

ATTACHMENT F

April 2015 ISTR Demonstration of Attainment of Interim NAPL Cleanup Levels

[provided on CD with hardcopies]



de maximis, inc.

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April 6, 2015

Ms. Karen Lumino
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**Subject: Solvents Recovery Service of New England Inc. Superfund Site
Southington, Connecticut
Revised In-Situ Thermal Remediation – Demonstration of Attainment
of Interim NAPL Cleanup Levels**

Dear Ms. Lumino:

Pursuant to Section VI, paragraph 12.b of the Consent Decree (CD) for the Remedial Design/Remedial Action at the Solvents Recovery Service of New England, Inc. Superfund Site entered on March 26, 2009 by the United States District Court for the District of Connecticut in connection with Civil Actions No. 3:08cv1509 (SRU) and No. 3:08cv1504 (WWE), and in accordance with Paragraph VIII.A of the Statement of Work (SOW) attached to the CD as Appendix B, enclosed please find the Revised In-Situ Thermal Remediation – Demonstration of Attainment of Interim NAPL Cleanup Levels and Recommendations. Also attached are responses to EPA's and CTDEEP's March 14, 2015 comments on the February 27, 2015 draft SRSNE Site ISTR Demonstration of Cleanup Levels report.

Please contact me if you have any questions.

Sincerely,

Bruce Thompson
Project Coordinator

Enclosure

cc: Eva Davis, EPA
Shannon Pociu, CTDEEP
SRSNE Executive and Technical Committee
Robin Swift, TerraTherm, Inc.

Albany, NY – Allentown, PA – Clinton, NJ – Greensboro, GA – Knoxville, TN – Riverside, CA
San Diego, CA – Sarasota, FL – Houston, TX – Windsor, CT – Waltham, MA

Responses to Agency Comments

Response to SRSNE Site ISTR Demonstration of Cleanup Levels (Feb 27, 2015)
EPA/CT DEEP Comments of March 14, 2015
(Responses in red)

General Comment

1. When discussing mass removal estimates, it is worth capturing the fact that what is being reported is an underestimate due to the thermox and LFL being taken off line briefly during meltdown over the summer, and then again towards the end of treatment when vapors were routed through carbon because of odor complaints.

Terminating the thermox and thus the use of the recovered fuel estimates in the estimate of mass removed effects the estimated total mass recovered on a daily basis and the total cumulative mass recovered estimate. One suggestion is to start with the mass estimate from the LFL at the time it was shut down, and assume this mass recovery decreased at the same rate as the TO-15 mass, to estimate how much fuel might still be recovered.

Addressed in section 3.3 of the revised document.

Specific Comments

2. Executive Summary, 5th bullet, and page 10, 3rd bullet. Replace “dropped substantially” with “leveled off” which is more consistent with the discussion on page 8.

Addressed in revised document.

3. Page 2, 5th paragraph, 2nd sentence. Delete what appears in the parenthesis which is out of place in a technical memo.

Addressed in revised document.

4. Table on page 3 shows that 64 vapor monitoring points were installed, and the first sentence of Section 3 states that subsurface vacuum levels were monitored. Please present a summary of this data, which was not included in the weekly progress reports.

Addressed in revised document and data provided as an attachment.

5. Page 5, 4th paragraph, 3rd sentence. Should this refer to Phase 1 rather than Phase 2 progress sampling locations?

Addressed in revised document

6. Page 6, last paragraph and Table 3 would be more appropriately placed in Section 3.3.

Addressed in revised document. Note: Table 3 and 4 titles have changed to follow proper sequence in the document.

7. Page 8, Section 3.3. Add to this section a discussion of what the peak mass removal rates were and when they occurred for each phase of heating. This will show a large contrast with the mass removal rates we have now at the end of treatment. There is a summary bullet on page 10 that states this.
8. Page 9. Consider adding to Section 3.4 a discussion about pre-treatment groundwater concentrations to demonstrate improvement following ISTR treatment.

Addressed in revised document.

9. Page 10. Recommendations should include increasing the vacuum on the subsurface to levels achieved during routine operation, after the heating is terminated to ensure that all remaining vapors are being recovered, and to reflect what actually happened post shutdown.

Addressed in revised document. Vacuum was increased on March 3, 2015, following approval to shutdown.

10. Page 10, Recommended Next Steps. Include a schedule for ISTR demobilization.

A draft demobilization plan has been added as an attachment

11. Figures B & C. Please add notes on each figure identifying the time period during which the shaded areas were heated.

Figures have been revised

12. Progress Soil Sampling Figures & Tables. Please provide figures that show the locations for all the confirmation soil samples. The figures are not clearly titled or labeled as to the phase and what they are showing, and they need keys. Sample dates can also be provided on all figures. Please include sampling summary information for all confirmation samples in Table 1.

Figures and tables have been revised

13. Toluene, because it is a COC, should be included on the groundwater trends graphs.

Toluene has been added to the trend graphs.

14. Soil temperature. Figures provided are out of order in the PDF document. Make sure to re-order them when finalizing the document.

Addressed

**In-Situ Thermal Remediation
Demonstration of Attainment of Interim NAPL Cleanup
Levels and Recommendations**

Executive Summary

In-Situ Thermal Remediation (ISTR) was conducted at the Solvents Recovery Services of New England, Inc. Superfund Site in Southington, Connecticut as required by the Remedial Design / Remedial Action Consent Decree (CD). The goal of ISTR was to reduce volatile organic contamination (VOC) in the overburden treatment zone to levels that are not indicative of the presence of pooled or residual non-aqueous phase liquids (NAPL). Interim NAPL Cleanup Levels (INCLs) representative of soil concentrations that are not indicative of the presence of NAPL were established in the CD. The treatment zone was 56,670 cubic yards of soils that was estimated in the Feasibility Study to contain 500,000 to 2,000,000 pounds of VOCs.

The design process resulted in a decision to reduce peak VOC loading on the vapor treatment system by splitting the treatment zone into two phases, starting heating of the second phase after the VOC extraction rate in the first phase had peaked (roughly 60 days after Phase 1 startup).

