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November 30, 2015

Peter Johnson
Compliance Officer, Response and Remediation Program
Land Protection Branch
Georgia Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1054 East Floyd Tower
Atlanta, GA 30334

**Re: Voluntary Remediation Program Progress Report
Rheem Manufacturing Company
138 Roberson Mill Road
Milledgeville, Georgia**

Dear Mr. Johnson:

Please find attached one paper copies and two electronic copies of the above-referenced report.

If you have any questions, please call.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Vickery", is written over the typed name and title of Justin Vickery.

Justin Vickery, P.G.
Associate

Attachment: Voluntary Remediation Program Progress Report

Prepared for:

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

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

Prepared by:



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

November 2015

VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT

**RHEEM MANUFACTURING COMPANY
MILLEDGEVILLE, GEORGIA**

Prepared For:

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

Prepared By:



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Justin Vickery, P.G.

November 2015

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

November 2015

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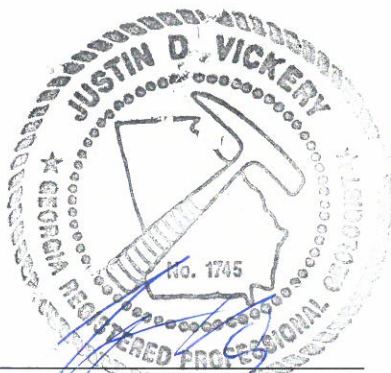
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VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT
 RHEEM MANUFACTURING COMPANY
 Milledgeville, Georgia

GROUNDWATER SCIENTIST STATEMENT

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



Certified by: _____
 Justin D. Vickery, P.G.
 Associate
 No. 1745

Date: 11-30-15

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 2015 through October 2015) and to discuss planned activities for the next reporting period. Specifically, this Progress Report includes: (i) an update on the activities completed during this reporting period, (ii) a discussion of the milestone schedule for planned activities, and (iii) a discussion of the effectiveness of ongoing remedial actions.

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 comprised of 41.12 acres and is primarily improved with a vacant manufacturing and office building, and an asphalt-paved parking lot. It is fenced and has full time security. The 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 (TCE ASTs) to a parts washer inside the Facility. The quantity and duration of the TCE release are unknown. A groundwater recovery system, which is still in operation, was installed in 1989-1990 to remediate TCE in groundwater. Since that time, Rheem has performed ongoing assessment and remedial action 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

A revised milestone schedule is included in Appendix B.

2.3 Conceptual Site Model

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

3 RECENTLY COMPLETED ACTIVITIES

3.1 Overview

Section 3 discusses activities conducted between May 1, 2015 and October 31, 2015, including:

- off-Property groundwater monitoring,
- on-Property groundwater remediation, and
- operation of the on-Property vadose zone soil vapor extraction system.

3.2 Off-Property Groundwater Monitoring

On October 12-14, 2015, the network of off-Property monitoring wells (MW-33, MW-34, MW-36, MW-43, MW-44, MW-45, MW-46, and MW-47) were gauged with a water level meter, purged, and sampled for VOCs. Well MW-35 was under puddled water and was not accessible during this sampling event. The wells were purged using low flow / low volume methods. Purge forms are included in Appendix C.

The groundwater flow direction was to the south-southwest, similar to the direction specified in historical potentiometric surface maps. Figure 3 is a potentiometric surface map for the October 2015 gauging event. Table 1 summarizes well construction information (all tables are included in the Tables attachment), and Table 2 summarizes recent groundwater elevations.

Consistent with historical results, TCE was detected in samples collected from MW-33 (150 micrograms per liter ($\mu\text{g/L}$)), MW-34 (57 $\mu\text{g/L}$), MW-43 (140 $\mu\text{g/L}$), and MW-46 (21 $\mu\text{g/L}$), but was not detected in MW-36, MW-44, MW-45, and MW-47. Also consistent with historical data, cis-1,2-dichloroethene was detected in samples collected from MW-33 (18 $\mu\text{g/L}$) and MW-43 (6.6 $\mu\text{g/L}$), but was not detected in the other wells. TCE results are shown on Figure 4 and summarized in Table 3, and the laboratory report is included in Appendix D.

3.3 Remediation

3.3.1 Groundwater Remedial Action

3.3.1.1 ART System Assessment

ART Technology combines in-situ air stripping, air sparging, and soil vapor extraction in an innovative wellhead system to perform in-well treatment for VOCs in groundwater. Within each well casing of the ART system, ambient air is sparged near the bottom of the well casing while simultaneously groundwater is pumped from the bottom of the casing to the wellhead, at which point it is dispersed with a spray head and allowed to cascade back to the water table. These actions together perform the function of a conventional air stripper, as the dissolved phase VOCs

are transferred to a gaseous phase and captured above ground in granular activated carbon canisters. The negative pressure imparted by the vacuum system and the pumping of groundwater from the bottom to the top of the well casing results in circulation of groundwater in the aquifer near the well.

Conceptually, the remedial design was to locate ART remediation wells within the area of the highest dissolved TCE concentrations detected in groundwater at the Property's western boundary. With a reduced VOC mass flux away from the Facility, other natural attenuation processes along the continued flow path of groundwater would then be sufficient to address the lesser VOC flux conditions. The ART system began as a pilot test with the operation of two remediation wells (ART-1 and ART-2) in October 2012. Based on the pilot test results three new ART remediation wells (ART-3, ART-4, and ART-5) were installed in July 2013. The design of the three new ART remediation wells was modified from the original setup with an increase in well casing diameter (4" to 6"), and the new wells were installed approximately 20 ft deeper extending into competent bedrock. To assess the design and performance of the new ART remediation wells, ART-1 and ART-2 were removed from operation from October 2013 to September 2014, while ART-3, ART-4 and ART-5 were assessed. After this one-year assessment period for ART-3, ART-4 and ART-5, the original ART wells were returned to service, with all five ART remediation wells active from September 2014 to date. The wells are aligned from the northwest to the southeast, perpendicular to groundwater flow near the western boundary of the Property in the following order: ART-3, ART-1, ART-4, ART-2, and ART-5 (Figure 5).

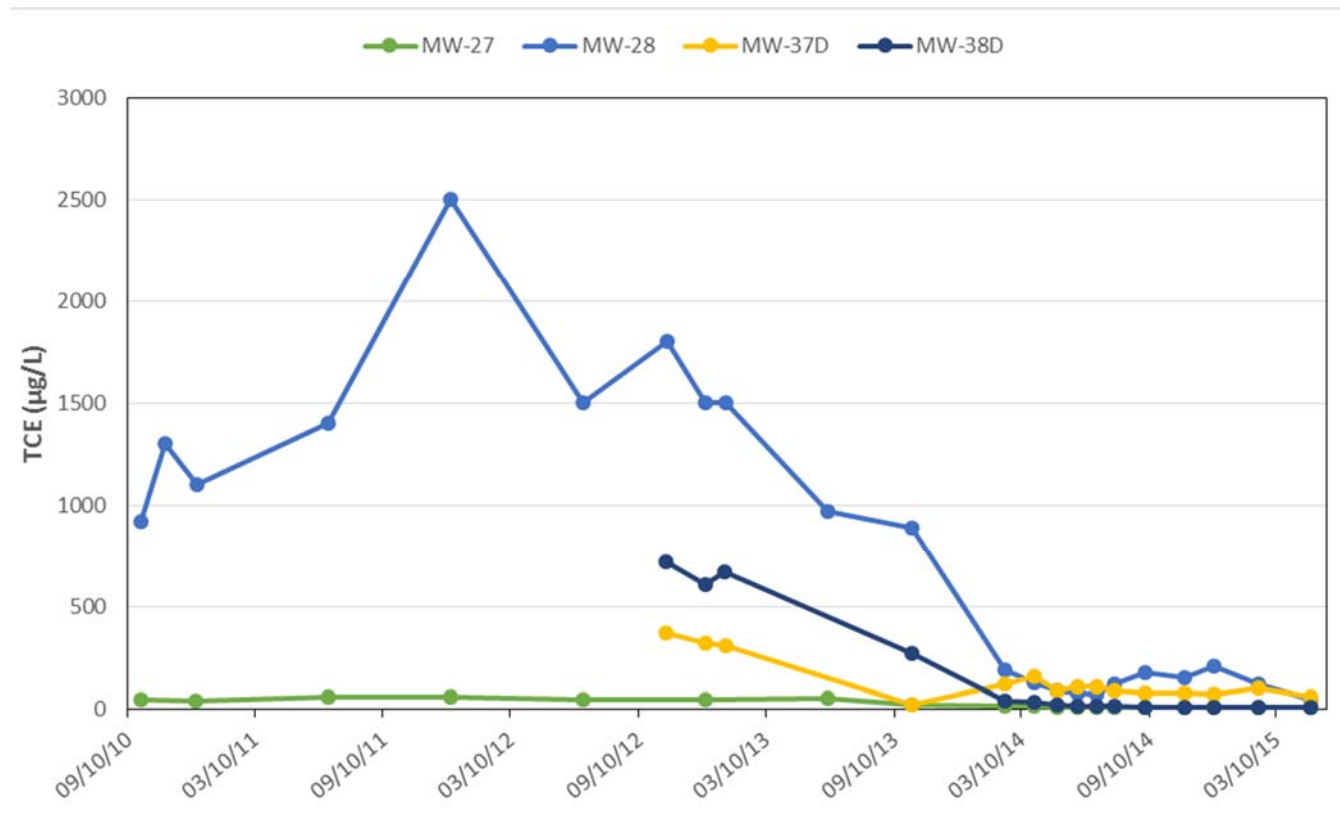
ART system performance is actively monitored using two groundwater quality probes that track dissolved oxygen (DO) concentration and oxidation-reduction potential (ORP) in the ART well zone of influence. The probes are set at mid-screen depth in well MW-28 (screened from 90 to 100 ft-bgs), which is approximately 30 ft down-gradient of the ART well alignment, and well MW-38D (screened from 67 to 77 ft-bgs), which is approximately 10 ft down and side-gradient of the ART well alignment. Deviation from background DO and ORP conditions (*i.e.* increasing DO and ORP) indicates the ART system is modifying the groundwater condition in the aquifer adjacent to the ART system and removal of VOCs is occurring as previously demonstrated in prior progress reports. Aquifer DO and ORP have remained elevated at a near steady-state condition since system startup in November 2013.

