70-80 PWR	24	TCE											350							150						150	130	110	140	21
			cis-DCE											15							5.7						29	12	8.8	9.2	ND
			VC											ND							ND						ND	ND	ND	ND	ND
MW-41E	30-40 PWR	24	TCE											ND							ND						ND	ND	ND	ND	ND
			cis-DCE											ND							ND						8.9	5.8	10	7.6	7.4
			VC											ND							ND						ND	ND	ND	ND	ND
MW-42A	182-192 Bedrock	26	TCE											ND							ND						ND	ND	ND	ND	ND
			cis-DCE											ND							ND						ND	ND	ND	ND	ND
			VC											ND							ND						ND	ND	ND	ND	ND
MW-42B	162-172 Bedrock	26	TCE											ND							ND						ND	ND	ND	ND	ND
			cis-DCE											ND							ND						ND	ND	ND	ND	ND
			VC											ND							ND						ND	ND	ND	ND	ND
MW-42C	100-110 Bedrock	26	TCE											11							ND						6.3	ND	ND	ND	ND
			cis-DCE											ND							ND						ND	6.9	11	11	13
			VC											ND							ND						ND	ND	ND	ND	ND
MW-42D	75-85 PWR/Bedrock	26	TCE											27							75						38	58	11	78	87
			cis-DCE											5.2							17						8.7	ND	29	21	5.7
			VC											ND							ND						ND	ND	ND	ND	ND
MW-42E	30-40 Saprolite/PWR	26	TCE											15							27						9.9	19	39	46	53
			cis-DCE											ND							ND						ND	ND	ND	ND	ND
			VC											ND							ND						ND	ND	ND	ND	ND

Notes:

Results are in micrograms per liter (µg/L)	▨ Original Baseline Event (ART-1, ART-2 pilot test)
PWR: Partially Weathered Rock	🟧 Second Baseline Event (ART-3, ART-4, ART-5 pilot test)
ft-bgs: feet below ground surface	🟦 Third Baseline Event (ART-3, ART-4, ART-5, ART-6, ART-7, ART-8 full scale operation)
ND: Not Detected	

APPENDIX A

Professional Geologist Summary of Hours

2:02 PM
11/15/17

Environmental Planning Specialists, Inc.
Justin Vickery
Project Hours
May through October 2017

	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	TOTAL
Total Hours Per Month	**117.50**	**65.75**	**23.50**	**23.00**	**27.25**	**29.00**	**286.00**

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 Horzontal 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 Remdiation Plan, and Prelinimary 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

APPENDIX C
Sampling Forms

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 5/25/2017

Well ID: MW-1 **Field Conditions:** ~75°F, clear

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: stick-up **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** grass

Well depth from TOC: 44.0' **Depth to Water from TOC:** 22.53

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 21.47 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.44 gal **Three Well Volumes (gal):** 10.31

Purging Method: low flow, low volume **Time @ Start of Purge:** 1135

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 40 **ft (BTOC)** **Final Depth of Pump/Tubing:** 40 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1150	0.25	20.53	5.66	116.3	0.040	8.88	7.35	23.01	DO readings collected
1200	0.5	20.36	5.64	127.8	0.040	7.18	4.91	23.03	downhole w/ YSI 550A
1230	1.5	20.59	5.69	157.8	0.040	7.37	2.68	23.02	# 05H1706
1240	1.75	20.86	5.66	160.8	0.040	1.00	2.67	23.02	

Water Quality Meter (Make/Model/SN): YSI 556 MPS # 16K14, Turb. w/ Lamotte 2020

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17145-MW-1 Time Collected: 1243 Technician Signature Alex Testoff

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 5/25/2017

Well ID: MW-5 **Field Conditions:** ~75 °F, clear

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: Stick-up **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** grass

Well depth from TOC: 86.50 **Depth to Water from TOC:** 22.97

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 63.53 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 10.16 gal **Three Well Volumes (gal):** 30.50

Purging Method: low flow, low volume **Time @ Start of Purge:** 1140

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 80 ft (BTOC) **Final Depth of Pump/Tubing:** 80 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1152	0.10	21.73	8.10	44.9	0.231	0.00	1.38	23.12	DO readings collected
1202	0.25	20.90	8.07	27.5	0.237	0.00	1.12	24.28	downhole w/ YSI 550A
1231	0.35	21.07	8.08	14.2	0.236	0.00	1.01	25.28	# 06E2088
1242	0.45	22.72	8.09	-3	0.236	0.00	0.97	25.99	

Water Quality Meter (Make/Model/SN): YSI 556 MPS # 16J12, Turb. w/ LaMotte 2020

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17M5-MW-5 Time Collected: 1245 Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 5/25/2017

Well ID: MW-9

Field Conditions: ~ 70 °F, partly cloudy

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: stick-up

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y

Condition of surrounding area: asphalt/grass

Well depth from TOC: 45.0'

Depth to Water from TOC: 22.53

Well Diameter (in): 2"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 22.47 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.59 gal

Three Well Volumes (gal): 10.79

Purging Method: low flow, low volume

Time @ Start of Purge: 1019

Sample Method: direct/straw

Sample Parameters: VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 41 ft (BTOC) **Final Depth of Pump/Tubing:** 41 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1034	0.75	19.41	6.25	-49.7	0.301	9.78	1.15	22.71	DO readings collected
1045	1.0	19.52	6.30	-52.9	0.303	4.66	0.39	22.71	downhole w/ YSI 550A
1115	1.60	20.27	6.33	-49.1	0.306	0.00	0.36	22.72	#06E2088
1123	1.75	20.20	6.32	-49.3	0.307	0.00	0.38	22.71	

Water Quality Meter (Make/Model/SN): YSI 556 MPS # 13K14, Turb. w/ Lamotte 2020

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17145-MW-9

Time Collected: 1125

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing

Date: 5/25/2017

Well ID: MW-48A

Field Conditions: ~60 °F, clear

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: ~~[illegible]~~ ~~Stickup~~ 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: 98.0'

Depth to Water from TOC: 22.11

Well Diameter (in): 1"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 75.89 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.04 gal

Three Well Volumes (gal): 9.12

Purging Method: low flow, low volume

Time @ Start of Purge: 0855

Sample Method: direct/straw

Sample Parameters: VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 95 **ft (BTOC)**

Final Depth of Pump/Tubing: 95 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0905	0.5	21.20	6.75	87.9	0.385	7.48		23.65	~~DO~~ ANT
0915	0.75	21.06	6.93	54.6	0.326	6.66		23.69	
0925	1.0	21.38	7.04	43.5	0.354	5.57		23.68	
0935	1.25	21.98	6.94	26.9	0.344	8.83		23.69	
0945	1.5	21.87	6.92	3	0.345	5.40		23.70	
0950	1.6	20.79	6.90	-5	0.345	3.33	1.67	23.68	DO measurement collected
									downhole w/ YSI 550A
									#05H1706 after purging
									(unable to fit downhole
									probe down well while
									purging)

Water Quality Meter (Make/Model/SN): YSI 556 MPS #16J12, Turb. w/ Lamotte 2020

Pump (Make/Model): Alexis Peristaltic pump

Sample ID: 17145-MW-48A

Time Collected: 0955

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 5/25/2017

Well ID: MW-48B **Field Conditions:**

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: ~~[illegible]~~ str 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:** 21.39

Well Diameter (In): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 50.61 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 2.02 gal **Three Well Volumes (gal):** 6.07

Purging Method: low flow, low volume **Time @ Start of Purge:** 0850

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 68 **ft (BTOC)** **Final Depth of Pump/Tubing:** 68 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0900	0.5	20.60	6.31	63.4	0.265	0.13	~~1.10~~ ml	21.70	
0915	0.75	20.15	6.30	43.2	0.282	0.00	~~0.95~~	21.70	
0925	~~[illegible]~~ 1.10	20.20	6.30	18.6	0.281	0.00	~~4~~	21.70	
0937	1.40	20.59	6.30	10.3	0.279	0.00		21.70	
0950	1.66	21.08	6.30	8.9	0.278	0.00	0.91	21.70	DO reading collected
									downhole w/ YSI 550A
									#06E2088

Water Quality Meter (Make/Model/SN): YSI 556 MPS #16J12, Turb. w/ Lamotte 2020

Pump (Make/Model): Alexis Peristaltic pump

Sample ID: 17145-MW-48B

Time Collected: 0955

Technician Signature Alex Testoff

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 5/25/2017

Well ID: ANT ~~MW-9~~ PZ-7 **Field Conditions:** ~70 °F, partly cloudy
Sampling Performed By: A. Testoff, Brian Goldman
Well Construction: Stick-up **General Condition of Well:**
Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:**
Well depth from TOC: 63.0' **Depth to Water from TOC:**
Well Diameter (in): 2" **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 41.90 ft.
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 6.70 gal **Three Well Volumes (gal):** 20.12
Purging Method: low flow, low volume **Time @ Start of Purge:** 1005
Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC
Initial Depth of Pump/Tubing: 58 ft (BTOC) **Final Depth of Pump/Tubing:** 58 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1025	0.35	21.97	6.65	47.7	0.402	5.00	0.50	21.50	DO readings collected
1042	0.70	21.79	6.08	-21.8	0.409	3.93	0.49	21.51	downhole w/ YSI 550A
1055	1.0	22.68	6.14	-33.3	0.405	0.00	0.56	21.51	# 05H1706
1105	1.3	22.71	6.13	-37.5	0.402	0.00	0.52	21.51	

Water Quality Meter (Make/Model/SN): YSI 556 MPS # 16J12, Turb. w/ Lamotte 2020

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17145-PZ-7 Time Collected: 1110 Technician Signature Alex Testoff

Monitoring W[illegible] Sampling Form

EPS Project: Rheem Manufacturing **Date:** 6-22-2017

Well ID: IW-1B **Field Conditions:** ~70°F Overcast

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: flush mount **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** grassed Island

Well depth from TOC: 66.48 **Depth to Water from TOC:** NM

Well Diameter (in): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): NM

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: NM **Three Well Volumes (gal):** NM

Purging Method: low flow, low volume **Time @ Start of Purge:** 0950

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 60 **ft (BTOC)** **Final Depth of Pump/Tubing:** 60 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1012	0.10	24.51	6.62	-85	0.236	126	3.00	NM	DO measurements collected w/ Horiba, unable to fit YSI 550A down well
1030	0.25	25.09	6.60	-119	0.234	51.5	1.45	NM	
1040	0.50	25.58	6.59	-119	0.234	40.8	1.29	NM	
1045	0.60	25.77	6.60	-120	0.234	29.3	1.26	NA	
1050	0.75	25.86	6.61	-121	0.234	16.2	1.23	NM	
1055	0.85	25.93	6.60	-121	0.234	8.9	1.20	NM	

Water Quality Meter (Make/Model/SN): Horiba #J9UV65HM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17173-IW-1B Time Collected: 1057 Technician Signature

E S

Monitoring W Sampling Form

EPS Project: Rheem Manufacturing **Date:** 6-22-2017

Well ID: MW-1 **Field Conditions:** Partly Cloudy, 90°F

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: Stickup **General Condition of Well:** Good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** Grass

Well depth from TOC: 44.0' **Depth to Water from TOC:** 21.93

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 22.07 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.53 gal **Three Well Volumes (gal):** 10.59

Purging Method: low flow, low volume **Time @ Start of Purge:** 1533

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 40 ft (BTOC) **Final Depth of Pump/Tubing:** 40 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1546	0.25	26.33	5.75	184	0.039	1.23	6.25	22.35	
1608	0.4	24.67	5.60	202	0.039	6.69	3.62	22.38	
1630	1.5	23.77	5.59	223	0.039	0.00	2.30	22.40	
1640	1.60	23.70	5.58	225	0.039	0.00	2.28	22.40	

Water Quality Meter (Make/Model/SN): Horiba # J9UVG5HM

Pump (Make/Model): Alexis Peristaltic Pump

collect D.O. downhole w/ YSI 550 A
~~#0561886~~ 12E102077
ANT

Sample ID: 17173-MW-1

Time Collected: 1645

Technician Signature

EPS

Monitoring W[illegible] Sampling Form

EPS Project: Rheem Manufacturing **Date:** 6-22-2017

Well ID: MW-5 **Field Conditions:** ~80 °F, overcast

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: Stick-up **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** grassed

Well depth from TOC: 86.50' **Depth to Water from TOC:** 22.66

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 63.84 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 10.21 gal **Three Well Volumes (gal):** 30.63 gal

Purging Method: low flow, low volume **Time @ Start of Purge:** 1050

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 80 **ft (BTOC)** **Final Depth of Pump/Tubing:** 80 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1208	0.20	22.71	8.99	21	0.218	70.6	3.60	24.93	
1218	0.30	26.34	9.11	15	0.224	11.5	0.64	25.21	
1232	0.45	25.87	9.13	15	0.225	10.2	0.34	25.62	
1242	0.55	26.26	9.13	16	0.225	8.25	0.32	25.01	

Water Quality Meter (Make/Model/SN): Horiba # J9UV6SHM

Pump (Make/Model): Alexis Peristaltic Pump

DO measurements collected downhole w/ YSI 550A #12E102077

Sample ID: 17173-MW-5

Time Collected: 1245

Technician Signature Alex

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing

Date: 6-22-2017

Well ID: MW-9

Field Conditions: ~80°F, overcast

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: Stick-up

General Condition of Well: good.

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y

Condition of surrounding area: pond land, wooded

Well depth from TOC: 45.0'

Depth to Water from TOC: 22.16

Well Diameter (in): 2"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 22.84 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.65 gal

Three Well Volumes (gal): 10.95

Purging Method: low flow, low volume

Time @ Start of Purge: 1142

Sample Method: direct/straw

Sample Parameters: VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 41 **ft (BTOC)** **Final Depth of Pump/Tubing:** 41 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1153	0.15	23.21	6.55	-99	0.372	18.9	0.24	22.43	
1206	0.50	22.73	6.58	-87	0.409	12.4	0.13	22.44	
1215	0.66	22.64	6.58	-90	0.416	11.6	0.16	22.44	
1225	0.85	22.60	6.58	-89	0.420	9.93	0.04	22.44	
1235	1.0	22.68	6.58	-90	0.422	8.55	0.00	22.44	

Water Quality Meter (Make/Model/SN): Horiba # XRTTH4VX

Pump (Make/Model): Alexis Peristaltic Pump

DO Measurements collected w/ YSI 550A (downhole) #05G1886

Sample ID: 17173-MW-9

Time Collected: 1240

Technician Signature: Alex Testoff

Monitoring W Sampling Form

EPS Project: Rheem Manufacturing **Date:** 6/22/17

Well ID: MW-48A **Field Conditions:** 85°F overcast

Sampling Performed By: A. Testoff, Brian Goldman

Well Construction: flush **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** asphalt

Well depth from TOC: 98.0' **Depth to Water from TOC:** 21.30

Well Diameter (in): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 76.70 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.07 **Three Well Volumes (gal):** 9.21

Purging Method: low flow, low volume **Time @ Start of Purge:** 1355

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 95 **ft (BTOC)** **Final Depth of Pump/Tubing:** 95 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1430	0.35	29.91	7.58	-99	0.460	33.0		23.18	
1445	0.50	29.69	7.38	-75	0.457	23.2		23.25	
1500	0.70	29.24	7.40	-70	0.460	17.8		23.36	
1515	0.95	29.35	7.38	-67	0.461	9.7	0.16	23.34	

Water Quality Meter (Make/Model/SN): Horiba # J9UV65HM

Pump (Make/Model): Alexis Peristaltic Pump

DO Collected downhole w/ YSI 550A # 12E102077

Sample ID: 17173-MW-48A

Time Collected: 1520

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 6-22-17

Well ID: MW-48B **Field Conditions:** 85°F, overcast

Sampling Performed By: A. Testoff, Brian Goldman

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:** 21.18

Well Diameter (In): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 50.82 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 2.03 gal **Three Well Volumes (gal):** 6.09

Purging Method: low flow, low volume **Time @ Start of Purge:** 1355

Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC

Initial Depth of Pump/Tubing: 68 ft (BTOC) **Final Depth of Pump/Tubing:** 68 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1427	0.25	29.40	6.50	137	0.346	9.0		22.20	
1434	0.40	28.79	6.25	131	0.353	5.07		22.22	
1446	0.55	28.82	6.24	127	0.348	4.35		22.22	
1455	0.75	29.01	6.24	122	0.345	2.22	0.42	22.23	

Water Quality Meter (Make/Model/SN): Horiba # XRTT84VK

Pump (Make/Model): Alexis Peristaltic Pump

DO collected downhole w/ YSI 550A
0561886

Sample ID: 17173-MW-48B

Time Collected: 1500

Technician Signature Alex Testoff

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 6-22-2017

Well ID: PZ-7 **Field Conditions:** ~70 °F, overcast
Sampling Performed By: A. Testoff, Brian Goldman
Well Construction: flush mount **General Condition of Well:** good
Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** parking lot
Well depth from TOC: 63.05 **Depth to Water from TOC:** 20.92
Well Diameter (in): 2" **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 42.08 ft.
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 6.73 gal **Three Well Volumes (gal):** 20.19
Purging Method: low flow, low volume **Time @ Start of Purge:** 1030
Sample Method: direct/straw **Sample Parameters:** VOCs, Ethene/Ethane/Methane, TOC
Initial Depth of Pump/Tubing: 60 ft (BTOC) **Final Depth of Pump/Tubing:** 60 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1042	0.15	26.61	6.21	-45	0.178	58.6	0.80	21.30	
1052	0.25	26.56	6.31	-90	0.337	27.3	0.70	21.32	
1102	0.40	26.71	6.46	-121	0.380	10.2	0.69	21.32	
1110	0.60	26.88	6.49	-124	0.393	5.5	0.69	21.32	
1120	0.80	26.92	6.50	-128	0.397	5.6	0.69	21.33	

Water Quality Meter (Make/Model/SN): Horiba # XRTTH4UK

Pump (Make/Model): Alexis Peristaltic Pump

DO measurements collected downhole w/ YSI 550A # 12E102077

Sample ID: 17173-PZ-7

Time Collected: 1125

Technician Signature

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-27-17 Technician: A.Testoff / J.Terry

Well ID: PTW-1 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): La Motte 2020e S/N or ID: ME12953

Water Level Meter: Solinst Time @ Start of Purging: 1318 Time @ End of Purging: 1735 Total Purging Time: 230 min.

Initial Depth of Pump or Intake Tubing: 45 ft. (BTOC) Final Depth of Pump or Intake Tubing: 45 ft. (BTOC) Screen Interval: ~~38.5~~ 33.5 ft to 48.5 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
1345	well went dry, Pulled tubing and depth to water was 40' BTOC, Stopped purge to allow well to recharge.					
1411	DTW 25.71' BTOC. Resume purge at very slow rate 1423 - had to increase pump rate to get water up the tubing - @ 1434 had to increase pump rate again and water now pumping out of well. Purge rate: 0.12 GPM					
1510	4.3	4.3	0.12	>1,000	-	color: brown
1600	6	10.3	0.12	>1,000	-	" " Flow increased to
1645	11.25	21.55	0.25	>1,000	-	0.25 GPM. w/out adjusting pump
1735	12.5	34.1	0.25	>1,000	-	(heavier sediments may have flushed out)
	Development completed					

Notes: well installed w/standard screen (no pre-pack). ~~P~~. Surged well prior to start of purge
Initial turbidity >1,000 color: gray

Final DTW: 21.09' BTOC
TD: 48.90' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-25-17 Technician: A.Testoff / J.Terry

Well ID: PTW-2 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME12953

Water Level Meter: Heron Time @ Start of Purging: 1450 Time @ End of Purging: 1700 on 7-27-17 Total Purging Time: 614 min.

Initial Depth of Pump or Intake Tubing: 40 ft. (BTOC) Final Depth of Pump or Intake Tubing: 45 ft. (BTOC) Screen Interval: ~~30~~ 33 ft to 48 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
1635	42	42	0.4	>1,000	—	color brown
1749	29.6	71.6	0.4	—	—	color: brown
1310	8.4	80	stopped development for the day			
7-26-17	Resume development @ 0720					purge rate: 0.7 GPM
0900	70	150	0.7	>1,000	—	color: brown/tan turbidity still
1004	45	195	0.7	>1,000	—	very high but looks much lighter
1032	19.6	214.6	stopped development while drillers work on wellpads.			than when started.
7-27-17	Resume development @ 1318 @ 0.5 GPm					
1410	26	240.6	0.5	>1,000	—	
1510	30	270.6	0.5	>1,000	—	
1600	25	295.6	0.5	>1,000	—	color: light brown
1645	22.5	318.1	0.5	>1,000	—	" "
1700	7.5	325.6	0.5	>1,000	Development complete.	

Notes: well installed w/standard screen (no pre-pack). Surged well prior to start of purge. initial turbidity >1,000 NTU

Final DTW: 21.84' BTOC

TD: 48.28' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-25-17 Technician: A.Testoff / J.Terry

Well ID: PTW-3 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): La Motte 2020e S/N or ID: ME13953

Water Level Meter: Heron Time @ Start of Purging: 1725 Time @ End of Purging: 1300 on 7-27-17 Total Purging Time: 245 min.

Initial Depth of Pump or Intake Tubing: 40 ft. (BTOC) Final Depth of Pump or Intake Tubing: 45 ft. (BTOC) Screen Interval: 34 ft to 49 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
1725	—	—	0.3	>1,000	20.2	color: brown
1910	13.5	13.5	Stopped development for the day.			
7-26-17		Resumed development @ 0723 purge rate 0.28 GPM				
0900	27.2	40.7	0.28	>1,000	—	
0913	3.6	44.3	Stopped development & pulled tubing so drillers can complete pad.			
* 7-27-17		Surged well several times before start of development				
1130	Resume development			>1,000	—	color: grayish Purge rate: 0.7 GPM
1220	35	79.3	0.7	>1,000	—	color: light brown
1300	28	107.3	0.7	>1,000	—	Development complete Stopped purge

Notes: Initial DTW: 20.20' BTOC. Well installed w/ standard screen (no pre-pack)
TD: 49.72' BTOC

Final DTW: 20.56' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-28-17 Technician: A.Testoff / J.Terry

Well ID: PTW-24 DT Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME12953

Water Level Meter: Heron Time @ Start of Purging: 0715 Time @ End of Purging: 1155 Total Purging Time: 280 min.

Initial Depth of Pump or Intake Tubing: 45 ft. (BTOC) Final Depth of Pump or Intake Tubing: 45 ft. (BTOC) Screen Interval: 35 ft to 50 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
0835	14.4	14.4	0.18	>1,000	–	initial purge rate: 0.18GPM. Turbidity
0916	8.2	22.6	0.2	>1,000	–	much less but still over 1,000 NTU. color:
0945	5.8	28.4	0.2	>1,000	–	light brown.
1045	12	40.4	0.2	>1,000	–	" "
1120	7	47.4	0.2	>1,000	–	" ". Turbidity is high but
1145	5	52.4	0.2	350	–	much clearer than when started. It also
1155	2	54.4	0.2	494	–	settles out quickly
	Development Complete					

Notes: Initial DTW: 24.25' BTOC. Well installed w/ pre-pack screen. Surged well before developing
initial turbidity >1,000 NTU color: grayish.

Final DTW: 21.19' BTOC
TD: 50.70' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-26-17 Technician: A.Testoff / J.Terry

Well ID: PTW-5 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME 12953

Water Level Meter: Heron Time @ Start of Purging: 1350 Time @ End of Purging: 1810 Total Purging Time: 260 min.

Initial Depth of Pump or Intake Tubing: 50 ft. (BTOC) Final Depth of Pump or Intake Tubing: 50 ft. (BTOC) Screen Interval: 40 ft to 55 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
1510	56	56	0.7	>1,000	-	initial turbidity >1,000 NTU color: reddish
1600	35	91	~~0.6~~ 0.7	>1,000	-	brown
1705	45.5	136.5	0.7	>1,000	-	
1810	45.5	182	0.7	>1,000		stopped development

Notes: Well installed w/pre-pack screen

Final DTW: 20.69' BTOC

Total Depth: 55.20' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-26-17 Technician: A.Testoff / J.Terry

Well ID: PTW-6 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME12953

Water Level Meter: Heron Time @ Start of Purging: 1353 Time @ End of Purging: 1810 Total Purging Time: 257 min.

Initial Depth of Pump or Intake Tubing: 50 ft. (BTOC) Final Depth of Pump or Intake Tubing: 50 ft. (BTOC) Screen Interval: 40 ft to 55 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
1510	46	46	0.6	>1,000	-	Initial turbidity >1,000 NTU color: reddish
1600	30	76	0.6	>1,000	-	brown
1705	39	115	0.6	>1,000	-	
1810	39	154		>1,000		stopped development

Notes: Well installed w/pre-pack screen

Final DTW: 20.98' BTOC

Total Depth: 55.45' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-27-17 Technician: A.Testoff / J.Terry

Well ID: PTW-7 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): LuMotte 2020e S/N or ID: ME12953

Water Level Meter: Heron Time @ Start of Purging: 0720 Time @ End of Purging: 1100 Total Purging Time: 220 min.

Initial Depth of Pump or Intake Tubing: 55 ft. (BTOC) Final Depth of Pump or Intake Tubing: 55 ft. (BTOC) Screen Interval: 44 ft to 59 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
0835	75	75	1	>1,000	-	color: brown
1035	120	195	1	>1,000	-	color: light brown
1100	25	220	1	495	-	color: light brown
	Stopped development @ 1100 Development complete					

Notes: Surge blocked well several times before development. well installed w/pre packed screen

Initial turbidity >1,000 color: gray

Final DTW: 21.15' BTOC

TD: 59.08' BTOC

Monitoring Well Development

Site: Rheem Location: Milledgeville, GA Date: 7-27-17 Technician: A.Testoff / J.Terry

Well ID: PTW-8 Development Method: Bailer ☐ Pump ☒ Type: Inertial

Pump (Make & Model): Waterra Hydrolift Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME12953

Water Level Meter: Heron Time @ Start of Purging: 0756 Time @ End of Purging: 1300 Total Purging Time: 304 min.

Initial Depth of Pump or Intake Tubing: 40 ft. (BTOC) Final Depth of Pump or Intake Tubing: 40 ft. (BTOC) Screen Interval: 30 ft to 45 ft (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Purge Rate (GPM)	Turbidity (NTU)	Depth to Water (ft) BTOC	Comments
0830	17	17	0.5	>1,000	-	color: brown
0943	36.5	53.5	0.5	>1,000	—	color: brown
1030	23.5	77	0.5	>1,000	—	color = light brown
1100	15	92	0.5	>1,000	—	color = dark brown
1200	AT ~~30~~ 37.5	129.5	0.75	>1,000	—	color = light brown
1300	45	175	0.75	>1,000	—	color = light brown

Notes: Well installed w/prepack screen.
Surged well prior to development. Initial turbidity >1,000NTU color: gray

Final DTW: 24.60' BTOC
total depth: 45.35' BTOC

EPS

Monitoring Well Sampling Form

EPS Project: Rheem

Date: 7-31-17

Well ID: PTW-1

Field Conditions: Clear, 85°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N (bolted)

Condition of surrounding area: Concrete driveway

Well depth from TOC: 48.90

Depth to Water from TOC: 20.15

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 28.75

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.2

Three Well Volumes (gal): 3.6

Purging Method: low flow / low stress

Time @ Start of Purge: 1200

Sample Method: direct / straw

Sample Parameters: VOCs, TOC, MEE, Microbe Count

purge rate: 0.03 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
1243	1.3	28.08	6.88	0.801	0.35	37.8	-283	20.48	Tubing at 45'
1300	1.8	27.68	6.79	0.811	0.35	19	-268	20.48	
1320	2.4	27.44	6.84	0.812	0.31	10.3	-259	20.48	
1330	2.7	27.36	6.81	0.811	0.3	6	-255	20.48	
									Down-hole DO value
									0.65 mg/L

down-hole DO meter: YSI 550A
S/N 05G1886

WQ Meter Make/Model/SN: Horiba U-53 W356GDT1

Pump Make/Model: Alexis peristaltic

Sample ID: 17212-PTW-1

Time Collected: 1335

Technician Signature Joe Terry

EPS

Monitoring Well Sampling Form

EPS Project: Rheem

Date: 8-1-17

Well ID: PTW-2

Field Conditions: Clear, 62°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: Flush Mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N (bolted)

Condition of surrounding area: unimproved surface

Well depth from TOC: 48.28

Depth to Water from TOC: 19.64

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 28.64

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.1

Three Well Volumes (gal): 3.3

Purging Method: low flow / low stress

Time @ Start of Purge: 0705

Sample Method: direct / straw

Sample Parameters: VOCs, TOC, MEE, Microbe Count

Purge rate: 0.03 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0735	0.9	22.02	6.31	0.437	0.49	163	-378	19.90	Tubing at 41'
0745	1.2	22.03	6.41	0.378	0.41	159	-341	19.90	
0808	1.9	22.38	6.43	0.374	0.44	135	-320	19.90	
0835	2.7	23.21	6.43	0.376	0.58	110	-287	19.90	
0846	3	23.62	6.44	0.372	0.33	100	-289	19.90	
0855	3.3	23.64	6.43	0.382	0.41	95	-265	19.90	
0912	3.8	23.96	6.43	0.381	0.26	100	-273	19.90	
0935	4.5	24.28	6.41	0.374	0.38	95	-256	19.90	
0950	5	24.62	6.42	0.376	0.42	88	-245	19.90	
1040	6.5	25.24	6.38	0.375	0.45	85	-246	19.90	Down-hole DO value:
									0.72 mg/L

WQ Meter Make/Model/SN: Horiba U-53 W3J6GDTI

Pump Make/Model: Alexis peristaltic

down-hole DO meter: YSI 550A
S/N 05G1886

Sample ID: 17213-PTW-2

Time Collected: 1045

Technician Signature Joe Terry

EPS

Monitoring Well Sampling Form

EPS Project: Rheem

Date: 8-1-17

Well ID: PTW-3

Field Conditions: Clear, 62°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: Y

Well Cap: Y

Well Locked: N (bolted)

Condition of surrounding area: concrete driveway

Well depth from TOC: 49.72

Depth to Water from TOC: 19.80

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 29.92

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.2

Three Well Volumes (gal): 3.6

Purging Method: low flow / low stress

Time @ Start of Purge: 0705

Sample Method: direct / straw

Sample Parameters: VOCs, TOC, MEE, Microbe Count

Purge rate: 0.03 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0735	0.9	20.35	6.39	0.569	1.74	20.9	-211	20.02	Tubing at 42'
0745	1.2	20.61	6.39	0.574	1.44	10.3	-203	20.02	
0810	1.95	20.94	6.40	0.586	1.23	7.4	-196	20.02	
0820	2.25	21.08	6.40	0.591	1.18	6.7	-195	20.02	
0830	2.6	21.35	6.40	0.596	1.15	5.5	-193	20.02	Down-hole DO value:
									1.12 mg/L

WQ Meter Make/Model/SN: Horiba U-53 J9UV6SHM

Pump Make/Model: Alexis peristaltic

down-hole DO meter: YSI 550A
S/N 05G1886

Sample ID: 17213-PTW-3

Time Collected: 0835

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem **Date:** 7-31-17

Well ID: PTW-4 **Field Conditions:** Clear, 85°F
Sampling Performed By: Alex Testoff, Joe Terry
Well Construction: Flush mount **General Condition of Well:** good
Well Labeled: Y **Well Cap:** Y **Well Locked:** N (bolted **Condition of surrounding area:** concrete, inside building
Well depth from TOC: 50.20 **Depth to Water from TOC:** 20.20
Well Diameter (in): 1 **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 30
Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.2 **Three Well Volumes (gal):** 3.6
Purging Method: low flow / low stress **Time @ Start of Purge:** 1215
Sample Method: direct / straw **Sample Parameters:** VOCs, TOC, MEE, Microbe Count
purge rate: 0.03 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
1242	0.8	22.68	6.39	0.812	1.75	42.7	-216	20.50	
1300	1.3	22.70	6.39	0.777	1.61	32.5	-226	20.50	
1320	1.9	22.67	6.41	0.703	1.29	25.7	-246	20.50	
1340	2.5	22.59	6.41	0.668	1.12	9.1	-249	20.50	
		~~24.50~~	~~6.63~~	~~0.0~~				~~20.50~~	
1358	3.1	22.68	6.41	0.647	1.04	8.9	-250	20.50	
1408	3.4	22.64	6.41	0.644	1.02	7.6	-252		down-hole DO reading
									1.02 mg/L

WQ Meter Make/Model/SN: Horiba U-53 J9UV65HM

Pump Make/Model: Alexis peristaltic

down-hole DO meter: YSI 550A
S/N 05G 1886

Sample ID: 17212-PTW-4

Time Collected: 1415

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem

Date: 7-31-17

Well ID: PTW-5

Field Conditions: Clear, 65°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N (bolted)