The ISTR system was installed between April 2013 and May 2014, and heating in Phase 1 was initiated on May 15, 2014. Heating in Phase 2 started on July 16, 2014. Heating was continued until process monitoring suggested that INCLs were achieved, at which point confirmation soil sampling was performed. Phase 1 confirmation sampling was completed on November 19, 2014. Phase 2 confirmation sampling was completed on February 17, 2015. A total of 496,400 pounds of VOCs were removed through February 20, 2015. ISTR achieved the following:

- Interim NAPL Cleanup Levels required by SOW Section IV.A.4 were met in all confirmatory soil samples. On average, soil samples results were two orders of magnitude below Interim NAPL Cleanup Levels.
- Calculations of mass removed show that ISTR exceeded the expectation of 95 to 99% removal
- Soil temperatures within the ISTR treatment area have met design goals, and exceed the temperature where the target VOCs can exist as NAPL.
- Groundwater data from the thermal treatment zone indicate that VOC contamination has been reduced to levels below those that are indicative of the presence of NAPL.
- The mass removal versus time date indicates that the rate of mass removal leveled off as of January 16, 2015, indicating the system operation had passed a point of diminishing returns
- Mass removal rates declined from a peak of ~10,000 pounds TVOC per day to 26 pounds TVOC per day.

1. Introduction

On September 30, 2005, the United States Environmental Protection Agency (EPA) issued a Record of Decision (ROD) (EPA 2005) for the Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site in Southington, Connecticut (Site). A

Consent Decree (CD) and Statement of Work (SOW) were subsequently prepared for the Remedial Design/Remedial Action (RD/RA) at the Site. The CD was developed between the EPA and the SRSNE Site Group (Group), and lodged on October 30, 2008 with the United States District Court for the District of Connecticut (Civil Action Nos. 3:08cv1509 (SRU) and No. 3:08cv1504 (WWE)). The CD was entered by the Court on March 26, 2009. The CD and the SOW define the response activities and deliverable obligations that the Group has to perform to implement RD/RA activities at the Site.

The ROD requires In-Situ Thermal Remediation (ISTR) to address an area where volatile organic compound (VOC) non-aqueous phase liquids (NAPLs) are present in the overburden soils (referred to as the Overburden NAPL Area). The Feasibility Study (FS) estimated that the Overburden NAPL Zone contains 500,000 to 2,000,000 pounds of VOCs. ISTR was implemented at the Site pursuant to the approved 100% Design / Remedial Action Work Plan and Project Operations Plan (ISTR RAWP/POP; TerraTherm 2014).

The ISTR design resulted in a decision to reduce the peak VOC loading to the vapor treatment system. This resulted in dividing the ISTR system roughly in half, and treating the Site in two phases (Phase 1 and 2), as shown in Figure A (Heating Zone Sequence). The intent of this approach was to spread the peak VOC loading out, by starting to heat Phase 2 approximately 60 days after commencing Phase 1 heating, or after confirming a decrease in Phase 1 VOC mass loading.

ISTR well field installation commenced on April 23, 2013. As a result of sheen, staining, and NAPL observed at drilling locations outside the designed thermal treatment zone the Group performed additional investigation, which delineated the extent of that NAPL. That investigation resulted in a decision to add eight additional heater wells southwest of the TTZ and to add six heater wells to the east.

During well field installation, it was noted that the depth to competent bedrock averaged approximately 3 feet deeper than predicted. The depth to rock was based on historic knowledge, which included the prior NAPL delineation study and a limited number of monitoring wells in the Operations Area. The method used to determine "top of rock" was also different. During the FS NAPL delineation study, geoprobes were utilized, which met refusal at the interpreted top of weathered rock. The ISTR heaters were installed with rotasonic drilling, which does not easily differentiate weathered rock from the overlying till, so the drilling proceeded into the "competent rock" and the depths to top of weathered and competent rock are visually interpreted from the recovered core material.

ISTR well field work was completed on September 24, 2013, and consisted of the following system components:

Subsurface Item	Number Installed
Heater Wells	607
Vapor Extraction Wells (Vertical)	551
Vapor Extraction Wells (Horizontal)	290 lineal feet
Temperature Monitoring Points	99
Vacuum Monitoring Points	64
Groundwater Monitoring Wells	7

Installation of the ISTR cap commenced on September 30, 2013 and was completed on October 30, 2013. Construction of the above ground portion of the ISTR system occurred after completion of the cap. Shake down of the completed ISTR system was completed in May 2014, and Phase 1 heating commenced on May 15, 2014. Phase 2 heating commenced on July 16, 2014. Heating of both phases was suspended on August 13, 2014 as a result of failure of part of the oxidizer used to treat VOC vapors. While heating was suspended, the heaters were reduced to “idle” (approximately 10% of capacity, necessary to protect them from rapid cooling). The oxidizer was repaired, and additional process monitoring implemented to help prevent a re-occurrence. Heating of Phase 1 at full power resumed on September 12, 2014, Phase 2 heating resumed on September 30, 2014. Confirmation soil sampling and completion of treatment in Phases 1 and 2 is discussed in Section 3 of this report.

2. Remediation Objectives / Performance Standards

The ROD identified the following Remediation Objective for the Overburden NAPL Area:

“Reduce NAPL mass to achieve one or more of the following:

- shorten the time frame that groundwater standards are exceeded,
- shrink the size of the groundwater plume,
- reduce groundwater concentrations, and
- prevent the migration of NAPL.”

The ROD further states that “VOC contamination in the treatment zone will be reduced to levels that are not indicative of the presence of pooled or residual NAPL.” EPA determined that the attainment of such levels would be comparable to a VOC mass reduction within the treatment zone of 95 to 99%. The ROD also set a requirement to determine the contaminant concentrations in soil that are not indicative of the presence of pooled or residual NAPL. That determination was made in the SOW for the RD/RA at the Site. Section IV.A.4 of the SOW lists the following Interim NAPL Cleanup Levels (INCLs), as measured in soil:

Compound	Interim NAPL Cleanup Level mg/kg (parts per million)
Trichloroethylene (TCE)	222
Tetrachloroethylene (PCE)	46
1,1,1-Trichloroethane	221
Ethylbenzene	59
Toluene	48
p/m-Xylene	70
o-Xylene	42

Section IV.A.4 of the SOW also states:

At the time all the Interim NAPL Cleanup Levels are attained in the Overburden NAPL Area, EPA will evaluate whether to continue to operate the in-situ thermal treatment system in areas within the Overburden NAPL Area where EPA determines that appreciable amounts of NAPL contamination continue to be recovered. For this purpose, EPA will only require continued operation of the portions of the in-situ thermal treatment where “appreciable recovery of NAPL contamination” continues to occur.