A summary of the data is as follows:

- DO in MW-28 and MW-38D continues to maintain a relative steady-state condition (8-10 milligrams per liter (mg/L)) near oxygen saturation limits, indicating ART well air sparging is effectively modifying the groundwater geochemical environment as designed.
- DO in MW-28 is currently at 9.2 mg/L. In comparison, historical DO values for MW-28 were approximately 1.0 mg/L.
- DO in MW-38D is currently at 9.4 mg/L. In comparison, DO in MW-38D during historical sampling was less than 1.0 mg/L.
- ORP in MW-28 and MW-38D has reached a relative steady-state condition near 400 mV, confirming the DO data and influence of the ART system.

ART system VOC monitoring was not conducted during this reporting period. The following table presents results from previous sampling events and illustrates the effectiveness of the ART system to decrease VOC concentrations. Monitoring wells MW-37S, MW-38S, and MW-39 are not included on the chart because VOCs have not been detected in these wells.

TCE Test Results for ART Performance Monitoring Wells



3.3.1.2 Groundwater Pump-and-Treat System

The groundwater recovery (pump-and-treat) system continues to operate. It consists of four recovery wells (RWs), each with either a down-hole pump or an injection pump, piped to an air stripper. Air stripper emissions pass through three activated carbon drums. Treated groundwater is discharged to the City of Milledgeville publicly owned treatment works.

3.3.2 Soil (Vadose Zone) Remedial Action

A soil vapor extraction (SVE) system has been installed to extract VOCs from the vadose zone soil in the area of the TCE release. The SVE system consists of a 40 horse power blower connected to 40 hydraulic fracture wells (see Figure 6). The blower exhaust is diverted through a catalytic oxidizer where it is transformed into carbon dioxide (CO₂) and hydrochloric acid (HCl). These reaction products are then diverted to an air scrubber where the CO₂ is discharged to the atmosphere and the HCl is neutralized with a caustic solution and subsequently discharged to the sewer.

The amount of vapor phase TCE¹ extracted by the SVE system was calculated based on air scrubber caustic usage and is shown on Table 4, which also includes a chart showing the rate of TCE extraction and the cumulative TCE extraction over time. The SVE system began operation during the week of March 30, 2015, and as of October 31, a calculated 9,130 pounds of vapor phase TCE have been removed from the vadose zone in the TCE release area.

3.3.3 On-Property Sub-Slab Depressurization System Installation

In March 2015, the piping for a sub-slab depressurization system was installed in a portion of the warehouse (35,000 square feet (sqft)) and in the office building (15,000 sqft) at the Facility. The system consists of 1,100 linear feet of 3-inch perforated Schedule 40 PVC pipe set immediately beneath the floor slab. Figure 7 shows the layout of the existing sub-slab vapor lines.

Testing of the system was conducted to size an appropriate blower for the system. Total airflow readings were collected, and vacuum readings were collected from sample ports on the lines as well as from temporary sub-slab sample points located at different distances from the lines to determine the air flow required to generate influence throughout the depressurization zone. The results of the testing are currently being evaluated.

3.3.4 TCE Release Area Groundwater Biotreatability Study

As reported in the May 2015 Progress Report, a groundwater treatability study was performed to assess the feasibility of bioremediation for TCE release area groundwater. Based on the treatability study results, bioremediation (i.e. the addition of vegetable oil and non-indigenous *Dehalococcoides* to the treatment zone) was selected as the remedial technology. EPS is currently finalizing the bioremediation design, including implementation strategy (i.e. the injection approach) and media injection parameters (i.e. bioremediation media mass and volume per injection location).

¹ Since the majority of the VOCs in the vadose zone are made up of TCE, calculated VOCs extracted are presented as TCE.

4 PLANNED ACTIVITIES FOR NEXT REPORTING PERIOD

4.1 On-Property Activities

4.1.1 On-Property Groundwater Pump-and-Treat System Operation

Rheem anticipates continuing the operation of the groundwater pump-and-treat system as the near-term remedial technology for on-Property groundwater, while an additional remedial option is being designed.

4.1.2 Property Line ART System Operation

The expanded ART Pilot Test system has shown positive results, including decreasing concentrations of VOCs and an expanding area of influence measured by increased dissolved oxygen and oxidation-reduction potential. During the next reporting period, the ART system will be expanded to the north of its current location with the installation of three new ART wells, as shown on Figure 5. Downhole pumps will be placed in each of the new wells, and the new wells will be connected to the existing air sparge and vapor extraction equipment.

Along with continued geochemical parameter monitoring, monitoring wells along the Property boundary (MW-27, MW28, MW-37S, MW-37D, MW-38S, MW-38D, and MW-39) will be sampled periodically using PDBs, and the samples will be analyzed for TCE.

4.1.3 Soil SVE System Operation

The SVE system has extracted a significant amount of TCE from the vadose zone. It is anticipated that the system will continue to be operated during the next reporting period. It is expected that the catalytic oxidizer will be used for off-gas treatment through January 2015, at which time it will be removed and replaced with carbon vessels.

4.1.4 On-Property Sub-Slab Depressurization System Installation

The results of the sub-slab depressurization system testing are currently being evaluated. Once complete, the next phase of activities will be determined.

4.1.5 TCE Release Area Groundwater Bioremediation

EPS is currently finalizing the bioremediation design, including implementation strategy (i.e. the injection approach) and media injection parameters (i.e. bioremediation media mass and volume per injection location).

4.2 Off-Property Activities

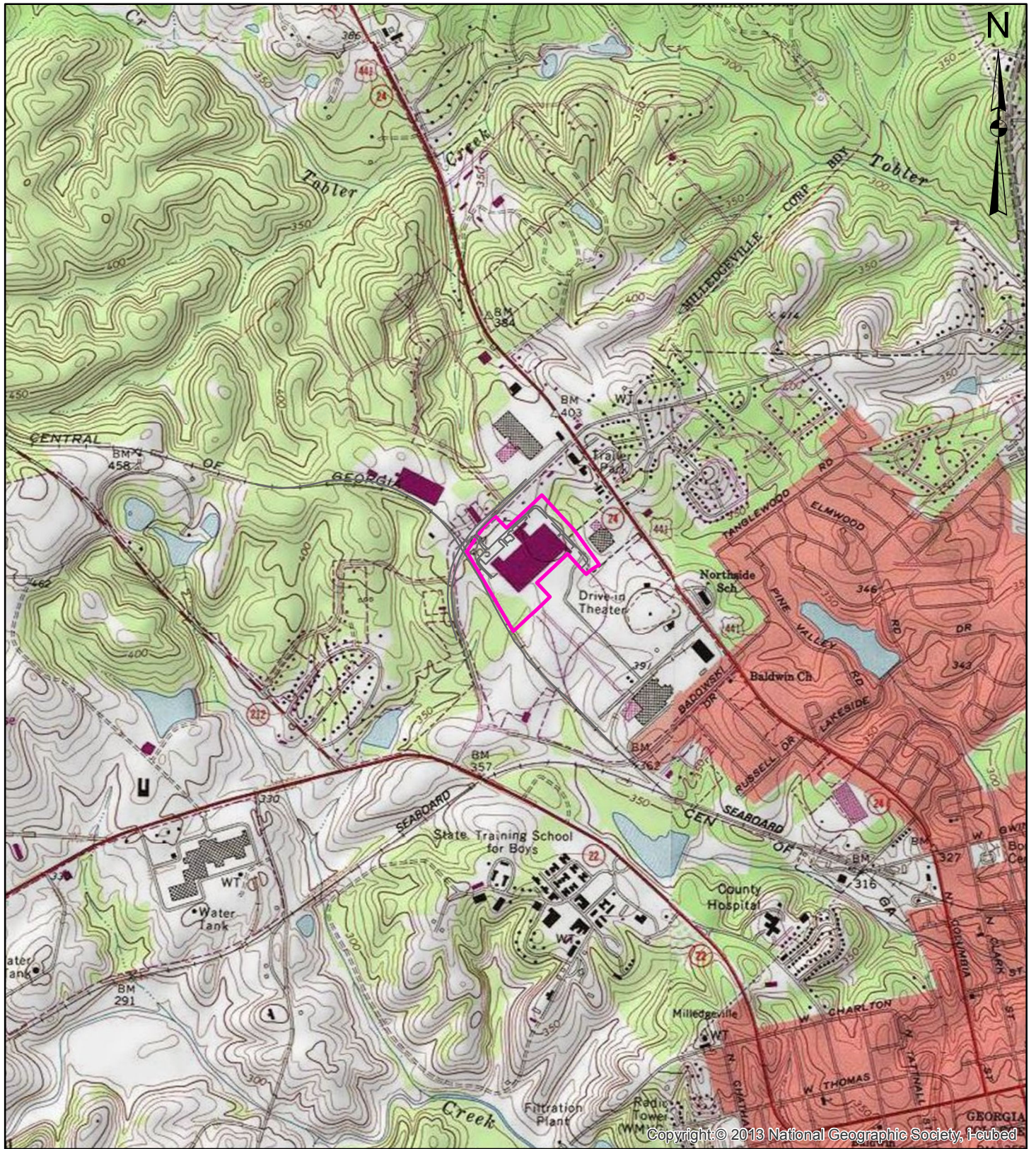
4.2.1 Groundwater Delineation

One off-site monitoring well will be installed across the railroad tracks from the western Property boundary and sampled for VOCs to help determine which properties the VOC plume may underlie. The planned well location is shown on Figure 8.