Condition of surrounding area: asphalt parking lot

Well depth from TOC: 55.20

Depth to Water from TOC: 20.45

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 34.75'

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.4

Three Well Volumes (gal): 4.2

Purging Method: low flow / low stress

Time @ Start of Purge: 0800

Sample Method: direct / straw

Sample Parameters: VOCs, TOC, MEE, Microbe Count

Purge rate: 0.05 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0835	1.75	23.27	6.54	0.771	0.34	22.8	-89	20.69	Tubing placed at 48'
0906	3.3	23.83	6.53	0.765	0.36	15.1	-103	20.70	
0915	3.75	23.94	6.51	0.768	0.42	18.9	-105	20.70	
0930	4.5	24.35	6.52	0.763	0.45	18.6	-107	20.70	
0947	5.4	24.61	6.55	0.766	0.43	11.1	-107	20.70	
1005	6.3	24.84	6.52	0.764	~~2.75~~ 0.68 JT 7/31/17	8.71	-108	20.70	DO Meter: YSI 550A

JT 7-31-17

WQ Meter Make/Model/SN: Horiba U-53 ~~W3J6GDTF~~ JUDTN8L8

DO measurement collected w/down-hole YSI 550A S/N 05G1886

Pump Make/Model: Geotech Geopump

Sample ID: 17212-PTW-5

Time Collected: 1011

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem

Date: 7-31-17

Well ID: PTW-6

Field Conditions: Clear, 65°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N (bolted

Condition of surrounding area: asphalt parking lot

Well depth from TOC: 55.45

Depth to Water from TOC: 20.67

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 34.78

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.4

Three Well Volumes (gal): 4.2

Purging Method: low flow / low stress

Time @ Start of Purge: 0800

Sample Method: direct / straw

Sample Parameters: VOCs, TOC, MEE, Microbe Count

Purge rate: 0.06 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0850	3	26.09	6.42	0.849	0.68	49.9	-193	20.99	Tubing placed at 48'
0908	4.1	26.31	6.45	0.840	0.72	16.3	-188	21.00	
0920	4.8	26.51	6.48	0.831	0.65	15.5	-181	21.00	
0930	5.4	26.81	6.49	0.826	0.73	11.9	-176	21.00	
0947	6.4	26.89	6.51	0.811	0.75	8.9	-183	21.00	Final DO measurement w/ downhole probe

DO measurement collected w/down-hole YSI 550A S/N 05G1886

WQ Meter Make/Model/SN: Horiba U-53 W3J6GDT1

Pump Make/Model: Geotech Geopump

Sample ID: 17212-PTW-6

Time Collected: 0955

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem **Date:** 7-31-17

Well ID: PTW-7 **Field Conditions:** clear, 65°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: flush mount **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** asphalt parking lot

Well depth from TOC: 59.08 **Depth to Water from TOC:** 20.50

Well Diameter (in): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 3858 ft

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.54 **Three Well Volumes (gal):** 4.62

Purging Method: low flow / low stress **Time @ Start of Purge:** 0815

Sample Method: direct / straw **Sample Parameters:** VOCs, TOC, MEE, Microbe Count

Purge rate: 0.03 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0852	1.1	24.10	6.65	0.365	1.28	9.9	-319	20.63	Tubing placed at 52' BTOC
0904	1.5	24.65	6.70	0.387	1.39	12.6	-275	20.65	
0914	1.9	24.57	6.69	0.396	1.37	11.8	-269	20.65	
0925	2.2	24.72	6.69	0.403	1.40	8.9	-269	20.66	
0934	2.5	24.84	6.69	0.407	1.52	7.5	-265	20.66	Final DO measurement taken w/down-hole probe

WQ Meter Make/Model/SN: Horiba U-53 J9UV65HM

Pump Make/Model: Alexis peristaltic

DO measurement collected downhole w/ YSI 550A #

Sample ID: 17212-PTW-7

Time Collected: 0935

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem

Date: 7-31-17

Well ID: PTW-8

Field Conditions: Clear, 85°F

Sampling Performed By: Alex Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N (bolted)

Condition of surrounding area: unimproved surface

Well depth from TOC: 45.35

Depth to Water from TOC: 19.69

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 25.66

Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1

Three Well Volumes (gal): 3

Purging Method: low flow / low stress

Time @ Start of Purge: 1209

Sample Method: direct / straw

Sample Parameters: VOCs, TOC, MEE, Microbe Count

Purge rate: 0.03 GPM

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
1245	1.1	24.62	6.71	0.212	0.63	153	-390	19.94	Tubing at 45'
1302	1.6	24.46	6.72	0.210	0.49	73.1	-374	19.95	
1322	2.2	24.03	6.60	0.204	1.83	40.4	-304	19.95	
1343	2.8	24.08	6.59	0.203	1.62	12.2	-270	19.95	
1353	3.1	24.50	6.63	0.202	0.14	9.7	-245	19.95	
~~1403~~	~~3.4~~	~~22~~ [illegible]							Down-hole DO value
									0.62 mg/L

WQ Meter Make/Model/SN: Horiba U-53 JUDTN8L8

Downhole DO meter: YSI 550A S/N 05G1886

Pump Make/Model: Alexis peristaltic

Sample ID: 17212-PTW-8

Time Collected: 1355

Technician Signature Joe Terry

Monitoring W Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/23/2017

Well ID: Mw-33

Field Conditions:

Sampling Performed By: A. Testoff, Joe Terry

General Condition of Well: good

Well Construction: flush mount

Condition of surrounding area: grass/dirt

Well Labeled: N **Well Cap:** Y **Well Locked:** N

Depth to Water from TOC: 29.52

Well depth from TOC: 157.0'

Method of measure: Water Level Meter

Well Diameter (in): 2"

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]:

Three Well Volumes (gal):

Purging Method: low flow, low volume

Time @ Start of Purge: 1325

Sample Method: direct/straw

Sample Parameters: VOCs

Initial Depth of Pump/Tubing: ~~175~~ 145 **ft (BTOC)** **Final Depth of Pump/Tubing:** 145 **ft (BTOC)** screened interval 137-157

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1335	0.1	23.96	7.89	-140	0.312	1.9	4.61	31.55	purge ~0.04 gpm
1345	0.3	25.70	7.89	-133	0.314	1.3	4.84	35.60	
1355	0.6	25.43	7.87	-127	0.314	3.3	4.68	37.88	
1405	1.0	23.97	~~7.85~~	-129	0.320	2.6	4.64	39.96	
			7.85						

Water Quality Meter (Make/Model/SN): Horiba # 2KUV0HXM

Pump (Make/Model): ~~Alexa Peristaltic Pump~~ Solinst 408 pneumatic pump

Sample ID: 17235-MW-33

Time Collected: 1410

Technician Signature Alex

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing

Date: 8/23/2017

Well ID: MW-34

Field Conditions:

Sampling Performed By: A. Testoff, Joe Terry

General Condition of Well:

Well Construction: flush mount

Condition of surrounding area:

Well Labeled: N **Well Cap:** Y **Well Locked:** Y

Depth to Water from TOC: 1.69

Well depth from TOC: ~~Aug 2~~ 182.0

Method of measure: Water Level Meter

Well Diameter (in): 2"

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 180.31 ft

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]**:** 28.85 gal

Three Well Volumes (gal): 86.55

Time @ Start of Purge: 1125

Purging Method: low flow, low volume

Sample Parameters: VOCs

Sample Method: direct/straw

Initial Depth of Pump/Tubing: 175 **ft (BTOC)** **Final Depth of Pump/Tubing:** 176 **ft (BTOC)**

screened interval 172-182 ft-bgs

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1135	0.2	28.14	6.70	115	0.211	0.0	0.42	1.99	purge ~0.02 gpm
1145	0.4	28.05	6.69	125	0.206	0.0	0.35	2.01	
1155	0.6	26.05	6.67	125	0.212	0.0	0.12	2.00	
1205	0.8	25.97	6.65	127	0.211	0.0	0.00	2.01	

Water Quality Meter (Make/Model/SN): Horiba # 2KUU9HXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17235-MW-34

Time Collected: 1210

Technician Signature: Alex Testoff

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing

Date: 8-23-17

Well ID: MW-35

Field Conditions: clear, 76°F

Sampling Performed By: A. Testoff, Joe Terry

General Condition of Well: poor (bolt holes knocked out)

Well Construction: Flush mount

Condition of surrounding area: unimproved surface

Well Labeled: N **Well Cap:** Y **Well Locked:** N

Depth to Water from TOC: 0.6

Well depth from TOC: 107

Method of measure: Water Level Meter

Well Diameter (in): 2

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 106.4

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 17

Three Well Volumes (gal): 51

Purging Method: low flow, low volume

Time @ Start of Purge: 0805

Sample Method: direct/straw

Sample Parameters: VOCs

Initial Depth of Pump/Tubing: 97 **ft (BTOC)** **Final Depth of Pump/Tubing:** 97 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0825	0.6	22.43	7.23	-102	0.387	39	1.71	3.78	purge rate: 0.03GPM
0838	1	21.76	7.51	-161	0.351	26	0.87	6.29	reduced purge rate
0852	1.3	21.14	7.51	-161	0.348	10.8	0.81	8.04	to 0.02GPM.
0902	1.5	21.36	7.49	-159	0.341	9.7	0.73	8.70	
0910	1.7	21.59	7.44	-154	0.336	8.4	0.7	9.20	Reduced purge rate to
0920	1.8	21.74	7.43	-154	0.334	8.9	0.69	10.06	0.015GPM.
0930	1.9	21.85	7.44	-155	0.334	9.1	0.68	10.40	
0935	2	21.92	7.47	-157	0.335	8.7	0.69	10.75	
0945	2.1	22.08	7.48	-158	0.334	8.5	0.69	11.28	
0950	2.2	22.30	7.49	-159	0.334	8.6	0.69	11.50	
1000	2.3	22.38	7.50	-160	0.333	9.5	0.69	11.75	
1005	2.4	22.52	7.49	-159	0.332	9.2	0.71	12.00	
1015	2.5	22.69	7.51	-160	0.332	9.3	0.72	12.45	Reduced purge to 0.01GPM
1020	2.6	23.02	7.53	-162	0.330	9.1	0.72	12.54	
1035	2.8	23.06	7.52	-161	0.330	8.9	0.73	12.56	
1045	2.9	23.08	7.52	-162	0.330	9	0.74	12.58	

Water Quality Meter (Make/Model/SN): Horiba U-52 TAL4NHVD

Pump (Make/Model): Alexis pp

Sample ID: 17235-MW-35

Time Collected: 1050

Technician Signature: Joe Terry

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing
Date: 8/23/2017

Well ID: MW-36
Field Conditions: ~75°F, partly cloudy
Sampling Performed By: A. Testoff, Joe Terry
General Condition of Well: broken pad
Well Construction: flush mount
Condition of surrounding area: grass
Well Labeled: N
Well Cap: Y
Well Locked: Y
Depth to Water from TOC: 4.24
Well depth from TOC: 62.0
Method of measure: Water Level Meter
Well Diameter (in): 2"
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): ANT ~~57.96~~ 57.76 ft
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 9.24 gal
Three Well Volumes (gal): 27.72
Time @ Start of Purge: 0800
Purging Method: low flow, low volume
Sample Parameters: VOCs
Sample Method: direct/straw
Initial Depth of Pump/Tubing: 57 ft (BTOC)
Final Depth of Pump/Tubing: 57 ft (BTOC)

screened interval 52-62 ft-bgs

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0820	0.4	23.29	6.80	-72	0.410	1.0	0.67	4.99	purge ~0.02 gpm
0830	0.6	23.12	6.79	-61	0.411	0.6	0.38	5.01	
0840	0.8	23.14	6.76	-24	0.418	1.2	0.00	5.01	
0850	1.0	23.19	6.79	-6	0.419	1.3	0.00	5.01	

Water Quality Meter (Make/Model/SN): Horiba # 2K00ØHXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17235-MW-36

Time Collected: 0855

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing

Date: 8-23-17

Well ID: MW-43

Field Conditions: clear, 90°F

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: N **Well Cap:** Y **Well Locked:** N

Condition of surrounding area: unimproved surface

Well depth from TOC: 107

Depth to Water from TOC: 26.09

Well Diameter (in): 2

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 80.91

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 13

Three Well Volumes (gal): 39

Purging Method: low flow, low volume

Time @ Start of Purge: 1240

Sample Method: direct/straw

Sample Parameters: VOCs

Initial Depth of Pump/Tubing: 102 **ft (BTOC)** **Final Depth of Pump/Tubing:** 102 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1255	0.15	31.51	6.67	62	0.195	39	3.8	26.22	Purge rate: 0.01 GPM
1330	0.5	31.14	6.78	35	0.281	2.2	0.7	26.22	
1350	0.7	30.88	6.68	36	0.284	2.1	0.63	26.22	
1400	0.8	30.91	6.68	38	0.284	1.9	0.54	26.22	
1420	1	30.93	6.73	35	0.284	1.6	0.57	26.22	

Water Quality Meter (Make/Model/SN): Horiba U-52 TA24NHVO

Pump (Make/Model): Alexis PP

Sample ID: 17235-MW-43

Time Collected: 1425

Technician Signature: Joe Terry

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing

Date: 8/23/2017

Well ID: MW-44

Field Conditions: ~85°F, partly cloudy

Sampling Performed By: A. Testoff, Joe Terry

Well Construction:

General Condition of Well: good

Well Labeled: N **Well Cap:** Y **Well Locked:** Y

Condition of surrounding area: grass

Well depth from TOC: 75.0

Depth to Water from TOC: 7.63

Well Diameter (in): 2"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 67.37 ft

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 10.78 gal

Three Well Volumes (gal): 32.34

Purging Method: low flow, low volume

Time @ Start of Purge: 0920

Sample Method: direct/straw

Sample Parameters: VOCs

Initial Depth of Pump/Tubing: 70 ft (BTOC) **Final Depth of Pump/Tubing:** 70 ft (BTOC)

screened interval: 65-75 ft bgs

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0931	~~23.2~~ 0.2	23.20	6.74	113	0.185	0.4	0.98	7.97	purge ~0.02 gpm
0940	0.4	23.71	6.74	121	0.183	0.0	0.83	7.99	
0950	0.6	23.85	6.75	123	0.182	0.0	0.74	7.99	
1000	0.8	23.91	6.76	124	0.182	0.0	0.67	8.01	

Water Quality Meter (Make/Model/SN): Horiba # 2K0U0HXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17235-MW-44 Time Collected: 1005 Technician Signature

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing

Date: 8/22/17

Well ID: MW-45

Field Conditions: ~95°F, partly cloudy

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: flush mount

General Condition of Well: good

Well Labeled: N **Well Cap:** Y **Well Locked:** Y

Condition of surrounding area: grass

Well depth from TOC: 95.0

Depth to Water from TOC: 22.87

Well Diameter (in): 2"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 72.13

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 11.54

Three Well Volumes (gal): 34.62

Purging Method: low flow, low volume

Time @ Start of Purge: 1350

Sample Method: direct/straw

Sample Parameters: VOCs

Initial Depth of Pump/Tubing: 90 ft (BTOC) **Final Depth of Pump/Tubing:** 90 ft (BTOC)

screened interval 85-95 ft-bgs

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1400	0.3	27.08	6.80	143	0.108	0.0	7.29	24.00	purge ~0.03 gpm
1410	0.6	26.75	6.88	130	0.106	0.0	6.24	24.01	
1420	0.9	26.91	6.90	131	0.105	0.0	5.72	24.07	
1430	1.2	28.72	6.91	133	0.105	0.0	4.94	24.09	

Water Quality Meter (Make/Model/SN): Horiba 2KUU0HXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17234-MW-45
17234-DUP

Time Collected: 1435

Technician Signature

EPS

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8-23-17

Well ID: MW-46
Field Conditions: Clear, 89°F
Sampling Performed By: A. Testoff, Joe Terry
Well Construction: Flush mount
General Condition of Well: good
Well Labeled: N **Well Cap:** Y **Well Locked:** N
Condition of surrounding area: unimproved surface
Well depth from TOC: 52.82
Depth to Water from TOC: 2.89
Well Diameter (in): 2
Method of measure: Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 49.93
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 8
Three Well Volumes (gal): 24
Purging Method: low flow, low volume
Time @ Start of Purge: 1115
Sample Method: direct/straw
Sample Parameters:
Initial Depth of Pump/Tubing: 42 **ft (BTOC)** **Final Depth of Pump/Tubing:** 42 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1125	0.7	20.98	6.83	86	0.269	0	1.28	3.55	Purge rate: 0.07GPM
1139	1.7	21.00	6.85	87	0.268	0	1.18	3.55	
1145	2.1	21.14	6.88	90	0.265	0	1.05	3.55	
1155	2.8	21.18	6.88	91	0.266	0	1.03	3.55	

Water Quality Meter (Make/Model/SN): Horiba U-52 TAL4NHVO

Pump (Make/Model): Alexis PP

Sample ID: 17235-MW-46

Time Collected: 1200

Technician Signature Joe T

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/23/2017

Well ID: MW-47 **Field Conditions:** ~95 °F, partly cloudy

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: stick-up **General Condition of Well:** good

Well Labeled: N **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** grass

Well depth from TOC: 96.94 ft-bgs **Depth to Water from TOC:** 5.56

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 91.38 ft

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 14.62 **Three Well Volumes (gal):** 43.86

Purging Method: low flow, low volume **Time @ Start of Purge:** 1030

Sample Method: direct/straw **Sample Parameters:** VOCs

Initial Depth of Pump/Tubing: 82 **ft (BTOC)** **Final Depth of Pump/Tubing:** 82 **ft (BTOC)**

screened interval 77-97 ft-bgs

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1042	0.3	25.66	7.35	97	0.241	0.0	0.64	5.72	purge ~0.03 gpm
1055	0.6	25.08	7.35	71	0.249	0.0	0.00	5.73	
1105	0.9	25.05	7.34	64	0.249	0.0	0.00	5.73	
1115	1.2	25.06	7.35	62	0.249	0.0	0.00	5.74	

Water Quality Meter (Make/Model/SN): Horiba #2KUU0HXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17235-MW-47 Time Collected: 1120 Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/22/17

Well ID: MW-54 **Field Conditions:** ~85°F, partly cloudy
Sampling Performed By: A. Testoff, Joe Terry
Well Construction: flush mount **General Condition of Well:** good
Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** grass
Well depth from TOC: 140.0 **Depth to Water from TOC:** 16.67
Well Diameter (in): 2" **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 123.33
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 19.73 **Three Well Volumes (gal):** 59.20
Purging Method: low flow, low volume **Time @ Start of Purge:** 1515
Sample Method: direct/straw **Sample Parameters:** VOCs
Initial Depth of Pump/Tubing: 135 ft (BTOC) **Final Depth of Pump/Tubing:** 135 ft (BTOC)
Screen interval 130-140

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1530	0.3	25.92	7.89	-166	0.253	0.0	0.71	18.49	purge ~0.02 gpm
1540	0.5	25.91	7.78	-148	0.252	0.0	0.41	18.90	
1550	0.7	25.84	7.74	-145	0.255	0.0	0.27	18.96	
1600	1.0	25.53	7.70	-140	6.256	0.0	0.13	19.00	

Water Quality Meter (Make/Model/SN): Horiba 2K00Ø HXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17234-MW-54 ~~17234-MW-55~~ ENF

Time Collected: 1605

Technician Signature: Alex Testoff

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing

Date: 8-29-17

Well ID: PTW-1

Field Conditions: p.cloudy, 69°F

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N

Condition of surrounding area: Concrete driveway

Well depth from TOC: 48.90

Depth to Water from TOC: 19.59

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 29.31

Volume of water in well (Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 1.2

Three Well Volumes (gal): 3.6

Purging Method: low flow, low volume

Time @ Start of Purge: 0715

Sample Method: direct/straw

Sample Parameters: VOCs, MEE, TOC, Microbes

Initial Depth of Pump/Tubing: 42 ft (BTOC) **Final Depth of Pump/Tubing:** 42 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0750	0.7	20.87	6.37	-48	0.383	46.9	0.47	19.84	Purge rate 0.02GPM
0820	1.3	20.87	6.32	-47	0.403	36.2	0.38	19.84	
0835	1.6	20.92	6.28	-44	0.438	20.7	0.19	19.84	
0850	1.9	21.06	6.31	-43	0.456	17.1	0.16	19.84	
0910	2.3	21.16	6.37	-44	0.461	13.4	0.11	19.84	
0925		21.39	6.43	-45	0.464	9.33	0.09		

Water Quality Meter (Make/Model/SN): Horiba U-52 TAL4NHVO

Pump (Make/Model): Alexis pp

Sample ID: 17241-PTW-1

Time Collected: 0930

Technician Signature

Monitoring W[illegible] Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8-29-17

Well ID: PTW-2

Field Conditions: p. cloudy, 69°F

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: Flush Mount

General Condition of Well: good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N

Condition of surrounding area: unimproved surface

Well depth from TOC: 48.28

Depth to Water from TOC: 19.30

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 28.98

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 1.2

Three Well Volumes (gal): 3.6

Purging Method: low flow, low volume

Time @ Start of Purge: 0715

Sample Method: direct/straw

Sample Parameters:

Initial Depth of Pump/Tubing: 41 **ft (BTOC)** **Final Depth of Pump/Tubing:** 41 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
7:30	0.5	23.92	6.57	-98	.228	35.5	1.48		purge rate 0.03gpm
7:40	0.8	23.90	6.52	-114	0.225	37.9	0.39		
7:50	1.1	23.70	6.49	-110	0.220	39.1	0.05		
8:17	1.91	23.49	6.44	-107	0.215	35.9	0.00		
8:35	2.45	23.55	6.42	-106	0.213	32.0	0		
8:50	2.9	23.65	6.41	-107	0.211	22.2	0		
9:10	3.5	23.82	6.40	-106	0.211	18.5	0		
9:30	4.1	24.05	6.41	-107	0.208	14.6	0		
0950	4.7	24.04	6.40	-108	0.205	9.57			

Water Quality Meter (Make/Model/SN): Horiba # 2KUU0HXM

Pump (Make/Model): Alexis PP

Sample ID: 17241-PTW-2

Time Collected: 0955

Technician Signature

Monitoring We[illegible]ampling Form

EPS Project: Rheem Manufacturing **Date:** 8/29/17

Well ID: PTW-3 **Field Conditions:** ~ 75 °F, overcast
Sampling Performed By: A. Testoff, Joe Terry
Well Construction: flush mount **General Condition of Well:** good
Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** concrete
Well depth from TOC: 49.72 **Depth to Water from TOC:** 19.33
Well Diameter (in): 1" **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 30.39 ft
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 1.22 gal **Three Well Volumes (gal):** 3.65 gal
Purging Method: low flow, low volume **Time @ Start of Purge:** 1035
Sample Method: direct/straw **Sample Parameters:** VOCs, methane/ethane/ethene
Initial Depth of Pump/Tubing: 45 **ft (BTOC)** **Final Depth of Pump/Tubing:** 45 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1053	0.55	22.68	6.50	-80	0.942	51.6	0.90		purge ~0.05 gpm
1125	1.5	22.68	6.49	-92	0.953	26.2	0.35	19.60	
1207		23.13	6.51	-95	0.946	17.2	0.38	1960	
1226		23.54	6.51	-94	0.937	16.2	0.39	19.60	
1252		23.87	6.49	-92	0.932	15.5	0.39	19.60	
1300									

Water Quality Meter (Make/Model/SN): Horiba # TAL4NHVQ
Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17241-PTW-3 Time Collected: 1305 Technician Signature

Monitoring We ampling Form

EPS Project: Rheem Manufacturing **Date:** 8-29-17

Well ID: PTW-4 **Field Conditions:** p. cloudy, 69°F

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: flush mount **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** concrete slab

Well depth from TOC: 50.20 **Depth to Water from TOC:** 19.64

Well Diameter (in): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 30.56 ft

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 1.22 gal **Three Well Volumes (gal):** 3.67

Purging Method: low flow, low volume **Time @ Start of Purge:** 0715

Sample Method: direct/straw **Sample Parameters:** VOCs, methane/ethane/ethene, TOC

Initial Depth of Pump/Tubing: 45 **ft (BTOC)** **Final Depth of Pump/Tubing:** 45 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
0735	0.60	20.81	6.33	-1	0.816	21.2	3.44	19.87	Purge ~0.03 gpm
0750	1.05	20.63	6.33	-12	0.790	17.3	2.42	19.87	
0800	1.35	20.64	6.85	-17	0.753	34.6	1.46	19.87	
0820	1.95	20.83	6.37	-34	0.665	25.2	0.94	19.87	
0840	2.55	20.76	6.34	-38	0.653	1.19	0.68	19.87	
0850	2.85	20.98	6.25	-54	0.642	0.95	0.37	19.88	
0900	3.15	20.98	6.27	-55	0.640	0.00	0.39	19.88	

Water Quality Meter (Make/Model/SN): Horiba # S4JVCNUL

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17241-PTW-4 Time Collected: 0905 Technician Signature

Monitoring Well Sampling Form

EPS Project: Rheem
Date: 8-28-17

Well ID: PTW-5
Field Conditions: Clear, 69°F, NE 0-5mph
Sampling Performed By: Alex Testoff, Joe Terry
Well Construction: Flush Mount
General Condition of Well: good
Well Labeled: Y **Well Cap:** Y **Well Locked:** N
Condition of surrounding area: asphalt parking lot
Well depth from TOC: 55.20
Depth to Water from TOC: 19.92
Well Diameter (in): 1
Method of measure: Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 35.28
Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.4
Three Well Volumes (gal): 4.2
Purging Method: low flow
Time @ Start of Purge: 0810
Sample Method: direct / straw
Sample Parameters: VOCs, TOC, MEE, Microbe Count

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0845	1.0	25.21	6.74	1.43	5.85	34.8	-95	20.18	Depth of tubing 48ft
0855	1.3	25.76	6.82	1.40	0.45	30.3	-92	20.19	Purge rate: 0.03 GPM
0917	2	25.85	6.81	1.40	0.36	31.2	-88	20.19	
0930	2.5	26.09	6.78	1.39	0.00	19.2	-81	20.19	
0945	3	26.48	6.81	1.42	0.79	13.1	-80	20.19	
0955	3.3	26.68	6.80	1.40	0.00	9.17	-80	20.19	

WQ Meter Make/Model/SN: Horiba U-52 2KUU0HXM

Pump Make/Model: Alexis PP

Sample ID: 17240-PTW-5

Time Collected: 1000

Technician Signature: Alex Testoff

EPS

Monitoring Well Sampling Form

EPS Project: Rheem **Date:** 8/28/17

Well ID: PTW-6
Field Conditions: ~70 °F, partly cloudy
Sampling Performed By: Alex Testoff, Joe 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: 55.45
Depth to Water from TOC: 20.15
Well Diameter (in): 1"
Method of measure: Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 35.30 ft
Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.41 gal ~~5.65 gal~~
Three Well Volumes (gal): ~~30~~ ~~16.94~~ 4.24
Purging Method: low flow, minimum volume
Time @ Start of Purge: 0810
Sample Method: direct / straw
Sample Parameters: VOCs, TOC, MEE, Microbe Count

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0820	0.2	22.80	6.27	0.318	2.16	26.8	-108	20.30	purge ~0.02 gpm
0840	0.6	22.24	6.42	0.553	1.30	23.1	-125	20.30	
0850	0.8	22.02	6.46	0.564	0.78	18.5	-110	20.30	
0905	1.05	22.16	6.41	0.563	0.71	14.4	-111	20.30	
0925	1.45	22.38	6.40	0.566	0.66	12.3	-101	20.30	
0935	1.65	22.57	6.38	0.566	0.65	8.1	-97		

WQ Meter Make/Model/SN: Horiba SYJVCNUL

Pump Make/Model: Alexis Peristaltic Pump

Sample ID: 17240-PTW-6

Time Collected: 0940

Technician Signature: Alex Testoff

EPS

Monitoring Well Sampling Form

EPS Project: Rheem **Date:** 8-28-17

Well ID: PTW-7 **Field Conditions:** Clear, 69°F, NE 0-5mph
Sampling Performed By: Alex Testoff, Joe Terry
Well Construction: Flush Mount **General Condition of Well:**
Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:**
Well depth from TOC: 59.08 **Depth to Water from TOC:** 19.95
Well Diameter (in): 1 **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 39.13
Volume of water in well (Ht. x (0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6"): 1.6 **Three Well Volumes (gal):** 4.8
Purging Method: low flow **Time @ Start of Purge:** 0815
Sample Method: direct / straw **Sample Parameters:** VOCs, TOC, MEE, Microbe Count

Time	Volume (gal)	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft, BTOC)	Comments
0854	1.2	22.46	6.01	0.389	1.02	9.1	-12	20.03	Depth of tubing: 52ft
0904	1.5	22.84	6.18	0.379	0.67	2.8	-25	20.03	Purge rate: 0.03 GPM
0915	1.8	23.05	6.33	0.376	0.58	0.8	-36	20.03	
0920	2	23.15	6.38	0.375	0.52	0	-39	20.03	
0930	2.3	23.26	6.42	0.376	0.5	0	-42	20.03	
0940	2.6	23.63	6.47	0.380	0.46	0	-47	20.03	
0950	2.9	24.35	6.50	0.381	0.37	0	-53	20.03	
1000	3.2	24.24	6.50	0.383	0.36	0	-53	20.03	

WQ Meter Make/Model/SN: Horiba U-52 TAL4NHVD

Pump Make/Model: Alexis PP

Sample ID: 17240-PTW-7 Time Collected: 1005 Technician Signature Joe Terry

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing

Date: 8-29-17

Well ID: PTW-8

Field Conditions: p. cloudy, 76°F

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: Flush Mount

General Condition of Well: good

Well Labeled: Y

Well Cap: Y

Well Locked: N

Condition of surrounding area: unimproved surface

Well depth from TOC: 45.35

Depth to Water from TOC: 19.12

Well Diameter (in): 1

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 26.23

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 1.05

Three Well Volumes (gal): 3.15

Purging Method: low flow, low volume

Time @ Start of Purge: 1043

Sample Method: direct/straw

Sample Parameters: VOCs, MEE, TOC

Initial Depth of Pump/Tubing: 39 **ft (BTOC)**

Final Depth of Pump/Tubing: 38 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1055	0.4	24.73	6.59	-170	0.205	3.9	0.09		purge ~0.03 gpm
1130	1.5	24.70	6.60	-190	0.199	220	0.04	19.34	
1208	2.60	25.31	6.59	-214	0.191	81.6	0.00	19.34	
1228	3.2	25.39	6.57	-233	0.187	54.1	0.00	19.35	
1253	4.0	25.33	6.56	-365	0.185	40.9	0.00	19.35	
13:15	4.6	25.83	6.56	-418	0.183	22.9	0.00	19.35	
1345	5.5	26.19	6.54	-413	0.181	6.26	0.00	19.35	

Water Quality Meter (Make/Model/SN): Horiba U-52 2KU40HXM

Pump (Make/Model): Alexis pp

Sample ID: 17241-PTW-8

Time Collected: 1350

Technician Signature

EPS

Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/29/17

Well ID: ANT ~~MW-5~~ MU-1 **Field Conditions:** ~80 °F, partly cloudy

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: stick-up **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** Y **Condition of surrounding area:** grass

Well depth from TOC: 45.0' **Depth to Water from TOC:** 21.00

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 23.00 ft.