Regardless of the level of recovery, the maximum amount of time that EPA shall require continued operation of the in-situ thermal treatment system in portions of the Overburden NAPL Area where appreciable recovery of NAPL contamination continues to occur, after all the Interim NAPL Cleanup Standards are achieved, shall not exceed the initial heating time required to achieve Interim NAPL Cleanup Levels (e.g., if it takes 180 days of heating to achieve all the Interim NAPL Cleanup Levels, the maximum amount of time that EPA will require that any or all wells be operated will be an additional 180 days). The start date for measuring the duration of such period of additional operation, if any, will be the first day of operation after the collection of the last sample within the data set used to successfully demonstrate that all Interim NAPL Cleanup Levels have been attained at every location.

3. ISTR Monitoring and Monitoring Results

Various operational parameters including soil VOC concentrations, soil temperature, sub-surface vacuum levels, VOC mass extracted and extraction rate, and groundwater VOC concentrations were monitored during the course of ISTR operations to assess treatment progress. Once those parameters indicated that sufficient treatment within Phase 1 and Phase 2 had occurred, soil sampling programs were implemented to evaluate whether the INCLs had been met for each phase of treatment. The approach for confirmation soil sampling was initially presented in Section 6.2 of the Thermal Treatment Performance Criteria document (Attachment C to the Remedial Design Work

Plan [RDWP]) (ARCADIS 2010). Pending further development of the ISTR design documentation and corresponding discussions with the EPA, the preliminary approach for confirmation soil sampling was presented in Section 13.10.2 of the ISTR RAWP/POP. The final approach approved by EPA was presented in the ISTR Confirmatory Soil Sampling Plan – Revised (ARCADIS, November 2014).

The remainder of this section presents the results of confirmatory soil sampling, soil temperature monitoring, VOC mass extracted to date, VOC mass extraction rates, and groundwater VOC trends. Results for Phase 1, Phase 2 and VEW data are presented separately.

3.1 Progress and Confirmatory Soil Sampling

Although not part of the formal demonstration of compliance, Phase 1 soil samples were collected by TerraTherm from October 14 to 21, 2014. Analyses of those samples supported the decision to perform confirmatory sampling. That was TerraTherm's second Phase 1 "progress soil sampling" event. The attached figure and table shows the Phase 1 progress sampling locations and analytical data for that sampling event. That second progress soil sampling effort represented a biased sampling scheme where locations were selected based on lagging temperature progressions and/or known site features (former lagoon, former drum staging area, etc.). Only one sample, T70 – 9', located along the Phase 1/Phase 2 boundary line had concentrations of VOCs detected above the INCLs. Samples were also collected at this location at 4', 7.5', 18' and 19.5' below grade, each met the INCLs. The centroid nearest this location was resampled during the confirmation sampling effort and also met the INCLs.

Phase 1 confirmation soil samples were collected from November 11 to 19, 2014 in the Phase 1 treatment area in accordance with the ISTR Confirmatory Soil Sampling Plan – Revised. Sixty samples were collected from 28 locations within the Phase 1 treatment area and analyzed for VOCs. The attached figure and table shows the Phase 1 progress sampling locations and analytical data for this sampling event. All sample results were less than INCLs. Even though the soil sampling results were less than INCLs, vapor data indicated VOC mass was still being recovered from an area of Phase 1 adjacent to Phase 2. Those results and other relevant data were summarized in a report submitted to EPA on December 1, 2014 titled "In-Situ Thermal Remediation - Phase 1 Confirmation Sampling Results and Recommended Operating Modifications." On December 3, 2014, EPA approved a partial shutdown of Phase 1 heaters as proposed in the report (heaters in the area where Phase 1 VOC mass continued to be recovered remained energized), as shown in Figure B.

Phase 2 progress soil sampling was conducted by TerraTherm from December 1 to 8, 2014. Soil samples collected at two of the 22 locations had concentrations exceeding INCLs, all others met the INCLs. The attached figure and table shows the Phase 2 progress sampling locations and analytical data for that sampling event. Based on these results, heating continued and Phase 2 confirmation sampling was conducted from January 5 to January 14, 2015. Sixty-one soil samples were collected from 22

locations within the Phase 2 treatment area. During the initial sampling, one or more depth intervals at three locations (CSL-32, -33, and -34) did not meet INCLs, all other samples were less than INCLs. Samples from two of the locations (CSL-033 and -034) that did not meet INCLs were collected on January 6 and 7, respectively. Re-sampling near those locations was conducted on January 14. One location (CSL-033) met INCLs after re-sampling, and the other (CSL-034) showed an order of magnitude reduction in concentration but still exceeded INCLs.

On January 17, 2015, additional insulation was placed on the concrete cap around the area where soil samples CSL-032, -033, and -034 were collected. In addition, the heaters were raised within the heater cans in this area where INCLs were not met, in order to increase heating the shallow subsurface (the depth interval where soil VOC concentrations were still above INCLs). On January 29, 2015, EPA approved a partial shutdown of Phase 2 heaters, as shown on Figure C. Re-sampling in the vicinity of CSL-32, -33, and 34 was conducted February 3 through February 4, 2015. That program targeted locations immediately north and south of those locations, with samples collected at three depths per location, resulting in the collection of 18 samples. All but one sample met INCLs. The shallowest sample at CSL-032S exceeded INCLs. Additional insulation was added to the area around CSL-032 and heating continued. That location was re-sampled on February 17, 2015. That sample and a duplicate both met INCLs.

The attached Figure 1A shows confirmatory sampling locations. Figure 1B depicts the final confirmation sampling results pictorially. A summary of sampling depths and other relevant information is provided in Table 1. As noted on Table 1, refusal occurred at several boring locations during the confirmatory soil sampling. When possible, efforts were made to shift the drill rig to reach the target sample depth intervals. However, in some instances boring refusal required sampling at an alternative depth interval, as indicated in Table 1. The potential inability to collect certain targeted samples was contemplated in the ISTR Confirmatory Sampling Plan - Revised, which stated: "In the event that the target sample depth interval cannot be achieved (e.g., because of insufficient recovery at the target interval or refusal of the drilling equipment at a shallower depth), efforts will be made to collect a sample from the same boring as close as possible to the targeted interval. To minimize the number of penetrations through the concrete cover, multiple borings per location will not be advanced solely for the purpose of sampling the specific interval targeted." Notwithstanding this statement, we attempted multiple borings at some locations in an effort to meet the objectives. Tables 2A and 2B, provide analytical data for Phase 1 and Phase 2 soil confirmatory sampling.