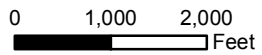
4.2.2 Off-Property Groundwater Monitoring

Monitoring wells, including MW-33, MW-34, MW-35, MW-36, MW-43, MW-44, and MW-45, MW-46, and MW-47, will be sampled during the next reporting period. The initial sampling results of the new monitoring well will be evaluated to determine if this well will be included in the next off-Property sampling event.

FIGURES



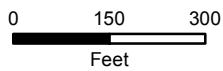
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Legend
 Property Line

Property Vicinity Topographic Map

Rheem Manufacturing Company
 Milledgeville, Georgia

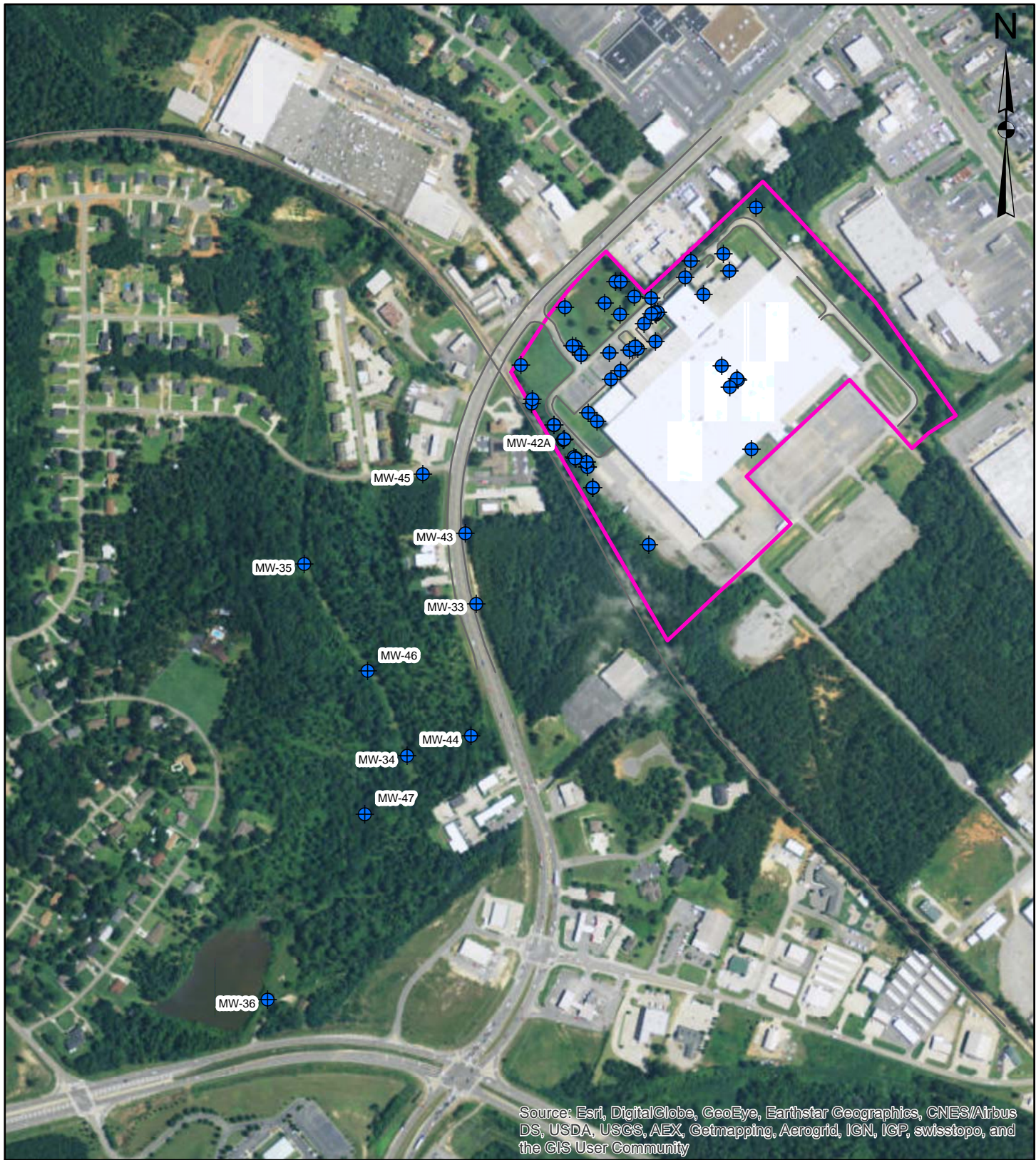


Legend

- Property Line
- ⊕ Monitoring Well
- ⊕ Recovery Well

Property Plan

Rheem Manufacturing Company
Milledgeville, Georgia

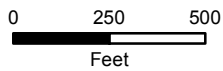
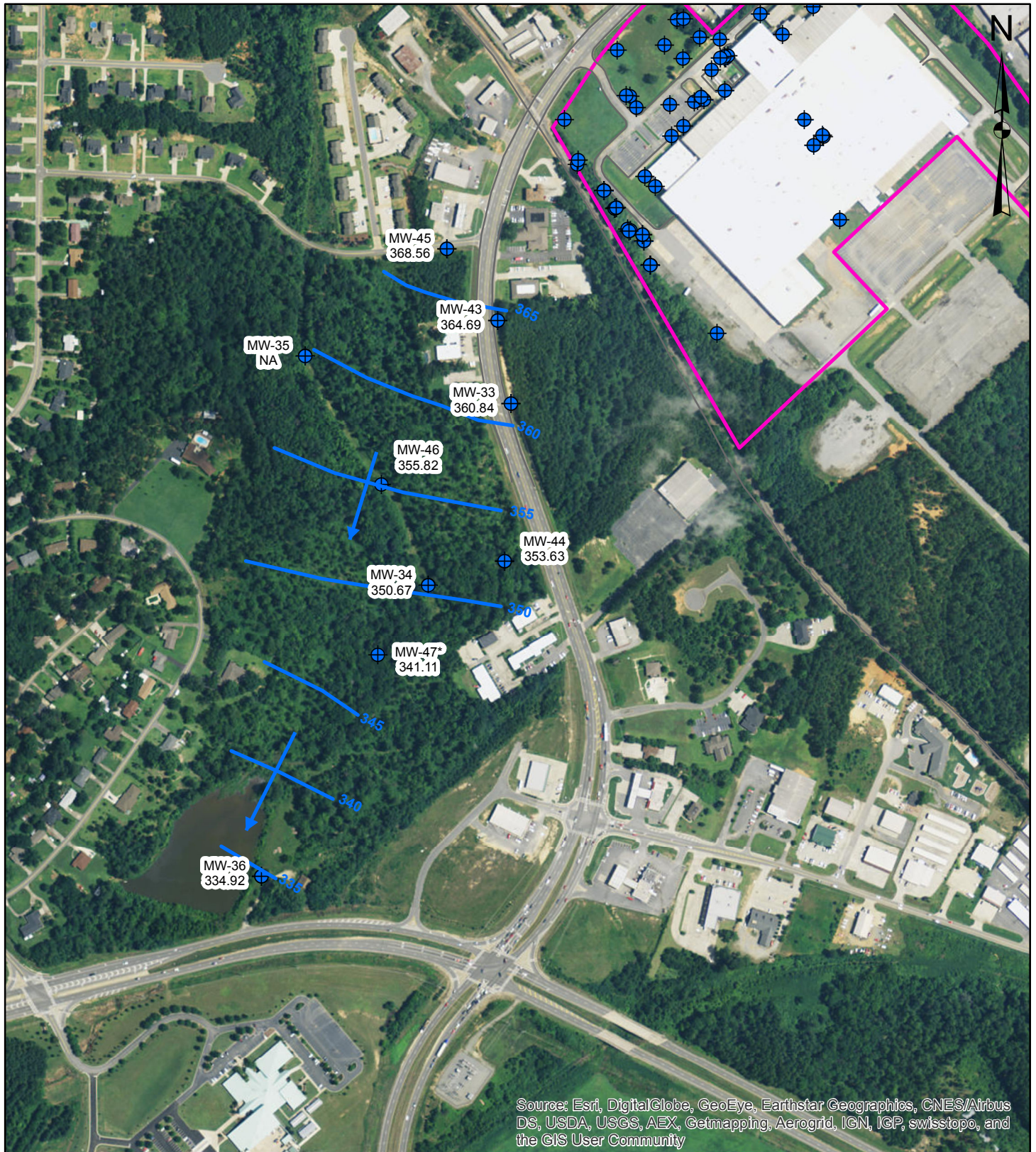


0 300 600
Feet

Legend

- Property Line
- ⊕ Monitoring Well

Property Vicinity Plan
Rheem Manufacturing Company
Milledgeville, Georgia



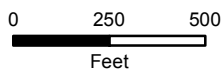
Legend

- Property Line
- ⊕ Monitoring Well
- 334.92 Groundwater Elevation (ft)
- Potentiometric Surface Contour
- Groundwater Flow Direction
- NA Not Accessible

**Potentiometric Surface Map
for Off-Property Wells
(October 2015)**

Rheem Manufacturing Company
Milledgeville, Georgia

* Reported groundwater elevation for MW-47 is inconsistent with area wells and not used for interpretation of potentiometric surface. Elevation will be verified in future gauging event.