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.68 gal **Three Well Volumes (gal):** 11.04

Purging Method: low flow, low volume **Time @ Start of Purge:** 1420

Sample Method: direct/straw **Sample Parameters:** VOC, ethane/ethene/methane, TOC

Initial Depth of Pump/Tubing: 36 ft (BTOC) **Final Depth of Pump/Tubing:** 36 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1434	0.40	25.58	5.97	176	0.045	8.3	5.10	21.30	purge ~0.03 gpm
1454	1.0	28.87	5.73	211	0.036	26	4.72	21.30	
1504	1.3	28.58	5.68	223	0.034	2.5	4.66	21.30	
1515	1.66	29.16	5.69	233	0.034	21	4.46	21.30	
~~[illegible]~~	~~1.80 2.0~~	~~23.89~~	~~6.27~~	~~75~~	~~0.358~~	~~22.1~~	~~0~~	~~21.30~~	AWT

Water Quality Meter (Make/Model/SN): ANT ~~Perist~~ Horiba # 2KUU0HXM

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17241-MW-1 Time Collected: 1525 Technician Signature

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8-29-17

Well ID: MW-5
Field Conditions: p. cloudy, 73°F
Sampling Performed By: A. Testoff, Joe Terry
Well Construction: Stickup
General Condition of Well: good
Well Labeled: Y **Well Cap:** Y **Well Locked:** N
Condition of surrounding area: unimproved surface
Well depth from TOC: 86.5
Depth to Water from TOC: 21.70
Well Diameter (in): 2
Method of measure: Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 64.8
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 10.4
Three Well Volumes (gal): 31.2
Purging Method: low flow, low volume
Time @ Start of Purge: 0922
Sample Method: direct/straw
Sample Parameters: VOC, MEE, TOC, Microbes
Initial Depth of Pump/Tubing: 82 ft (BTOC) **Final Depth of Pump/Tubing:** 82 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1000	0.8	20.67	8.11	-36	0.295	5.7	3.39	26.09	Purge rate: 0.02GPM
1015	1.1	20.76	8.23	-50	0.284	2.1	2.34	27.68	
1040	1.6	20.87	8.15	-54	0.282	1.6	1.55	29.70	
1052	1.8	21.04	8.01	-58	0.285	0.6	1.37	30.39	
1131	2.6	21.54	7.85	-53	0.285	1.6	0.86	31.91	
1210	3.4	21.52	7.89	-54	0.286	0.4	0.71	32.73	
1235	3.9	21.37	7.86	-50	0.287	0.4	0.4	33.29	
1305	4.5	21.44	7.84	-50	0.286	0.9	0.37	33.55	
1315	4.7	21.88	7.86	-52	0.285	0.4	0.29	33.75	
1335	5.1	22.01	7.86	-52	0.284	0.5	0.26	33.91	Reduced purge rate to 0.01GPM
1345	5.2	22.24	7.86	-51	0.284	0.5	0.29	33.58	
1400	5.4	22.64	7.86	-52	0.283	0.3	0.23	33.38	
1420	5.6	22.75	7.84	-52	0.283	0.5	0.24	33.36	

Water Quality Meter (Make/Model/SN): Horiba U-53 S4JVCNUL

Pump (Make/Model): Solinst 2-valve SS pump w/QED MP-50 controller

Sample ID: 17241-MW-5

Time Collected: 1425

Technician Signature

Monitoring We[illegible] Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/29/2012

Well ID: MW-9 **Field Conditions:** ~80 °F, overcast

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: Stick-up **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** grass

Well depth from TOC: 45.0' **Depth to Water from TOC:** 21.33

Well Diameter (in): 2" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 23.67

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.79 gal **Three Well Volumes (gal):** 11.36

Purging Method: low flow, low volume **Time @ Start of Purge:** 1340

Sample Method: direct/straw **Sample Parameters:** VOCs, ethane/ethene/methane, TOC

Initial Depth of Pump/Tubing: 40 ft (BTOC) **Final Depth of Pump/Tubing:** 40 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
~~8:05~~ 1405	0.75	23.87	6.41	-91	.262	18.6	0.18	21.57	purge ~0.03 gpm
1415	0.95	24.02	6.37	-85	0.275	16.0	0.13	21.57	
1430	1.4	24.26	6.37	-81	0.299	16.7	0.08	21.57	
1452	2.0	24.63	6.35	-78	0.314	18.5	0.05	21.57	
1502	2.3	24.38	6.37	-76	0.321	11.6	0.04	21.54	
1514	2.7	24.17	6.30	-75	0.339	10.2	0.01	21.53	
1538	3.4	23.97	6.28	-75	0.354	2.28	0	21.53	
1554	3.9	23.98	6.27	-75	0.358	2.27	0.00	21.53	
1608	4.3	23.90	6.26	-76	0.360	2.43	0.00		

Water Quality Meter (Make/Model/SN): Horiba # TAL4NHV0

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17241-MW-9 Time Collected: 1610 Technician Signature

Monitoring We[illegible] Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/28/17

Well ID: MW-48A **Field Conditions:** ~75°F, overcast

Sampling Performed By: A. Testoff, Joe Terry

Well Construction: flush mount **General Condition of Well:** good

Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** asphalt lot

Well depth from TOC: 98.0' **Depth to Water from TOC:** 20.04

Well Diameter (in): 1" **Method of measure:** Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 77.96 ft

Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 3.12 gal **Three Well Volumes (gal):** 9.35 gal

Purging Method: low flow, low volume **Time @ Start of Purge:** 1200

Sample Method: direct/straw **Sample Parameters:** VOCs, methane/ethane/ethene, TOC

Initial Depth of Pump/Tubing: 93 ft (BTOC) **Final Depth of Pump/Tubing:** 93 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1226	0.80	26.85	7.52	-116	0.382	8.4	0.73	22.70	purge ~0.03 gpm
1239	1.10	~~24~~ 27.30	7.31	-95	0.378	9.1	0.61	21.96	↓ purge to ~0.02 gpm
1255	1.40	27.57	7.10	-70	0.421	4.8	0.85	21.90	
1320	1.90	28.00	7.02	-58	0.460	2.4	0.59	21.90	
1330	2.10	27.76	6.89	-42	0.481	1.8	0.60	21.90	
1340	2.30	27.58	6.74	-23	0.487	0.0	0.56	21.90	
1400	2.70	27.37	6.61	-11	0.491	0.0	0.54	21.90	
1415	3.0	27.01	6.43	0	0.493	0.2	0.56	21.90	
1430	3.3	27.08	6.30	10	0.494	0.6	0.55	21.90	
1432	3.5	27.12	6.30	10	0.494	1.0	0.56	21.90	
1440	3.7	27.24	6.27	10	0.492	0.9	0.57	21.90	

Water Quality Meter (Make/Model/SN): Horiba # TALYNHV0

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17240-MW-48A Time Collected: 1445 Technician Signature

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8/28/17

Well ID: MW-48B **Field Conditions:** ~75°F, partly cloudy
Sampling Performed By: A. Testoff, Joe Terry
Well Construction: flush mount **General Condition of Well:** good
Well Labeled: Y **Well Cap:** Y **Well Locked:** N **Condition of surrounding area:** asphalt parking lot
Well depth from TOC: 72.0 **Depth to Water from TOC:** 20.44
Well Diameter (in): 2" **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 51.56 ft.
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 2.06 gal **Three Well Volumes (gal):** 6.19
Purging Method: low flow, low volume **Time @ Start of Purge:** 1110
Sample Method: direct/straw **Sample Parameters:** VOCs, methane, ethane, ethene
Initial Depth of Pump/Tubing: 66 ft (BTOC) **Final Depth of Pump/Tubing:** 66 ft (BTOC)

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1120	0.3	28.06	6.35	96	0.231	11.3	1.97	20.50	Depth of tubing 67 ft.
1135	0.8	25.95	6.18	172	0.388	9.3	0.94	20.55	Purge rate: 0.03 GPM
1210	1.85	25.55	6.18	152	0.411	7.52	0.44	20.60	
1225	2.3	25.53	6.09	166	0.388	9.50	0.43	20.64	
1240	2.75	25.68	6.18	172	0.370	6.80	0.47	20.66	
1255	3.2	25.69	6.18	177	0.363	5.22	0.44	20.67	
1320	3.95	26.09	6.21	169	0.349	6.80	0.44	20.67	
1336	4.25	26.21	6.14	177	0.342	4.22	0.42	20.67	
1343		26.03	6.16	180	0.347	6.68	0.43		

Water Quality Meter (Make/Model/SN): Horiba # S4JVCNUL

Pump (Make/Model): Alexis Peristaltic Pump

Sample ID: 17240-MW-48B Time Collected: 1345 Technician Signature

Monitoring We Sampling Form

EPS Project: Rheem Manufacturing **Date:** 8-28-17

Well ID: PZ-7 **Field Conditions:** m. cloudy, 80°F, NE 10mph
Sampling Performed By: A. Testoff, Joe Terry
Well Construction: Flush Mount **General Condition of Well:** fair
Well Labeled: N **Well Cap:** Y **Well Locked:** ~~N~~ Y JT **Condition of surrounding area:** asphalt
Well depth from TOC: 63 **Depth to Water from TOC:** 20.11
Well Diameter (in): 2 **Method of measure:** Water Level Meter
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 42.89
Volume of water in well [Ht. x(0.04 for 1")(.16 for 2")(.653 for 4")(1.469 for 6")gal/ft]: 6.9 **Three Well Volumes (gal):** 20.7
Purging Method: low flow, low volume **Time @ Start of Purge:** 1210
Sample Method: direct/straw **Sample Parameters:** VOCs, MEE, TOC, Microbes
Initial Depth of Pump/Tubing: 58 **ft (BTOC)** **Final Depth of Pump/Tubing:** 58 **ft (BTOC)**

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1225	0.8	28.06	6.69	-53	1.3	8.4	0.46	20.45	Depth of tubing: 58 ft
1235	1.3	27.53	6.86	-70	1.29	2.9	1.87	20.45	Purge rate: 0.05 GPM
1245	1.8	27.57	6.91	-77	1.27	2.9	0.8	20.45	
1255	2.3	27.62	6.94	-79	1.24	1.5	0.44	20.45	
1300	2.6	27.61	6.95	-79	1.22	0	1.3	20.45	
1305	2.9	27.78	6.96	-81	1.21	1.4	0.55	20.45	

Water Quality Meter (Make/Model/SN): Horiba U-52 2KUU0HXM

Pump (Make/Model): Alexis pp

Sample ID: 17210-PZ-7 Time Collected: 1310 Technician Signature Joe Terry

APPENDIX D

Laboratory Analytical Reports

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 06, 2017

Justin Vickery
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Rheem

Dear Justin Vickery: Order No: 1705O61

Analytical Environmental Services, Inc. received 7 samples on 5/25/2017 4:48:00 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 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.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Chris Pafford

Project Manager

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1705061
Date: 5/25/17 Page 1 of 1

COMPANY: EPS
ADDRESS: 1050 Crown Pointe Pkwy Ste 550
Atlanta Ga 30338
PHONE: 404 315 9113
EMAIL:
SAMPLED BY: Brian Goldman / Alex Testoff
SIGNATURE: Br[illegible] Alex T[illegible]

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOC	Ethene	TOC	Ethane	Methane	REMARKS	Number of Containers
						PRESERVATION (see codes)	H+I	H+I	S+I	H+I	H+I		
1	17145-MW-1	5/25/17	1243	X		GW	X	X	X	X	X		5
2	17145-MW-5		1245	X		GW	X	X	X	X	X		5
3	17145-MW-9		1125	X		GW	X	X	X	X	X		5
4	17145-MW-48A		0955	X		GW	X	X	X	X	X		5
5	17145-MW-48B		0955	X		GW	X	X	X	X	X		5
6	17145-~~MW~~ BG PZ-7	↓	1110	X		GW	X	X	X	X	X		5
7	Trip Blank	—	—			W	X	~~X~~ BG				No TOC	2
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Brian Goldman	5/25/17 4:48 PM	1. [illegible]	5/25/17 4:48P
2.		2.	
3.		3.	

PROJECT INFORMATION
PROJECT NAME: Rheem
PROJECT #:
SITE ADDRESS: Milledgeville Ga
SEND REPORT TO: Alex Testoff, Justin Vickery
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 32

Turnaround Time (TAT) Request
☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same-Day Rush (auth req.)
☐ Other ____________

STATE PROGRAM (if any): ________
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
[✓ client] FedEx UPS US mail courier Greyhound
other: ____________

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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: 6-Jun-17

Client: Environmental Planning Specialists, Inc.
Project: Rheem
Lab ID: 1705O61

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1705O61-002A, -004A, -005A, & -006A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 6-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-1
Project Name:	Rheem	**Collection Date:**	5/25/2017 12:43:00 PM
Lab ID:	1705O61-001	**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	R344666	1	05/31/2017 18:33	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
2-Butanone	BRL	50		ug/L	243438	1	05/31/2017 22:59	LJ
2-Hexanone	BRL	10		ug/L	243438	1	05/31/2017 22:59	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	243438	1	05/31/2017 22:59	LJ
Acetone	BRL	50		ug/L	243438	1	05/31/2017 22:59	LJ
Benzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Bromodichloromethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Bromoform	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Bromomethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Carbon disulfide	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Carbon tetrachloride	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Chlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Chloroethane	BRL	10		ug/L	243438	1	05/31/2017 22:59	LJ
Chloroform	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Chloromethane	BRL	10		ug/L	243438	1	05/31/2017 22:59	LJ
cis-1,2-Dichloroethene	28	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Cyclohexane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Dibromochloromethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Dichlorodifluoromethane	BRL	10		ug/L	243438	1	05/31/2017 22:59	LJ
Ethylbenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Freon-113	BRL	10		ug/L	243438	1	05/31/2017 22:59	LJ
Isopropylbenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
m,p-Xylene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Methyl acetate	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1705O61-001

Client Sample ID: 17145-MW-1
Collection Date: 5/25/2017 12:43:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Methylene chloride	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
o-Xylene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Styrene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Tetrachloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Toluene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Trichloroethene	500	50		ug/L	243438	10	05/31/2017 23:24	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:59	LJ
Vinyl chloride	BRL	2.0		ug/L	243438	1	05/31/2017 22:59	LJ
Surr: 4-Bromofluorobenzene	91.8	66.1-129		%REC	243438	1	05/31/2017 22:59	LJ
Surr: 4-Bromofluorobenzene	91.3	66.1-129		%REC	243438	10	05/31/2017 23:24	LJ
Surr: Dibromofluoromethane	94.7	83.6-123		%REC	243438	10	05/31/2017 23:24	LJ
Surr: Dibromofluoromethane	101	83.6-123		%REC	243438	1	05/31/2017 22:59	LJ
Surr: Toluene-d8	98.1	81.8-118		%REC	243438	10	05/31/2017 23:24	LJ
Surr: Toluene-d8	101	81.8-118		%REC	243438	1	05/31/2017 22:59	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	243334	1	06/01/2017 10:26	EI
Ethylene	BRL	7.0		ug/L	243334	1	06/01/2017 10:26	EI
Methane	BRL	4.0		ug/L	243334	1	06/01/2017 10:26	EI

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1705O61-002
Client Sample ID: 17145-MW-5
Collection Date: 5/25/2017 12:45:00 PM
Matrix: Groundwater

Total Organic Carbon (TOC) SW9060A

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Organic Carbon, Total	10.8	1.00		mg/L	R344666	1	05/31/2017 19:52	JM

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,1,2-Trichloroethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,1-Dichloroethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,1-Dichloroethene	120	100		ug/L	243438	50	06/01/2017 17:31	NP
1,2,4-Trichlorobenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,2-Dibromoethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,2-Dichlorobenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,2-Dichloroethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,2-Dichloropropane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,3-Dichlorobenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
1,4-Dichlorobenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
2-Butanone	BRL	2500		ug/L	243438	50	06/01/2017 17:31	NP
2-Hexanone	BRL	500		ug/L	243438	50	06/01/2017 17:31	NP
4-Methyl-2-pentanone	BRL	500		ug/L	243438	50	06/01/2017 17:31	NP
Acetone	BRL	2500		ug/L	243438	50	06/01/2017 17:31	NP
Benzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Bromodichloromethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Bromoform	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Bromomethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Carbon disulfide	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Carbon tetrachloride	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Chlorobenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Chloroethane	BRL	500		ug/L	243438	50	06/01/2017 17:31	NP
Chloroform	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Chloromethane	BRL	500		ug/L	243438	50	06/01/2017 17:31	NP
cis-1,2-Dichloroethene	2900	250		ug/L	243438	50	06/01/2017 17:31	NP
cis-1,3-Dichloropropene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Cyclohexane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Dibromochloromethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Dichlorodifluoromethane	BRL	500		ug/L	243438	50	06/01/2017 17:31	NP
Ethylbenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Freon-113	BRL	500		ug/L	243438	50	06/01/2017 17:31	NP
Isopropylbenzene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
m,p-Xylene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Methyl acetate	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Methyl tert-butyl ether	BRL	250		ug/L	243438	50	06/01/2017 17:31	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-5
Project Name:	Rheem	**Collection Date:**	5/25/2017 12:45:00 PM
Lab ID:	1705O61-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Methylene chloride	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
o-Xylene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Styrene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Tetrachloroethene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Toluene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
trans-1,2-Dichloroethene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
trans-1,3-Dichloropropene	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Trichloroethene	180000	5000		ug/L	243438	1000	06/01/2017 17:57	NP
Trichlorofluoromethane	BRL	250		ug/L	243438	50	06/01/2017 17:31	NP
Vinyl chloride	BRL	100		ug/L	243438	50	06/01/2017 17:31	NP
Surr: 4-Bromofluorobenzene	90.9	66.1-129		%REC	243438	50	06/01/2017 17:31	NP
Surr: 4-Bromofluorobenzene	87.8	66.1-129		%REC	243438	1000	06/01/2017 17:57	NP
Surr: Dibromofluoromethane	97.2	83.6-123		%REC	243438	50	06/01/2017 17:31	NP
Surr: Dibromofluoromethane	99.8	83.6-123		%REC	243438	1000	06/01/2017 17:57	NP
Surr: Toluene-d8	99.3	81.8-118		%REC	243438	50	06/01/2017 17:31	NP
Surr: Toluene-d8	101	81.8-118		%REC	243438	1000	06/01/2017 17:57	NP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	243334	1	06/01/2017 10:47	EI
Ethylene	BRL	7.0		ug/L	243334	1	06/01/2017 10:47	EI
Methane	BRL	4.0		ug/L	243334	1	06/01/2017 10:47	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-9
Project Name:	Rheem	**Collection Date:**	5/25/2017 11:25:00 AM
Lab ID:	1705O61-003	**Matrix:**	Groundwater

Total Organic Carbon (TOC) SW9060A

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Organic Carbon, Total	3.86	1.00		mg/L	R344666	1	05/31/2017 20:18	JM

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,1-Dichloroethene	24	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
2-Butanone	BRL	50		ug/L	243438	1	05/31/2017 22:07	LJ
2-Hexanone	BRL	10		ug/L	243438	1	05/31/2017 22:07	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	243438	1	05/31/2017 22:07	LJ
Acetone	BRL	50		ug/L	243438	1	05/31/2017 22:07	LJ
Benzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Bromodichloromethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Bromoform	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Bromomethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Carbon disulfide	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Carbon tetrachloride	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Chlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Chloroethane	BRL	10		ug/L	243438	1	05/31/2017 22:07	LJ
Chloroform	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Chloromethane	BRL	10		ug/L	243438	1	05/31/2017 22:07	LJ
cis-1,2-Dichloroethene	2700	100		ug/L	243438	20	05/31/2017 22:33	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Cyclohexane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Dibromochloromethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Dichlorodifluoromethane	BRL	10		ug/L	243438	1	05/31/2017 22:07	LJ
Ethylbenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Freon-113	BRL	10		ug/L	243438	1	05/31/2017 22:07	LJ
Isopropylbenzene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
m,p-Xylene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Methyl acetate	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-9
Project Name:	Rheem	**Collection Date:**	5/25/2017 11:25:00 AM
Lab ID:	1705O61-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Methylene chloride	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
o-Xylene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Styrene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Tetrachloroethene	5.8	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Toluene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Trichloroethene	6600	500		ug/L	243438	100	06/01/2017 19:40	NP
Trichlorofluoromethane	BRL	5.0		ug/L	243438	1	05/31/2017 22:07	LJ
Vinyl chloride	3.7	2.0		ug/L	243438	1	05/31/2017 22:07	LJ
Surr: 4-Bromofluorobenzene	88.9	66.1-129		%REC	243438	1	05/31/2017 22:07	LJ
Surr: 4-Bromofluorobenzene	88.7	66.1-129		%REC	243438	100	06/01/2017 19:40	NP
Surr: 4-Bromofluorobenzene	90	66.1-129		%REC	243438	20	05/31/2017 22:33	LJ
Surr: Dibromofluoromethane	96.5	83.6-123		%REC	243438	100	06/01/2017 19:40	NP
Surr: Dibromofluoromethane	98.5	83.6-123		%REC	243438	1	05/31/2017 22:07	LJ
Surr: Dibromofluoromethane	95.7	83.6-123		%REC	243438	20	05/31/2017 22:33	LJ
Surr: Toluene-d8	100	81.8-118		%REC	243438	1	05/31/2017 22:07	LJ
Surr: Toluene-d8	102	81.8-118		%REC	243438	100	06/01/2017 19:40	NP
Surr: Toluene-d8	98.9	81.8-118		%REC	243438	20	05/31/2017 22:33	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	243334	1	06/01/2017 10:54	EI
Ethylene	BRL	7.0		ug/L	243334	1	06/01/2017 10:54	EI
Methane	22	4.0		ug/L	243334	1	06/01/2017 10:54	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: 6-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-48A
Project Name:	Rheem	**Collection Date:**	5/25/2017 9:55:00 AM
Lab ID:	1705O61-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	4.03	1.00		mg/L	R344666	1	05/31/2017 20:44	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,1,2,2-Tetrachloroethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,1,2-Trichloroethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,1-Dichloroethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,1-Dichloroethene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,2,4-Trichlorobenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,2-Dibromo-3-chloropropane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,2-Dibromoethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,2-Dichlorobenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,2-Dichloroethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,2-Dichloropropane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,3-Dichlorobenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
1,4-Dichlorobenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
2-Butanone	BRL	500		ug/L	243438	10	06/01/2017 18:23	NP
2-Hexanone	BRL	100		ug/L	243438	10	06/01/2017 18:23	NP
4-Methyl-2-pentanone	BRL	100		ug/L	243438	10	06/01/2017 18:23	NP
Acetone	BRL	500		ug/L	243438	10	06/01/2017 18:23	NP
Benzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Bromodichloromethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Bromoform	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Bromomethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Carbon disulfide	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Carbon tetrachloride	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Chlorobenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Chloroethane	BRL	100		ug/L	243438	10	06/01/2017 18:23	NP
Chloroform	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Chloromethane	BRL	100		ug/L	243438	10	06/01/2017 18:23	NP
cis-1,2-Dichloroethene	1400	50		ug/L	243438	10	06/01/2017 18:23	NP
cis-1,3-Dichloropropene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Cyclohexane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Dibromochloromethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Dichlorodifluoromethane	BRL	100		ug/L	243438	10	06/01/2017 18:23	NP
Ethylbenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Freon-113	BRL	100		ug/L	243438	10	06/01/2017 18:23	NP
Isopropylbenzene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
m,p-Xylene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Methyl acetate	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Methyl tert-butyl ether	BRL	50		ug/L	243438	10	06/01/2017 18:23	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-48A
Project Name:	Rheem	**Collection Date:**	5/25/2017 9:55:00 AM
Lab ID:	1705O61-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Methylene chloride	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
o-Xylene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Styrene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Tetrachloroethene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Toluene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
trans-1,2-Dichloroethene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
trans-1,3-Dichloropropene	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Trichloroethene	25000	2500		ug/L	243438	500	05/31/2017 16:58	LJ
Trichlorofluoromethane	BRL	50		ug/L	243438	10	06/01/2017 18:23	NP
Vinyl chloride	BRL	20		ug/L	243438	10	06/01/2017 18:23	NP
Surr: 4-Bromofluorobenzene	89.8	66.1-129		%REC	243438	500	05/31/2017 16:58	LJ
Surr: 4-Bromofluorobenzene	88.3	66.1-129		%REC	243438	10	06/01/2017 18:23	NP
Surr: Dibromofluoromethane	98.8	83.6-123		%REC	243438	500	05/31/2017 16:58	LJ
Surr: Dibromofluoromethane	99.4	83.6-123		%REC	243438	10	06/01/2017 18:23	NP
Surr: Toluene-d8	102	81.8-118		%REC	243438	500	05/31/2017 16:58	LJ
Surr: Toluene-d8	83.8	81.8-118		%REC	243438	10	06/01/2017 18:23	NP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	9.2	9.0		ug/L	243334	1	06/01/2017 11:06	EI
Ethylene	14	7.0		ug/L	243334	1	06/01/2017 11:06	EI
Methane	BRL	4.0		ug/L	243334	1	06/01/2017 11:06	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: 6-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-48B
Project Name:	Rheem	**Collection Date:**	5/25/2017 9:55:00 AM
Lab ID:	1705O61-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	4.78	1.00		mg/L	R344666	1	05/31/2017 21:10	JM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,1,2,2-Tetrachloroethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,1,2-Trichloroethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,1-Dichloroethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,1-Dichloroethene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,2,4-Trichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,2-Dibromo-3-chloropropane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,2-Dibromoethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,2-Dichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,2-Dichloroethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,2-Dichloropropane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,3-Dichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
1,4-Dichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
2-Butanone	BRL	1000		ug/L	243438	20	06/01/2017 18:48	NP
2-Hexanone	BRL	200		ug/L	243438	20	06/01/2017 18:48	NP
4-Methyl-2-pentanone	BRL	200		ug/L	243438	20	06/01/2017 18:48	NP
Acetone	BRL	1000		ug/L	243438	20	06/01/2017 18:48	NP
Benzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Bromodichloromethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Bromoform	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Bromomethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Carbon disulfide	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Carbon tetrachloride	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Chlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Chloroethane	BRL	200		ug/L	243438	20	06/01/2017 18:48	NP
Chloroform	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Chloromethane	BRL	200		ug/L	243438	20	06/01/2017 18:48	NP
cis-1,2-Dichloroethene	2600	100		ug/L	243438	20	06/01/2017 18:48	NP
cis-1,3-Dichloropropene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Cyclohexane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Dibromochloromethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Dichlorodifluoromethane	BRL	200		ug/L	243438	20	06/01/2017 18:48	NP
Ethylbenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Freon-113	BRL	200		ug/L	243438	20	06/01/2017 18:48	NP
Isopropylbenzene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
m,p-Xylene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Methyl acetate	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Methyl tert-butyl ether	BRL	100		ug/L	243438	20	06/01/2017 18:48	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-MW-48B
Project Name:	Rheem	**Collection Date:**	5/25/2017 9:55:00 AM
Lab ID:	1705O61-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Methylene chloride	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
o-Xylene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Styrene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Tetrachloroethene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Toluene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
trans-1,2-Dichloroethene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
trans-1,3-Dichloropropene	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Trichloroethene	33000	2500		ug/L	243438	500	05/31/2017 17:23	LJ
Trichlorofluoromethane	BRL	100		ug/L	243438	20	06/01/2017 18:48	NP
Vinyl chloride	BRL	40		ug/L	243438	20	06/01/2017 18:48	NP
Surr: 4-Bromofluorobenzene	91	66.1-129		%REC	243438	500	05/31/2017 17:23	LJ
Surr: 4-Bromofluorobenzene	87.3	66.1-129		%REC	243438	20	06/01/2017 18:48	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	243438	500	05/31/2017 17:23	LJ
Surr: Dibromofluoromethane	95.1	83.6-123		%REC	243438	20	06/01/2017 18:48	NP
Surr: Toluene-d8	102	81.8-118		%REC	243438	20	06/01/2017 18:48	NP
Surr: Toluene-d8	103	81.8-118		%REC	243438	500	05/31/2017 17:23	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	243334	1	06/01/2017 11:25	EI
Ethylene	BRL	7.0		ug/L	243334	1	06/01/2017 11:25	EI
Methane	BRL	4.0		ug/L	243334	1	06/01/2017 11:25	EI

Analytical Environmental Services, Inc

Date: 6-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17145-PZ-7
Project Name:	Rheem	**Collection Date:**	5/25/2017 11:10:00 AM
Lab ID:	1705O61-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	17.8	1.00		mg/L	R344666	1	05/31/2017 21:37	JM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,1,2,2-Tetrachloroethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,1,2-Trichloroethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,1-Dichloroethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,1-Dichloroethene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,2,4-Trichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,2-Dibromo-3-chloropropane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,2-Dibromoethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,2-Dichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,2-Dichloroethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,2-Dichloropropane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,3-Dichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
1,4-Dichlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
2-Butanone	BRL	1000		ug/L	243438	20	06/01/2017 19:14	NP
2-Hexanone	BRL	200		ug/L	243438	20	06/01/2017 19:14	NP
4-Methyl-2-pentanone	BRL	200		ug/L	243438	20	06/01/2017 19:14	NP
Acetone	BRL	1000		ug/L	243438	20	06/01/2017 19:14	NP
Benzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Bromodichloromethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Bromoform	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Bromomethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Carbon disulfide	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Carbon tetrachloride	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Chlorobenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Chloroethane	BRL	200		ug/L	243438	20	06/01/2017 19:14	NP
Chloroform	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Chloromethane	BRL	200		ug/L	243438	20	06/01/2017 19:14	NP
cis-1,2-Dichloroethene	22000	2500		ug/L	243438	500	05/31/2017 17:49	LJ
cis-1,3-Dichloropropene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Cyclohexane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Dibromochloromethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Dichlorodifluoromethane	BRL	200		ug/L	243438	20	06/01/2017 19:14	NP
Ethylbenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Freon-113	BRL	200		ug/L	243438	20	06/01/2017 19:14	NP
Isopropylbenzene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
m,p-Xylene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Methyl acetate	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Methyl tert-butyl ether	BRL	100		ug/L	243438	20	06/01/2017 19:14	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1705O61-006

Client Sample ID: 17145-PZ-7
Collection Date: 5/25/2017 11:10:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Methylene chloride	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
o-Xylene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Styrene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Tetrachloroethene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Toluene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
trans-1,2-Dichloroethene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
trans-1,3-Dichloropropene	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Trichloroethene	2800	100		ug/L	243438	20	06/01/2017 19:14	NP
Trichlorofluoromethane	BRL	100		ug/L	243438	20	06/01/2017 19:14	NP
Vinyl chloride	BRL	40		ug/L	243438	20	06/01/2017 19:14	NP
Surr: 4-Bromofluorobenzene	86.3	66.1-129		%REC	243438	500	05/31/2017 17:49	LJ
Surr: 4-Bromofluorobenzene	90.3	66.1-129		%REC	243438	20	06/01/2017 19:14	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	243438	500	05/31/2017 17:49	LJ
Surr: Dibromofluoromethane	99.8	83.6-123		%REC	243438	20	06/01/2017 19:14	NP
Surr: Toluene-d8	100	81.8-118		%REC	243438	20	06/01/2017 19:14	NP
Surr: Toluene-d8	103	81.8-118		%REC	243438	500	05/31/2017 17:49	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	243334	1	06/01/2017 11:36	EI
Ethylene	BRL	7.0		ug/L	243334	1	06/01/2017 11:36	EI
Methane	11	4.0		ug/L	243334	1	06/01/2017 11:36	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: 6-Jun-17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1705O61-007

Client Sample ID: TRIP BLANK
Collection Date: 5/25/2017 4:48:00 PM
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	243438	1	05/31/2017 19:06	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
2-Butanone	BRL	50		ug/L	243438	1	05/31/2017 19:06	LJ
2-Hexanone	BRL	10		ug/L	243438	1	05/31/2017 19:06	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	243438	1	05/31/2017 19:06	LJ
Acetone	BRL	50		ug/L	243438	1	05/31/2017 19:06	LJ
Benzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Bromodichloromethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Bromoform	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Bromomethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Carbon disulfide	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Carbon tetrachloride	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Chlorobenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Chloroethane	BRL	10		ug/L	243438	1	05/31/2017 19:06	LJ
Chloroform	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Chloromethane	BRL	10		ug/L	243438	1	05/31/2017 19:06	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Cyclohexane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Dibromochloromethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Dichlorodifluoromethane	BRL	10		ug/L	243438	1	05/31/2017 19:06	LJ
Ethylbenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Freon-113	BRL	10		ug/L	243438	1	05/31/2017 19:06	LJ
Isopropylbenzene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
m,p-Xylene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Methyl acetate	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Methylcyclohexane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Methylene chloride	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
o-Xylene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Rheem	**Collection Date:**	5/25/2017 4:48:00 PM
Lab ID:	1705O61-007	**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	243438	1	05/31/2017 19:06	LJ
Tetrachloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Toluene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Trichloroethene	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	243438	1	05/31/2017 19:06	LJ
Vinyl chloride	BRL	2.0		ug/L	243438	1	05/31/2017 19:06	LJ
Surr: 4-Bromofluorobenzene	91.6	66.1-129		%REC	243438	1	05/31/2017 19:06	LJ
Surr: Dibromofluoromethane	100	83.6-123		%REC	243438	1	05/31/2017 19:06	LJ
Surr: Toluene-d8	102	81.8-118		%REC	243438	1	05/31/2017 19:06	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

Clear Save as

ANALYTICAL ENVIRONMENTAL AES SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.** AES Work Order Number: **1705O61**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ______

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 0-6ºC? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
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. ☐	

13. Cooler 1 Temperature 5.3 ºC Cooler 2 Temperature ______ ºC Cooler 3 Temperature ______ ºC Cooler 4 Temperature ______ ºC

14. Cooler 5 Temperature ______ ºC Cooler 6 Temperature ______ ºC Cooler 7 Temperature ______ ºC Cooler 8 Temperature ______ ºC

15. Comments: ______

I certify that I have completed sections 1-15 (dated initials). MJ 5/25/17

		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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ☒ not listed on COC ☐	

27. Comments: ______

I certify that I have completed sections 16-27 (dated initials). AJ 5/26/17

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

I certify that I have completed sections 28-30 (dated initials). AJ 5/26/17

Checklist 1/19/17 Rev 0.