3.2 Soil Temperatures

Average wellfield temperatures for Phase 1 achieved 100°C on September 19, 2014 and remained at or above 100°C for approximately 10 weeks. Average wellfield temperatures for Phase 2 achieved 100°C on November 3, 2014, and remained at or above 100°C for approximately 14 weeks.

Shallow thermocouples in Phase 1 achieved and maintained a temperature of at least 90°C for a minimum of 30 days, with many remaining at 90°C for approximately 90 days (see Figure 2A). The exceptions were T03 and T70, both at the shallowest interval (0 -2 ft bgs). T03 is located along the western perimeter of the well field where soils were observed to be NAPL impacted during well field installation. T70 is located along the Phase 1/Phase 2 dividing line toward the eastern side of the thermal treatment zone. Confirmation soil samples representative of those areas were collected from CSL-002 (T03) from 3.7 ft bgs and 7.5 ft bgs and CSL-040 (T70) from 4 ft bgs, 12.5 ft bgs, and 15 ft bgs. Bottom of treatment zone thermocouples have achieved and maintained a temperature of at least 90°C for an average of three months (see Figure 3A).

Shallow thermocouples in Phase 2 achieved and maintained a temperature of at least 90°C for a minimum of 44 days, with many remaining at 90°C for more than 100 days (see Figure 2B). Bottom of treatment zone thermocouples have achieved and maintained a temperature of at least 90°C for a minimum of 91 days, and an average of 148 days (see Figure 3B).

Table 3 (attached) provides the minimum and maximum temperature for each thermocouple, calculates the number of days at or over 90°C and at or over 100°C, and provides the temperature history for each thermocouple over the duration of Phase 1 heating.

3.3 VOC Mass Removed and Mass Extraction Rates

The ROD anticipated that ISTR would remove 95% to 99% of the NAPL mass. We evaluated the performance of ISTR by distributing the total VOC mass removed over the total mass of target soils (by converting the soil volume to mass using a bulk density of 1.86 grams / cubic centimeter), as illustrated below in Table 4.

Table 4 – Percent Removal Calculation

Total VOCs removed (through 2/20/2015)					
pounds	Kg	mg			
496,400	225,636	2.26E+11			
Soil Volume / Mass					
yards ³	meter ³	cc	g/cc	g	kg
56,770	43,404	4.34E+10	1.86	8.07E+10	8.07E+07
Average VOCs pre-treatment (VOCs/Soil Mass)				2,795	mg/kg
Average VOCs post-treatment				7.445	mg/kg
pre/post average concentration				0.2664%	
Percent Removal				99.73%	

This calculation uses the average confirmatory soil sample results from both Phase 1 and 2, and the total mass removed through February 20, 2015. As VOCs continued to be removed after completion of confirmatory sampling, the final post-treatment soil concentrations are likely lower than the average used in this calculation.

Mass removal estimates are determined using three different streams and then summing those individual streams together. The three streams are as follows:

- Data recorded from the flammability analyzer (converted from percent to a mass using laboratory calculated BTU content – ASTM method);
- EPA TO-15 analytical laboratory data for chlorinated compounds that are assumed not to be detected by the flammability analyzer, and
- Accumulated LNAPL (assuming a density of toluene).

Total VOC concentrations are recorded using a hand-held photo ionization detector (PID) and flow measurements are collected using a hand-held manometer. PID concentrations for each of the 29 locations are shown on Table 5. Using the data, mass fractions are determined and used to calculate mass removed and mass removal rates separately for Phase 1 and Phase 2.

For the periods between August 14 and 29, 2014 and after January 9, 2015, when the thermal oxidizer was not in operation, the flammability analyzer (FA) readings were estimated in order to give a more accurate total mass removal rate. To estimate the flammability reading during these periods, an average PID:FA reading ratio was taken for the week prior to the thermal oxidizer shutdown. This ratio was then applied to the continued PID readings during the corresponding thermal oxidizer shutdown period to yield theoretical FA readings during the shutdown. The theoretical FA readings were then used to calculate a mass removal rate based on FA readings. In addition, laboratory data for chlorinated compounds was used to calculate a chlorinated mass removal, as chlorinated mass is not detected by the flammability analyzer. The total mass was then calculated as the sum of the two mass estimates, plus any accumulated NAPL. This enabled a more accurate and consistent mass removal estimate for these periods and over the duration of the project.

Through February 20, 2015, the mass removal values are:

- Total VOC mass removed 496,400 pounds (Figure 4)
- Phase 1 VOC mass removed 253,000 pounds (Figure 5)
- Phase 2 VOC mass removed 243,000 pounds (Figure 6)

Each of the mass removal figures shows a flattening (e.g., reaching asymptotic limit) in the removal versus time curve, indicating removal has reached the point of diminishing returns.

On February 20, 2015, the mass removal rates were:

- Total system 39 pounds per day (Figure 7)
- Phase 1 10 pounds per day (Figure 8)

- Phase 2 29 pounds per day (Figure 9)

Review of the TO-15 results shows that ~25% of the VOCs quantified with this analysis are ketones (acetone and 2-butanone), which are known to be formed through abiotic degradation of natural organic material in the heated soil. Removing these ketones results in corrected mass removal rates on February 20, 2015 as follows:

- Phase 1 8 pounds per day (Figure 10)
- Phase 2 22 pounds per day (Figure 11)

Influent data are collected from a sample port located downstream of the well field at the influent to the thermal oxidizer or primary carbon vessel. Those data represent the total well field. Individual vapor samples are collected using Tedlar bags from 29 locations along the manifold as shown in Figure 12. As illustrated in Table 5 and Figure 13, the current mass fraction (percent of the total being removed) for Phase 1 is 28%; the remainder of the mass (72%) is being removed from Phase 2. Vacuum levels were measured at VEWs in the ISTR well field after startup to confirm the system was working, then routinely monitored in the vacuum manifold legs throughout system operation. This data is presented in Table 6.

The peak mass removal rate for Phase 1 was approximately 4,000 pounds/day which occurred on August 12, 2014, just prior to the oxidizer shutdown. Between August 13 and September 4, 2014, mass removal rates dropped significantly corresponding to a reduced heater energy and well field vacuum. Once the oxidizer was back online and heating and vacuum rates increased to their design/operational setpoints, mass removal rates increased to approximately 3,000 pounds/day.

The peak mass removal rate for Phase 2 was approximately 4,600 pounds/day which occurred on October 2, 2014. This peak concentration corresponds to Phase 2 coming online and ramping up to full operational set points (temperatures). This removal rate continued for approximately one month before starting to decrease.