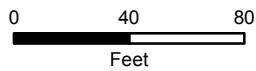


Legend






- Property Line
- + Monitoring Well
- 57 TCE Concentration (ug/L)
- Off-Property Non-detect Boundary

**Groundwater Sampling Results
for Off-Property Wells
(October 2015)**

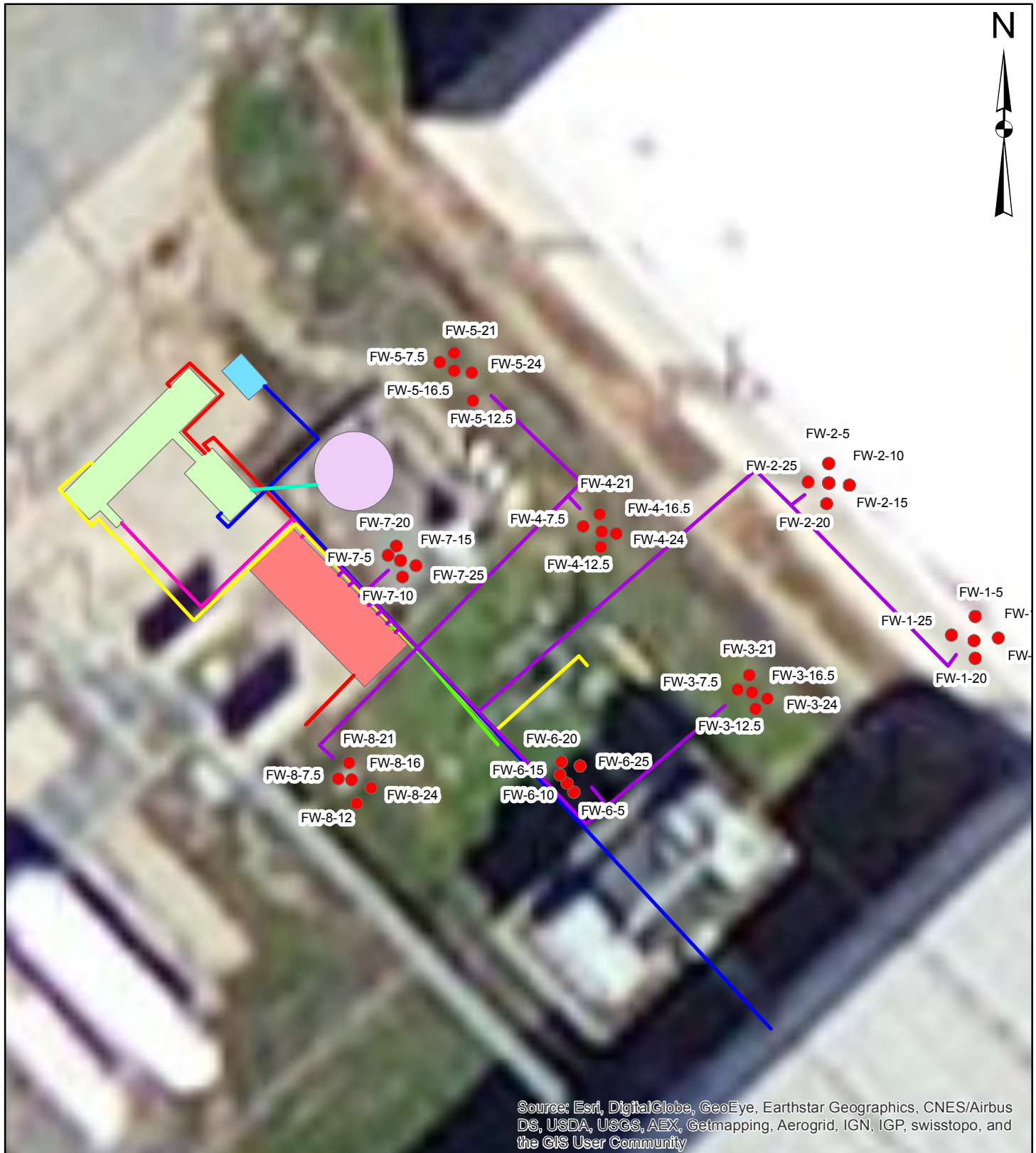
Rheem Manufacturing Company
Milledgeville, Georgia



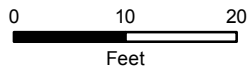
Legend

-  Existing ART Well - Maintain
-  Existing ART Well - Decommission
-  Proposed New ART Well
-  Property Line
-  Monitoring Well

Property Line Plan
 Rheem Manufacturing Company
 Milledgeville, Georgia



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



Legend

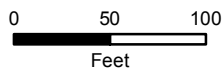
- SVE Lines
- Caustic Line
- Water Line
- Drain Line
- Gas Line
- Overhead Exhaust
- Power
- SVE System
- CatOx/Scrubber
- Caustic Tank
- Frac Wells
- Safety Shower