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **243334**

Sample ID: **MB-243334** Client ID: Units: **ug/L** Prep Date: **05/30/2017** Run No: **344471**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **243334** Analysis Date: **06/01/2017** Seq No: **7557179**

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-243334** Client ID: Units: **ug/L** Prep Date: **05/30/2017** Run No: **344471**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **243334** Analysis Date: **06/01/2017** Seq No: **7557180**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	124.8	9.0	200.0		62.4	43.9	115				
Ethylene	84.42	7.0	200.0		42.2	29.6	115				
Methane	134.5	4.0	200.0		67.3	49.2	115				

Sample ID: **LCSD-243334** Client ID: Units: **ug/L** Prep Date: **05/30/2017** Run No: **344471**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **243334** Analysis Date: **06/01/2017** Seq No: **7557181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	120.8	9.0	200.0		60.4	43.9	115	124.8	3.31	20	
Ethylene	81.17	7.0	200.0		40.6	29.6	115	84.42	3.92	20	
Methane	130.4	4.0	200.0		65.2	49.2	115	134.5	3.09	20	

Sample ID: **1705O61-001BMS** Client ID: **17145-MW-1** Units: **ug/L** Prep Date: **06/01/2017** Run No: **344471**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **243334** Analysis Date: **06/01/2017** Seq No: **7557207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	134.1	9.0	200.0		67.0	36.3	115				
Ethylene	90.27	7.0	200.0		45.1	27	115				
Methane	140.3	4.0	200.0		70.2	40.5	115				

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **243334**

Sample ID: **1705O61-001BMSD** Client ID: **17145-MW-1** Units: **ug/L** Prep Date: **06/01/2017** Run No: **344471**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **243334** Analysis Date: **06/01/2017** Seq No: **7557208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	126.2	9.0	200.0		63.1	36.3	115	134.1	6.04	20	
Ethylene	85.30	7.0	200.0		42.7	27	115	90.27	5.66	20	
Methane	132.5	4.0	200.0		66.2	40.5	115	140.3	5.74	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: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **243438**

Sample ID: **MB-243438** Client ID: Units: **ug/L** Prep Date: **05/31/2017** Run No: **344342**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243438** Analysis Date: **05/31/2017** Seq No: **7553875**

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: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **243438**

Sample ID: **MB-243438** Client ID: Units: **ug/L** Prep Date: **05/31/2017** Run No: **344342**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243438** Analysis Date: **05/31/2017** Seq No: **7553875**

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	45.10	0	50.00		90.2	66.1	129				
Surr: Dibromofluoromethane	48.20	0	50.00		96.4	83.6	123				
Surr: Toluene-d8	50.25	0	50.00		100	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: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **243438**

Sample ID: **LCS-243438** Client ID: Units: **ug/L** Prep Date: **05/31/2017** Run No: **344342**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243438** Analysis Date: **05/31/2017** Seq No: **7553874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.58	5.0	50.00		105	68	139				
Benzene	52.98	5.0	50.00		106	74	125				
Chlorobenzene	48.12	5.0	50.00		96.2	75.7	123				
Toluene	53.80	5.0	50.00		108	75.9	126				
Trichloroethene	47.22	5.0	50.00		94.4	70.6	129				
Surr: 4-Bromofluorobenzene	44.54	0	50.00		89.1	66.1	129				
Surr: Dibromofluoromethane	48.70	0	50.00		97.4	83.6	123				
Surr: Toluene-d8	49.92	0	50.00		99.8	81.8	118				

Sample ID: **1705O61-006AMS** Client ID: **17145-PZ-7** Units: **ug/L** Prep Date: **05/31/2017** Run No: **344342**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243438** Analysis Date: **05/31/2017** Seq No: **7554638**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	35140	2500	25000		141	64.3	149				
Benzene	28640	2500	25000		115	71.6	132				
Chlorobenzene	25890	2500	25000		104	73.1	126				
Toluene	28950	2500	25000		116	72.5	135				
Trichloroethene	27650	2500	25000	2720	99.7	70.2	132				
Surr: 4-Bromofluorobenzene	22850	0	25000		91.4	66.1	129				
Surr: Dibromofluoromethane	24840	0	25000		99.4	83.6	123				
Surr: Toluene-d8	24900	0	25000		99.6	81.8	118				

Sample ID: **1705O61-006AMSD** Client ID: **17145-PZ-7** Units: **ug/L** Prep Date: **05/31/2017** Run No: **344342**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243438** Analysis Date: **05/31/2017** Seq No: **7554639**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	26550	2500	25000		106	64.3	149	35140	27.9	30.8	
Benzene	28670	2500	25000		115	71.6	132	28640	0.087	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: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **243438**

Sample ID: **1705O61-006AMSD** Client ID: **17145-PZ-7** Units: **ug/L** Prep Date: **05/31/2017** Run No: **344342**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243438** Analysis Date: **05/31/2017** Seq No: **7554639**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	25200	2500	25000		101	73.1	126	25890	2.70	26.6	
Toluene	28770	2500	25000		115	72.5	135	28950	0.624	23.2	
Trichloroethene	26840	2500	25000	2720	96.5	70.2	132	27650	2.95	27.7	
Surr: 4-Bromofluorobenzene	22200	0	25000		88.8	66.1	129	22850	0	0	
Surr: Dibromofluoromethane	24540	0	25000		98.1	83.6	123	24840	0	0	
Surr: Toluene-d8	25350	0	25000		101	81.8	118	24900	0	0	

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1705O61

ANALYTICAL QC SUMMARY REPORT

BatchID: **R344666**

Sample ID: **MB-R344666** Client ID: Units: **mg/L** Prep Date: Run No: **344666**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R344666** Analysis Date: **05/31/2017** Seq No: **7562405**

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-R344666** Client ID: Units: **mg/L** Prep Date: Run No: **344666**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R344666** Analysis Date: **05/31/2017** Seq No: **7562403**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.60	1.00	25.00		102	90	110				

Sample ID: **1705O61-001CMS** Client ID: **17145-MW-1** Units: **mg/L** Prep Date: Run No: **344666**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R344666** Analysis Date: **05/31/2017** Seq No: **7562410**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.03	1.00	25.00		100	80	120				

Sample ID: **1705O61-001CMSD** Client ID: **17145-MW-1** Units: **mg/L** Prep Date: Run No: **344666**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R344666** Analysis Date: **05/31/2017** Seq No: **7562412**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.91	1.00	25.00		104	80	120	25.03	3.46	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 30, 2017

Justin Vickery
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Rheem

Dear Justin Vickery: Order No: 1706N40

Analytical Environmental Services, Inc. received 8 samples on 6/23/2017 2:30:00 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 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 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 07/01/17-06/30/18.
-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.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Christopher Pafford

Chris Pafford

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
AES
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1706N40
Date: 6-23-17 Page 1 of 1

COMPANY: EPS Inc.
ADDRESS: 1050 Crown Pointe Pkwy, Ste 550
Atlanta, GA 30338
PHONE: 404 315 9113
EMAIL:
SAMPLED BY: Alex Testoff Brian Goldman
SIGNATURE: Alex Testoff

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOCs	Ethane	Ethene	Methane	TOC									REMARKS	Number of Containers
						PRESERVATION (see codes)	H+I	H+I	H+I	H+I	S+I										
1	17173-MW-1	6-22-17	1645	X		GW	X	X	X	X	X										5
2	17173-MW-5	↓	1245	X		GW	X	X	X	X	X										5
3	17173-MW-9		1240	X		GW	X	X	X	X	X										5
4	17173-MW-48A		1520	X		GW	X	X	X	X	X										5
5	17173-MW-48B		1500	X		GW	X	X	X	X	X										5
6	17173-PZ-~~7~~	6-22-17	1125	X		GW	X	X	X	X	X									17173-PZ-7	5
7	Trip Blank	–	–			W	X														2
8	17173-IW-1B	6-22-17	1057	X		GW	X	X	X	X	X										5
9																					
10																					
11																					
12																					
13																					
14																					

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Alex Testoff	6-23-17 1430	1. Denita Overain	6/23/17 14:30
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
[✓ client] FedEx UPS US mail courier Greyhound
other: ____________

PROJECT INFORMATION
PROJECT NAME: Rheem
PROJECT #:
SITE ADDRESS: Milledgeville, GA
SEND REPORT TO: jvickery@envplanning.com & atestoff@envplanning.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: ____________ PO#: ____________

RECEIPT
Total # of Containers 37
Turnaround Time (TAT) Request
☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same-Day Rush (auth req.)
☐ Other ____________
STATE PROGRAM (if any): ________
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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.	**Client Sample ID:**	17173-MW-1
Project Name:	Rheem	**Collection Date:**	6/22/2017 4:45:00 PM
Lab ID:	1706N40-001	**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	R346600	1	06/29/2017 12:48	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/27/2017 12:43	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/27/2017 12:43	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/27/2017 12:43	LJ
Acetone	BRL	50		ug/L	244682	1	06/27/2017 12:43	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/27/2017 12:43	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/27/2017 12:43	LJ
cis-1,2-Dichloroethene	11	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244682	1	06/27/2017 12:43	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Freon-113	BRL	10		ug/L	244682	1	06/27/2017 12:43	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-1
Project Name:	Rheem	**Collection Date:**	6/22/2017 4:45:00 PM
Lab ID:	1706N40-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Trichloroethene	480	50		ug/L	244682	10	06/28/2017 13:33	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/27/2017 12:43	LJ
Vinyl chloride	BRL	2.0		ug/L	244682	1	06/27/2017 12:43	LJ
Surr: 4-Bromofluorobenzene	91	66.1-129		%REC	244682	1	06/27/2017 12:43	LJ
Surr: 4-Bromofluorobenzene	91.6	66.1-129		%REC	244682	10	06/28/2017 13:33	LJ
Surr: Dibromofluoromethane	97.5	83.6-123		%REC	244682	10	06/28/2017 13:33	LJ
Surr: Dibromofluoromethane	99.5	83.6-123		%REC	244682	1	06/27/2017 12:43	LJ
Surr: Toluene-d8	99.6	81.8-118		%REC	244682	10	06/28/2017 13:33	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244682	1	06/27/2017 12:43	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	244771	1	06/28/2017 11:13	EI
Ethylene	BRL	7.0		ug/L	244771	1	06/28/2017 11:13	EI
Methane	BRL	4.0		ug/L	244771	1	06/28/2017 11:13	EI

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-5
Project Name:	Rheem	**Collection Date:**	6/22/2017 12:45:00 PM
Lab ID:	1706N40-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.66	1.00		mg/L	R346600	1	06/29/2017 13:16	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,1,2-Trichloroethane	9.4	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,1-Dichloroethene	23	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/27/2017 13:09	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/27/2017 13:09	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/27/2017 13:09	LJ
Acetone	BRL	50		ug/L	244682	1	06/27/2017 13:09	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/27/2017 13:09	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/27/2017 13:09	LJ
cis-1,2-Dichloroethene	260	50		ug/L	244682	10	06/28/2017 14:51	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244682	1	06/27/2017 13:09	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Freon-113	BRL	10		ug/L	244682	1	06/27/2017 13:09	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	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: 30-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-5
Project Name:	Rheem	**Collection Date:**	6/22/2017 12:45:00 PM
Lab ID:	1706N40-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Methylene chloride	5.6	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Trichloroethene	37000	2500		ug/L	244682	500	06/28/2017 15:17	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:09	LJ
Vinyl chloride	BRL	2.0		ug/L	244682	1	06/27/2017 13:09	LJ
Surr: 4-Bromofluorobenzene	89.4	66.1-129		%REC	244682	500	06/28/2017 15:17	LJ
Surr: 4-Bromofluorobenzene	86.9	66.1-129		%REC	244682	1	06/27/2017 13:09	LJ
Surr: 4-Bromofluorobenzene	89.6	66.1-129		%REC	244682	10	06/28/2017 14:51	LJ
Surr: Dibromofluoromethane	96.7	83.6-123		%REC	244682	500	06/28/2017 15:17	LJ
Surr: Dibromofluoromethane	94.7	83.6-123		%REC	244682	10	06/28/2017 14:51	LJ
Surr: Dibromofluoromethane	99.7	83.6-123		%REC	244682	1	06/27/2017 13:09	LJ
Surr: Toluene-d8	98.7	81.8-118		%REC	244682	500	06/28/2017 15:17	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244682	1	06/27/2017 13:09	LJ
Surr: Toluene-d8	100	81.8-118		%REC	244682	10	06/28/2017 14:51	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	244771	1	06/28/2017 11:39	EI
Ethylene	BRL	7.0		ug/L	244771	1	06/28/2017 11:39	EI
Methane	BRL	4.0		ug/L	244771	1	06/28/2017 11:39	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-9
Project Name:	Rheem	**Collection Date:**	6/22/2017 12:40:00 PM
Lab ID:	1706N40-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.28	1.00		mg/L	R346600	1	06/29/2017 13:44	JM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,1-Dichloroethene	22	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/27/2017 13:35	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/27/2017 13:35	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/27/2017 13:35	LJ
Acetone	BRL	50		ug/L	244682	1	06/27/2017 13:35	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/27/2017 13:35	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/27/2017 13:35	LJ
cis-1,2-Dichloroethene	1100	500		ug/L	244682	100	06/28/2017 13:59	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244682	1	06/27/2017 13:35	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Freon-113	BRL	10		ug/L	244682	1	06/27/2017 13:35	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-9
Project Name:	Rheem	**Collection Date:**	6/22/2017 12:40:00 PM
Lab ID:	1706N40-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Tetrachloroethene	5.8	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Trichloroethene	7300	500		ug/L	244682	100	06/28/2017 13:59	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/27/2017 13:35	LJ
Vinyl chloride	6.1	2.0		ug/L	244682	1	06/27/2017 13:35	LJ
Surr: 4-Bromofluorobenzene	89.7	66.1-129		%REC	244682	1	06/27/2017 13:35	LJ
Surr: 4-Bromofluorobenzene	89.9	66.1-129		%REC	244682	100	06/28/2017 13:59	LJ
Surr: Dibromofluoromethane	94.6	83.6-123		%REC	244682	100	06/28/2017 13:59	LJ
Surr: Dibromofluoromethane	100	83.6-123		%REC	244682	1	06/27/2017 13:35	LJ
Surr: Toluene-d8	98.6	81.8-118		%REC	244682	1	06/27/2017 13:35	LJ
Surr: Toluene-d8	98.9	81.8-118		%REC	244682	100	06/28/2017 13:59	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	244771	1	06/28/2017 11:46	EI
Ethylene	BRL	7.0		ug/L	244771	1	06/28/2017 11:46	EI
Methane	49	4.0		ug/L	244771	1	06/28/2017 11:46	EI

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-48A
Project Name:	Rheem	**Collection Date:**	6/22/2017 3:20:00 PM
Lab ID:	1706N40-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.21	1.00		mg/L	R346600	1	06/29/2017 14:12	JM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,1,2-Trichloroethane	13	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,1-Dichloroethene	14	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/27/2017 14:00	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/27/2017 14:00	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/27/2017 14:00	LJ
Acetone	BRL	50		ug/L	244682	1	06/27/2017 14:00	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/27/2017 14:00	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/27/2017 14:00	LJ
cis-1,2-Dichloroethene	1300	50		ug/L	244682	10	06/28/2017 15:43	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Dichlorodifluoromethane	41	10		ug/L	244682	1	06/27/2017 14:00	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Freon-113	BRL	10		ug/L	244682	1	06/27/2017 14:00	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-48A
Project Name:	Rheem	**Collection Date:**	6/22/2017 3:20:00 PM
Lab ID:	1706N40-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Trichloroethene	24000	2500		ug/L	244682	500	06/28/2017 16:09	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:00	LJ
Vinyl chloride	5.6	2.0		ug/L	244682	1	06/27/2017 14:00	LJ
Surr: 4-Bromofluorobenzene	88.2	66.1-129		%REC	244682	500	06/28/2017 16:09	LJ
Surr: 4-Bromofluorobenzene	85.5	66.1-129		%REC	244682	10	06/28/2017 15:43	LJ
Surr: 4-Bromofluorobenzene	87.4	66.1-129		%REC	244682	1	06/27/2017 14:00	LJ
Surr: Dibromofluoromethane	94.4	83.6-123		%REC	244682	500	06/28/2017 16:09	LJ
Surr: Dibromofluoromethane	95.4	83.6-123		%REC	244682	10	06/28/2017 15:43	LJ
Surr: Dibromofluoromethane	98.1	83.6-123		%REC	244682	1	06/27/2017 14:00	LJ
Surr: Toluene-d8	100	81.8-118		%REC	244682	500	06/28/2017 16:09	LJ
Surr: Toluene-d8	97.6	81.8-118		%REC	244682	1	06/27/2017 14:00	LJ
Surr: Toluene-d8	98.8	81.8-118		%REC	244682	10	06/28/2017 15:43	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	11	9.0		ug/L	244771	1	06/28/2017 13:56	EI
Ethylene	17	7.0		ug/L	244771	1	06/28/2017 13:56	EI
Methane	BRL	4.0		ug/L	244771	1	06/28/2017 13:56	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-48B
Project Name:	Rheem	**Collection Date:**	6/22/2017 3:00:00 PM
Lab ID:	1706N40-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.62	1.00		mg/L	R346600	1	06/29/2017 14:40	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,1,2-Trichloroethane	18	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,1-Dichloroethene	16	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/27/2017 14:26	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/27/2017 14:26	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/27/2017 14:26	LJ
Acetone	BRL	50		ug/L	244682	1	06/27/2017 14:26	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/27/2017 14:26	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/27/2017 14:26	LJ
cis-1,2-Dichloroethene	2700	100		ug/L	244682	20	06/28/2017 19:10	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Dichlorodifluoromethane	60	10		ug/L	244682	1	06/27/2017 14:26	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Freon-113	BRL	10		ug/L	244682	1	06/27/2017 14:26	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-MW-48B
Project Name:	Rheem	**Collection Date:**	6/22/2017 3:00:00 PM
Lab ID:	1706N40-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Trichloroethene	26000	2500		ug/L	244682	500	06/28/2017 12:41	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/27/2017 14:26	LJ
Vinyl chloride	2.7	2.0		ug/L	244682	1	06/27/2017 14:26	LJ
Surr: 4-Bromofluorobenzene	91.7	66.1-129		%REC	244682	500	06/28/2017 12:41	LJ
Surr: 4-Bromofluorobenzene	86.9	66.1-129		%REC	244682	1	06/27/2017 14:26	LJ
Surr: 4-Bromofluorobenzene	90.5	66.1-129		%REC	244682	20	06/28/2017 19:10	LJ
Surr: Dibromofluoromethane	96.8	83.6-123		%REC	244682	500	06/28/2017 12:41	LJ
Surr: Dibromofluoromethane	98.1	83.6-123		%REC	244682	1	06/27/2017 14:26	LJ
Surr: Dibromofluoromethane	94.9	83.6-123		%REC	244682	20	06/28/2017 19:10	LJ
Surr: Toluene-d8	98.4	81.8-118		%REC	244682	500	06/28/2017 12:41	LJ
Surr: Toluene-d8	95.8	81.8-118		%REC	244682	1	06/27/2017 14:26	LJ
Surr: Toluene-d8	99.4	81.8-118		%REC	244682	20	06/28/2017 19:10	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	244771	1	06/28/2017 15:46	EI
Ethylene	BRL	7.0		ug/L	244771	1	06/28/2017 15:46	EI
Methane	BRL	4.0		ug/L	244771	1	06/28/2017 15:46	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-PZ-7
Project Name:	Rheem	**Collection Date:**	6/22/2017 11:25:00 AM
Lab ID:	1706N40-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	16.5	1.00		mg/L	R346600	1	06/29/2017 17:26	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,1-Dichloroethene	48	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,2-Dichloroethane	5.2	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/29/2017 16:27	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/29/2017 16:27	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/29/2017 16:27	LJ
Acetone	BRL	50		ug/L	244682	1	06/29/2017 16:27	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/29/2017 16:27	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/29/2017 16:27	LJ
cis-1,2-Dichloroethene	24000	2500		ug/L	244682	500	06/28/2017 17:00	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Dichlorodifluoromethane	150	100		ug/L	244682	10	06/28/2017 16:34	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Freon-113	BRL	10		ug/L	244682	1	06/29/2017 16:27	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-PZ-7
Project Name:	Rheem	**Collection Date:**	6/22/2017 11:25:00 AM
Lab ID:	1706N40-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
trans-1,2-Dichloroethene	11	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Trichloroethene	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/29/2017 16:27	LJ
Vinyl chloride	16	2.0		ug/L	244682	1	06/29/2017 16:27	LJ
Surr: 4-Bromofluorobenzene	86.4	66.1-129		%REC	244682	500	06/28/2017 17:00	LJ
Surr: 4-Bromofluorobenzene	86.7	66.1-129		%REC	244682	1	06/29/2017 16:27	LJ
Surr: 4-Bromofluorobenzene	87.5	66.1-129		%REC	244682	10	06/28/2017 16:34	LJ
Surr: Dibromofluoromethane	96.6	83.6-123		%REC	244682	500	06/28/2017 17:00	LJ
Surr: Dibromofluoromethane	102	83.6-123		%REC	244682	1	06/29/2017 16:27	LJ
Surr: Dibromofluoromethane	101	83.6-123		%REC	244682	10	06/28/2017 16:34	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244682	500	06/28/2017 17:00	LJ
Surr: Toluene-d8	98.6	81.8-118		%REC	244682	1	06/29/2017 16:27	LJ
Surr: Toluene-d8	99.7	81.8-118		%REC	244682	10	06/28/2017 16:34	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	244771	1	06/28/2017 15:51	EI
Ethylene	BRL	7.0		ug/L	244771	1	06/28/2017 15:51	EI
Methane	53	4.0		ug/L	244771	1	06/28/2017 15:51	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	Trip Blank
Project Name:	Rheem	**Collection Date:**	6/23/2017 2:30:00 PM
Lab ID:	1706N40-007	**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	244682	1	06/28/2017 11:24	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/28/2017 11:24	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/28/2017 11:24	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/28/2017 11:24	LJ
Acetone	BRL	50		ug/L	244682	1	06/28/2017 11:24	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/28/2017 11:24	LJ
Chloroform	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/28/2017 11:24	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244682	1	06/28/2017 11:24	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Freon-113	BRL	10		ug/L	244682	1	06/28/2017 11:24	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	Trip Blank
Project Name:	Rheem	**Collection Date:**	6/23/2017 2:30:00 PM
Lab ID:	1706N40-007	**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	244682	1	06/28/2017 11:24	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Trichloroethene	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/28/2017 11:24	LJ
Vinyl chloride	BRL	2.0		ug/L	244682	1	06/28/2017 11:24	LJ
Surr: 4-Bromofluorobenzene	87.7	66.1-129		%REC	244682	1	06/28/2017 11:24	LJ
Surr: Dibromofluoromethane	98.9	83.6-123		%REC	244682	1	06/28/2017 11:24	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244682	1	06/28/2017 11:24	LJ

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17173-IW-1B
Project Name:	Rheem	**Collection Date:**	6/22/2017 10:57:00 AM
Lab ID:	1706N40-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.72	1.00		mg/L	R346600	1	06/29/2017 17:54	JM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,1,2-Trichloroethane	7.7	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,1-Dichloroethene	11	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
2-Butanone	BRL	50		ug/L	244682	1	06/27/2017 15:42	LJ
2-Hexanone	BRL	10		ug/L	244682	1	06/27/2017 15:42	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244682	1	06/27/2017 15:42	LJ
Acetone	77	50		ug/L	244682	1	06/27/2017 15:42	LJ
Benzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Bromodichloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Bromoform	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Bromomethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Carbon disulfide	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Chlorobenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Chloroethane	BRL	10		ug/L	244682	1	06/27/2017 15:42	LJ
Chloroform	6.4	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Chloromethane	BRL	10		ug/L	244682	1	06/27/2017 15:42	LJ
cis-1,2-Dichloroethene	190	50		ug/L	244682	10	06/28/2017 17:26	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Cyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Dibromochloromethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Dichlorodifluoromethane	130	100		ug/L	244682	10	06/28/2017 17:26	LJ
Ethylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Freon-113	BRL	10		ug/L	244682	1	06/27/2017 15:42	LJ
Isopropylbenzene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
m,p-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Methyl acetate	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1706N40-008

Client Sample ID: 17173-IW-1B
Collection Date: 6/22/2017 10:57:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Methylene chloride	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
o-Xylene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Styrene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Tetrachloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Toluene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Trichloroethene	18000	2500		ug/L	244682	500	06/28/2017 17:52	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244682	1	06/27/2017 15:42	LJ
Vinyl chloride	BRL	2.0		ug/L	244682	1	06/27/2017 15:42	LJ
Surr: 4-Bromofluorobenzene	86.7	66.1-129		%REC	244682	500	06/28/2017 17:52	LJ
Surr: 4-Bromofluorobenzene	88.3	66.1-129		%REC	244682	1	06/27/2017 15:42	LJ
Surr: 4-Bromofluorobenzene	90.2	66.1-129		%REC	244682	10	06/28/2017 17:26	LJ
Surr: Dibromofluoromethane	95.9	83.6-123		%REC	244682	500	06/28/2017 17:52	LJ
Surr: Dibromofluoromethane	96.2	83.6-123		%REC	244682	10	06/28/2017 17:26	LJ
Surr: Dibromofluoromethane	101	83.6-123		%REC	244682	1	06/27/2017 15:42	LJ
Surr: Toluene-d8	97.1	81.8-118		%REC	244682	500	06/28/2017 17:52	LJ
Surr: Toluene-d8	97.5	81.8-118		%REC	244682	1	06/27/2017 15:42	LJ
Surr: Toluene-d8	99	81.8-118		%REC	244682	10	06/28/2017 17:26	LJ
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	244771	1	06/28/2017 16:05	EI
Ethylene	BRL	7.0		ug/L	244771	1	06/28/2017 16:05	EI
Methane	24	4.0		ug/L	244771	1	06/28/2017 16:05	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

Clear Save as

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: ENVIRONMENTAL PLANNING SPECIALISTS, INC. AES Work Order Number: 1706N40

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other ______

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 1.0 °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). MDP 6/23/17

		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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ■ not listed on COC ☐	

27. Comments: ______

I certify that I have completed sections 16-27 (dated initials). BB 6/24/17

		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). BB 6/24/17

Checklist 1/19/17 Rev 0.

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: 244682

Sample ID: **MB-244682** Client ID: Units: **ug/L** Prep Date: **06/26/2017** Run No: **346281**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244682** Analysis Date: **06/26/2017** Seq No: **7604667**

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: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: **244682**

Sample ID: **MB-244682** Client ID: Units: **ug/L** Prep Date: **06/26/2017** Run No: **346281**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244682** Analysis Date: **06/26/2017** Seq No: **7604667**

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	42.84	0	50.00		85.7	66.1	129				
Surr: Dibromofluoromethane	49.18	0	50.00		98.4	83.6	123				
Surr: Toluene-d8	49.79	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: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: **244682**

Sample ID: **LCS-244682** Client ID: Units: **ug/L** Prep Date: **06/26/2017** Run No: **346281**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244682** Analysis Date: **06/26/2017** Seq No: **7604665**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.40	5.0	20.00		97.0	68	139				
Benzene	21.32	5.0	20.00		107	74	125				
Chlorobenzene	20.17	5.0	20.00		101	75.7	123				
Toluene	20.84	5.0	20.00		104	75.9	126				
Trichloroethene	18.80	5.0	20.00		94.0	70.6	129				
Surr: 4-Bromofluorobenzene	44.03	0	50.00		88.1	66.1	129				
Surr: Dibromofluoromethane	48.71	0	50.00		97.4	83.6	123				
Surr: Toluene-d8	49.24	0	50.00		98.5	81.8	118				

Sample ID: **1706N47-005AMS** Client ID: Units: **ug/L** Prep Date: **06/26/2017** Run No: **346475**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244682** Analysis Date: **06/28/2017** Seq No: **7609577**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	226.1	50	200.0		113	64.3	149				
Benzene	234.4	50	200.0		117	71.6	132				
Chlorobenzene	205.8	50	200.0		103	73.1	126				
Toluene	232.0	50	200.0		116	72.5	135				
Trichloroethene	213.1	50	200.0		107	70.2	132				
Surr: 4-Bromofluorobenzene	423.6	0	500.0		84.7	66.1	129				
Surr: Dibromofluoromethane	476.4	0	500.0		95.3	83.6	123				
Surr: Toluene-d8	499.2	0	500.0		99.8	81.8	118				

Sample ID: **1706N47-005AMSD** Client ID: Units: **ug/L** Prep Date: **06/26/2017** Run No: **346475**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244682** Analysis Date: **06/28/2017** Seq No: **7609578**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	241.8	50	200.0		121	64.3	149	226.1	6.71	30.8	
Benzene	227.9	50	200.0		114	71.6	132	234.4	2.81	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: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: **244682**

Sample ID: **1706N47-005AMSD** Client ID: Units: **ug/L** Prep Date: **06/26/2017** Run No: **346475**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244682** Analysis Date: **06/28/2017** Seq No: **7609578**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	213.1	50	200.0		107	73.1	126	205.8	3.49	26.6	
Toluene	225.2	50	200.0		113	72.5	135	232.0	2.97	23.2	
Trichloroethene	198.1	50	200.0		99.0	70.2	132	213.1	7.30	27.7	
Surr: 4-Bromofluorobenzene	448.6	0	500.0		89.7	66.1	129	423.6	0	0	
Surr: Dibromofluoromethane	466.6	0	500.0		93.3	83.6	123	476.4	0	0	
Surr: Toluene-d8	490.0	0	500.0		98.0	81.8	118	499.2	0	0	

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: **244771**

Sample ID: **MB-244771** Client ID: Units: **ug/L** Prep Date: **06/28/2017** Run No: **346607**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **244771** Analysis Date: **06/28/2017** Seq No: **7611022**

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-244771** Client ID: Units: **ug/L** Prep Date: **06/28/2017** Run No: **346607**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **244771** Analysis Date: **06/28/2017** Seq No: **7611024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	123.9	9.0	200.0		62.0	43.9	115				
Ethylene	83.08	7.0	200.0		41.5	29.6	115				
Methane	135.8	4.0	200.0		67.9	49.2	115				

Sample ID: **LCSD-244771** Client ID: Units: **ug/L** Prep Date: **06/28/2017** Run No: **346607**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **244771** Analysis Date: **06/28/2017** Seq No: **7611026**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	120.2	9.0	200.0		60.1	43.9	115	123.9	3.07	20	
Ethylene	80.84	7.0	200.0		40.4	29.6	115	83.08	2.74	20	
Methane	130.7	4.0	200.0		65.4	49.2	115	135.8	3.81	20	

Sample ID: **1706N40-001BMS** Client ID: **17173-MW-1** Units: **ug/L** Prep Date: **06/28/2017** Run No: **346607**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **244771** Analysis Date: **06/28/2017** Seq No: **7611052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	142.1	9.0	200.0		71.1	36.3	115				
Ethylene	95.74	7.0	200.0		47.9	27	115				
Methane	148.8	4.0	200.0		74.4	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: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: **244771**

Sample ID: **1706N40-001BMSD** Client ID: **17173-MW-1** Units: **ug/L** Prep Date: **06/28/2017** Run No: **346607**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **244771** Analysis Date: **06/28/2017** Seq No: **7611053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	136.8	9.0	200.0		68.4	36.3	115	142.1	3.83	20	
Ethylene	91.38	7.0	200.0		45.7	27	115	95.74	4.66	20	
Methane	142.1	4.0	200.0		71.0	40.5	115	148.8	4.61	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: 1706N40

ANALYTICAL QC SUMMARY REPORT

BatchID: **R346600**

Sample ID: **MB-R346600** Client ID: Units: **mg/L** Prep Date: Run No: **346600**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R346600** Analysis Date: **06/29/2017** Seq No: **7612336**

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-R346600** Client ID: Units: **mg/L** Prep Date: Run No: **346600**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R346600** Analysis Date: **06/29/2017** Seq No: **7612335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.37	1.00	25.00		101	90	110				

Sample ID: **1706N25-002FMS** Client ID: Units: **mg/L** Prep Date: Run No: **346600**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R346600** Analysis Date: **06/29/2017** Seq No: **7612340**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	27.81	1.00	25.00	3.023	99.1	80	120				