3.4 Groundwater Sampling

Groundwater samples were collected from seven monitoring wells (ISTR 1 – 7) located within the thermal treatment area. Samples were collected before heating commenced, and monthly during ISTR. The attached figures and tables summarize those data. As illustrated in Table 7, groundwater concentrations are below the effective solubility levels for target compounds, indicating compliance with the ROD objective that “VOC contamination in the treatment zone will be reduced to levels that are not indicative of the presence of pooled or residual NAPL.”

The highest pre-treatment total VOC (TVOC) concentration was ~598 mg/L, observed at monitoring well ISTR-1. During ISTR, the TVOC concentration in ISTR-1 increased to a maximum of ~645 mg/L (June 2014 sampling event). These concentrations equate to 54% and 67%, respectively, of the effective solubility. Post-ISTR, the TVOC

concentration in monitoring well ISTR-1 had decreased to 34.4 mg/L, a 94.7% reduction from the peak concentration.

The highest post-treatment TVOC concentration was 56.4 mg/L, observed at monitoring well ISTR-7. That concentration equates to 14% of the effective solubility. As shown in Table 8, those concentrations are less than equilibrium pore-water concentrations that would be associated with residual soil concentrations found during confirmation sampling at CSL-050, the nearest location to ISTR-7. The average post-ISTR concentration is 15.6 mg/L, which equates to 3% of the effective solubility.

Average TVOC concentrations (average of all 7 ISTR monitoring wells) are shown on Figure 14. In general, total VOC concentrations in groundwater decreased an average of 87% from peak concentrations across the treatment area, ranging from a decrease of 57% (ISTR-2) to a decrease of 99% (ISTR-6). VOC concentrations were reduced by 95% or more in five of the seven wells, with a median value of 95%.

3.5 Perimeter Air Monitoring

Perimeter air monitoring was performed in accordance with the approved plan throughout ISTR construction and operation. No exceedances of action levels occurred through the course of construction and operation. Complaints of objectionable odors were made by the Southington Police Department (SPD) starting in December 2014. The SPD headquarters is located approximately 700 feet north of the ISTR treatment area. The source of the odors was not determined. In reaction to the complaints, the thermal oxidizer was taken offline on January 10, 2015. Since that time, extracted vapors have been treated using vapor-phase granular activated carbon.

4 Monitoring Results Summary

Based on the data presented in Section 3, we offer the following with respect to in-situ thermal remediation:

- Interim NAPL Cleanup Levels required by SOW Section IV.A.4 were met in all confirmatory soil samples. On average, soil samples results were two orders of magnitude below Interim NAPL Cleanup Levels.
- Calculations of mass removed suggest that ISTR results exceeded the ROD expectation of 95 to 99% removal
- Soil temperatures within the ISTR treatment area have met design goals, and exceed the temperature where the target VOCs can exist as NAPL.
- Groundwater data from the thermal treatment zone indicate that VOC contamination has been reduced to levels below those that are indicative of the presence of NAPL.
- The plot of Phase 2 mass removal versus time (Figure 6) indicates that the rate of mass removal leveled off as of January 16, 2015, indicating the system operation has passed a point of diminishing returns

- Mass removal rates have declined from a peak of ~10,000 pounds TVOC per day to 26 pounds TVOC per day.
- The date of collection of the last sample used to demonstrate attainment of Phase 1 Interim NAPL Cleanup Levels was November 20, 2014. Accordingly, the duration of Phase 1 heating was 158 days, and the start date for additional operation was November 21, 2014. The date of collection of the last sample used to demonstrate attainment of Phase 2 Interim NAPL Cleanup Levels was February 17, 2015. Accordingly, the duration of Phase 2 heating was 146 days, and the start date for additional operation was February 18, 2015.

5 Recommended Next Steps

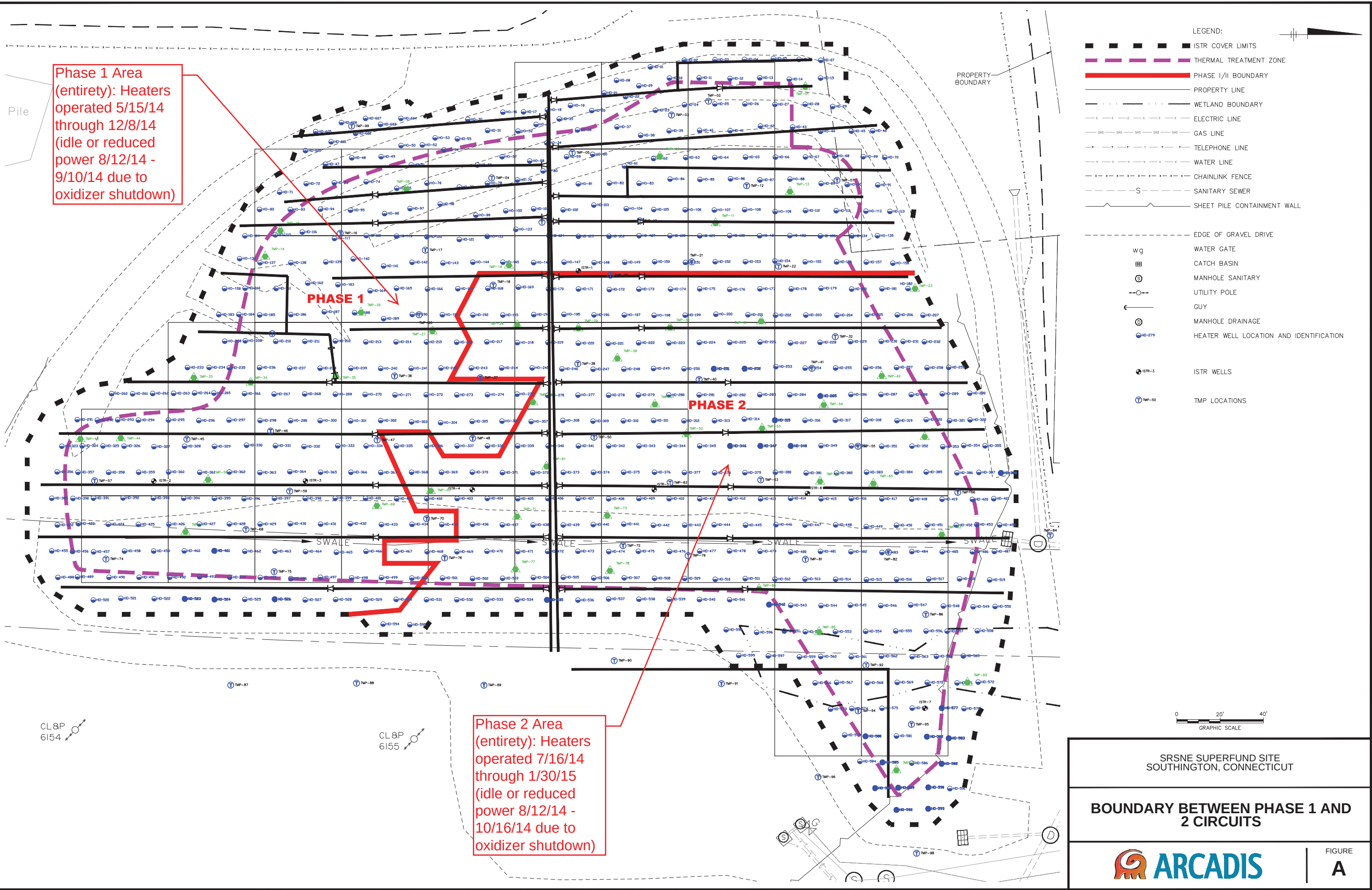
Based on the data presented above, the INCLs have been met throughout the overburden NAPL zone. There is no indication of appreciable recovery of NAPL occurring through continued operation of the ISTR system. Accordingly, we recommend that heating be immediately terminated and increasing the vacuum on vapor recovery system to levels that will optimize removal of remaining vapors. Vapor recovery will cease once soil temperatures drop below 100°C. Once soil temperatures drop below the level to generate steam, there will no longer be a driving force present that could cause residual vapor phase VOC migration.