As Built SVE System Layout

Rheem Manufacturing Company
Milledgeville, Georgia



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

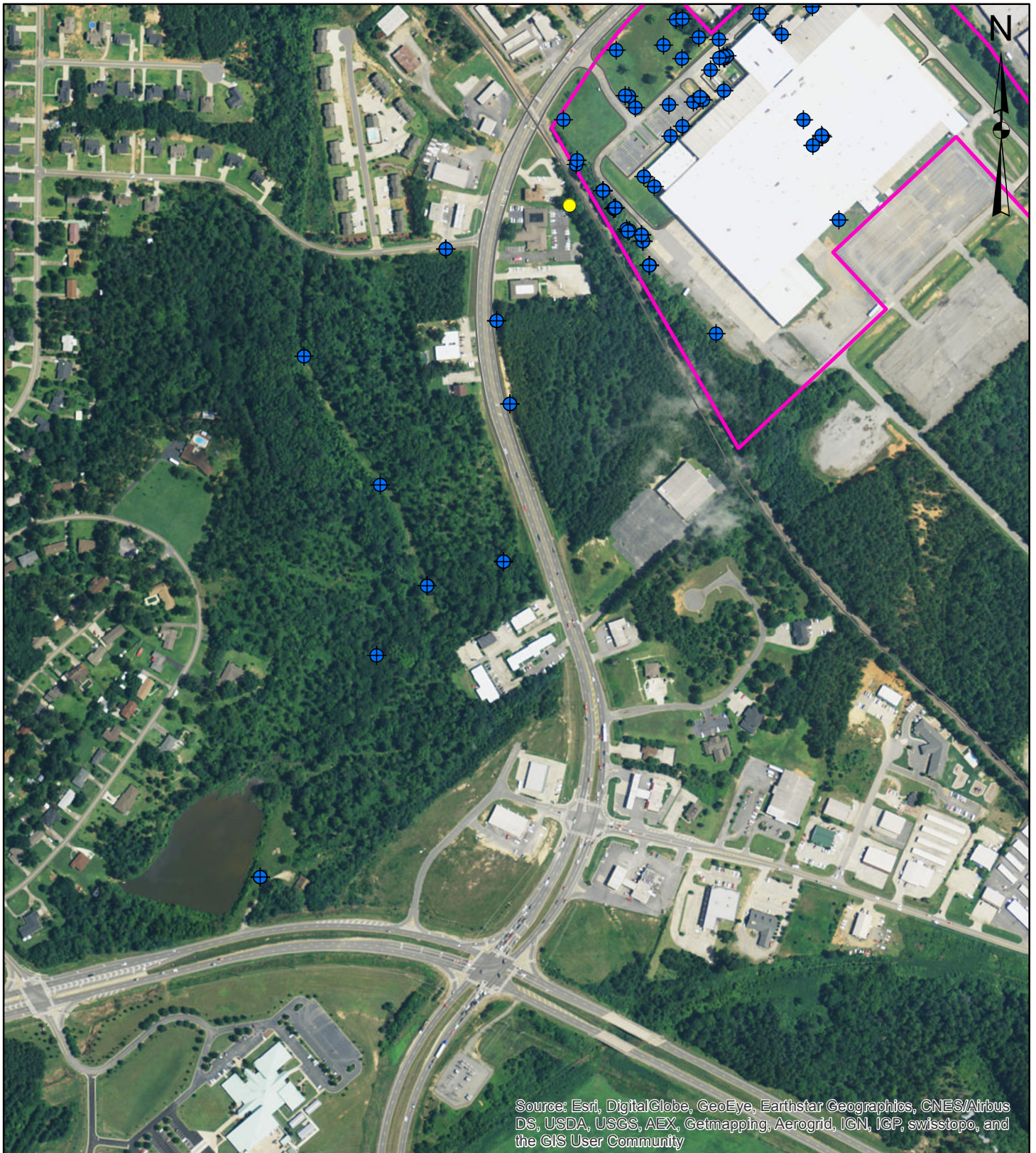


Legend

- Sub-slab Vapor Lines
- Access Vault

As Built Vapor Mitigation System Layout

Rheem Manufacturing Company
Milledgeville, Georgia



0 250 500
Feet

Legend

- Property Line
- ⊕ Monitoring Well
- Planned Monitoring Well

Planned Monitoring Well
Rheem Manufacturing Company
Milledgeville, Georgia

TABLES

Table 1
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Hydrogeologic Setting of Screened Interval	Installation Date
MW-1	44	29 - 44	Soil	11/02/88
MW-2	39	29 - 39	Soil	11/11/88
MW-3	40	30 - 40	Soil	11/09/88
MW-3A	135.5	125.5 - 135.5	Bedrock	09/12/90
MW-3B	209	199 - 209	Bedrock	08/01/91
MW-4	24	14 - 24	Soil	11/08/88
MW-5	86.5	76.5 - 86.5	Bedrock	04/27/89
MW-6	125	120 - 125	Bedrock	05/18/89
MW-7	50	40 - 50	PWR	06/29/89
MW-8	51	41 - 51	PWR	06/30/89
MW-9	45	35 - 45	PWR	06/29/89
MW-10	43	33 - 43	PWR	07/05/89
MW-11	68	58 - 68	PWR	11/30/89
MW-12	54	44 - 54	PWR	11/20/89
MW-12A	94.5	84.5 - 94.5	Bedrock	09/13/90
MW-13	55	45 - 55	PWR	11/28/89
MW-14	49	39 - 49	PWR	11/21/89
MW-15	41.5	31.5 - 41.5	PWR	12/04/89
MW-16	35.5	25.5 - 35.5	Soil/PWR	12/05/89
MW-17	37	27 - 37	Soil/PWR	12/06/89
MW-18	17.5	2.5 - 17.5	Soil	12/06/89
MW-19	36	26 - 36	Soil/PWR	11/31/89
MW-20	24	9 - 24	Soil	01/23/90
MW-21	51	41 - 51	Soil	01/22/90
MW-22	80	70 - 80	PWR	06/20/91
MW-23	32	22 - 32	Soil	06/26/91
MW-24	195	175 - 195	Bedrock	06/08/10
MW-25	197	184 - 194	Bedrock	06/07/10
MW-26	131	121 - 131	Bedrock	06/09/10
MW-27	168	158 - 168	Bedrock	09/21/10
MW-28	100	90 - 100	PWR	09/23/10
MW-29	62	52 - 62	PWR	09/22/10
MW-30	73	63 - 73	PWR	09/24/10
MW-31	85	75 - 85	PWR	07/11/11
MW-32	87	77 - 87	PWR	07/11/11
MW-33	157	137 - 157	Bedrock	10/27/11
MW-34	182	172 - 182	PWR	07/12/12
MW-35	109	87 - 107	PWR	07/15/12
MW-36	62	50 - 60	PWR	09/20/12
MW-37S	40	30 - 40	PWR	09/21/12
MW-37D	87	77 - 87	PWR	09/21/12
MW-38S	40	30 - 40	PWR	09/22/12
MW-38D	77	67 - 77	PWR	09/22/12
MW-39	40	30 - 40	Soil	09/22/12
MW-40A	200	185 - 195	Bedrock	08/06/13
MW-40B	152*	140 - 150	Bedrock	08/06/13
MW-40C	92*	80 - 90	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)	Hydrogeologic Setting of Screened Interval	Installation Date
MW-40D	72*	60 - 70	PWR/Bedrock	08/06/13
MW-40E	42*	30 - 40	Soil	08/06/13
MW-41A	200.5	195.5 - 200.5	Bedrock	07/28/13
MW-41B	142*	130 - 140	Bedrock	07/28/13
MW-41C	102*	90 - 100	Bedrock	07/28/13
MW-41D	82*	70 - 80	PWR	07/28/13
MW-41E	42*	30 - 40	Soil	07/28/13
MW-42A	200	182 - 192	Bedrock	08/05/13
MW-42B	174*	162 - 172	Bedrock	08/05/13
MW-42C	112*	100 - 110	Bedrock	08/05/13
MW-42D	85	75 - 85	PWR/Bedrock	08/06/13
MW-42E	42*	30 - 40	Soil	08/06/13
MW-43	112	97 - 107	PWR	08/10/13
MW-44	90	65 - 75	PWR/Bedrock	08/10/13
MW-45	95	85 - 95	PWR/Bedrock	12/17/13
MW-46	52	32 - 52	PWR	07/24/14
MW-47	94	74 - 94	PWR	07/25/14
MW-48A	98	78-98	Bedrock	01/21/15
MW-48B	73*	62-72	PWR	01/21/15
MW-48C	46*	35-45	Soil	01/21/15
MW-49A	88	78-88	Bedrock	01/22/15
MW-49B	69*	58-68	PWR/Bedrock	01/22/15
MW-49C	41*	30-40	Soil	01/22/15
MW-50A	138	123-138	Bedrock	01/24/15
MW-50B	115*	104-114	PWR/Bedrock	01/24/15
MW-50C	81*	70-80	PWR	01/24/15
MW-51A	109	99-109	Bedrock	01/26/15
MW-51B	95*	84-94	PWR	01/26/15
MW-51C	61*	50-60	Soil/PWR	01/26/15
MW-52A	144	125-135	PWR	01/28/15
MW-52B	91*	80-90	PWR	01/28/15
MW-52C	51*	40-50	PWR	01/28/15
MW-53A	137	127-137	Bedrock	01/30/15
MW-53B	121*	110-120	PWR / Bedrock	01/30/15
MW-53C	81*	70-80	PWR	01/30/15
PZ-1	40	20 - 40	Soil	04/27/89
PZ-2 **	N/A	N/A	N/A	01/99 (1)
PZ-3	54	44 - 54	PWR	06/12/91
PZ-4	27.5	17.5 - 27.5	Soil	06/12/91
PZ-5	56	46 - 56	Soil	06/13/91
PZ-6	28	18 - 28	Soil	06/13/91
PZ-7	63	53 - 63	PWR	06/14/91
PZ-8	27	17 - 27	Soil	06/14/91
RW-1 ***	85	15 - 85	Soil/PWR	01/99 (2)
RW-2	90	20 - 90	Soil/PWR	06/30/91
RW-3	181	36 - 181	Soil/PWR/Bedrock	08/15/91
RW-4	73	28 - 73	Soil/PWR	07/26/91

Table 1
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Hydrogeologic Setting of Screened Interval	Installation Date
ART-1	106	6-66, 76-106	Soil/PWR/Bedrock	09/23/12
ART-2	105	10-55, 65-105	Soil/PWR/Bedrock	09/24/12
ART-3	125	12-72, 82-102, 105-125	Soil/PWR/Bedrock	07/23/13
ART-4	120	12-67, 77-97, 100-120	Soil/PWR/Bedrock	07/25/13
ART-5	120	12-67, 77-97, 100-120	Soil/PWR/Bedrock	07/28/13

Notes:

ft-bgs: feet below ground surface

N/A: Information currently not available

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

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

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

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

Well No.	Date Measured	Top of Casing Elevation (ft-amls)	Depth to Groundwater (ft)	Groundwater Elevation (ft-amls)
MW-33	10/13/2015	392.08	31.24	360.84
MW-34	10/13/2015	352.76	2.09	350.67
MW-35	10/13/2015	364.16	NA	NA
MW-36	10/12/2015	339.48	4.56	334.92
MW-43	10/14/2015	392.91	28.22	364.69
MW-44	10/13/2015	361.74	8.11	353.63
MW-45	10/14/2015	393.98	25.42	368.56
MW-46	10/13/2015	359.01	3.19	355.82
MW-47	10/13/2015	347.98	5.87	394.13

Notes:

NA: Not Accessible

ft-amls: feet above mean sea level

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

Well No.	2012	2013		2014			2015	
	Dec	Jun	Aug	Mar	Jul	Sep	Mar	Oct
	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE
MW-33	100	53		36		86	140	150
MW-34	45			41		48	53	57
MW-35	ND			NA		ND	NA	NA
MW-36	ND	ND		ND		ND	ND	ND
MW-43			170	150		150	170	140
MW-44			ND	ND		ND	ND	ND
MW-45				ND		ND	ND	ND
MW-46					9.8	15	15	21
MW-47					ND	ND	ND	ND

Notes:

Results are in micrograms per liter (µg/L)

ND: Not Detected

NA: Well Not Accessible

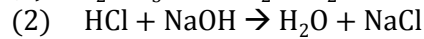
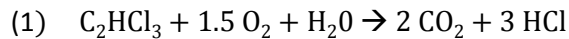
Blank: Well Not Sampled

Table 4
SVE System – Total TCE Extracted
Rheem Manufacturing Company
Milledgeville, Georgia

Date	Total Caustic Use to Date (gallons)	Total TCE Extracted (pounds)
10/31/2015	3228	9130

Notes:

1. TCE breakdown is in accordance with the following chemical reactions in the oxidizer (1) and in the scrubber (2).

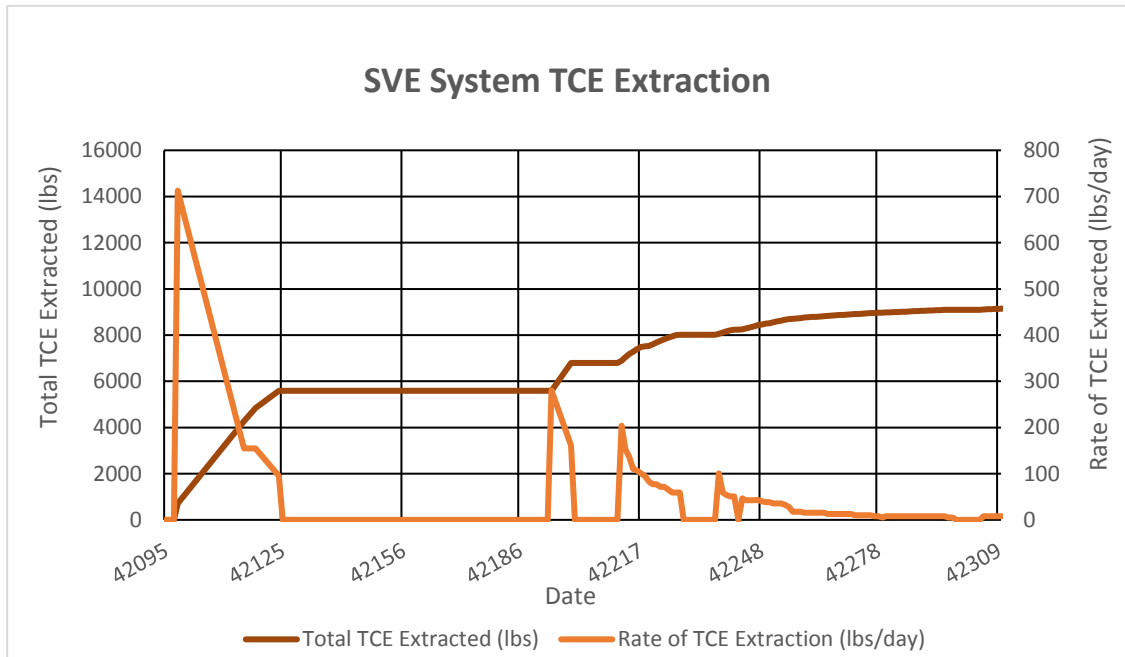


2. According to the caustic supplier, there are 2.58 pounds of NaOH per gallon of 25% caustic solution.

$$\frac{2.58 \text{ lbs NaOH}}{1 \text{ gal caustic}} \times \frac{1 \text{ lb mol NaOH}}{39.997 \text{ lbs NaOH}} \times \frac{1 \text{ lb mol HCl}}{1 \text{ lb mol NaOH}} \times \frac{1 \text{ lb mol TCE}}{3 \text{ lb mol HCl}} \times \frac{131.4 \text{ lbs TCE}}{1 \text{ lb mol TCE}} = \frac{2.83 \text{ lbs TCE}}{1 \text{ gal caustic}}$$

3. Therefore, for each pound of caustic used, 2.83 pounds of TCE were extracted.

4. The following chart shows the rate of TCE extraction and the total TCE extracted through 10/31/15.



APPENDIX A
Professional Geologist Summary of Hours

4:04 PM
11/17/15

Environmental Planning Specialists, Inc.
Justin Vickery
Project Hours
May through October 2015

	<u>May 15</u>	<u>Jun 15</u>	<u>Jul 15</u>	<u>Aug 15</u>	<u>Sep 15</u>	<u>Oct 15</u>	<u>TOTAL</u>
Total Hours per Month	<u>55.00</u>	<u>39.75</u>	<u>28.00</u>	<u>45.50</u>	<u>48.50</u>	<u>24.00</u>	<u>240.75</u>

APPENDIX B
Milestone Schedule

PROJECTED MILESTONE SCHEDULE
Rheem Manufacturing Company
Milledgeville, GA

ID	Task Name	2013	2014				2015				2016				2017				2018		
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
1	VRP Enrollment																				
2	Cost Estimate																				
3	Financial Assurance																				
4	Updated Financial Assurance																				
5	Soil Delineation (completed prior to VRP enrollment)*																				
6	On-site Horizontal Groundwater Delineation (completed prior to VRP enrollment)*																				
7	Off-site Horizontal Groundwater Delineation																				
8	Apply to Include Off-Site Properties In VRP																				
9	Vertical Groundwater Delineation (if necessary)																				
10	Semi-Annual Progress Reports																				
11	Updated CSM, Final Remediation Plan, and Preliminary Cost Estimate																				
12	Remedial Activities																				
13	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
Monitoring Well Sampling Forms



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company

Date: 10/12/2015

Well ID: MW-33

Field Conditions: SUN, 85F

Sampling Performed By: M. Weber-Goeke/ B. Goldman

Well Construction: FLUSH

General Condition of Well: G000

Well Labeled: NO Well Cap: Well Locked:

Condition of surrounding area: G000

Well depth from TOC: 157

Depth to Water from TOC: 31.05

Well Diameter (in): 2"

Method of measure: Water Level Meter

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

18.89 125.95

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

18.89 Three Well Volumes (gal): 56.68

Purging Method: low flow

Time @ Start of Purge: 14:45

Sample Method: low flow

Sample Parameters: VOC

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1643									pumped dry, 28 gallon pulled out.
10/13/15									
1749								31.24	

Sample ID: ~~15285-MW-33~~ MW33
15286-MW-33

Time Collected: 1750

Technician Signature: M. Weber-Goeke



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company

Date: 10/13/15

Well ID: MW-34

Field Conditions: CLOUD, 75 F

Sampling Performed By: M. Weber-Goeke/ B. Goldman

Well Construction: FLUSH MOUNT

General Condition of Well:

Well Labeled: NO Well Cap: Well Locked:

Condition of surrounding area:

Well depth from TOC: 182

Depth to Water from TOC: 2.09

Well Diameter (in): 2"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 179.91

Volume of water in well (Ht. x(.16 for 2")(.653 for 4")(.1469 for 6")): 28.79 Three Well Volumes (gal): 86.36

Purging Method: low flow

Time @ Start of Purge: 0923

Sample Method: low flow

Sample Parameters: VOC

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
									pump set at lowest setting.
1050	30	18.35	6.29	211	0.139	0	2.02	3.41	
1100	34	18.36	6.38	190	0.137	0	1.73	3.38	
1109	36	18.38	6.56	153	0.434	0	1.31	3.41	
1120	39	18.39	6.64	137	0.133	0	1.16	3.40	
1130	43	18.35	6.59	134	0.133	0	1.00	3.41	
11:37	45	18.37	6.50	140	0.133	0	0.99	3.41	
11:45	48	18.41	6.47	141	0.133	0	0.97	3.40	

Sample ID: 15286-MW-34

Time Collected: 1150

Technician Signature: M. Weber-Goeke



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company

Date: 10/14/15

Well ID: MW-43

Field Conditions: SUN, 75F

Sampling Performed By: M. Weber-Goebel/B. Goldman

Well Construction: _____

General Condition of Well: GOOD

Well Labeled: NO Well Cap: Well Locked:

Condition of surrounding area: GOOD

Well depth from TOC: 112

Depth to Water from TOC: 28.22

Well Diameter (in): 2"

Method of measure: Water Level Meter

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 13.40

83.78

Volume of water in well (Ht. x(.16 for 2")(.653 for 4")(.1469 for 6")): _____

Three Well Volumes (gal): 40.21

Purging Method: low flow

Time @ Start of Purge: 40.21 min 0825

Sample Method: low flow

Sample Parameters: VOC

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1010	14	18.26	6.19	-28	0.176	49.4	0.19	30.52	pump set at lowest
1020	14.5	18.55	6.18	-30	0.175	42.2	0.01	30.54	rate.
1030	15	18.72	6.18	-31	0.174	37.6	0	30.53	bubbles
1040	15.5	18.67	6.14	-29	0.174	35.4	0	30.46	bubbles
1050	16	18.68	6.14	-29	0.173	33.2	0	30.38	bubbles

Sample ID: 15287-MW-43
15287-OUPI

Time Collected: 10:55

Technician Signature: M. Weber-Goebel



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company		Date: 10/13/15
Well ID: MW-44	Field Conditions: SUN, 80F	
Sampling Performed By: M. Weber-Goebel/B. Goldman	General Condition of Well: GOOD	
Well Construction: FLUSH MOUNT	Condition of surrounding area: GOOD	
Well Labeled: NO	Well Cap: 2" mark 90 ✓	Well Locked: ✓
Well depth from TOC:	Depth to Water from TOC: 8.11	
Well Diameter (in): 2"	Method of measure: Water Level Meter	
Height (Ht) of water in well (Well depth from TOC - Static level from TOC):	8.89	
Volume of water in well (Ht. x (.16 for 2") (.653 for 4") (1.469 for 6")):	13.10	Three Well Volumes (gal): 29.31
Purging Method: low flow	Time @ Start of Purge: 1320	
Sample Method: low flow	Sample Parameters: VOC	

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1510	22	19.09	7.01	197	0.209	0	0.58	11.32	pump set at lowest setting (speed) 1 gal/5 min
1520	24	19.01	7.00	206	0.211	0	0.60	11.58	
1530	26	18.93	6.99	215	0.212	0	0.60	11.58	
1540	28	18.94	6.98	219	0.213	0	0.57	11.57	
1550	30	18.93	6.98	223	0.213	0	0.55	11.57	

Sample ID: 15286-MW-44

Time Collected: 1550

Technician Signature: M. Weber-Goebel



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company

Date: 10/14/15

Well ID: MW-45

Sampling Performed By: M. Weber-Goeke/ B. Goldman

Well Construction: flush mount

Well Labeled: NO Well Cap: ✓ Well Locked: ✓

Well depth from TOC: 95

Well Diameter (in): 2"