Sample ID: **1706N25-002FMSD** Client ID: Units: **mg/L** Prep Date: Run No: **346600**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R346600** Analysis Date: **06/29/2017** Seq No: **7612341**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	29.25	1.00	25.00	3.023	105	80	120	27.81	5.05	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		

microbialinsights

10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Suite 550
Atlanta, GA 30338

Phone:

Fax:

Identifier: 119OF **Date Rec:** 06/23/2017 **Report Date:** 06/27/2017

Client Project #: **Client Project Name:** Rheem Manufacturing

Purchase Order #:

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

CENSUS

Client: **Environmental Planning Specialists, Inc.**
Project: Rheem Manufacturing

MI Project Number: **119OF**
Date Received: 06/23/2017

Sample Information

Client Sample ID:		**17173-IW-1B**	**17173-PZ-7**	**17173-MW-9**	**17173-MW-5**	**17173-MW-48B**
Sample Date:		06/22/2017	06/22/2017	06/22/2017	06/22/2017	06/22/2017
Units:		cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst:		JS	JS	JS	JS	JS
Dechlorinating Bacteria						
Dehalococcoides	*DHC*	<5.00E-01	<5.00E-01	**3.95E+03**	<5.00E-01	<5.00E-01
tceA Reductase	TCE	<5.00E-01	<5.00E-01	**1.79E+03**	<5.00E-01	<5.00E-01
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
Vinyl Chloride Reductase	VCR	<5.00E-01	<5.00E-01	**2.03E+03**	<5.00E-01	<5.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Quality Assurance/Quality Control Data

Samples Received **6/23/2017**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	06/23/2017	06/27/2017	0 °C	101%	non-detect	non-detect
BVC	06/23/2017	06/27/2017	0 °C	103%	non-detect	non-detect
TCE	06/23/2017	06/27/2017	0 °C	100%	non-detect	non-detect
VCR	06/23/2017	06/27/2017	0 °C	109%	non-detect	non-detect

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 29, 2017

Justin Vickery
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Rheem

Dear Justin Vickery: Order No: 1706N41

Analytical Environmental Services, Inc. received 12 samples on June 23, 2017 2:30 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 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 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 07/01/17-06/30/18.
-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.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Chris Pafford

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1706N41

Date: 6-23-17 Page 1 of 1

COMPANY: EPS

ADDRESS: 1050 Crown Pointe Pkwy Ste 550
Atlanta Ga 30338

PHONE: 4043159113

EMAIL:

SAMPLED BY: B. Goldman / A Testoff

SIGNATURE:

ANALYSIS REQUESTED: VOCs

PRESERVATION (see codes): H+I

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOCs (H+I)	REMARKS	Number of Containers
1	17174-MW-41A-P	6-23-17	0930	X		GW	X		2
2	17174-MW-41B-P		0935	X		GW	X		2
3	17174-MW-41C-P		0945	X		GW	X		2
4	17174-MW-41D-P		0950	X		GW	X		2
5	17174-MW-41E-P		1010	X		GW	X		2
6	17174-MW-42A-P		0845	X		GW	X		2
7	17174-MW-42B-P		0850	X		GW	X		2
8	17174-MW-42C-P		0905	X		GW	X		2
9	17174-MW-42D-P		0910	X		GW	X		2
10	17174-MW-42E-P		1115	X		GW	X		2
11	17174-DUP-P		1200	X		GW	X		2
12	17174-Blank-P	6-23-17	1150	X		W	X		2
13									
14									

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	6-23-17 1430	1. Denita Omeraie	6/23/17 14:30
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
[✓ client] FedEx UPS US mail courier Greyhound
other: ____________

PROJECT INFORMATION
PROJECT NAME: Rheem
PROJECT #:
SITE ADDRESS: Milledgeville, GA
SEND REPORT TO: jvickery@envplanning.com & atestoff@envplanning.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:____________ PO#:____________

RECEIPT
Total # of Containers: 24

Turnaround Time (TAT) Request
☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same-Day Rush (auth req.)
☐ Other ____________

STATE PROGRAM (if any): ________
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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:** 28-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41A-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:30:00 AM
Lab ID:	1706N41-001	**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	244713	1	06/27/2017 23:05	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/27/2017 23:05	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/27/2017 23:05	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/27/2017 23:05	LJ
Acetone	BRL	50		ug/L	244713	1	06/27/2017 23:05	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/27/2017 23:05	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/27/2017 23:05	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/27/2017 23:05	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Freon-113	BRL	10		ug/L	244713	1	06/27/2017 23:05	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41A-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:30:00 AM
Lab ID:	1706N41-001	**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	244713	1	06/27/2017 23:05	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:05	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/27/2017 23:05	LJ
Surr: 4-Bromofluorobenzene	87.5	66.1-129		%REC	244713	1	06/27/2017 23:05	LJ
Surr: Dibromofluoromethane	95.8	83.6-123		%REC	244713	1	06/27/2017 23:05	LJ
Surr: Toluene-d8	99.2	81.8-118		%REC	244713	1	06/27/2017 23:05	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41B-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:35:00 AM
Lab ID:	1706N41-002	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B **(SW5030B)**

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/27/2017 23:30	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/27/2017 23:30	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/27/2017 23:30	LJ
Acetone	BRL	50		ug/L	244713	1	06/27/2017 23:30	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/27/2017 23:30	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/27/2017 23:30	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/27/2017 23:30	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Freon-113	BRL	10		ug/L	244713	1	06/27/2017 23:30	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41B-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:35:00 AM
Lab ID:	1706N41-002	**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	244713	1	06/27/2017 23:30	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:30	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/27/2017 23:30	LJ
Surr: 4-Bromofluorobenzene	89.6	66.1-129		%REC	244713	1	06/27/2017 23:30	LJ
Surr: Dibromofluoromethane	96.7	83.6-123		%REC	244713	1	06/27/2017 23:30	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244713	1	06/27/2017 23:30	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1706N41-003

Client Sample ID: 17174-MW-41C-P
Collection Date: 6/23/2017 9:45:00 AM
Matrix: Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/27/2017 23:57	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/27/2017 23:57	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/27/2017 23:57	LJ
Acetone	BRL	50		ug/L	244713	1	06/27/2017 23:57	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/27/2017 23:57	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/27/2017 23:57	LJ
cis-1,2-Dichloroethene	9.6	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/27/2017 23:57	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Freon-113	BRL	10		ug/L	244713	1	06/27/2017 23:57	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41C-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:45:00 AM
Lab ID:	1706N41-003	**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	244713	1	06/27/2017 23:57	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Trichloroethene	98	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/27/2017 23:57	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/27/2017 23:57	LJ
Surr: 4-Bromofluorobenzene	86.7	66.1-129		%REC	244713	1	06/27/2017 23:57	LJ
Surr: Dibromofluoromethane	98.1	83.6-123		%REC	244713	1	06/27/2017 23:57	LJ
Surr: Toluene-d8	102	81.8-118		%REC	244713	1	06/27/2017 23:57	LJ

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41D-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:50:00 AM
Lab ID:	1706N41-004	**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	244713	1	06/28/2017 00:23	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 00:23	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 00:23	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 00:23	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 00:23	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 00:23	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 00:23	LJ
cis-1,2-Dichloroethene	9.2	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 00:23	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 00:23	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41D-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:50:00 AM
Lab ID:	1706N41-004	**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	244713	1	06/28/2017 00:23	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Trichloroethene	140	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:23	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 00:23	LJ
Surr: 4-Bromofluorobenzene	92.2	66.1-129		%REC	244713	1	06/28/2017 00:23	LJ
Surr: Dibromofluoromethane	97	83.6-123		%REC	244713	1	06/28/2017 00:23	LJ
Surr: Toluene-d8	99.7	81.8-118		%REC	244713	1	06/28/2017 00:23	LJ

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41E-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 10:50:00 AM
Lab ID:	1706N41-005	**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	244713	1	06/28/2017 00:48	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 00:48	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 00:48	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 00:48	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 00:48	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 00:48	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 00:48	LJ
cis-1,2-Dichloroethene	7.6	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 00:48	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 00:48	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-41E-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 10:50:00 AM
Lab ID:	1706N41-005	**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	244713	1	06/28/2017 00:48	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 00:48	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 00:48	LJ
Surr: 4-Bromofluorobenzene	87.7	66.1-129		%REC	244713	1	06/28/2017 00:48	LJ
Surr: Dibromofluoromethane	98.3	83.6-123		%REC	244713	1	06/28/2017 00:48	LJ
Surr: Toluene-d8	100	81.8-118		%REC	244713	1	06/28/2017 00:48	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42A-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 8:45:00 AM
Lab ID:	1706N41-006	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 01:14	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 01:14	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 01:14	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 01:14	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 01:14	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 01:14	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 01:14	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 01:14	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42A-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 8:45:00 AM
Lab ID:	1706N41-006	**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	244713	1	06/28/2017 01:14	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:14	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 01:14	LJ
Surr: 4-Bromofluorobenzene	89.8	66.1-129		%REC	244713	1	06/28/2017 01:14	LJ
Surr: Dibromofluoromethane	98.7	83.6-123		%REC	244713	1	06/28/2017 01:14	LJ
Surr: Toluene-d8	102	81.8-118		%REC	244713	1	06/28/2017 01:14	LJ

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42B-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 8:50:00 AM
Lab ID:	1706N41-007	**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	244713	1	06/28/2017 01:40	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 01:40	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 01:40	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 01:40	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 01:40	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 01:40	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 01:40	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 01:40	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 01:40	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42B-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 8:50:00 AM
Lab ID:	1706N41-007	**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	244713	1	06/28/2017 01:40	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 01:40	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 01:40	LJ
Surr: 4-Bromofluorobenzene	89.2	66.1-129		%REC	244713	1	06/28/2017 01:40	LJ
Surr: Dibromofluoromethane	101	83.6-123		%REC	244713	1	06/28/2017 01:40	LJ
Surr: Toluene-d8	102	81.8-118		%REC	244713	1	06/28/2017 01:40	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42C-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:05:00 AM
Lab ID:	1706N41-008	**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	244713	1	06/28/2017 02:06	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 02:06	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 02:06	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 02:06	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 02:06	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 02:06	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 02:06	LJ
cis-1,2-Dichloroethene	11	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 02:06	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 02:06	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42C-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:05:00 AM
Lab ID:	1706N41-008	**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	244713	1	06/28/2017 02:06	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:06	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 02:06	LJ
Surr: 4-Bromofluorobenzene	85.3	66.1-129		%REC	244713	1	06/28/2017 02:06	LJ
Surr: Dibromofluoromethane	101	83.6-123		%REC	244713	1	06/28/2017 02:06	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244713	1	06/28/2017 02:06	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: 28-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42D-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:10:00 AM
Lab ID:	1706N41-009	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B **(SW5030B)**

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 02:32	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 02:32	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 02:32	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 02:32	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 02:32	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 02:32	LJ
cis-1,2-Dichloroethene	21	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 02:32	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 02:32	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42D-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 9:10:00 AM
Lab ID:	1706N41-009	**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	244713	1	06/28/2017 02:32	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Trichloroethene	78	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:32	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 02:32	LJ
Surr: 4-Bromofluorobenzene	88.1	66.1-129		%REC	244713	1	06/28/2017 02:32	LJ
Surr: Dibromofluoromethane	99.1	83.6-123		%REC	244713	1	06/28/2017 02:32	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244713	1	06/28/2017 02:32	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42E-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 11:15:00 AM
Lab ID:	1706N41-010	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 02:58	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 02:58	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 02:58	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 02:58	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 02:58	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 02:58	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 02:58	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 02:58	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	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: 28-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-MW-42E-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 11:15:00 AM
Lab ID:	1706N41-010	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Styrene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Trichloroethene	46	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 02:58	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 02:58	LJ
Surr: 4-Bromofluorobenzene	89	66.1-129		%REC	244713	1	06/28/2017 02:58	LJ
Surr: Dibromofluoromethane	98.5	83.6-123		%REC	244713	1	06/28/2017 02:58	LJ
Surr: Toluene-d8	98.3	81.8-118		%REC	244713	1	06/28/2017 02:58	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-DUP-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 12:00:00 PM
Lab ID:	1706N41-011	**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	244713	1	06/28/2017 03:24	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/28/2017 03:24	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/28/2017 03:24	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/28/2017 03:24	LJ
Acetone	BRL	50		ug/L	244713	1	06/28/2017 03:24	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/28/2017 03:24	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/28/2017 03:24	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/28/2017 03:24	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Freon-113	BRL	10		ug/L	244713	1	06/28/2017 03:24	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-DUP-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 12:00:00 PM
Lab ID:	1706N41-011	**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	244713	1	06/28/2017 03:24	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Trichloroethene	37	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/28/2017 03:24	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/28/2017 03:24	LJ
Surr: 4-Bromofluorobenzene	90.8	66.1-129		%REC	244713	1	06/28/2017 03:24	LJ
Surr: Dibromofluoromethane	94.8	83.6-123		%REC	244713	1	06/28/2017 03:24	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244713	1	06/28/2017 03:24	LJ

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1706N41-012

Client Sample ID: 17174-BLANK-P
Collection Date: 6/23/2017 11:50:00 AM
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	244713	1	06/27/2017 21:47	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
2-Butanone	BRL	50		ug/L	244713	1	06/27/2017 21:47	LJ
2-Hexanone	BRL	10		ug/L	244713	1	06/27/2017 21:47	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	244713	1	06/27/2017 21:47	LJ
Acetone	BRL	50		ug/L	244713	1	06/27/2017 21:47	LJ
Benzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Bromodichloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Bromoform	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Bromomethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Carbon disulfide	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Carbon tetrachloride	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Chlorobenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Chloroethane	BRL	10		ug/L	244713	1	06/27/2017 21:47	LJ
Chloroform	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Chloromethane	BRL	10		ug/L	244713	1	06/27/2017 21:47	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Cyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Dibromochloromethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Dichlorodifluoromethane	BRL	10		ug/L	244713	1	06/27/2017 21:47	LJ
Ethylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Freon-113	BRL	10		ug/L	244713	1	06/27/2017 21:47	LJ
Isopropylbenzene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
m,p-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Methyl acetate	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Methylcyclohexane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Methylene chloride	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
o-Xylene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17174-BLANK-P
Project Name:	Rheem	**Collection Date:**	6/23/2017 11:50:00 AM
Lab ID:	1706N41-012	**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	244713	1	06/27/2017 21:47	LJ
Tetrachloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Toluene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Trichloroethene	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	244713	1	06/27/2017 21:47	LJ
Vinyl chloride	BRL	2.0		ug/L	244713	1	06/27/2017 21:47	LJ
Surr: 4-Bromofluorobenzene	92.6	66.1-129		%REC	244713	1	06/27/2017 21:47	LJ
Surr: Dibromofluoromethane	99.4	83.6-123		%REC	244713	1	06/27/2017 21:47	LJ
Surr: Toluene-d8	101	81.8-118		%REC	244713	1	06/27/2017 21:47	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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: ENVIRONMENTAL PLANNING SPECIALISTS, INC. AES Work Order Number: 1706N41

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ______

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 1.0 °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). MDP 6/23/17

		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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ☒ not listed on COC ☐	

27. Comments: ______

I certify that I have completed sections 16-27 (dated initials). BB 6/24/17

		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). BB 6/24/17

Checklist 1/19/17 Rev 0.

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1706N41

ANALYTICAL QC SUMMARY REPORT

BatchID: **244713**

Sample ID: **MB-244713** Client ID: Units: **ug/L** Prep Date: **06/27/2017** Run No: **346437**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244713** Analysis Date: **06/27/2017** Seq No: **7607144**

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: 1706N41

ANALYTICAL QC SUMMARY REPORT

BatchID: **244713**

Sample ID: **MB-244713** Client ID: Units: **ug/L** Prep Date: **06/27/2017** Run No: **346437**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244713** Analysis Date: **06/27/2017** Seq No: **7607144**

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	43.98	0	50.00		88.0	66.1	129				
Surr: Dibromofluoromethane	49.71	0	50.00		99.4	83.6	123				
Surr: Toluene-d8	50.17	0	50.00		100	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: 1706N41

ANALYTICAL QC SUMMARY REPORT

BatchID: **244713**

Sample ID: **LCS-244713** Client ID: Units: **ug/L** Prep Date: **06/27/2017** Run No: **346437**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244713** Analysis Date: **06/27/2017** Seq No: **7607143**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	22.94	5.0	20.00		115	68	139				
Benzene	23.01	5.0	20.00		115	74	125				
Chlorobenzene	20.86	5.0	20.00		104	75.7	123				
Toluene	22.97	5.0	20.00		115	75.9	126				
Trichloroethene	20.45	5.0	20.00		102	70.6	129				
Surr: 4-Bromofluorobenzene	43.99	0	50.00		88.0	66.1	129				
Surr: Dibromofluoromethane	50.36	0	50.00		101	83.6	123				
Surr: Toluene-d8	50.09	0	50.00		100	81.8	118				

Sample ID: **1706N41-011AMS** Client ID: **17174-DUP-P** Units: **ug/L** Prep Date: **06/27/2017** Run No: **346447**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244713** Analysis Date: **06/28/2017** Seq No: **7607626**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	24.13	5.0	20.00		121	64.3	149				
Benzene	24.23	5.0	20.00		121	71.6	132				
Chlorobenzene	22.03	5.0	20.00		110	73.1	126				
Toluene	24.26	5.0	20.00		121	72.5	135				
Trichloroethene	57.17	5.0	20.00	36.65	103	70.2	132				
Surr: 4-Bromofluorobenzene	44.84	0	50.00		89.7	66.1	129				
Surr: Dibromofluoromethane	49.03	0	50.00		98.1	83.6	123				
Surr: Toluene-d8	50.08	0	50.00		100	81.8	118				

Sample ID: **1706N41-011AMSD** Client ID: **17174-DUP-P** Units: **ug/L** Prep Date: **06/27/2017** Run No: **346447**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244713** Analysis Date: **06/28/2017** Seq No: **7607627**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	24.40	5.0	20.00		122	64.3	149	24.13	1.11	30.8	
Benzene	23.63	5.0	20.00		118	71.6	132	24.23	2.51	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: 1706N41

ANALYTICAL QC SUMMARY REPORT

BatchID: **244713**

Sample ID: **1706N41-011AMSD** Client ID: **17174-DUP-P** Units: **ug/L** Prep Date: **06/27/2017** Run No: **346447**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **244713** Analysis Date: **06/28/2017** Seq No: **7607627**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	22.42	5.0	20.00		112	73.1	126	22.03	1.75	26.6	
Toluene	23.44	5.0	20.00		117	72.5	135	24.26	3.44	23.2	
Trichloroethene	56.35	5.0	20.00	36.65	98.5	70.2	132	57.17	1.44	27.7	
Surr: 4-Bromofluorobenzene	43.71	0	50.00		87.4	66.1	129	44.84	0	0	
Surr: Dibromofluoromethane	46.83	0	50.00		93.7	83.6	123	49.03	0	0	
Surr: Toluene-d8	49.04	0	50.00		98.1	81.8	118	50.08	0	0	

microbialinsights

10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Suite 550
Atlanta, GA 30338

Phone:

Fax:

Identifier: 006OH

Date Rec: 08/01/2017

Report Date: 08/07/2017

Client Project #:

Client Project Name: Rheem Manufacturing

Purchase Order #:

Analysis Requested: CENSUS

Reviewed By:

Joan Spen

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

CENSUS

Client: **Environmental Planning Specialists, Inc.**
Project: Rheem Manufacturing

MI Project Number: **006OH**
Date Received: 08/01/2017

Sample Information

	17212-PTW-1	**17212-PTW-4**	**17212-PTW-5**	**17212-PTW-6**	**17212-PTW-7**
Client Sample ID:	**17212-PTW-1**	**17212-PTW-4**	**17212-PTW-5**	**17212-PTW-6**	**17212-PTW-7**
Sample Date:	07/31/2017	07/31/2017	07/31/2017	07/31/2017	07/31/2017
Units:	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:	JS	JS	JS	JS	JS

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**3.94E+03**	**1.30E+00**	**4.85E+01**	**1.30E+00**	**5.00E+00**
tceA Reductase	TCE	**5.69E+03**	**2.00E-01 (J)**	**1.27E+02**	**5.20E+00**	**8.10E+00**
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<7.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
Vinyl Chloride Reductase	VCR	**5.08E+03**	<7.00E-01	**1.48E+02**	**4.10E+00**	**9.00E+00**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Environmental Planning Specialists, Inc.**
Project: Rheem Manufacturing

MI Project Number: **006OH**
Date Received: 08/01/2017

Sample Information

Client Sample ID:		**17212-PTW-8**	**17213-PTW-2**	**17213-PTW-3**
Sample Date:		07/31/2017	08/01/2017	08/01/2017
Units:		cells/mL	cells/mL	cells/mL
Analyst/Reviewer:		JS	JS	JS
Dechlorinating Bacteria				
Dehalococcoides	*DHC*	<5.00E-01	**2.90E+00**	<1.00E+00
tceA Reductase	TCE	<5.00E-01	<1.00E+00	<1.00E+00
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<1.00E+00	<1.00E+00
Vinyl Chloride Reductase	VCR	<5.00E-01	**2.70E+00**	<1.00E+00

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Quality Assurance/Quality Control Data

Samples Received **8/1/2017**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	08/01/2017	08/07/2017	0 °C	102%	non-detect	non-detect
BVC	08/01/2017	08/07/2017	0 °C	102%	non-detect	non-detect
TCE	08/01/2017	08/07/2017	0 °C	99%	non-detect	non-detect
VCR	08/01/2017	08/07/2017	0 °C	105%	non-detect	non-detect

Samples Received **8/2/2017**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	08/02/2017	08/07/2017	2 °C	104%	non-detect	non-detect
BVC	08/02/2017	08/07/2017	2 °C	100%	non-detect	non-detect
TCE	08/02/2017	08/07/2017	2 °C	98%	non-detect	non-detect
VCR	08/02/2017	08/07/2017	2 °C	101%	non-detect	non-detect

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 05, 2017

Justin Vickery
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Rheem

Dear Justin Vickery: Order No: 1708O36

Analytical Environmental Services, Inc. received 12 samples on August 24, 2017 1:30 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:
-NELAP/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions for Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/17.

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,

Chris Pafford

Project Manager

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1708036

Date: 8/23/17 Page 1 of 1

COMPANY: EPS Inc.

ADDRESS: 1050 Crown Pointe Pkwy, Ste. 55
Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff

SIGNATURE:

ANALYSIS REQUESTED: VOCs

PRESERVATION (see codes): H+I

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOCs	REMARKS	Number of Containers
1	17234-MW-41A-P	8/22/17	1027	X		GW	X		2
2	17234-MW-41B-P	↓	1050	X		GW	X		2
3	17234-MW-41C-P	↓	1015	X		GW	X		2
4	17234-MW-41D-P	↓	1107	X		GW	X		2
5	17234-MW-41E-P	↓	1040	X		GW	X		2
6	17234-MW-42A-P	↓	0920	X		GW	X		2
7	17234-MW-42B-P	↓	0930	X		GW	X		2
8	17234-MW-42C-P	↓	0942	X		GW	X		2
9	17234-MW-42D-P	↓	0955	X		GW	X		2
10	17234-MW-42E-P	↓	1005	X		GW	X		2
11	17234-DUP-P	↓	1200	X		GW	X		2
12	17234-Blank-P	8/22/17	1115	X		W	X		2
13									
14									

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	8/24/17 1330	1.	8/24/17 1330
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: Rheem

PROJECT #:

SITE ADDRESS: Milledgeville, GA

SEND REPORT TO: Jvickery@envplanning.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 24

Turnaround Time (TAT) Request
☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same-Day Rush **(auth req.)**
☐ Other

STATE PROGRAM (if any):
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
[✓ client] FedEx UPS US mail courier Greyhound other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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:** 31-Aug-17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1708O36-001

Client Sample ID: 17234-MW-41A-P
Collection Date: 8/22/2017 10:27:00 AM
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	247688	1	08/29/2017 21:17	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 21:17	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 21:17	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 21:17	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 21:17	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 21:17	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 21:17	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 21:17	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 21:17	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR

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:**	17234-MW-41A-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:27:00 AM
Lab ID:	1708O36-001	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Styrene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:17	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 21:17	AR
Surr: 4-Bromofluorobenzene	100	66.1-129		%REC	247688	1	08/29/2017 21:17	AR
Surr: Dibromofluoromethane	103	83.6-123		%REC	247688	1	08/29/2017 21:17	AR
Surr: Toluene-d8	106	81.8-118		%REC	247688	1	08/29/2017 21:17	AR

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-41B-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:50:00 AM
Lab ID:	1708O36-002	**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	247688	1	08/29/2017 21:41	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 21:41	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 21:41	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 21:41	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 21:41	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 21:41	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 21:41	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 21:41	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 21:41	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR

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:**	17234-MW-41B-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:50:00 AM
Lab ID:	1708O36-002	**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	247688	1	08/29/2017 21:41	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 21:41	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 21:41	AR
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	247688	1	08/29/2017 21:41	AR
Surr: Dibromofluoromethane	102	83.6-123		%REC	247688	1	08/29/2017 21:41	AR
Surr: Toluene-d8	104	81.8-118		%REC	247688	1	08/29/2017 21:41	AR

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-41C-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:15:00 AM
Lab ID:	1708O36-003	**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	247688	1	08/29/2017 22:05	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 22:05	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 22:05	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 22:05	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 22:05	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 22:05	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 22:05	AR
cis-1,2-Dichloroethene	23	5.0		ug/L	247688	1	08/29/2017 22:05	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 22:05	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 22:05	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR

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:**	17234-MW-41C-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:15:00 AM
Lab ID:	1708O36-003	**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	247688	1	08/29/2017 22:05	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Trichloroethene	120	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:05	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 22:05	AR
Surr: 4-Bromofluorobenzene	98.6	66.1-129		%REC	247688	1	08/29/2017 22:05	AR
Surr: Dibromofluoromethane	102	83.6-123		%REC	247688	1	08/29/2017 22:05	AR
Surr: Toluene-d8	106	81.8-118		%REC	247688	1	08/29/2017 22:05	AR

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.
Project Name: Rheem
Lab ID: 1708O36-004

Client Sample ID: 17234-MW-41D-P
Collection Date: 8/22/2017 11:07:00 AM
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	247688	1	08/29/2017 22:30	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 22:30	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 22:30	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 22:30	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 22:30	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 22:30	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 22:30	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 22:30	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 22:30	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR

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:**	17234-MW-41D-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 11:07:00 AM
Lab ID:	1708O36-004	**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	247688	1	08/29/2017 22:30	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Trichloroethene	21	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:30	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 22:30	AR
Surr: 4-Bromofluorobenzene	102	66.1-129		%REC	247688	1	08/29/2017 22:30	AR
Surr: Dibromofluoromethane	105	83.6-123		%REC	247688	1	08/29/2017 22:30	AR
Surr: Toluene-d8	105	81.8-118		%REC	247688	1	08/29/2017 22:30	AR

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-41E-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:40:00 AM
Lab ID:	1708O36-005	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 22:54	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 22:54	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 22:54	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 22:54	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 22:54	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 22:54	AR
cis-1,2-Dichloroethene	7.4	5.0		ug/L	247688	1	08/29/2017 22:54	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 22:54	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 22:54	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR

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.
Project Name: Rheem
Lab ID: 1708O36-005

Client Sample ID: 17234-MW-41E-P
Collection Date: 8/22/2017 10:40:00 AM
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	247688	1	08/29/2017 22:54	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 22:54	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 22:54	AR
Surr: 4-Bromofluorobenzene	99.6	66.1-129		%REC	247688	1	08/29/2017 22:54	AR
Surr: Dibromofluoromethane	102	83.6-123		%REC	247688	1	08/29/2017 22:54	AR
Surr: Toluene-d8	106	81.8-118		%REC	247688	1	08/29/2017 22:54	AR

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:**	17234-MW-42A-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:20:00 AM
Lab ID:	1708O36-006	**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	247688	1	08/29/2017 23:19	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 23:19	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 23:19	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 23:19	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 23:19	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 23:19	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 23:19	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 23:19	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 23:19	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR

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.
Project Name: Rheem
Lab ID: 1708O36-006

Client Sample ID: 17234-MW-42A-P
Collection Date: 8/22/2017 9:20:00 AM
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	247688	1	08/29/2017 23:19	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:19	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 23:19	AR
Surr: 4-Bromofluorobenzene	100	66.1-129		%REC	247688	1	08/29/2017 23:19	AR
Surr: Dibromofluoromethane	104	83.6-123		%REC	247688	1	08/29/2017 23:19	AR
Surr: Toluene-d8	105	81.8-118		%REC	247688	1	08/29/2017 23:19	AR

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-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-42B-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:30:00 AM
Lab ID:	1708O36-007	**Matrix:**	Groundwater

TCL VOLATILE ORGANICS SW8260B (SW5030B)

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,1,1-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
2-Butanone	BRL	50		ug/L	247688	1	08/29/2017 23:43	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/29/2017 23:43	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/29/2017 23:43	AR
Acetone	BRL	50		ug/L	247688	1	08/29/2017 23:43	AR
Benzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Chloroethane	BRL	10		ug/L	247688	1	08/29/2017 23:43	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Chloromethane	BRL	10		ug/L	247688	1	08/29/2017 23:43	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/29/2017 23:43	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Freon-113	BRL	10		ug/L	247688	1	08/29/2017 23:43	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR

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:**	17234-MW-42B-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:30:00 AM
Lab ID:	1708O36-007	**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	247688	1	08/29/2017 23:43	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Toluene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/29/2017 23:43	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/29/2017 23:43	AR
Surr: 4-Bromofluorobenzene	99.6	66.1-129		%REC	247688	1	08/29/2017 23:43	AR
Surr: Dibromofluoromethane	104	83.6-123		%REC	247688	1	08/29/2017 23:43	AR
Surr: Toluene-d8	106	81.8-118		%REC	247688	1	08/29/2017 23:43	AR

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:**	17234-MW-42C-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:42:00 AM
Lab ID:	1708O36-008	**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	247688	1	08/30/2017 00:08	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
2-Butanone	BRL	50		ug/L	247688	1	08/30/2017 00:08	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/30/2017 00:08	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/30/2017 00:08	AR
Acetone	BRL	50		ug/L	247688	1	08/30/2017 00:08	AR
Benzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Chloroethane	BRL	10		ug/L	247688	1	08/30/2017 00:08	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Chloromethane	BRL	10		ug/L	247688	1	08/30/2017 00:08	AR
cis-1,2-Dichloroethene	13	5.0		ug/L	247688	1	08/30/2017 00:08	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/30/2017 00:08	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Freon-113	BRL	10		ug/L	247688	1	08/30/2017 00:08	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR

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:**	17234-MW-42C-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:42:00 AM
Lab ID:	1708O36-008	**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	247688	1	08/30/2017 00:08	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Toluene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:08	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/30/2017 00:08	AR
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	247688	1	08/30/2017 00:08	AR
Surr: Dibromofluoromethane	105	83.6-123		%REC	247688	1	08/30/2017 00:08	AR
Surr: Toluene-d8	107	81.8-118		%REC	247688	1	08/30/2017 00:08	AR

Analytical Environmental Services, Inc **Date:** 31-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-42D-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:55:00 AM
Lab ID:	1708O36-009	**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	247688	1	08/30/2017 00:32	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
2-Butanone	BRL	50		ug/L	247688	1	08/30/2017 00:32	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/30/2017 00:32	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/30/2017 00:32	AR
Acetone	BRL	50		ug/L	247688	1	08/30/2017 00:32	AR
Benzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Chloroethane	BRL	10		ug/L	247688	1	08/30/2017 00:32	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Chloromethane	BRL	10		ug/L	247688	1	08/30/2017 00:32	AR
cis-1,2-Dichloroethene	5.7	5.0		ug/L	247688	1	08/30/2017 00:32	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/30/2017 00:32	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Freon-113	BRL	10		ug/L	247688	1	08/30/2017 00:32	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR

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:**	17234-MW-42D-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 9:55:00 AM
Lab ID:	1708O36-009	**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	247688	1	08/30/2017 00:32	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Toluene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Trichloroethene	87	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:32	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/30/2017 00:32	AR
Surr: 4-Bromofluorobenzene	102	66.1-129		%REC	247688	1	08/30/2017 00:32	AR
Surr: Dibromofluoromethane	104	83.6-123		%REC	247688	1	08/30/2017 00:32	AR
Surr: Toluene-d8	104	81.8-118		%REC	247688	1	08/30/2017 00:32	AR

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-42E-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:05:00 AM
Lab ID:	1708O36-010	**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	247688	1	08/30/2017 00:56	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
2-Butanone	BRL	50		ug/L	247688	1	08/30/2017 00:56	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/30/2017 00:56	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/30/2017 00:56	AR
Acetone	BRL	50		ug/L	247688	1	08/30/2017 00:56	AR
Benzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Chloroethane	BRL	10		ug/L	247688	1	08/30/2017 00:56	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Chloromethane	BRL	10		ug/L	247688	1	08/30/2017 00:56	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/30/2017 00:56	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Freon-113	BRL	10		ug/L	247688	1	08/30/2017 00:56	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR

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:**	17234-MW-42E-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 10:05:00 AM
Lab ID:	1708O36-010	**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	247688	1	08/30/2017 00:56	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Toluene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Trichloroethene	53	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/30/2017 00:56	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/30/2017 00:56	AR
Surr: 4-Bromofluorobenzene	99.5	66.1-129		%REC	247688	1	08/30/2017 00:56	AR
Surr: Dibromofluoromethane	108	83.6-123		%REC	247688	1	08/30/2017 00:56	AR
Surr: Toluene-d8	106	81.8-118		%REC	247688	1	08/30/2017 00:56	AR

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:**	17234-DUP-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 12:00:00 PM
Lab ID:	1708O36-011	**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	247688	1	08/30/2017 01:21	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
2-Butanone	BRL	50		ug/L	247688	1	08/30/2017 01:21	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/30/2017 01:21	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/30/2017 01:21	AR
Acetone	BRL	50		ug/L	247688	1	08/30/2017 01:21	AR
Benzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Chloroethane	BRL	10		ug/L	247688	1	08/30/2017 01:21	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Chloromethane	BRL	10		ug/L	247688	1	08/30/2017 01:21	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/30/2017 01:21	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Freon-113	BRL	10		ug/L	247688	1	08/30/2017 01:21	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR

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:**	17234-DUP-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 12:00:00 PM
Lab ID:	1708O36-011	**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	247688	1	08/30/2017 01:21	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Toluene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:21	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/30/2017 01:21	AR
Surr: 4-Bromofluorobenzene	98.8	66.1-129		%REC	247688	1	08/30/2017 01:21	AR
Surr: Dibromofluoromethane	102	83.6-123		%REC	247688	1	08/30/2017 01:21	AR
Surr: Toluene-d8	104	81.8-118		%REC	247688	1	08/30/2017 01:21	AR

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-BLANK-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 11:15:00 AM
Lab ID:	1708O36-012	**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	247688	1	08/30/2017 01:45	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
2-Butanone	BRL	50		ug/L	247688	1	08/30/2017 01:45	AR
2-Hexanone	BRL	10		ug/L	247688	1	08/30/2017 01:45	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247688	1	08/30/2017 01:45	AR
Acetone	BRL	50		ug/L	247688	1	08/30/2017 01:45	AR
Benzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Bromodichloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Bromoform	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Bromomethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Carbon disulfide	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Carbon tetrachloride	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Chlorobenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Chloroethane	BRL	10		ug/L	247688	1	08/30/2017 01:45	AR
Chloroform	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Chloromethane	BRL	10		ug/L	247688	1	08/30/2017 01:45	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Cyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Dibromochloromethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Dichlorodifluoromethane	BRL	10		ug/L	247688	1	08/30/2017 01:45	AR
Ethylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Freon-113	BRL	10		ug/L	247688	1	08/30/2017 01:45	AR
Isopropylbenzene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
m,p-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Methyl acetate	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Methylcyclohexane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Methylene chloride	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
o-Xylene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR

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:**	17234-BLANK-P
Project Name:	Rheem	**Collection Date:**	8/22/2017 11:15:00 AM
Lab ID:	1708O36-012	**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	247688	1	08/30/2017 01:45	AR
Tetrachloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Toluene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Trichloroethene	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247688	1	08/30/2017 01:45	AR
Vinyl chloride	BRL	2.0		ug/L	247688	1	08/30/2017 01:45	AR
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	247688	1	08/30/2017 01:45	AR
Surr: Dibromofluoromethane	101	83.6-123		%REC	247688	1	08/30/2017 01:45	AR
Surr: Toluene-d8	103	81.8-118		%REC	247688	1	08/30/2017 01:45	AR

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

Clear | Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.** AES Work Order Number: **1708O36**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ____________

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 0.8 °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 8/24/17

	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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ☐ not listed on COC ☒	

27. Comments: ____________________

I certify that I have completed sections 16-27 (dated initials). BU 8/24/17

This section only applies to samples where pH can be checked at Sample Receipt.