Once vapor recovery is terminated, we recommend that the ISTR system be demobilized.

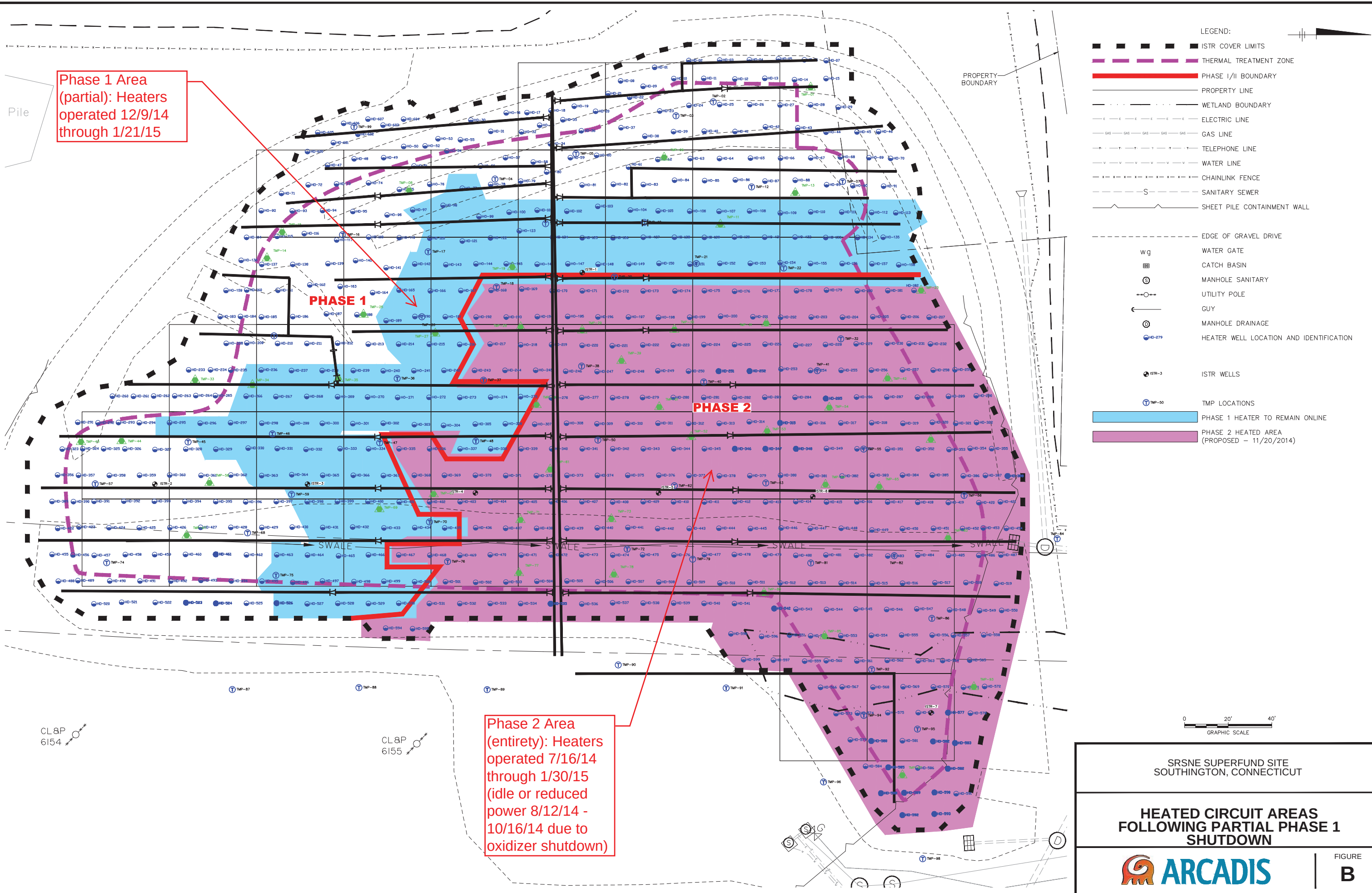
A demobilization plan and schedule are attached.