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 11.13

Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")): 11.13

Purging Method: low flow

Sample Method: low flow

Field Conditions: SUN, BOF

General Condition of Well: GOOD

Condition of surrounding area: GOOD

Depth to Water from TOC: 25.42

Method of measure: Water Level Meter

Three Well Volumes (gal): 33.40

Time @ Start of Purge: 1120

Sample Parameters: VOC

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
13:30	13	18.82	8.54	-117	0.128	19.5	0.58	32.74	pump set at lowest rate, 1gal/10min
13:40	13.5	19.22 ⁸⁰	8.57	-127	0.128	22.3	0.32	32.76	
13:50	14.0	19.77	8.63	-137	0.129	23.8	0.15	32.77	
14:00	14.5	20.22	8.68	-146	0.130	23.1	0.07	32.71	
14:05		Change of Turbidity, due to temperature going up and down.							
14:10	15.00	19.76	7.51	-24	0.270	9.05	0.44	32.62	
14:25	15.56	21.14	8.72	-245	0.238	8.52	0	32.41	
14:32	16	21.23	8.83	-245	0.235	8.08	0	32.44	
14:39	16.5	21.27	8.85	-284	0.235	8.24	0	32.46	

Sample ID: 15287-MW-45

Time Collected: 1440

Technician Signature: M. Weber-Goeke



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company Date: 10/13/15
Well ID: MW-46 **Field Conditions:** SUN, 80F
Sampling Performed By: M. Weber-Goeke/ B. Goldman
Well Construction: FLUSH MOUNT **General Condition of Well:** GOOD
Well Labeled: NO **Condition of surrounding area:** GOOD
Well Cap: 52.82 ✓ **Well Locked:** ✓ **Depth to Water from TOC:** 3.19
Well depth from TOC: 52.82 **Method of measure:** Water Level Meter
Well Diameter (in): 2" **Height (Ht) of water in well (Well depth from TOC - Static level from TOC):** 49.63
Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")): 7.94 **Three Well Volumes (gal):** 23.82
Purging Method: low flow **Time @ Start of Purge:** 15:00
Sample Method: low flow **Sample Parameters:** VOC

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
1600	11	18.55	6.74	77	0.143	0	1.62	5.28	pump set at lowest speed, 1gal/5min
1610	13	18.50	6.74	84	0.143	0	1.46	5.26	
1620	15	18.35	6.69	82	0.144	0	1.24	5.16	
1630	17	18.41	6.60	88	0.144	0	1.06	5.16	
1655	22	18.33	6.37	109	0.143	0	0.84	5.03	
1703	23	18.30	6.35	112	0.143	0	0.79	5.03	
1710	25	18.31	6.34	116	0.143	0	0.76	5.02	

Sample ID: 15286-MW-46 Time Collected: 1710 Technician Signature M. Weber-Goeke



Monitoring Well Sampling Form

EPS Project: Rheem Manufacturing Company

Date: 10/13/15

Well ID: MW-47
Sampling Performed By: M. Weber-Goeke/ B. Goldman
Well Construction: STICK UP
Well Labeled: NO Well Cap: ✓ Well Locked: ✓
Well depth from TOC: 96.94
Well Diameter (in): 2"
Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 14.57
Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")):
Purging Method: low flow
Sample Method: low flow

Field Conditions: ☁-CLOUD, 75F
General Condition of Well: GOOD
Condition of surrounding area: GOOD
Depth to Water from TOC: 5.87
Method of measure: Water Level Meter
91.07
Three Well Volumes (gal): 43.71
Time @ Start of Purge: 1000
Sample Parameters:

Time	Volume (gal)	Temp (°C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Depth to Water (ft)	Comments
									pump set a lowest setting, 1gal/5min
11:45	14	18.01	7.64	57	0.283	20.0	0	7.45	
12:05	18	18.02	7.61	-13	0.283	0	0	7.59	
12:15	20	18.01	7.60	-13	0.283	0	0	7.61	
12:30	23	18.06	7.59	-15	0.283	0	0	7.59	

Sample ID: 15286-MW-47

Time Collected: 12:35

Technician Signature M. Weber-Goeke

APPENDIX D
Laboratory Analytical Report



October 23, 2015

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

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

RE: Rheem

Dear Justin Vickery:

Order No: 1510E38

Analytical Environmental Services, Inc. received 11 samples on 10/15/2015 2:47:00 PM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), 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.

Chantelle Kanhai
Project Manager

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15285-MW-36
Project Name: Rheem	Collection Date: 10/12/2015 6:50:00 PM
Lab ID: 1510E38-001	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	214736	1	10/21/2015 00:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 00:48	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 00:48	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 00:48	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 00:48	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 00:48	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 00:48	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 00:48	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 00:48	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15285-MW-36
Project Name: Rheem	Collection Date: 10/12/2015 6:50:00 PM
Lab ID: 1510E38-001	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	214736	1	10/21/2015 00:48	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Trichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:48	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 00:48	NP
Surr: 4-Bromofluorobenzene	97.6	70.6-123		%REC	214736	1	10/21/2015 00:48	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	214736	1	10/21/2015 00:48	NP
Surr: Toluene-d8	96.5	81.3-120		%REC	214736	1	10/21/2015 00:48	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15285-TRIP BLANK
Project Name: Rheem	Collection Date: 10/15/2015
Lab ID: 1510E38-002	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	214736	1	10/20/2015 23:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
2-Butanone	BRL	50		ug/L	214736	1	10/20/2015 23:58	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/20/2015 23:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/20/2015 23:58	NP
Acetone	BRL	50		ug/L	214736	1	10/20/2015 23:58	NP
Benzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Chloroethane	BRL	10		ug/L	214736	1	10/20/2015 23:58	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Chloromethane	BRL	10		ug/L	214736	1	10/20/2015 23:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/20/2015 23:58	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Freon-113	BRL	10		ug/L	214736	1	10/20/2015 23:58	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15285-TRIP BLANK
Project Name: Rheem	Collection Date: 10/15/2015
Lab ID: 1510E38-002	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	214736	1	10/20/2015 23:58	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Toluene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Trichloroethene	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/20/2015 23:58	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/20/2015 23:58	NP
Surr: 4-Bromofluorobenzene	97.6	70.6-123		%REC	214736	1	10/20/2015 23:58	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	214736	1	10/20/2015 23:58	NP
Surr: Toluene-d8	97.3	81.3-120		%REC	214736	1	10/20/2015 23:58	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-34
Project Name: Rheem	Collection Date: 10/13/2015 11:50:00 AM
Lab ID: 1510E38-003	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	214736	1	10/21/2015 01:11	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 01:11	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 01:11	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 01:11	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 01:11	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 01:11	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 01:11	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 01:11	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 01:11	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-34
Project Name: Rheem	Collection Date: 10/13/2015 11:50:00 AM
Lab ID: 1510E38-003	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	214736	1	10/21/2015 01:11	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Trichloroethene	57	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:11	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 01:11	NP
Surr: 4-Bromofluorobenzene	96.9	70.6-123		%REC	214736	1	10/21/2015 01:11	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	214736	1	10/21/2015 01:11	NP
Surr: Toluene-d8	97.3	81.3-120		%REC	214736	1	10/21/2015 01:11	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-47
Project Name: Rheem	Collection Date: 10/13/2015 12:35:00 PM
Lab ID: 1510E38-004	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	214736	1	10/21/2015 01:35	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 01:35	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 01:35	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 01:35	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 01:35	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 01:35	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 01:35	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 01:35	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 01:35	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-47
Project Name: Rheem	Collection Date: 10/13/2015 12:35:00 PM
Lab ID: 1510E38-004	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	214736	1	10/21/2015 01:35	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Trichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:35	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 01:35	NP
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	214736	1	10/21/2015 01:35	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	214736	1	10/21/2015 01:35	NP
Surr: Toluene-d8	99.2	81.3-120		%REC	214736	1	10/21/2015 01:35	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-44
Project Name: Rheem	Collection Date: 10/13/2015 3:50:00 PM
Lab ID: 1510E38-005	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	214736	1	10/21/2015 01:59	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 01:59	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 01:59	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 01:59	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 01:59	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 01:59	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 01:59	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 01:59	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 01:59	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-44
Project Name: Rheem	Collection Date: 10/13/2015 3:50:00 PM
Lab ID: 1510E38-005	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	214736	1	10/21/2015 01:59	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Trichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 01:59	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 01:59	NP
Surr: 4-Bromofluorobenzene	96.4	70.6-123		%REC	214736	1	10/21/2015 01:59	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	214736	1	10/21/2015 01:59	NP
Surr: Toluene-d8	100	81.3-120		%REC	214736	1	10/21/2015 01:59	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-46
Project Name: Rheem	Collection Date: 10/13/2015 5:10:00 PM
Lab ID: 1510E38-006	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	214736	1	10/21/2015 02:22	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 02:22	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 02:22	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 02:22	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 02:22	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 02:22	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 02:22	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 02:22	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 02:22	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-46
Project Name: Rheem	Collection Date: 10/13/2015 5:10:00 PM
Lab ID: 1510E38-006	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	214736	1	10/21/2015 02:22	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Trichloroethene	21	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:22	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 02:22	NP
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	214736	1	10/21/2015 02:22	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	214736	1	10/21/2015 02:22	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	214736	1	10/21/2015 02:22	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-33
Project Name: Rheem	Collection Date: 10/13/2015 5:50:00 PM
Lab ID: 1510E38-007	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	214736	1	10/21/2015 03:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 03:33	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 03:33	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 03:33	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 03:33	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 03:33	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 03:33	NP
cis-1,2-Dichloroethene	18	5.0		ug/L	214736	1	10/21/2015 03:33	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 03:33	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 03:33	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15286-MW-33
Project Name: Rheem	Collection Date: 10/13/2015 5:50:00 PM
Lab ID: 1510E38-007	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	214736	1	10/21/2015 03:33	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Trichloroethene	150	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:33	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 03:33	NP
Surr: 4-Bromofluorobenzene	97.2	70.6-123		%REC	214736	1	10/21/2015 03:33	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	214736	1	10/21/2015 03:33	NP
Surr: Toluene-d8	95.9	81.3-120		%REC	214736	1	10/21/2015 03:33	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-RINSATE
Project Name: Rheem	Collection Date: 10/14/2015 8:10:00 AM
Lab ID: 1510E38-008	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 00:24	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 00:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 00:24	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 00:24	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 00:24	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 00:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 00:24	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 00:24	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-RINSATE
Project Name: Rheem	Collection Date: 10/14/2015 8:10:00 AM
Lab ID: 1510E38-008	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Trichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 00:24	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 00:24	NP
Surr: 4-Bromofluorobenzene	95.4	70.6-123		%REC	214736	1	10/21/2015 00:24	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	214736	1	10/21/2015 00:24	NP
Surr: Toluene-d8	98.5	81.3-120		%REC	214736	1	10/21/2015 00:24	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-MW-43
Project Name: Rheem	Collection Date: 10/14/2015 10:55:00 AM
Lab ID: 1510E38-009	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	214736	1	10/21/2015 03:57	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 03:57	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 03:57	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 03:57	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 03:57	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 03:57	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 03:57	NP
cis-1,2-Dichloroethene	6.6	5.0		ug/L	214736	1	10/21/2015 03:57	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 03:57	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 03:57	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-MW-43
Project Name: Rheem	Collection Date: 10/14/2015 10:55:00 AM
Lab ID: 1510E38-009	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	214736	1	10/21/2015 03:57	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Trichloroethene	140	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:57	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 03:57	NP
Surr: 4-Bromofluorobenzene	98.9	70.6-123		%REC	214736	1	10/21/2015 03:57	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	214736	1	10/21/2015 03:57	NP
Surr: Toluene-d8	97	81.3-120		%REC	214736	1	10/21/2015 03:57	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-DUP 1
Project Name: Rheem	Collection Date: 10/14/2015 12:00:00 PM
Lab ID: 1510E38-010	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	214736	1	10/21/2015 03:09	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 03:09	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 03:09	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 03:09	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 03:09	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 03:09	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 03:09	NP
cis-1,2-Dichloroethene	7.3	5.0		ug/L	214736	1	10/21/2015 03:09	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 03:09	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 03:09	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-DUP 1
Project Name: Rheem	Collection Date: 10/14/2015 12:00:00 PM
Lab ID: 1510E38-010	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	214736	1	10/21/2015 03:09	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Trichloroethene	150	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 03:09	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 03:09	NP
Surr: 4-Bromofluorobenzene	95.2	70.6-123		%REC	214736	1	10/21/2015 03:09	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	214736	1	10/21/2015 03:09	NP
Surr: Toluene-d8	98.1	81.3-120		%REC	214736	1	10/21/2015 03:09	NP