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

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BU 8/24/17

Checklist 6.9.17 Rev 2

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1708O36

ANALYTICAL QC SUMMARY REPORT

BatchID: **247688**

Sample ID: **MB-247688** Client ID: Units: **ug/L** Prep Date: **08/29/2017** Run No: **350947**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247688** Analysis Date: **08/29/2017** Seq No: **7713789**

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									

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1708O36

ANALYTICAL QC SUMMARY REPORT

BatchID: **247688**

Sample ID: **MB-247688** Client ID: Units: **ug/L** Prep Date: **08/29/2017** Run No: **350947**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247688** Analysis Date: **08/29/2017** Seq No: **7713789**

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	49.17	0	50.00		98.3	66.1	129				
Surr: Dibromofluoromethane	53.55	0	50.00		107	83.6	123				
Surr: Toluene-d8	55.47	0	50.00		111	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: 1708O36

ANALYTICAL QC SUMMARY REPORT

BatchID: **247688**

Sample ID: **LCS-247688** Client ID: Units: **ug/L** Prep Date: **08/29/2017** Run No: **351046**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247688** Analysis Date: **08/31/2017** Seq No: **7716947**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.45	5.0	20.00		97.2	68	139				
Benzene	19.62	5.0	20.00		98.1	74	125				
Chlorobenzene	20.83	5.0	20.00		104	75.7	123				
Toluene	20.35	5.0	20.00		102	75.9	126				
Trichloroethene	19.63	5.0	20.00		98.2	70.6	129				
Surr: 4-Bromofluorobenzene	50.90	0	50.00		102	66.1	129				
Surr: Dibromofluoromethane	48.68	0	50.00		97.4	83.6	123				
Surr: Toluene-d8	50.05	0	50.00		100	81.8	118				

Sample ID: **1708O36-001AMS** Client ID: **17234-MW-41A-P** Units: **ug/L** Prep Date: **08/29/2017** Run No: **351254**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247688** Analysis Date: **09/05/2017** Seq No: **7722180**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	60.54	5.0	50.00		121	64.3	149				
Benzene	60.37	5.0	50.00		121	71.6	132				
Chlorobenzene	56.69	5.0	50.00		113	73.1	126				
Toluene	60.10	5.0	50.00		120	72.5	135				
Trichloroethene	58.37	5.0	50.00		117	70.2	132				
Surr: 4-Bromofluorobenzene	47.32	0	50.00		94.6	66.1	129				
Surr: Dibromofluoromethane	50.90	0	50.00		102	83.6	123				
Surr: Toluene-d8	50.52	0	50.00		101	81.8	118				

Sample ID: **1708O36-001AMSD** Client ID: **17234-MW-41A-P** Units: **ug/L** Prep Date: **08/29/2017** Run No: **351254**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247688** Analysis Date: **09/05/2017** Seq No: **7722181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.94	5.0	50.00		104	64.3	149	60.54	15.3	30.8	
Benzene	52.46	5.0	50.00		105	71.6	132	60.37	14.0	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: 1708O36

ANALYTICAL QC SUMMARY REPORT

BatchID: **247688**

Sample ID: **1708O36-001AMSD** Client ID: **17234-MW-41A-P** Units: **ug/L** Prep Date: **08/29/2017** Run No: **351254**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247688** Analysis Date: **09/05/2017** Seq No: **7722181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	50.13	5.0	50.00		100	73.1	126	56.69	12.3	26.6	
Toluene	51.99	5.0	50.00		104	72.5	135	60.10	14.5	23.2	
Trichloroethene	50.45	5.0	50.00		101	70.2	132	58.37	14.6	27.7	
Surr: 4-Bromofluorobenzene	48.36	0	50.00		96.7	66.1	129	47.32	0	0	
Surr: Dibromofluoromethane	50.94	0	50.00		102	83.6	123	50.90	0	0	
Surr: Toluene-d8	50.36	0	50.00		101	81.8	118	50.52	0	0	

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 31, 2017

Justin Vickery
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Rheem

Dear Justin Vickery: Order No: 1708O37

Analytical Environmental Services, Inc. received 12 samples on 8/24/2017 1:30:00 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:
-NELAP/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions for Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/17.

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,

Christopher Pafford

Chris Pafford

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1708037
Date: 8/23/17 Page 1 of 1

COMPANY: EPS Inc

ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550
Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff, Joe Terry

SIGNATURE:

ANALYSIS REQUESTED: VOC

PRESERVATION (see codes): H+I

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOC (H+I)	REMARKS	Number of Containers
1	17235-MW-33	8/23/17	1410	X		GW	X		2
2	17235-MW-34	8/23/17	1210	X			X		2
3	17235-MW-35	8/23/17	1050	X			X		2
4	17235-MW-36	8/23/17	0855	X			X		2
5	17235-MW-43	8/23/17	1425	X			X		2
6	17235-MW-44	8/23/17	1005	X			X		2
7	17234-MW-45	8/22/17	1435	X			X		2
8	17235-MW-46	8/23/17	1200	X			X		2
9	17235-MW-47	8/23/17	1120	X			X		2
10	17234-MW-54	8/22/17	1605	X		↓	X		2
11	17234-DUP	8/22/17	1200	X		GW	X		2
12	Trip Blank					W	X		2
13									
14									

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	8/24/17 1330	1.	8/24/17 1330
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: Rheem

PROJECT #:

SITE ADDRESS: Milledgeville, GA

SEND REPORT TO: jvickery@envplanning.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:______ PO#:______

RECEIPT

Total # of Containers: 24

Turnaround Time (TAT) Request

☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same-Day Rush **(auth req.)**
☐ Other ______

STATE PROGRAM (if any): ______

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:
IN: / / VIA:
[✓ client] FedEx UPS US mail courier Greyhound other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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.	**Client Sample ID:**	17235-MW-33
Project Name:	Rheem	**Collection Date:**	8/23/2017 2:10:00 PM
Lab ID:	1708O37-001	**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	247647	1	08/28/2017 20:41	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 20:41	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 20:41	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 20:41	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 20:41	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 20:41	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 20:41	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 20:41	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 20:41	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR

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-Aug-17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1708O37-001

Client Sample ID: 17235-MW-33
Collection Date: 8/23/2017 2:10:00 PM
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	247647	1	08/28/2017 20:41	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Trichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 20:41	AR
Vinyl chloride	41	2.0		ug/L	247647	1	08/28/2017 20:41	AR
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	247647	1	08/28/2017 20:41	AR
Surr: Dibromofluoromethane	101	83.6-123		%REC	247647	1	08/28/2017 20:41	AR
Surr: Toluene-d8	94.7	81.8-118		%REC	247647	1	08/28/2017 20:41	AR

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.
Project Name: Rheem
Lab ID: 1708O37-002

Client Sample ID: 17235-MW-34
Collection Date: 8/23/2017 12:10:00 PM
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	247647	1	08/28/2017 21:05	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 21:05	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 21:05	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 21:05	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 21:05	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 21:05	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 21:05	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 21:05	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 21:05	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR

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:**	17235-MW-34
Project Name:	Rheem	**Collection Date:**	8/23/2017 12:10:00 PM
Lab ID:	1708O37-002	**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	247647	1	08/28/2017 21:05	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Trichloroethene	52	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:05	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 21:05	AR
Surr: 4-Bromofluorobenzene	97.9	66.1-129		%REC	247647	1	08/28/2017 21:05	AR
Surr: Dibromofluoromethane	108	83.6-123		%REC	247647	1	08/28/2017 21:05	AR
Surr: Toluene-d8	98.4	81.8-118		%REC	247647	1	08/28/2017 21:05	AR

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-Aug-17

Client: Environmental Planning Specialists, Inc. **Client Sample ID:** 17235-MW-35
Project Name: Rheem **Collection Date:** 8/23/2017 10:50:00 AM
Lab ID: 1708O37-003 **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	247647	1	08/28/2017 21:28	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 21:28	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 21:28	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 21:28	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 21:28	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 21:28	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 21:28	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 21:28	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 21:28	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR

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.
Project Name: Rheem
Lab ID: 1708O37-003

Client Sample ID: 17235-MW-35
Collection Date: 8/23/2017 10:50:00 AM
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	247647	1	08/28/2017 21:28	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Trichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:28	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 21:28	AR
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	247647	1	08/28/2017 21:28	AR
Surr: Dibromofluoromethane	111	83.6-123		%REC	247647	1	08/28/2017 21:28	AR
Surr: Toluene-d8	99.7	81.8-118		%REC	247647	1	08/28/2017 21:28	AR

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:**	17235-MW-36
Project Name:	Rheem	**Collection Date:**	8/23/2017 8:55:00 AM
Lab ID:	1708O37-004	**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	247647	1	08/28/2017 21:52	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 21:52	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 21:52	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 21:52	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 21:52	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 21:52	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 21:52	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 21:52	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 21:52	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR

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:**	17235-MW-36
Project Name:	Rheem	**Collection Date:**	8/23/2017 8:55:00 AM
Lab ID:	1708O37-004	**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	247647	1	08/28/2017 21:52	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Trichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 21:52	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 21:52	AR
Surr: 4-Bromofluorobenzene	95.1	66.1-129		%REC	247647	1	08/28/2017 21:52	AR
Surr: Dibromofluoromethane	107	83.6-123		%REC	247647	1	08/28/2017 21:52	AR
Surr: Toluene-d8	96.2	81.8-118		%REC	247647	1	08/28/2017 21:52	AR

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:**	17235-MW-43
Project Name:	Rheem	**Collection Date:**	8/23/2017 2:25:00 PM
Lab ID:	1708O37-005	**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	247647	1	08/28/2017 22:15	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 22:15	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 22:15	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 22:15	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 22:15	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 22:15	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 22:15	AR
cis-1,2-Dichloroethene	9.9	5.0		ug/L	247647	1	08/28/2017 22:15	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 22:15	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 22:15	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR

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:**	17235-MW-43
Project Name:	Rheem	**Collection Date:**	8/23/2017 2:25:00 PM
Lab ID:	1708O37-005	**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	247647	1	08/28/2017 22:15	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Trichloroethene	120	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:15	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 22:15	AR
Surr: 4-Bromofluorobenzene	89	66.1-129		%REC	247647	1	08/28/2017 22:15	AR
Surr: Dibromofluoromethane	95	83.6-123		%REC	247647	1	08/28/2017 22:15	AR
Surr: Toluene-d8	99	81.8-118		%REC	247647	1	08/28/2017 22:15	AR

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17235-MW-44
Project Name:	Rheem	**Collection Date:**	8/23/2017 10:05:00 AM
Lab ID:	1708O37-006	**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	247647	1	08/28/2017 22:38	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 22:38	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 22:38	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 22:38	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 22:38	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 22:38	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 22:38	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 22:38	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 22:38	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR

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.
Project Name: Rheem
Lab ID: 1708O37-006

Client Sample ID: 17235-MW-44
Collection Date: 8/23/2017 10:05:00 AM
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	247647	1	08/28/2017 22:38	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Trichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 22:38	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 22:38	AR
Surr: 4-Bromofluorobenzene	102	66.1-129		%REC	247647	1	08/28/2017 22:38	AR
Surr: Dibromofluoromethane	111	83.6-123		%REC	247647	1	08/28/2017 22:38	AR
Surr: Toluene-d8	96.6	81.8-118		%REC	247647	1	08/28/2017 22:38	AR

Analytical Environmental Services, Inc **Date:** 31-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-45
Project Name:	Rheem	**Collection Date:**	8/22/2017 2:35:00 PM
Lab ID:	1708O37-007	**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	247647	1	08/28/2017 23:02	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 23:02	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 23:02	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 23:02	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 23:02	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 23:02	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 23:02	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 23:02	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 23:02	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR

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.
Project Name: Rheem
Lab ID: 1708O37-007

Client Sample ID: 17234-MW-45
Collection Date: 8/22/2017 2:35:00 PM
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	247647	1	08/28/2017 23:02	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Trichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:02	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 23:02	AR
Surr: 4-Bromofluorobenzene	92.9	66.1-129		%REC	247647	1	08/28/2017 23:02	AR
Surr: Dibromofluoromethane	98.1	83.6-123		%REC	247647	1	08/28/2017 23:02	AR
Surr: Toluene-d8	97.8	81.8-118		%REC	247647	1	08/28/2017 23:02	AR

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17235-MW-46
Project Name:	Rheem	**Collection Date:**	8/23/2017 12:00:00 PM
Lab ID:	1708O37-008	**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	247647	1	08/28/2017 23:26	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
2-Butanone	BRL	50		ug/L	247647	1	08/28/2017 23:26	AR
2-Hexanone	BRL	10		ug/L	247647	1	08/28/2017 23:26	AR
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/28/2017 23:26	AR
Acetone	BRL	50		ug/L	247647	1	08/28/2017 23:26	AR
Benzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Bromoform	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Bromomethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Chloroethane	BRL	10		ug/L	247647	1	08/28/2017 23:26	AR
Chloroform	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Chloromethane	BRL	10		ug/L	247647	1	08/28/2017 23:26	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Cyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/28/2017 23:26	AR
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Freon-113	BRL	10		ug/L	247647	1	08/28/2017 23:26	AR
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Methyl acetate	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Methylene chloride	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
o-Xylene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR

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:**	17235-MW-46
Project Name:	Rheem	**Collection Date:**	8/23/2017 12:00:00 PM
Lab ID:	1708O37-008	**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	247647	1	08/28/2017 23:26	AR
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Toluene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Trichloroethene	24	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/28/2017 23:26	AR
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/28/2017 23:26	AR
Surr: 4-Bromofluorobenzene	93.4	66.1-129		%REC	247647	1	08/28/2017 23:26	AR
Surr: Dibromofluoromethane	102	83.6-123		%REC	247647	1	08/28/2017 23:26	AR
Surr: Toluene-d8	98.1	81.8-118		%REC	247647	1	08/28/2017 23:26	AR

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-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17235-MW-47
Project Name:	Rheem	**Collection Date:**	8/23/2017 11:20:00 AM
Lab ID:	1708O37-009	**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	247647	1	08/30/2017 14:29	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
2-Butanone	BRL	50		ug/L	247647	1	08/30/2017 14:29	NP
2-Hexanone	BRL	10		ug/L	247647	1	08/30/2017 14:29	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/30/2017 14:29	NP
Acetone	BRL	50		ug/L	247647	1	08/30/2017 14:29	NP
Benzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Bromoform	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Bromomethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Chloroethane	BRL	10		ug/L	247647	1	08/30/2017 14:29	NP
Chloroform	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Chloromethane	BRL	10		ug/L	247647	1	08/30/2017 14:29	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Cyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/30/2017 14:29	NP
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Freon-113	BRL	10		ug/L	247647	1	08/30/2017 14:29	NP
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Methyl acetate	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Methylene chloride	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
o-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17235-MW-47
Project Name:	Rheem	**Collection Date:**	8/23/2017 11:20:00 AM
Lab ID:	1708O37-009	**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	247647	1	08/30/2017 14:29	NP
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Toluene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Trichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:29	NP
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/30/2017 14:29	NP
Surr: 4-Bromofluorobenzene	99.6	66.1-129		%REC	247647	1	08/30/2017 14:29	NP
Surr: Dibromofluoromethane	106	83.6-123		%REC	247647	1	08/30/2017 14:29	NP
Surr: Toluene-d8	106	81.8-118		%REC	247647	1	08/30/2017 14:29	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-54
Project Name:	Rheem	**Collection Date:**	8/22/2017 4:05:00 PM
Lab ID:	1708O37-010	**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	247647	1	08/30/2017 14:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
2-Butanone	BRL	50		ug/L	247647	1	08/30/2017 14:58	NP
2-Hexanone	BRL	10		ug/L	247647	1	08/30/2017 14:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/30/2017 14:58	NP
Acetone	BRL	50		ug/L	247647	1	08/30/2017 14:58	NP
Benzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Bromoform	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Bromomethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Chloroethane	BRL	10		ug/L	247647	1	08/30/2017 14:58	NP
Chloroform	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Chloromethane	BRL	10		ug/L	247647	1	08/30/2017 14:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Cyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/30/2017 14:58	NP
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Freon-113	BRL	10		ug/L	247647	1	08/30/2017 14:58	NP
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Methyl acetate	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Methylene chloride	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
o-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-MW-54
Project Name:	Rheem	**Collection Date:**	8/22/2017 4:05:00 PM
Lab ID:	1708O37-010	**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	247647	1	08/30/2017 14:58	NP
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Toluene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Trichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:58	NP
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/30/2017 14:58	NP
Surr: 4-Bromofluorobenzene	98.6	66.1-129		%REC	247647	1	08/30/2017 14:58	NP
Surr: Dibromofluoromethane	104	83.6-123		%REC	247647	1	08/30/2017 14:58	NP
Surr: Toluene-d8	102	81.8-118		%REC	247647	1	08/30/2017 14:58	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17234-DUP
Project Name:	Rheem	**Collection Date:**	8/22/2017 12:00:00 PM
Lab ID:	1708O37-011	**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	247647	1	08/30/2017 15:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
2-Butanone	BRL	50		ug/L	247647	1	08/30/2017 15:27	NP
2-Hexanone	BRL	10		ug/L	247647	1	08/30/2017 15:27	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/30/2017 15:27	NP
Acetone	BRL	50		ug/L	247647	1	08/30/2017 15:27	NP
Benzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Bromoform	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Bromomethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Chloroethane	BRL	10		ug/L	247647	1	08/30/2017 15:27	NP
Chloroform	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Chloromethane	BRL	10		ug/L	247647	1	08/30/2017 15:27	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Cyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/30/2017 15:27	NP
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Freon-113	BRL	10		ug/L	247647	1	08/30/2017 15:27	NP
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Methyl acetate	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Methylene chloride	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
o-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Lab ID: 1708O37-011

Client Sample ID: 17234-DUP
Collection Date: 8/22/2017 12:00:00 PM
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	247647	1	08/30/2017 15:27	NP
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Toluene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Trichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/30/2017 15:27	NP
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/30/2017 15:27	NP
Surr: 4-Bromofluorobenzene	101	66.1-129		%REC	247647	1	08/30/2017 15:27	NP
Surr: Dibromofluoromethane	105	83.6-123		%REC	247647	1	08/30/2017 15:27	NP
Surr: Toluene-d8	107	81.8-118		%REC	247647	1	08/30/2017 15:27	NP

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Rheem	**Collection Date:**	8/24/2017 1:30:00 PM
Lab ID:	1708O37-012	**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	247647	1	08/30/2017 14:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,1-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
2-Butanone	BRL	50		ug/L	247647	1	08/30/2017 14:00	NP
2-Hexanone	BRL	10		ug/L	247647	1	08/30/2017 14:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247647	1	08/30/2017 14:00	NP
Acetone	BRL	50		ug/L	247647	1	08/30/2017 14:00	NP
Benzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Bromodichloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Bromoform	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Bromomethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Carbon disulfide	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Chlorobenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Chloroethane	BRL	10		ug/L	247647	1	08/30/2017 14:00	NP
Chloroform	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Chloromethane	BRL	10		ug/L	247647	1	08/30/2017 14:00	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Cyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Dibromochloromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	247647	1	08/30/2017 14:00	NP
Ethylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Freon-113	BRL	10		ug/L	247647	1	08/30/2017 14:00	NP
Isopropylbenzene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
m,p-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Methyl acetate	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Methylcyclohexane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Methylene chloride	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
o-Xylene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Rheem	**Collection Date:**	8/24/2017 1:30:00 PM
Lab ID:	1708O37-012	**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	247647	1	08/30/2017 14:00	NP
Tetrachloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Toluene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Trichloroethene	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247647	1	08/30/2017 14:00	NP
Vinyl chloride	BRL	2.0		ug/L	247647	1	08/30/2017 14:00	NP
Surr: 4-Bromofluorobenzene	95.3	66.1-129		%REC	247647	1	08/30/2017 14:00	NP
Surr: Dibromofluoromethane	104	83.6-123		%REC	247647	1	08/30/2017 14:00	NP
Surr: Toluene-d8	106	81.8-118		%REC	247647	1	08/30/2017 14:00	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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Environmental Planning Specialists, Inc. AES Work Order Number: 1708O37

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ________

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 0.8 °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 8/24/17

		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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ☒ not listed on COC ☐	

27. Comments: ________

I certify that I have completed sections 16-27 (dated initials). BU 8/24/17

This section only applies to samples where pH can be checked at Sample Receipt.

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

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BU 8/24/17

Checklist 6.9.17 Rev 2

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1708O37

ANALYTICAL QC SUMMARY REPORT

BatchID: **247647**

Sample ID: **MB-247647** Client ID: Units: **ug/L** Prep Date: **08/28/2017** Run No: **350769**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247647** Analysis Date: **08/28/2017** Seq No: **7712014**

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: 1708O37

ANALYTICAL QC SUMMARY REPORT

BatchID: **247647**

Sample ID: **MB-247647** Client ID: Units: **ug/L** Prep Date: **08/28/2017** Run No: **350769**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247647** Analysis Date: **08/28/2017** Seq No: **7712014**

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	48.28	0	50.00		96.6	66.1	129				
Surr: Dibromofluoromethane	52.90	0	50.00		106	83.6	123				
Surr: Toluene-d8	48.65	0	50.00		97.3	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: 1708O37

ANALYTICAL QC SUMMARY REPORT

BatchID: **247647**

Sample ID: **LCS-247647** Client ID: Units: **ug/L** Prep Date: **08/28/2017** Run No: **350769**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247647** Analysis Date: **08/28/2017** Seq No: **7712009**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.28	5.0	50.00		109	68	139				
Benzene	53.94	5.0	50.00		108	74	125				
Chlorobenzene	50.12	5.0	50.00		100	75.7	123				
Toluene	51.98	5.0	50.00		104	75.9	126				
Trichloroethene	52.43	5.0	50.00		105	70.6	129				
Surr: 4-Bromofluorobenzene	50.97	0	50.00		102	66.1	129				
Surr: Dibromofluoromethane	51.85	0	50.00		104	83.6	123				
Surr: Toluene-d8	47.71	0	50.00		95.4	81.8	118				

Sample ID: **1708P77-002AMS** Client ID: Units: **ug/L** Prep Date: **08/28/2017** Run No: **350980**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247647** Analysis Date: **08/30/2017** Seq No: **7715133**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	60.50	5.0	50.00		121	64.3	149				
Benzene	60.22	5.0	50.00		120	71.6	132				
Chlorobenzene	48.52	5.0	50.00		97.0	73.1	126				
Toluene	58.17	5.0	50.00		116	72.5	135				
Trichloroethene	49.61	5.0	50.00		99.2	70.2	132				
Surr: 4-Bromofluorobenzene	49.90	0	50.00		99.8	66.1	129				
Surr: Dibromofluoromethane	53.94	0	50.00		108	83.6	123				
Surr: Toluene-d8	53.52	0	50.00		107	81.8	118				

Sample ID: **1708P77-002AMSD** Client ID: Units: **ug/L** Prep Date: **08/28/2017** Run No: **350980**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247647** Analysis Date: **08/30/2017** Seq No: **7715134**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	59.71	5.0	50.00		119	64.3	149	60.50	1.31	30.8	
Benzene	58.68	5.0	50.00		117	71.6	132	60.22	2.59	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: 1708O37

ANALYTICAL QC SUMMARY REPORT

BatchID: **247647**

Sample ID: **1708P77-002AMSD** Client ID: Units: **ug/L** Prep Date: **08/28/2017** Run No: **350980**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247647** Analysis Date: **08/30/2017** Seq No: **7715134**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	47.41	5.0	50.00		94.8	73.1	126	48.52	2.31	26.6	
Toluene	56.45	5.0	50.00		113	72.5	135	58.17	3.00	23.2	
Trichloroethene	49.45	5.0	50.00		98.9	70.2	132	49.61	0.323	27.7	
Surr: 4-Bromofluorobenzene	48.64	0	50.00		97.3	66.1	129	49.90	0	0	
Surr: Dibromofluoromethane	52.15	0	50.00		104	83.6	123	53.94	0	0	
Surr: Toluene-d8	51.80	0	50.00		104	81.8	118	53.52	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	

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 14, 2017

Justin Vickery
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Rheem Manufacturing

Dear Justin Vickery: Order No: 1708T00

Analytical Environmental Services, Inc. received 15 samples on August 30, 2017 10:15 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:
-NELAP/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions for Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/17.

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,

Chris Pafford

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1708700

Date: 8/29/17 Page 1 of ____

COMPANY: EPS Inc

ADDRESS: 1050 Crown Pointe Pkwy
Ste 550
Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff

SIGNATURE: Alex Testoff

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOCs	Ethene	Methane	Ethane	TOC	REMARKS	Number of Containers
						PRESERVATION (see codes)	H+I	H+I	H+I	H+I	S+I		
1	17241-PTW-1	8/29/17	0930	X		GW	X	X	X	X	X		5
2	17241-PTW-2	8/29/17	0955	X		GW	X	X	X	X	X		5
3	17241-PTW-3	8/29/17	1305	X		GW	X	X	X	X	X		5
4	17241-PTW-4	8/29/17	0905	X		GW	X	X	X	X	X		5
5	17240-PTW-5	8/28/17	1000	X		GW	X	X	X	X	X		5
6	17240-PTW-6	8/28/17	0940	X		GW	X	X	X	X	X		5
7	17240-PTW-7	8/28/17	1005	X		GW	X	X	X	X	X		5
8	17241-PTW-8	8/29/17	1350	X		GW	X	X	X	X	X		5
9	17241-MW-1	8/29/17	1525	X		GW	X	X	X	X	X		5
10	17241-MW-5	8/29/17	1421	X		GW	X	X	X	X	X		5
11	17241-MW-9	8/29/17	1610	X		GW	X	X	X	X	X		5
12	17240-MW-48A	8/28/17	1445	X		GW	X	X	X	X	X		5
13	17240-MW-48B	8/28/17	1345	X		GW	X	X	X	X	X		5
14	17240-PZ-7	8/28/17	1310	X		GW	X	X	X	X	X		5

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Alex Testoff	08/30/2017 1015	1.	8/30/17 1015
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: Rheem Manufacturing

PROJECT #:

SITE ADDRESS: Milledgeville, GA

SEND REPORT TO: jvickery@envplanning.com & ~~[illegible]~~

INVOICE TO: atestoff@envplanning.com
(IF DIFFERENT FROM ABOVE)

QUOTE #:______________ PO#:______________

RECEIPT

Total # of Containers: 70

Turnaround Time (TAT) Request

☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same-Day Rush **(auth req.)**
☐ Other ______________

STATE PROGRAM (if any): __________

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

[✓ client] FedEx UPS US mail courier Greyhound

other: ______________

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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:** 14-Sep-17

Client: Environmental Planning Specialists, Inc.
Project: Rheem Manufacturing
Lab ID: 1708T00

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody (COC). Trip blank analyzed at no cost to the client.