Heating Zones Figures A, B and C

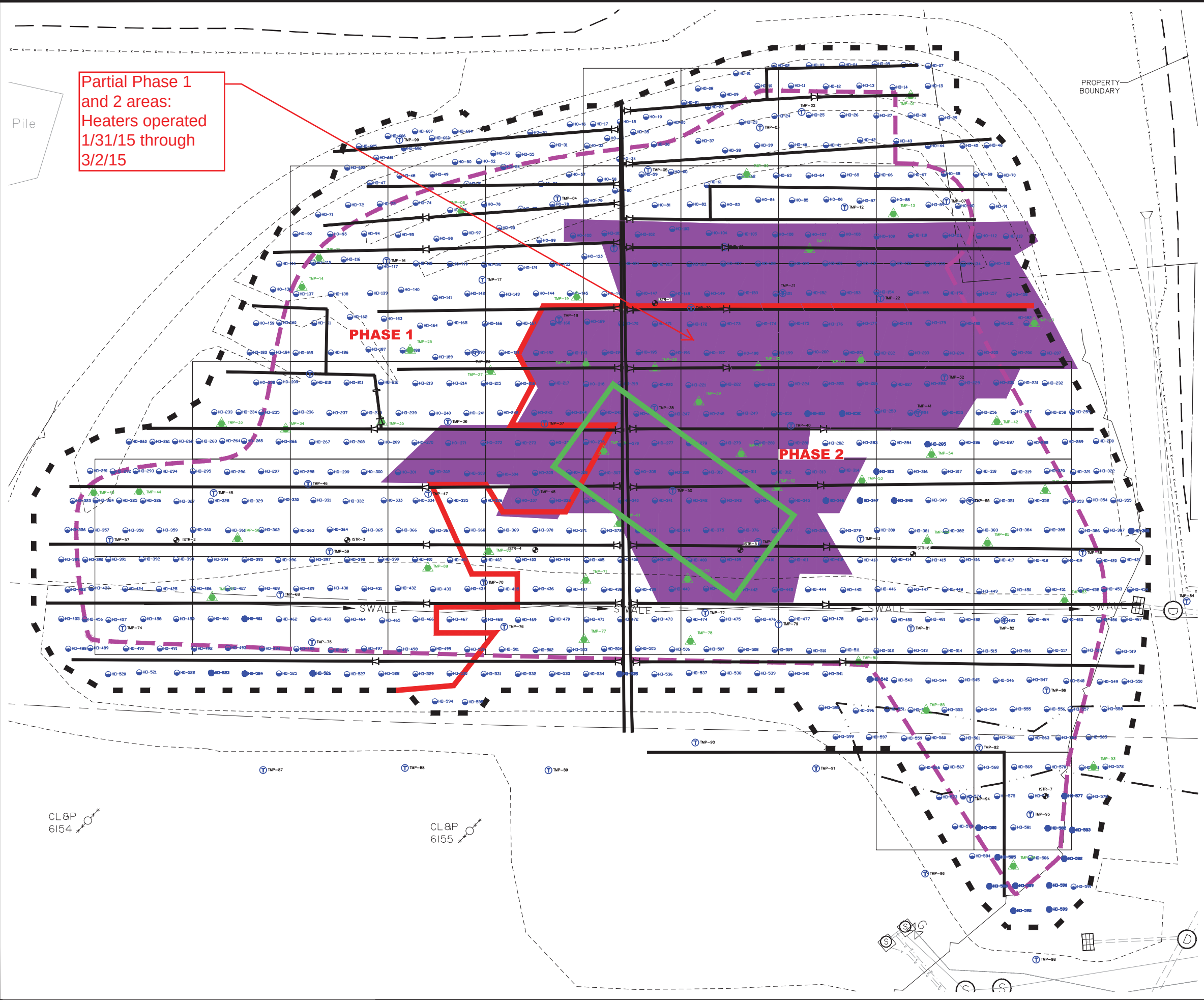
CITY: SYRACUSE, NY DIV/GRP: ENV CAD DB: B DECIERCO LD: B DECIERCO PIC: PM: K FABIAN TM: J MORGAN LYN: ON: OFF=REF TEXT
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CITY: SYRACUSE, NY DIV: GROUP: ENV CAD DB: B DECIERCO LD: B DECIERCO PIC: PM: K FABIAN TM: J MORGAN LYRON: OFF=REF TEXT
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CITY: SYRACUSE, NY DIV/GRP: ENV CAD DB: B DECLERCO LD: B DECLERCO PIC: PM: K FABIAN TM: J MORGAN LYN: ON OFF=REF TEXT
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Partial Phase 1
and 2 areas:
Heaters operated
1/31/15 through
3/2/15

LEGEND:

- ISTR COVER LIMITS
- THERMAL TREATMENT ZONE
- PHASE I/II BOUNDARY
- PROPERTY LINE
- WETLAND BOUNDARY
- ELECTRIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CHAINLINK FENCE
- SANITARY SEWER
- SHEET PILE CONTAINMENT WALL
- EDGE OF GRAVEL DRIVE
- wg WATER GATE
- CATCH BASIN
- MANHOLE SANITARY
- UTILITY POLE
- GUY
- MANHOLE DRAINAGE
- HEATER WELL LOCATION AND IDENTIFICATION
- ISTR-3 ISTR WELLS
- TMP-50 TMP LOCATIONS
- TARGET CONTINUED TREATMENT AREA, JAN. 2015
- OPTION C HEATER CIRCUITS

0 20' 40'