Qualifiers:

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

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

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-MW-45
Project Name: Rheem	Collection Date: 10/14/2015 2:40:00 PM
Lab ID: 1510E38-011	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	214736	1	10/21/2015 02:46	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,1-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,1-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,2-Dibromoethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,2-Dichloroethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,2-Dichloropropane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
2-Butanone	BRL	50		ug/L	214736	1	10/21/2015 02:46	NP
2-Hexanone	BRL	10		ug/L	214736	1	10/21/2015 02:46	NP
4-Methyl-2-pentanone	BRL	10		ug/L	214736	1	10/21/2015 02:46	NP
Acetone	BRL	50		ug/L	214736	1	10/21/2015 02:46	NP
Benzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Bromodichloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Bromoform	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Bromomethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Carbon disulfide	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Carbon tetrachloride	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Chlorobenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Chloroethane	BRL	10		ug/L	214736	1	10/21/2015 02:46	NP
Chloroform	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Chloromethane	BRL	10		ug/L	214736	1	10/21/2015 02:46	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Cyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Dibromochloromethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Dichlorodifluoromethane	BRL	10		ug/L	214736	1	10/21/2015 02:46	NP
Ethylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Freon-113	BRL	10		ug/L	214736	1	10/21/2015 02:46	NP
Isopropylbenzene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
m,p-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Methyl acetate	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Methylcyclohexane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Methylene chloride	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
o-Xylene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 23-Oct-15

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 15287-MW-45
Project Name: Rheem	Collection Date: 10/14/2015 2:40:00 PM
Lab ID: 1510E38-011	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	214736	1	10/21/2015 02:46	NP
Tetrachloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Toluene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Trichloroethene	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Trichlorofluoromethane	BRL	5.0		ug/L	214736	1	10/21/2015 02:46	NP
Vinyl chloride	BRL	2.0		ug/L	214736	1	10/21/2015 02:46	NP
Surr: 4-Bromofluorobenzene	97.6	70.6-123		%REC	214736	1	10/21/2015 02:46	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	214736	1	10/21/2015 02:46	NP
Surr: Toluene-d8	98	81.3-120		%REC	214736	1	10/21/2015 02:46	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EPS, Inc

Work Order Number 1510E38

Checklist completed by [Signature] Date 10-15-15

Carrier name: FedEx UPS Courier Client US Mail Other

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

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

Custody seals intact on sample bottles? Yes No Not Present

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

Cooler #1 41°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1510E38

ANALYTICAL QC SUMMARY REPORT

BatchID: 214736

Sample ID: MB-214736	Client ID:	Units: ug/L	Prep Date: 10/20/2015	Run No: 302448							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 214736	Analysis Date: 10/20/2015	Seq No: 6472598							
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: 1510E38

ANALYTICAL QC SUMMARY REPORT

BatchID: 214736

Sample ID: MB-214736	Client ID:	Units: ug/L	Prep Date: 10/20/2015	Run No: 302448
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 214736	Analysis Date: 10/20/2015	Seq No: 6472598

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.85	0	50.00		83.7	70.6	123				
Surr: Dibromofluoromethane	52.42	0	50.00		105	78.7	124				
Surr: Toluene-d8	47.49	0	50.00		95.0	81.3	120				

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: 1510E38

ANALYTICAL QC SUMMARY REPORT

BatchID: 214736

Sample ID: LCS-214736	Client ID:	Units: ug/L	Prep Date: 10/20/2015	Run No: 302575							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 214736	Analysis Date: 10/21/2015	Seq No: 6474247							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.46	5.0	50.00		123	64.2	137				
Benzene	59.24	5.0	50.00		118	72.8	128				
Chlorobenzene	57.32	5.0	50.00		115	72.3	126				
Toluene	61.45	5.0	50.00		123	74.9	127				
Trichloroethene	55.15	5.0	50.00		110	70.5	134				
Surr: 4-Bromofluorobenzene	40.50	0	50.00		81.0	70.6	123				
Surr: Dibromofluoromethane	56.69	0	50.00		113	78.7	124				
Surr: Toluene-d8	48.10	0	50.00		96.2	81.3	120				

Sample ID: 1510G70-005AMS	Client ID:	Units: ug/L	Prep Date: 10/20/2015	Run No: 302575							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 214736	Analysis Date: 10/20/2015	Seq No: 6473481							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.10	5.0	50.00		116	60.5	156				
Benzene	54.73	5.0	50.00		109	70	135				
Chlorobenzene	59.54	5.0	50.00		119	70.5	132				
Toluene	57.49	5.0	50.00		115	70.5	137				
Trichloroethene	53.76	5.0	50.00		108	71.8	139				
Surr: 4-Bromofluorobenzene	38.82	0	50.00		77.6	70.6	123				
Surr: Dibromofluoromethane	49.43	0	50.00		98.9	78.7	124				
Surr: Toluene-d8	46.57	0	50.00		93.1	81.3	120				

Sample ID: 1510G70-005AMSD	Client ID:	Units: ug/L	Prep Date: 10/20/2015	Run No: 302575							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 214736	Analysis Date: 10/21/2015	Seq No: 6473482							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.97	5.0	50.00		116	60.5	156	58.10	0.224	20	
Benzene	54.35	5.0	50.00		109	70	135	54.73	0.697	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: 1510E38

ANALYTICAL QC SUMMARY REPORT

BatchID: 214736

Sample ID: 1510G70-005AMSD	Client ID:	Units: ug/L	Prep Date: 10/20/2015	Run No: 302575
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 214736	Analysis Date: 10/21/2015	Seq No: 6473482

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	58.05	5.0	50.00		116	70.5	132	59.54	2.53	20	
Toluene	56.01	5.0	50.00		112	70.5	137	57.49	2.61	20	
Trichloroethene	50.23	5.0	50.00		100	71.8	139	53.76	6.79	20	
Surr: 4-Bromofluorobenzene	38.73	0	50.00		77.5	70.6	123	38.82	0	0	
Surr: Dibromofluoromethane	50.41	0	50.00		101	78.7	124	49.43	0	0	
Surr: Toluene-d8	45.52	0	50.00		91.0	81.3	120	46.57	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		