Sample information on the COC did not match that on the sample bottle labels for sample. 1708T00-010 listed as collected at 14:21 on the COC was labeled 14:25.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample samples 1708T00-001A thru -008A, -010A, -012A, -013A, & -014AA required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 14-Sep-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-PTW-1
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 9:30:00 AM
Lab ID:	1708T00-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	17.3	1.00		mg/L	R351826	1	09/09/2017 07:36	CK
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 17:10	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 17:10	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 17:10	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 17:10	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 17:10	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 17:10	NH
cis-1,2-Dichloroethene	7600	5000		ug/L	247914	1000	09/05/2017 14:06	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 17:10	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 17:10	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 17:10	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-PTW-1
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 9:30:00 AM
Lab ID:	1708T00-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Trichloroethene	75000	5000		ug/L	247914	1000	09/05/2017 14:06	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 17:10	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 17:10	NH
Surr: 4-Bromofluorobenzene	74.6	66.1-129		%REC	247914	1000	09/05/2017 14:06	NP
Surr: 4-Bromofluorobenzene	84.5	66.1-129		%REC	247914	100	09/05/2017 17:10	NH
Surr: Dibromofluoromethane	92.2	83.6-123		%REC	247914	100	09/05/2017 17:10	NH
Surr: Dibromofluoromethane	105	83.6-123		%REC	247914	1000	09/05/2017 14:06	NP
Surr: Toluene-d8	93.7	81.8-118		%REC	247914	100	09/05/2017 17:10	NH
Surr: Toluene-d8	90.1	81.8-118		%REC	247914	1000	09/05/2017 14:06	NP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	48	9.0		ug/L	247877	1	09/05/2017 14:50	UH
Ethylene	130	7.0		ug/L	247877	1	09/05/2017 14:50	UH
Methane	2000	80		ug/L	247877	20	09/05/2017 17:07	UH

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:**	17241-PTW-2
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 9:55:00 AM
Lab ID:	1708T00-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	6.83	1.00		mg/L	R351826	1	09/09/2017 08:03	CK
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 17:36	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 17:36	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 17:36	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 17:36	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 17:36	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 17:36	NH
cis-1,2-Dichloroethene	7000	5000		ug/L	247914	1000	09/05/2017 14:30	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 17:36	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 17:36	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 17:36	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: 14-Sep-17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Lab ID: 1708T00-002

Client Sample ID: 17241-PTW-2
Collection Date: 8/29/2017 9:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Trichloroethene	160000	5000		ug/L	247914	1000	09/05/2017 14:30	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 17:36	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 17:36	NH
Surr: 4-Bromofluorobenzene	76.1	66.1-129		%REC	247914	1000	09/05/2017 14:30	NP
Surr: 4-Bromofluorobenzene	84.3	66.1-129		%REC	247914	100	09/05/2017 17:36	NH
Surr: Dibromofluoromethane	91.9	83.6-123		%REC	247914	100	09/05/2017 17:36	NH
Surr: Dibromofluoromethane	108	83.6-123		%REC	247914	1000	09/05/2017 14:30	NP
Surr: Toluene-d8	87.3	81.8-118		%REC	247914	1000	09/05/2017 14:30	NP
Surr: Toluene-d8	94.2	81.8-118		%REC	247914	100	09/05/2017 17:36	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	34	9.0		ug/L	247877	1	09/05/2017 14:56	UH
Ethylene	22	7.0		ug/L	247877	1	09/05/2017 14:56	UH
Methane	10	4.0		ug/L	247877	1	09/05/2017 14:56	UH

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:**	17241-PTW-3
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 1:05:00 PM
Lab ID:	1708T00-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	72.5	2.00		mg/L	R351826	2	09/13/2017 13:14	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 18:02	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 18:02	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 18:02	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 18:02	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 18:02	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 18:02	NH
cis-1,2-Dichloroethene	27000	5000		ug/L	247914	1000	09/05/2017 14:54	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 18:02	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 18:02	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 18:02	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Lab ID: 1708T00-003
Client Sample ID: 17241-PTW-3
Collection Date: 8/29/2017 1:05:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Trichloroethene	12000	5000		ug/L	247914	1000	09/05/2017 14:54	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 18:02	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 18:02	NH
Surr: 4-Bromofluorobenzene	74	66.1-129		%REC	247914	1000	09/05/2017 14:54	NP
Surr: 4-Bromofluorobenzene	85.2	66.1-129		%REC	247914	100	09/05/2017 18:02	NH
Surr: Dibromofluoromethane	93.2	83.6-123		%REC	247914	100	09/05/2017 18:02	NH
Surr: Dibromofluoromethane	110	83.6-123		%REC	247914	1000	09/05/2017 14:54	NP
Surr: Toluene-d8	88.8	81.8-118		%REC	247914	1000	09/05/2017 14:54	NP
Surr: Toluene-d8	93.9	81.8-118		%REC	247914	100	09/05/2017 18:02	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	9.6	9.0		ug/L	247877	1	09/05/2017 15:01	UH
Ethylene	24	7.0		ug/L	247877	1	09/05/2017 15:01	UH
Methane	120	4.0		ug/L	247877	1	09/05/2017 15:01	UH

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:**	17241-PTW-4
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 9:05:00 AM
Lab ID:	1708T00-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	44.0	1.00		mg/L	R351826	1	09/09/2017 09:56	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 18:27	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 18:27	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 18:27	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 18:27	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 18:27	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 18:27	NH
cis-1,2-Dichloroethene	26000	2500		ug/L	247914	500	09/06/2017 15:25	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 18:27	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 18:27	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 18:27	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-PTW-4
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 9:05:00 AM
Lab ID:	1708T00-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Trichloroethene	36000	2500		ug/L	247914	500	09/06/2017 15:25	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 18:27	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 18:27	NH
Surr: 4-Bromofluorobenzene	86.3	66.1-129		%REC	247914	500	09/06/2017 15:25	NP
Surr: 4-Bromofluorobenzene	84.1	66.1-129		%REC	247914	100	09/05/2017 18:27	NH
Surr: Dibromofluoromethane	96.5	83.6-123		%REC	247914	500	09/06/2017 15:25	NP
Surr: Dibromofluoromethane	94	83.6-123		%REC	247914	100	09/05/2017 18:27	NH
Surr: Toluene-d8	87.5	81.8-118		%REC	247914	500	09/06/2017 15:25	NP
Surr: Toluene-d8	94.8	81.8-118		%REC	247914	100	09/05/2017 18:27	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	23	9.0		ug/L	247877	1	09/05/2017 15:06	UH
Ethylene	47	7.0		ug/L	247877	1	09/05/2017 15:06	UH
Methane	210	4.0		ug/L	247877	1	09/05/2017 15:06	UH

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-PTW-5
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 10:00:00 AM
Lab ID:	1708T00-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	57.8	2.00		mg/L	R351826	2	09/13/2017 13:42	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 18:54	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 18:54	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 18:54	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 18:54	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 18:54	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 18:54	NH
cis-1,2-Dichloroethene	23000	2500		ug/L	247914	500	09/06/2017 16:37	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 18:54	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 18:54	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 18:54	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-PTW-5
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 10:00:00 AM
Lab ID:	1708T00-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Trichloroethene	700	500		ug/L	247914	100	09/05/2017 18:54	NH
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 18:54	NH
Vinyl chloride	200	200		ug/L	247914	100	09/05/2017 18:54	NH
Surr: 4-Bromofluorobenzene	81.3	66.1-129		%REC	247914	500	09/06/2017 16:37	NP
Surr: 4-Bromofluorobenzene	83.2	66.1-129		%REC	247914	100	09/05/2017 18:54	NH
Surr: Dibromofluoromethane	101	83.6-123		%REC	247914	500	09/06/2017 16:37	NP
Surr: Dibromofluoromethane	91.5	83.6-123		%REC	247914	100	09/05/2017 18:54	NH
Surr: Toluene-d8	87.6	81.8-118		%REC	247914	500	09/06/2017 16:37	NP
Surr: Toluene-d8	94.7	81.8-118		%REC	247914	100	09/05/2017 18:54	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 15:12	UH
Ethylene	BRL	7.0		ug/L	247877	1	09/05/2017 15:12	UH
Methane	8700	200		ug/L	247877	50	09/05/2017 17:13	UH

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Lab ID: 1708T00-006

Client Sample ID: 17240-PTW-6
Collection Date: 8/28/2017 9:40:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	50.5	1.00		mg/L	R351826	1	09/09/2017 10:53	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 19:20	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 19:20	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 19:20	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 19:20	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 19:20	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 19:20	NH
cis-1,2-Dichloroethene	32000	2500		ug/L	247914	500	09/06/2017 17:02	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 19:20	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 19:20	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 19:20	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-PTW-6
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 9:40:00 AM
Lab ID:	1708T00-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Trichloroethene	3000	500		ug/L	247914	100	09/05/2017 19:20	NH
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 19:20	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 19:20	NH
Surr: 4-Bromofluorobenzene	81.1	66.1-129		%REC	247914	500	09/06/2017 17:02	NP
Surr: 4-Bromofluorobenzene	83.9	66.1-129		%REC	247914	100	09/05/2017 19:20	NH
Surr: Dibromofluoromethane	102	83.6-123		%REC	247914	500	09/06/2017 17:02	NP
Surr: Dibromofluoromethane	94.4	83.6-123		%REC	247914	100	09/05/2017 19:20	NH
Surr: Toluene-d8	85.7	81.8-118		%REC	247914	500	09/06/2017 17:02	NP
Surr: Toluene-d8	95.3	81.8-118		%REC	247914	100	09/05/2017 19:20	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 15:19	UH
Ethylene	BRL	7.0		ug/L	247877	1	09/05/2017 15:19	UH
Methane	6400	200		ug/L	247877	50	09/05/2017 17:20	UH

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: 14-Sep-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-PTW-7
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 10:05:00 AM
Lab ID:	1708T00-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	14.4	1.00		mg/L	R351826	1	09/09/2017 11:21	CK
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 19:46	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 19:46	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 19:46	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 19:46	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 19:46	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 19:46	NH
cis-1,2-Dichloroethene	16000	500		ug/L	247914	100	09/05/2017 19:46	NH
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 19:46	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 19:46	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 19:46	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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Lab ID: 1708T00-007
Client Sample ID: 17240-PTW-7
Collection Date: 8/28/2017 10:05:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Trichloroethene	19000	2500		ug/L	247914	500	09/06/2017 17:26	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 19:46	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 19:46	NH
Surr: 4-Bromofluorobenzene	80.2	66.1-129		%REC	247914	500	09/06/2017 17:26	NP
Surr: 4-Bromofluorobenzene	84.9	66.1-129		%REC	247914	100	09/05/2017 19:46	NH
Surr: Dibromofluoromethane	105	83.6-123		%REC	247914	500	09/06/2017 17:26	NP
Surr: Dibromofluoromethane	93.5	83.6-123		%REC	247914	100	09/05/2017 19:46	NH
Surr: Toluene-d8	87.8	81.8-118		%REC	247914	500	09/06/2017 17:26	NP
Surr: Toluene-d8	94.1	81.8-118		%REC	247914	100	09/05/2017 19:46	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	15	9.0		ug/L	247877	1	09/05/2017 15:24	UH
Ethylene	13	7.0		ug/L	247877	1	09/05/2017 15:24	UH
Methane	510	20		ug/L	247877	5	09/05/2017 17:29	UH

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:** 14-Sep-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-PTW-8
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 1:50:00 PM
Lab ID:	1708T00-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	8.97	1.00		mg/L	R351826	1	09/09/2017 11:48	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 20:12	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 20:12	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 20:12	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 20:12	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 20:12	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 20:12	NH
cis-1,2-Dichloroethene	3300	500		ug/L	247914	100	09/05/2017 20:12	NH
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 20:12	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 20:12	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-PTW-8
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 1:50:00 PM
Lab ID:	1708T00-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Trichloroethene	130000	5000		ug/L	247914	1000	09/06/2017 15:01	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 20:12	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 20:12	NH
Surr: 4-Bromofluorobenzene	82.9	66.1-129		%REC	247914	100	09/05/2017 20:12	NH
Surr: 4-Bromofluorobenzene	87.2	66.1-129		%REC	247914	1000	09/06/2017 15:01	NP
Surr: Dibromofluoromethane	93.7	83.6-123		%REC	247914	100	09/05/2017 20:12	NH
Surr: Dibromofluoromethane	95.8	83.6-123		%REC	247914	1000	09/06/2017 15:01	NP
Surr: Toluene-d8	87.2	81.8-118		%REC	247914	1000	09/06/2017 15:01	NP
Surr: Toluene-d8	95.4	81.8-118		%REC	247914	100	09/05/2017 20:12	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	400	9.0		ug/L	247877	1	09/05/2017 15:47	UH
Ethylene	260	7.0		ug/L	247877	1	09/05/2017 15:47	UH
Methane	15	4.0		ug/L	247877	1	09/05/2017 15:47	UH

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:**	17241-MW-1
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 3:25:00 PM
Lab ID:	1708T00-009	**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	R351826	1	09/09/2017 13:40	CK
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,1-Dichloroethene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
2-Butanone	BRL	50		ug/L	247914	1	09/06/2017 12:37	NP
2-Hexanone	BRL	10		ug/L	247914	1	09/06/2017 12:37	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247914	1	09/06/2017 12:37	NP
Acetone	BRL	50		ug/L	247914	1	09/06/2017 12:37	NP
Benzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Bromodichloromethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Bromoform	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Bromomethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Carbon disulfide	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Chlorobenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Chloroethane	BRL	10		ug/L	247914	1	09/06/2017 12:37	NP
Chloroform	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Chloromethane	BRL	10		ug/L	247914	1	09/06/2017 12:37	NP
cis-1,2-Dichloroethene	9.6	5.0		ug/L	247914	1	09/06/2017 12:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Cyclohexane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Dibromochloromethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	247914	1	09/06/2017 12:37	NP
Ethylbenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Freon-113	BRL	10		ug/L	247914	1	09/06/2017 12:37	NP
Isopropylbenzene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
m,p-Xylene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Methyl acetate	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-MW-1
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 3:25:00 PM
Lab ID:	1708T00-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Methylene chloride	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
o-Xylene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Styrene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Tetrachloroethene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Toluene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Trichloroethene	430	50		ug/L	247914	10	09/06/2017 13:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247914	1	09/06/2017 12:37	NP
Vinyl chloride	BRL	2.0		ug/L	247914	1	09/06/2017 12:37	NP
Surr: 4-Bromofluorobenzene	74.5	66.1-129		%REC	247914	1	09/06/2017 12:37	NP
Surr: 4-Bromofluorobenzene	77.6	66.1-129		%REC	247914	10	09/06/2017 13:49	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	247914	10	09/06/2017 13:49	NP
Surr: Dibromofluoromethane	108	83.6-123		%REC	247914	1	09/06/2017 12:37	NP
Surr: Toluene-d8	84.9	81.8-118		%REC	247914	10	09/06/2017 13:49	NP
Surr: Toluene-d8	85.9	81.8-118		%REC	247914	1	09/06/2017 12:37	NP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 16:10	UH
Ethylene	BRL	7.0		ug/L	247877	1	09/05/2017 16:10	UH
Methane	BRL	4.0		ug/L	247877	1	09/05/2017 16:10	UH

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: 14-Sep-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-MW-5
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 2:21:00 PM
Lab ID:	1708T00-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	19.5	1.00		mg/L	R351826	1	09/09/2017 14:07	CK
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 20:38	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 20:38	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 20:38	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 20:38	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 20:38	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 20:38	NH
cis-1,2-Dichloroethene	2100	500		ug/L	247914	100	09/05/2017 20:38	NH
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 20:38	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 20:38	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 20:38	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-MW-5
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 2:21:00 PM
Lab ID:	1708T00-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Trichloroethene	200000	25000		ug/L	247914	5000	09/06/2017 14:13	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 20:38	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 20:38	NH
Surr: 4-Bromofluorobenzene	76.1	66.1-129		%REC	247914	5000	09/06/2017 14:13	NP
Surr: 4-Bromofluorobenzene	81.6	66.1-129		%REC	247914	100	09/05/2017 20:38	NH
Surr: Dibromofluoromethane	92.1	83.6-123		%REC	247914	100	09/05/2017 20:38	NH
Surr: Dibromofluoromethane	100	83.6-123		%REC	247914	5000	09/06/2017 14:13	NP
Surr: Toluene-d8	93.7	81.8-118		%REC	247914	100	09/05/2017 20:38	NH
Surr: Toluene-d8	87.1	81.8-118		%REC	247914	5000	09/06/2017 14:13	NP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 16:01	UH
Ethylene	BRL	7.0		ug/L	247877	1	09/05/2017 16:01	UH
Methane	BRL	4.0		ug/L	247877	1	09/05/2017 16:01	UH

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:**	17241-MW-9
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 4:10:00 PM
Lab ID:	1708T00-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	8.43	1.00		mg/L	R351826	1	09/09/2017 14:35	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,1-Dichloroethene	40	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
2-Butanone	BRL	50		ug/L	247914	1	09/05/2017 22:07	NP
2-Hexanone	BRL	10		ug/L	247914	1	09/05/2017 22:07	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247914	1	09/05/2017 22:07	NP
Acetone	BRL	50		ug/L	247914	1	09/05/2017 22:07	NP
Benzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Bromodichloromethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Bromoform	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Bromomethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Carbon disulfide	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Carbon tetrachloride	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Chlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Chloroethane	BRL	10		ug/L	247914	1	09/05/2017 22:07	NP
Chloroform	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Chloromethane	BRL	10		ug/L	247914	1	09/05/2017 22:07	NP
cis-1,2-Dichloroethene	2400	250		ug/L	247914	50	09/06/2017 18:14	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Cyclohexane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Dibromochloromethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Dichlorodifluoromethane	BRL	10		ug/L	247914	1	09/05/2017 22:07	NP
Ethylbenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Freon-113	BRL	10		ug/L	247914	1	09/05/2017 22:07	NP
Isopropylbenzene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
m,p-Xylene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Methyl acetate	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17241-MW-9
Project Name:	Rheem Manufacturing	**Collection Date:**	8/29/2017 4:10:00 PM
Lab ID:	1708T00-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Methylene chloride	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
o-Xylene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Styrene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Tetrachloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Toluene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Trichloroethene	5500	250		ug/L	247914	50	09/06/2017 18:14	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247914	1	09/05/2017 22:07	NP
Vinyl chloride	150	2.0		ug/L	247914	1	09/05/2017 22:07	NP
Surr: 4-Bromofluorobenzene	78.1	66.1-129		%REC	247914	50	09/06/2017 18:14	NP
Surr: 4-Bromofluorobenzene	77.2	66.1-129		%REC	247914	1	09/05/2017 22:07	NP
Surr: Dibromofluoromethane	104	83.6-123		%REC	247914	50	09/06/2017 18:14	NP
Surr: Dibromofluoromethane	106	83.6-123		%REC	247914	1	09/05/2017 22:07	NP
Surr: Toluene-d8	85.5	81.8-118		%REC	247914	50	09/06/2017 18:14	NP
Surr: Toluene-d8	89.2	81.8-118		%REC	247914	1	09/05/2017 22:07	NP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 16:17	UH
Ethylene	27	7.0		ug/L	247877	1	09/05/2017 16:17	UH
Methane	1500	40		ug/L	247877	10	09/05/2017 17:40	UH

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: 14-Sep-17

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Lab ID: 1708T00-012

Client Sample ID: 17240-MW-48A
Collection Date: 8/28/2017 2:46:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	11.7	1.00		mg/L	R351826	1	09/09/2017 15:03	CK
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 21:04	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 21:04	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 21:04	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 21:04	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 21:04	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 21:04	NH
cis-1,2-Dichloroethene	7200	500		ug/L	247914	100	09/05/2017 21:04	NH
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 21:04	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 21:04	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 21:04	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-MW-48A
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 2:46:00 PM
Lab ID:	1708T00-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Trichloroethene	19000	500		ug/L	247914	100	09/05/2017 21:04	NH
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 21:04	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 21:04	NH
Surr: 4-Bromofluorobenzene	83.9	66.1-129		%REC	247914	100	09/05/2017 21:04	NH
Surr: Dibromofluoromethane	92.3	83.6-123		%REC	247914	100	09/05/2017 21:04	NH
Surr: Toluene-d8	94.3	81.8-118		%REC	247914	100	09/05/2017 21:04	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 16:23	UH
Ethylene	11	7.0		ug/L	247877	1	09/05/2017 16:23	UH
Methane	21	4.0		ug/L	247877	1	09/05/2017 16:23	UH

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.
Project Name: Rheem Manufacturing
Lab ID: 1708T00-013

Client Sample ID: 17240-MW-48B
Collection Date: 8/28/2017 1:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	11.3	1.00		mg/L	R351826	1	09/09/2017 15:32	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 21:30	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 21:30	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 21:30	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 21:30	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 21:30	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 21:30	NH
cis-1,2-Dichloroethene	7600	500		ug/L	247914	100	09/05/2017 21:30	NH
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 21:30	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 21:30	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 21:30	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: 14-Sep-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-MW-48B
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 1:45:00 PM
Lab ID:	1708T00-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Trichloroethene	19000	2500		ug/L	247914	500	09/06/2017 17:50	NP
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 21:30	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 21:30	NH
Surr: 4-Bromofluorobenzene	77.3	66.1-129		%REC	247914	500	09/06/2017 17:50	NP
Surr: 4-Bromofluorobenzene	82.6	66.1-129		%REC	247914	100	09/05/2017 21:30	NH
Surr: Dibromofluoromethane	105	83.6-123		%REC	247914	500	09/06/2017 17:50	NP
Surr: Dibromofluoromethane	92.5	83.6-123		%REC	247914	100	09/05/2017 21:30	NH
Surr: Toluene-d8	85.5	81.8-118		%REC	247914	500	09/06/2017 17:50	NP
Surr: Toluene-d8	94.1	81.8-118		%REC	247914	100	09/05/2017 21:30	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 16:28	UH
Ethylene	BRL	7.0		ug/L	247877	1	09/05/2017 16:28	UH
Methane	80	4.0		ug/L	247877	1	09/05/2017 16:28	UH

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:**	17240-PZ-7
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 1:10:00 PM
Lab ID:	1708T00-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	30.7	1.00		mg/L	R351826	1	09/09/2017 16:00	CK
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,1,2-Trichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,1-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,1-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,2,4-Trichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,2-Dibromoethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,2-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,2-Dichloroethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,2-Dichloropropane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,3-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
1,4-Dichlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
2-Butanone	BRL	5000		ug/L	247914	100	09/05/2017 21:55	NH
2-Hexanone	BRL	1000		ug/L	247914	100	09/05/2017 21:55	NH
4-Methyl-2-pentanone	BRL	1000		ug/L	247914	100	09/05/2017 21:55	NH
Acetone	BRL	5000		ug/L	247914	100	09/05/2017 21:55	NH
Benzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Bromodichloromethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Bromoform	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Bromomethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Carbon disulfide	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Carbon tetrachloride	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Chlorobenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Chloroethane	BRL	1000		ug/L	247914	100	09/05/2017 21:55	NH
Chloroform	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Chloromethane	BRL	1000		ug/L	247914	100	09/05/2017 21:55	NH
cis-1,2-Dichloroethene	18000	500		ug/L	247914	100	09/05/2017 21:55	NH
cis-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Cyclohexane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Dibromochloromethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Dichlorodifluoromethane	BRL	1000		ug/L	247914	100	09/05/2017 21:55	NH
Ethylbenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Freon-113	BRL	1000		ug/L	247914	100	09/05/2017 21:55	NH
Isopropylbenzene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
m,p-Xylene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Methyl acetate	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Methyl tert-butyl ether	BRL	500		ug/L	247914	100	09/05/2017 21:55	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17240-PZ-7
Project Name:	Rheem Manufacturing	**Collection Date:**	8/28/2017 1:10:00 PM
Lab ID:	1708T00-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Methylene chloride	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
o-Xylene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Styrene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Tetrachloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Toluene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
trans-1,2-Dichloroethene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
trans-1,3-Dichloropropene	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Trichloroethene	870	500		ug/L	247914	100	09/05/2017 21:55	NH
Trichlorofluoromethane	BRL	500		ug/L	247914	100	09/05/2017 21:55	NH
Vinyl chloride	BRL	200		ug/L	247914	100	09/05/2017 21:55	NH
Surr: 4-Bromofluorobenzene	84	66.1-129		%REC	247914	100	09/05/2017 21:55	NH
Surr: Dibromofluoromethane	93.5	83.6-123		%REC	247914	100	09/05/2017 21:55	NH
Surr: Toluene-d8	94.3	81.8-118		%REC	247914	100	09/05/2017 21:55	NH
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	247877	1	09/05/2017 16:38	UH
Ethylene	BRL	7.0		ug/L	247877	1	09/05/2017 16:38	UH
Methane	6300	200		ug/L	247877	50	09/05/2017 17:56	UH

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:**	TRIP BLANK
Project Name:	Rheem Manufacturing	**Collection Date:**	8/30/2017 10:15:00 AM
Lab ID:	1708T00-015	**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	247914	1	09/05/2017 13:42	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,1-Dichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,1-Dichloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,2-Dibromoethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,2-Dichloroethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,2-Dichloropropane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
2-Butanone	BRL	50		ug/L	247914	1	09/05/2017 13:42	NP
2-Hexanone	BRL	10		ug/L	247914	1	09/05/2017 13:42	NP
4-Methyl-2-pentanone	BRL	10		ug/L	247914	1	09/05/2017 13:42	NP
Acetone	BRL	50		ug/L	247914	1	09/05/2017 13:42	NP
Benzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Bromodichloromethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Bromoform	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Bromomethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Carbon disulfide	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Carbon tetrachloride	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Chlorobenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Chloroethane	BRL	10		ug/L	247914	1	09/05/2017 13:42	NP
Chloroform	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Chloromethane	BRL	10		ug/L	247914	1	09/05/2017 13:42	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Cyclohexane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Dibromochloromethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Dichlorodifluoromethane	BRL	10		ug/L	247914	1	09/05/2017 13:42	NP
Ethylbenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Freon-113	BRL	10		ug/L	247914	1	09/05/2017 13:42	NP
Isopropylbenzene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
m,p-Xylene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Methyl acetate	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Methylcyclohexane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Methylene chloride	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
o-Xylene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	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

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Rheem Manufacturing	**Collection Date:**	8/30/2017 10:15:00 AM
Lab ID:	1708T00-015	**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	247914	1	09/05/2017 13:42	NP
Tetrachloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Toluene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Trichloroethene	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Trichlorofluoromethane	BRL	5.0		ug/L	247914	1	09/05/2017 13:42	NP
Vinyl chloride	BRL	2.0		ug/L	247914	1	09/05/2017 13:42	NP
Surr: 4-Bromofluorobenzene	79.2	66.1-129		%REC	247914	1	09/05/2017 13:42	NP
Surr: Dibromofluoromethane	106	83.6-123		%REC	247914	1	09/05/2017 13:42	NP
Surr: Toluene-d8	86.9	81.8-118		%REC	247914	1	09/05/2017 13:42	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

Clear Save as

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Environmental Planning Specialists, Inc. AES Work Order Number: 1708T00

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ______

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 0-6ºC? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
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. ☐	

13. Cooler 1 Temperature 2.2 ºC Cooler 2 Temperature ______ ºC Cooler 3 Temperature ______ ºC Cooler 4 Temperature ______ ºC

14. Cooler 5 Temperature ______ ºC Cooler 6 Temperature ______ ºC Cooler 7 Temperature ______ ºC Cooler 8 Temperature ______ ºC

15. Comments: ______

I certify that I have completed sections 1-15 (dated initials). MJ 8/30/17

		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 ☒ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ☐ not listed on COC ☒	

27. Comments: ______

I certify that I have completed sections 16-27 (dated initials). CP 8-31-17

This section only applies to samples where pH can be checked at Sample Receipt.

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

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). CP 8-31-17

Checklist 6.9.17 Rev 2

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **247877**

Sample ID: **MB-247877** Client ID: Units: **ug/L** Prep Date: **09/05/2017** Run No: **351413**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **247877** Analysis Date: **09/05/2017** Seq No: **7725653**

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-247877** Client ID: Units: **ug/L** Prep Date: **09/05/2017** Run No: **351413**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **247877** Analysis Date: **09/05/2017** Seq No: **7725654**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	123.9	9.0	200.0		61.9	43.9	115				
Ethylene	81.60	7.0	200.0		40.8	29.6	115				
Methane	143.1	4.0	200.0		71.6	49.2	115				

Sample ID: **LCSD-247877** Client ID: Units: **ug/L** Prep Date: **09/05/2017** Run No: **351413**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **247877** Analysis Date: **09/05/2017** Seq No: **7725655**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	115.2	9.0	200.0		57.6	43.9	115	123.9	7.28	20	
Ethylene	75.81	7.0	200.0		37.9	29.6	115	81.60	7.35	20	
Methane	133.9	4.0	200.0		67.0	49.2	115	143.1	6.66	20	

Sample ID: **1708T00-009BMS** Client ID: **17241-MW-1** Units: **ug/L** Prep Date: **09/05/2017** Run No: **351413**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **247877** Analysis Date: **09/05/2017** Seq No: **7725713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	117.2	9.0	200.0		58.6	36.3	115				
Ethylene	78.12	7.0	200.0		39.1	27	115				
Methane	131.1	4.0	200.0		65.6	40.5	115				

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **247877**

Sample ID: **1708T00-009BMSD** Client ID: **17241-MW-1** Units: **ug/L** Prep Date: **09/05/2017** Run No: **351413**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **247877** Analysis Date: **09/05/2017** Seq No: **7725715**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	117.9	9.0	200.0		58.9	36.3	115	117.2	0.555	20	
Ethylene	78.17	7.0	200.0		39.1	27	115	78.12	0.072	20	
Methane	131.7	4.0	200.0		65.9	40.5	115	131.1	0.435	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 Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **247914**

Sample ID: **MB-247914** Client ID: Units: **ug/L** Prep Date: **09/05/2017** Run No: **351286**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247914** Analysis Date: **09/05/2017** Seq No: **7723868**

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 Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **247914**

Sample ID: **MB-247914** Client ID: Units: **ug/L** Prep Date: **09/05/2017** Run No: **351286**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247914** Analysis Date: **09/05/2017** Seq No: **7723868**

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	40.60	0	50.00		81.2	66.1	129				
Surr: Dibromofluoromethane	50.16	0	50.00		100	83.6	123				
Surr: Toluene-d8	43.78	0	50.00		87.6	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 Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **247914**

Sample ID: **LCS-247914** Client ID: Units: **ug/L** Prep Date: **09/05/2017** Run No: **351286**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247914** Analysis Date: **09/05/2017** Seq No: **7723869**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.01	5.0	50.00		108	68	139				
Benzene	50.26	5.0	50.00		101	74	125				
Chlorobenzene	50.38	5.0	50.00		101	75.7	123				
Toluene	50.88	5.0	50.00		102	75.9	126				
Trichloroethene	49.01	5.0	50.00		98.0	70.6	129				
Surr: 4-Bromofluorobenzene	39.74	0	50.00		79.5	66.1	129				
Surr: Dibromofluoromethane	51.29	0	50.00		103	83.6	123				
Surr: Toluene-d8	42.99	0	50.00		86.0	81.8	118				

Sample ID: **1708T00-004AMS** Client ID: **17241-PTW-4** Units: **ug/L** Prep Date: **09/05/2017** Run No: **351683**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247914** Analysis Date: **09/06/2017** Seq No: **7731984**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	23820	2500	25000		95.3	64.3	149				
Benzene	25070	2500	25000		100	71.6	132				
Chlorobenzene	25150	2500	25000		101	73.1	126				
Toluene	25460	2500	25000		102	72.5	135				
Trichloroethene	63220	2500	25000	38900	97.3	70.2	132				
Surr: 4-Bromofluorobenzene	20980	0	25000		83.9	66.1	129				
Surr: Dibromofluoromethane	24550	0	25000		98.2	83.6	123				
Surr: Toluene-d8	21310	0	25000		85.2	81.8	118				

Sample ID: **1708T00-004AMSD** Client ID: **17241-PTW-4** Units: **ug/L** Prep Date: **09/05/2017** Run No: **351683**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247914** Analysis Date: **09/06/2017** Seq No: **7731985**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	24540	2500	25000		98.2	64.3	149	23820	3.00	30.8	
Benzene	25500	2500	25000		102	71.6	132	25070	1.72	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 Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **247914**

Sample ID: **1708T00-004AMSD** Client ID: **17241-PTW-4** Units: **ug/L** Prep Date: **09/05/2017** Run No: **351683**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **247914** Analysis Date: **09/06/2017** Seq No: **7731985**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	25090	2500	25000		100	73.1	126	25150	0.219	26.6	
Toluene	25870	2500	25000		103	72.5	135	25460	1.62	23.2	
Trichloroethene	63760	2500	25000	38900	99.4	70.2	132	63220	0.843	27.7	
Surr: 4-Bromofluorobenzene	20460	0	25000		81.8	66.1	129	20980	0	0	
Surr: Dibromofluoromethane	24230	0	25000		96.9	83.6	123	24550	0	0	
Surr: Toluene-d8	21550	0	25000		86.2	81.8	118	21310	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 Manufacturing
Workorder: 1708T00

ANALYTICAL QC SUMMARY REPORT

BatchID: **R351826**

Sample ID: **MB-R351826** Client ID: Units: **mg/L** Prep Date: Run No: **351826**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R351826** Analysis Date: **09/09/2017** Seq No: **7739912**

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-R351826** Client ID: Units: **mg/L** Prep Date: Run No: **351826**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R351826** Analysis Date: **09/09/2017** Seq No: **7739911**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.95	1.00	25.00		104	90	110				

Sample ID: **1708T00-002CMS** Client ID: **17241-PTW-2** Units: **mg/L** Prep Date: Run No: **351826**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R351826** Analysis Date: **09/09/2017** Seq No: **7739916**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.29	1.00	25.00	6.829	69.8	80	120				S

Sample ID: **1708T00-002CMSD** Client ID: **17241-PTW-2** Units: **mg/L** Prep Date: Run No: **351826**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R351826** Analysis Date: **09/09/2017** Seq No: **7739917**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.31	1.00	25.00	6.829	69.9	80	120	24.29	0.082	20	S

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		

10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Justin Vickery
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Suite 550
Atlanta, GA 30338

Phone:

Fax:

Identifier: 105OH **Date Rec:** 08/29/2017 **Report Date:** 09/07/2017

Client Project #:

Client Project Name: Rheem Manufacturing

Purchase Order #:

Analysis Requested: CENSUS

Reviewed By:

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MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Environmental Planning Specialists, Inc.**
Project: Rheem Manufacturing

MI Project Number: **105OH**
Date Received: 08/29/2017

Sample Information

Client Sample ID:		**17240-PTW-5**	**17240-PTW-6**	**17240-PTW-7**	**17240-PZ-7**	**17240-MW-48B**
Sample Date:		08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Units:		cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:		JS	JS	JS	JS	JS
Dechlorinating Bacteria						
Dehalococcoides	*DHC*	**8.83E+03**	**3.09E+02**	**2.83E+03**	**4.22E+02**	**5.10E+00**
tceA Reductase	TCE	**1.03E+04**	**3.75E+02**	**3.36E+03**	**4.39E+02**	**1.40E+00**
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
Vinyl Chloride Reductase	VCR	**7.48E+03**	**2.90E+02**	**2.67E+03**	**3.56E+02**	**1.70E+00**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Environmental Planning Specialists, Inc.**
Project: Rheem Manufacturing

MI Project Number: **105OH**
Date Received: 08/29/2017

Sample Information

Client Sample ID:		**17241-PTW-1**	**17241-PTW-2**	**17241-PTW-4**	**17241-MW-5**
Sample Date:		08/29/2017	08/29/2017	08/29/2017	08/29/2017
Units:		cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:		JS	JS	JS	JS
Dechlorinating Bacteria					
Dehalococcoides	*DHC*	**3.44E+04**	<5.00E-01	**4.10E+00**	**5.00E-01 (J)**
tceA Reductase	TCE	**2.01E+04**	<5.00E-01	**6.00E+00**	<5.00E-01
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
Vinyl Chloride Reductase	VCR	**1.41E+04**	<5.00E-01	**4.60E+00**	<5.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Quality Assurance/Quality Control Data

Samples Received **8/29/2017**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	08/29/2017	09/07/2017	0 °C	104%	non-detect	non-detect
BVC	08/29/2017	09/07/2017	0 °C	102%	non-detect	non-detect
TCE	08/29/2017	09/07/2017	0 °C	101%	non-detect	non-detect
VCR	08/29/2017	09/07/2017	0 °C	104%	non-detect	non-detect

Samples Received **8/30/2017**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	08/30/2017	09/07/2017	0 °C	108%	non-detect	non-detect
BVC	08/30/2017	09/07/2017	0 °C	102%	non-detect	non-detect
TCE	08/30/2017	09/07/2017	0 °C	101%	non-detect	non-detect
VCR	08/30/2017	09/07/2017	0 °C	104%	non-detect	non-detect

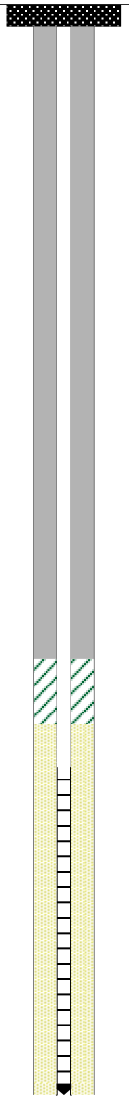
APPENDIX E
Boring Logs

PROJECT:
Rheem Manufacturing Company

Log of Boring No.
PTW-1

SITE LOCATION:	Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR:	Atlas Geo-Sampling	DATE STARTED: 7/24/2017	DATE FINISHED: 7/24/2017
DRILLING METHOD:	Auger	TOTAL DEPTH (ft.): 50	SCREEN INTERVAL (ft.): 35-50
DRILLING EQUIPMENT:	AMS PowerProbe 9510	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): 0-35
SAMPLING METHOD:	N/A	BOREHOLE DIAMETER (In.): 4.25	WELL DIAMETER (In.): 1
LOGGED BY:	Alex Testoff		

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						
5						
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						



EPS

PROJECT: **Rheem Manufacturing Company**

Log of Boring No. **PTW-2**

SITE LOCATION: Milledgeville, GA

TOP OF CASING ELEVATION (ft): N/A

DRILLING CONTRACTOR: Atlas Geo-Sampling

DATE STARTED: 7/24/2017

DATE FINISHED: 7/24/2017

DRILLING METHOD: Auger

TOTAL DEPTH (ft.): 50

SCREEN INTERVAL (ft.): 35-50

DRILLING EQUIPMENT: AMS PowerProbe 9510

DEPTH TO WATER AT TIME OF BORING (ft.): NM

CASING (ft.): 0-35

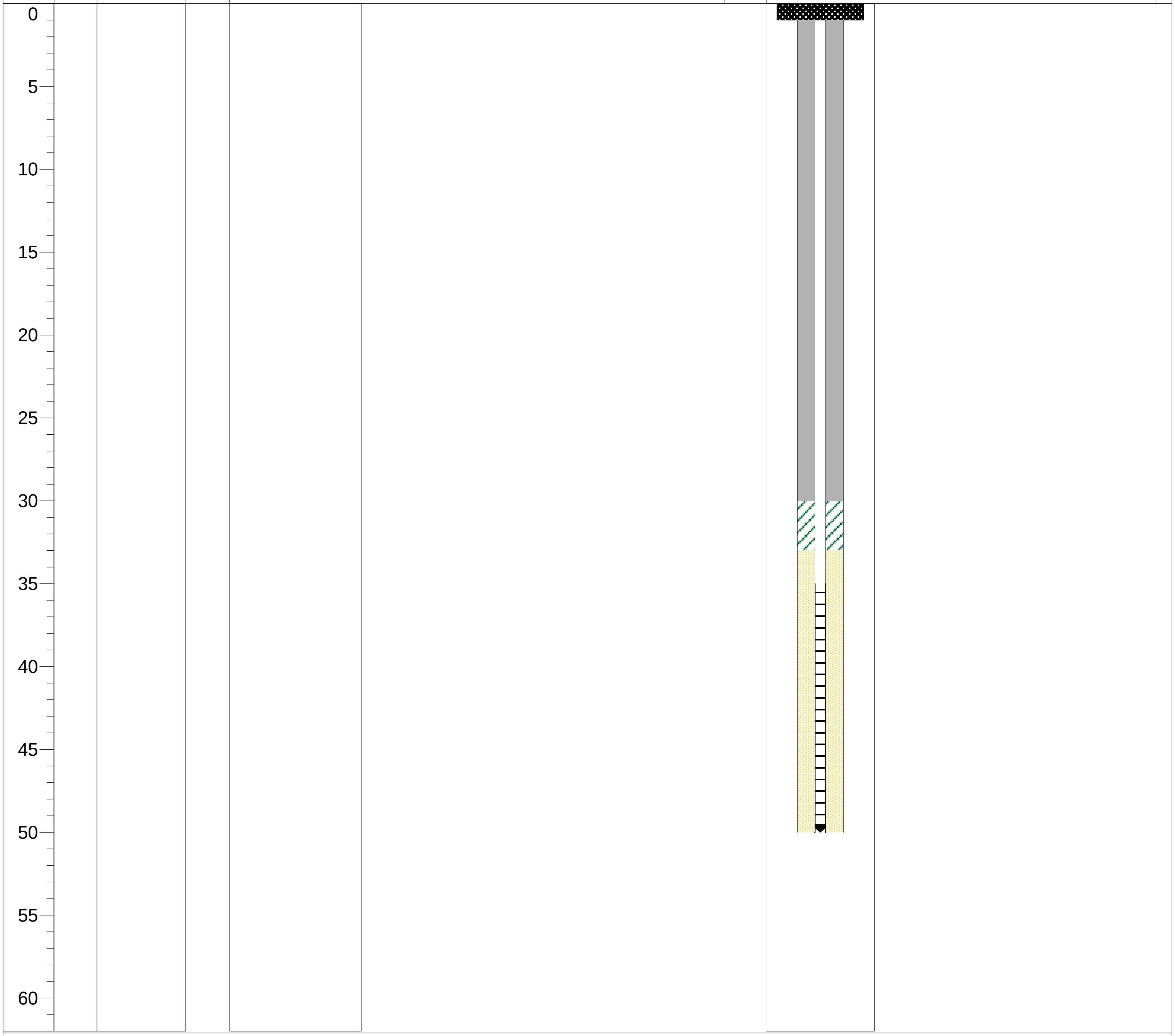
SAMPLING METHOD: N/A

BOREHOLE DIAMETER (In.): 4.25

WELL DIAMETER (In.): 1

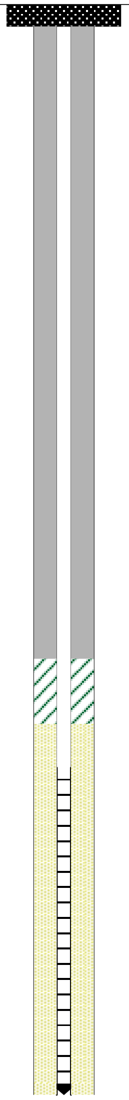
LOGGED BY: Alex Testoff

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



PROJECT: **Rheem Manufacturing Company**		Log of Boring No. **PTW-3**	
SITE LOCATION:	Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR:	Atlas Geo-Sampling	DATE STARTED: 7/25/2017	DATE FINISHED: 7/25/2017
DRILLING METHOD:	Auger	TOTAL DEPTH (ft.): 50	SCREEN INTERVAL (ft.): 35-50
DRILLING EQUIPMENT:	AMS PowerProbe 9510	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): 0-35
SAMPLING METHOD:	N/A	BOREHOLE DIAMETER (In.): 4.25	WELL DIAMETER (In.): 1
LOGGED BY:	Alex Testoff		

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						
5						
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						



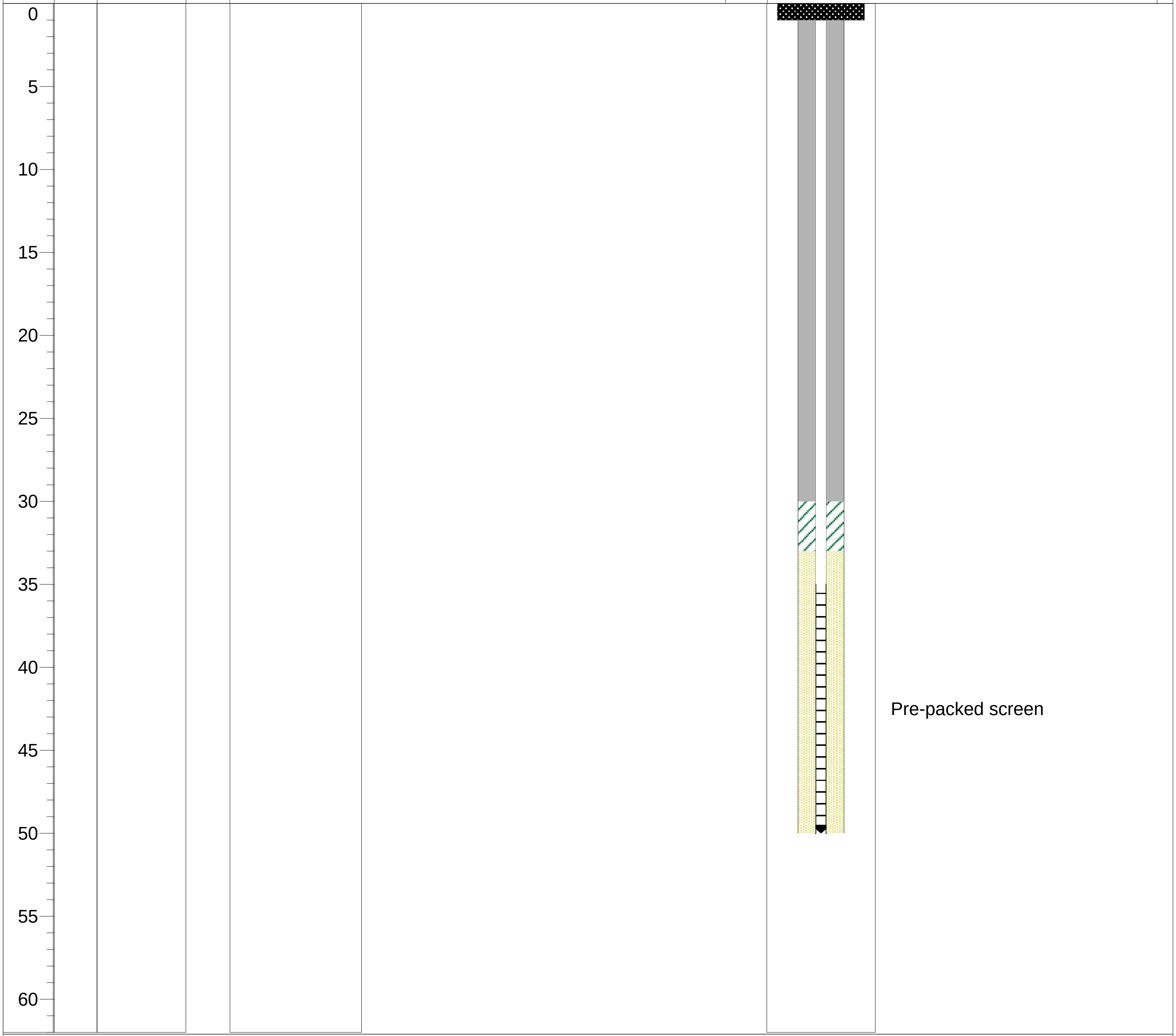
EPS

PROJECT:
Rheem Manufacturing Company

Log of Boring No.
PTW-4

SITE LOCATION: Milledgeville, GA
TOP OF CASING ELEVATION (ft): N/A
DRILLING CONTRACTOR: Atlas Geo-Sampling
DATE STARTED: 7/25/2017
DATE FINISHED: 7/25/2017
DRILLING METHOD: Auger
TOTAL DEPTH (ft.): 50
SCREEN INTERVAL (ft.): 35-50
DRILLING EQUIPMENT: AMS PowerProbe 9510
DEPTH TO WATER AT TIME OF BORING (ft.): NM
CASING (ft.): 0-35
SAMPLING METHOD: N/A
BOREHOLE DIAMETER (In.): 4.25
WELL DIAMETER (In.): 1
LOGGED BY: Alex Testoff

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



PROJECT: **Rheem Manufacturing Company**

Log of Boring No. **PTW-5**

SITE LOCATION: Milledgeville, GA

TOP OF CASING ELEVATION (ft): N/A

DRILLING CONTRACTOR: Atlas Geo-Sampling

DATE STARTED: 7/25/2017

DATE FINISHED: 7/26/2017

DRILLING METHOD: Auger

TOTAL DEPTH (ft.): 55

SCREEN INTERVAL (ft.): 40-55

DRILLING EQUIPMENT: AMS PowerProbe 9510

DEPTH TO WATER AT TIME OF BORING (ft.): NM

CASING (ft.): 0-40

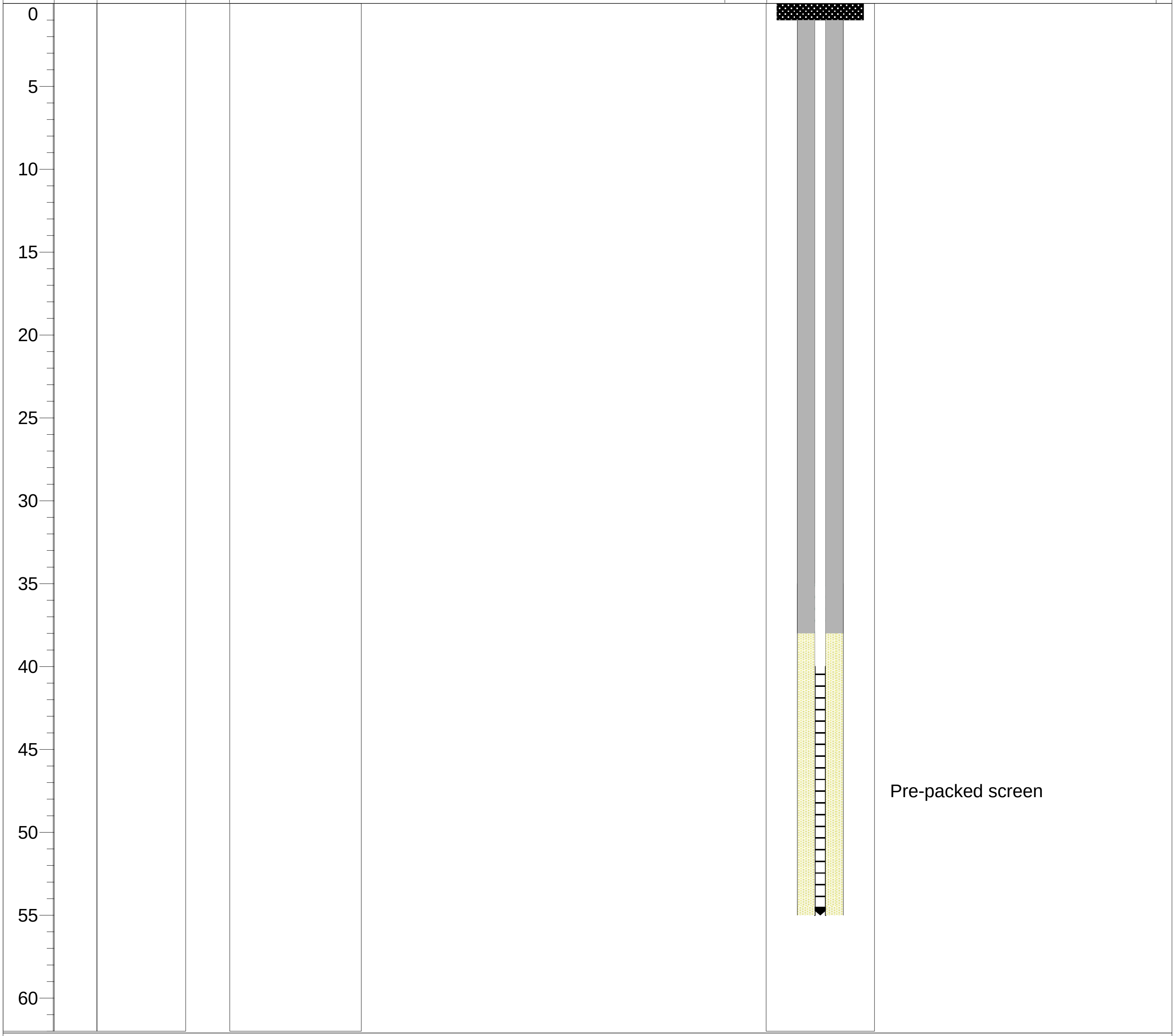
SAMPLING METHOD: N/A

BOREHOLE DIAMETER (In.): 4.25

WELL DIAMETER (In.): 1

LOGGED BY: Alex Testoff

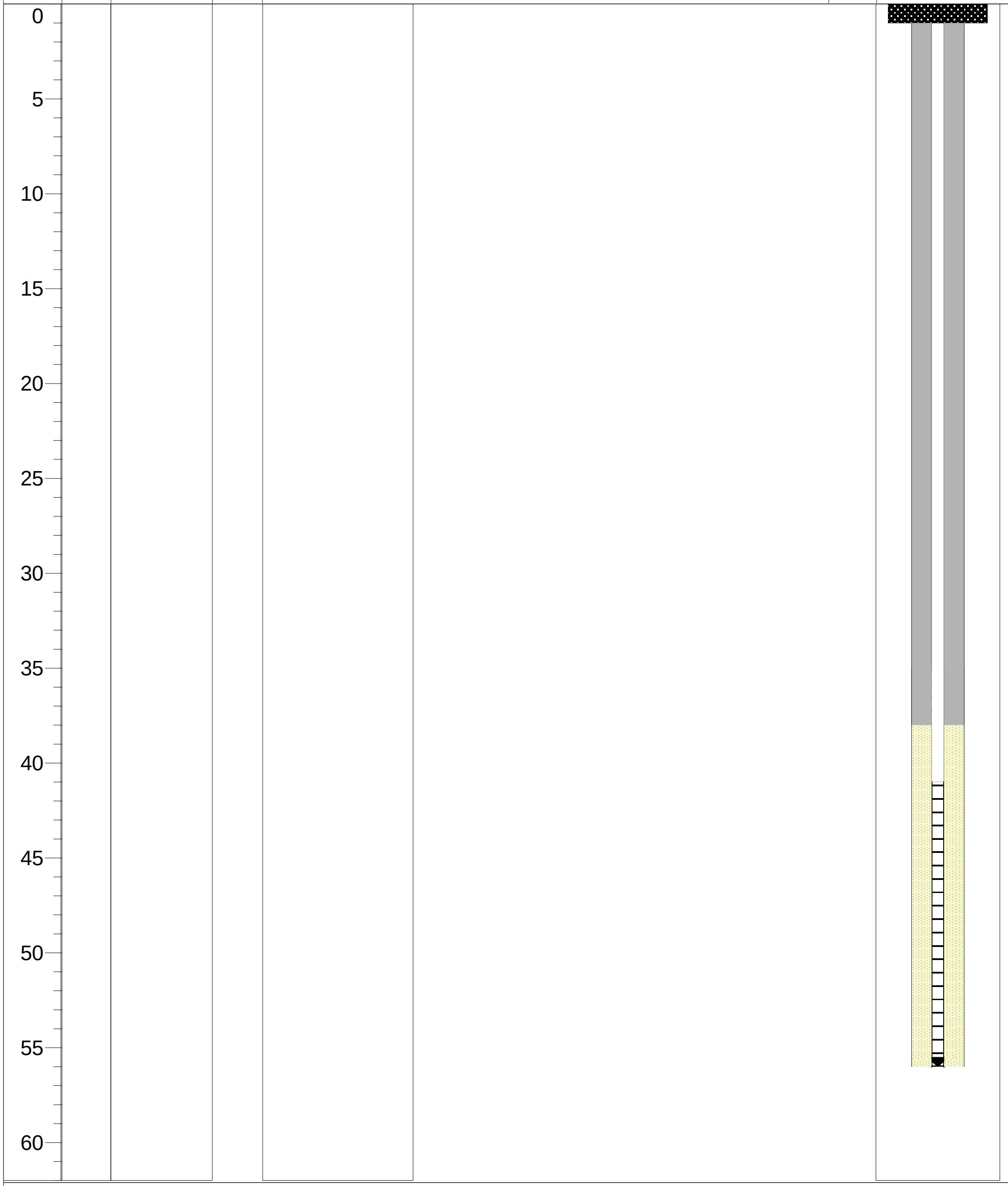
DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Pre-packed screen

PROJECT: **Rheem Manufacturing Company**		Log of Boring No. **PTW-6**	
SITE LOCATION:	Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR:	Atlas Geo-Sampling	DATE STARTED: 7/26/2017	DATE FINISHED: 7/26/2017
DRILLING METHOD:	Auger	TOTAL DEPTH (ft.): 56	SCREEN INTERVAL (ft.): 41-56
DRILLING EQUIPMENT:	AMS PowerProbe 9510	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): 0-41
SAMPLING METHOD:	N/A	BOREHOLE DIAMETER (In.): 4.25	WELL DIAMETER (In.): 1
LOGGED BY:	Alex Testoff		

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



EPS

PROJECT: **Rheem Manufacturing Company**

Log of Boring No. **PTW-7**

SITE LOCATION: Milledgeville, GA

TOP OF CASING ELEVATION (ft): N/A

DRILLING CONTRACTOR: Atlas Geo-Sampling

DATE STARTED: 7/26/2017

DATE FINISHED: 7/26/2017

DRILLING METHOD: Auger

TOTAL DEPTH (ft.): 60

SCREEN INTERVAL (ft.): 45-60

DRILLING EQUIPMENT: AMS PowerProbe 9510

DEPTH TO WATER AT TIME OF BORING (ft.): NM

CASING (ft.): 0-45

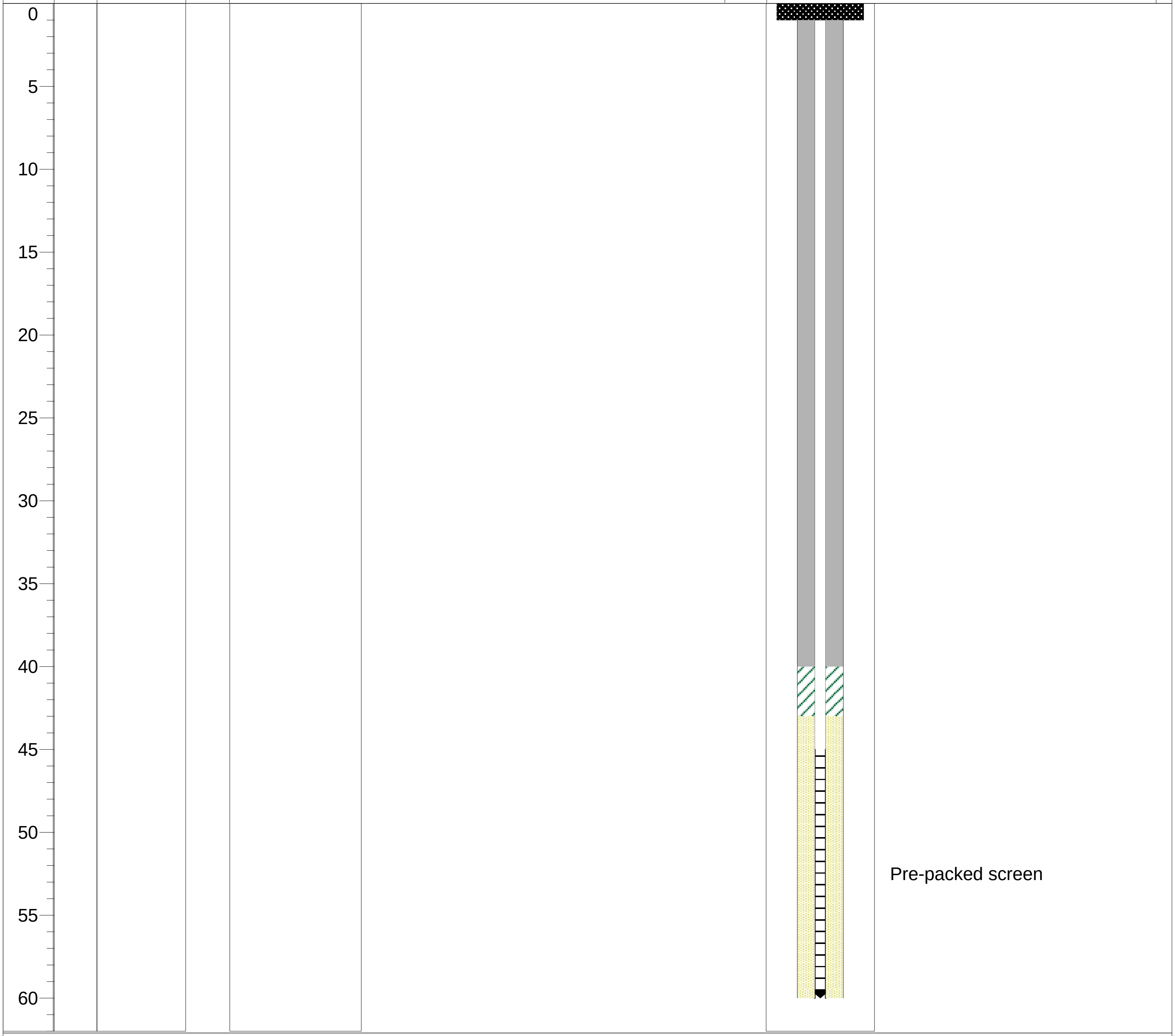
SAMPLING METHOD: N/A

BOREHOLE DIAMETER (In.): 4.25

WELL DIAMETER (In.): 1

LOGGED BY: Alex Testoff

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



EPS

PROJECT:

Rheem Manufacturing Company

Log of Boring No.

PTW-8

SITE LOCATION: Milledgeville, GA

TOP OF CASING ELEVATION (ft): N/A

DRILLING CONTRACTOR: Atlas Geo-Sampling

DATE STARTED: 7/26/2017

DATE FINISHED: 7/26/2017

DRILLING METHOD: Auger

TOTAL DEPTH (ft.): 46

SCREEN INTERVAL (ft.): 31-46

DRILLING EQUIPMENT: AMS PowerProbe 9510

DEPTH TO WATER AT TIME OF BORING (ft.): NM

CASING (ft.): 0-31

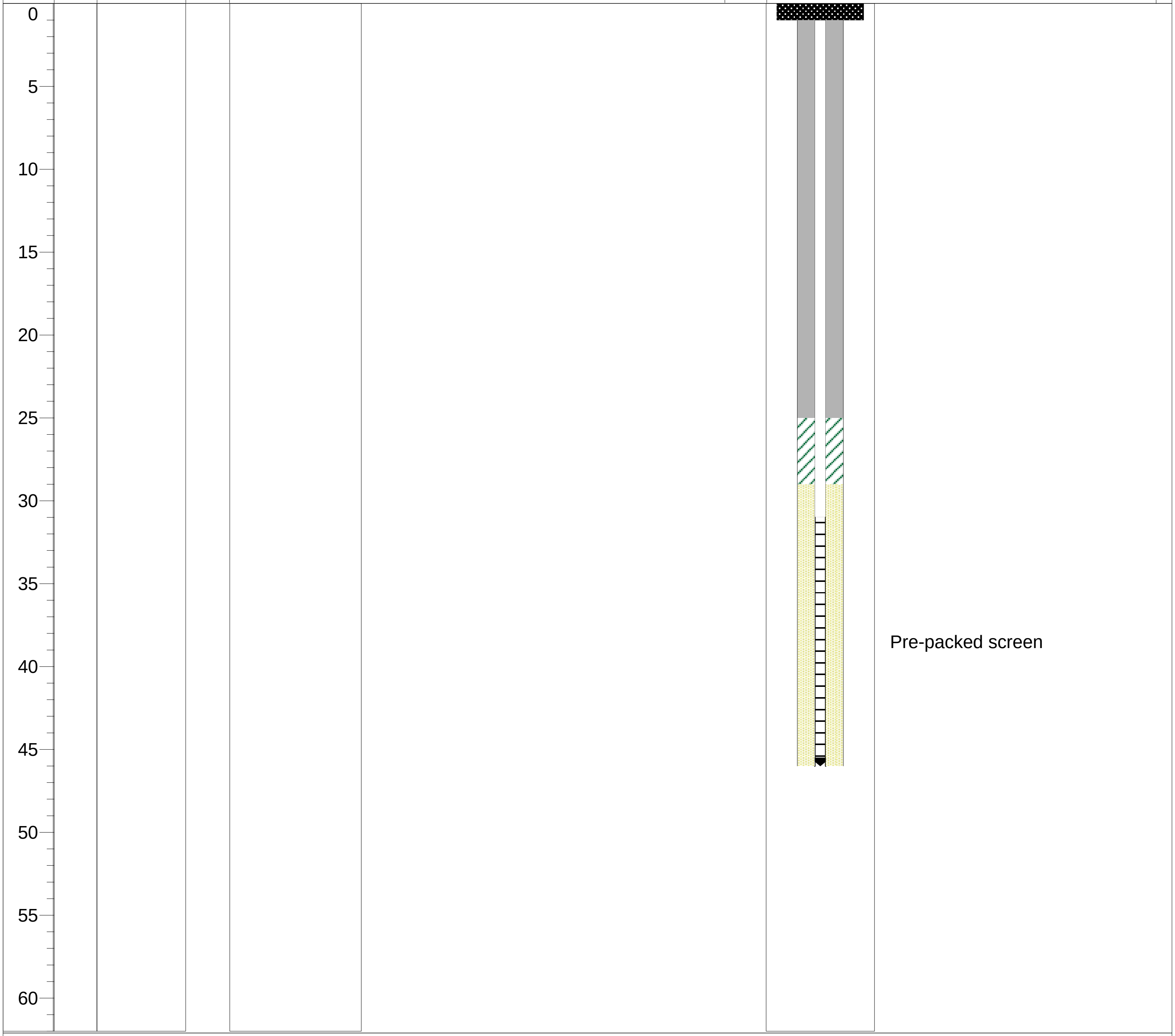
SAMPLING METHOD: N/A

BOREHOLE DIAMETER (In.): 4.25

WELL DIAMETER (In.): 1

LOGGED BY: Alex Testoff

DEPTH (feet)		PID Reading		DESCRIPTION Ground Surface Elevation (ft): N/A		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



EPS