GRAPHIC SCALE

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT

HEATED CIRCUIT AREAS
FOLLOWING PARTIAL PHASE 2
SHUTDOWN

ARCADIS

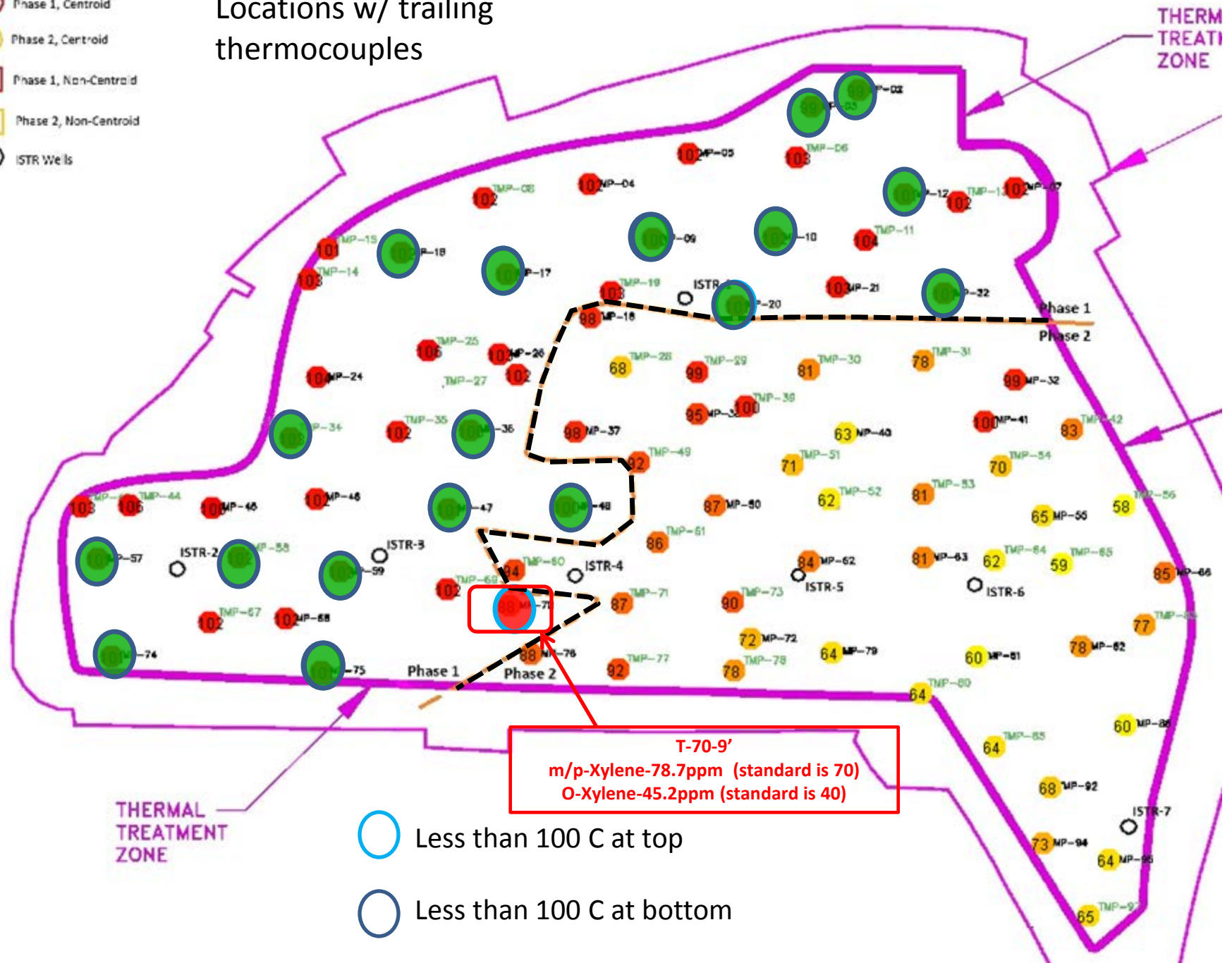
FIGURE
C



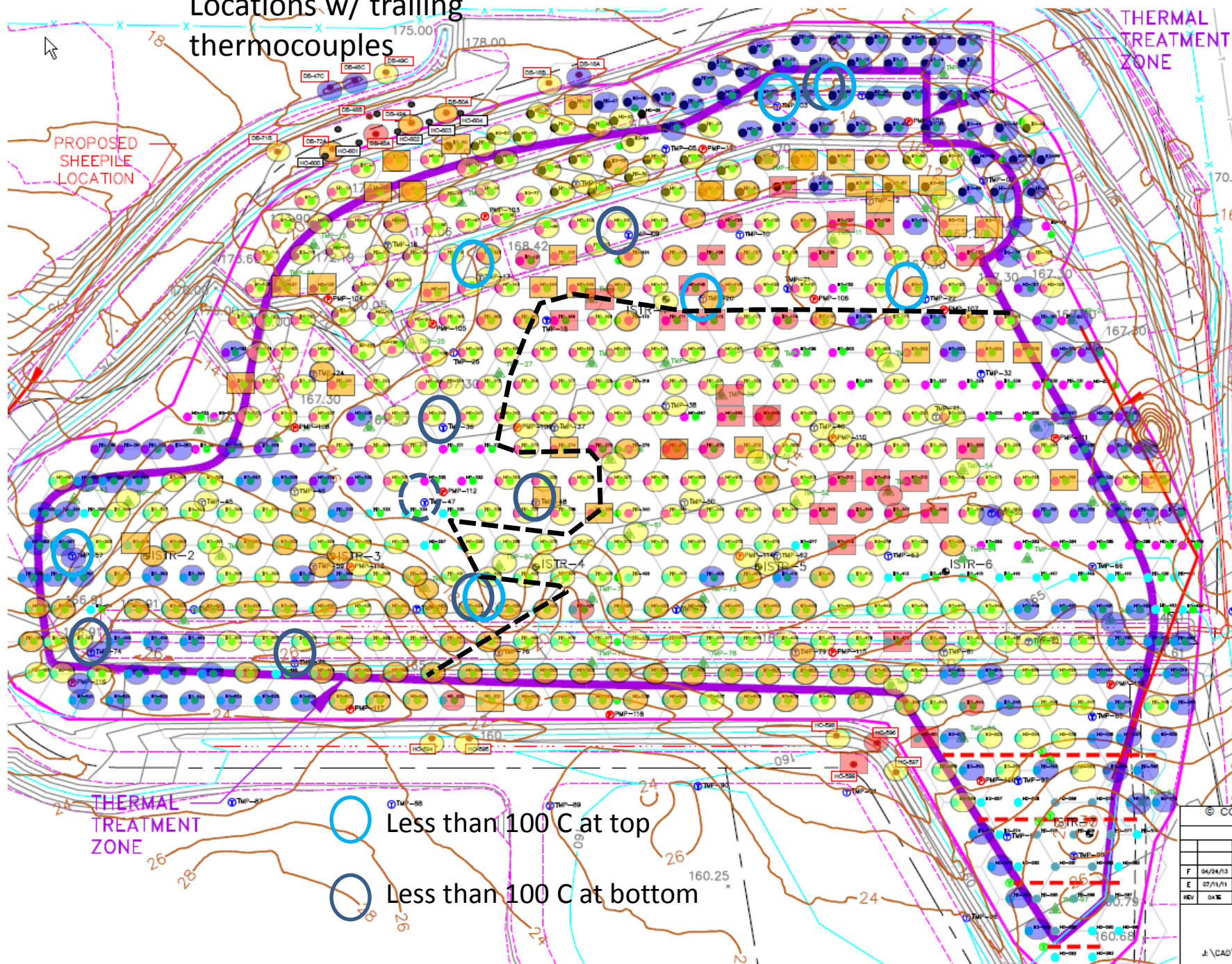
Progress Soil Sampling for Phases 1 and 2 Figure and Results

- Phase 1, Centroid
- Phase 2, Centroid
- Phase 1, Non-Centroid
- Phase 2, Non-Centroid
- ISTR Wells

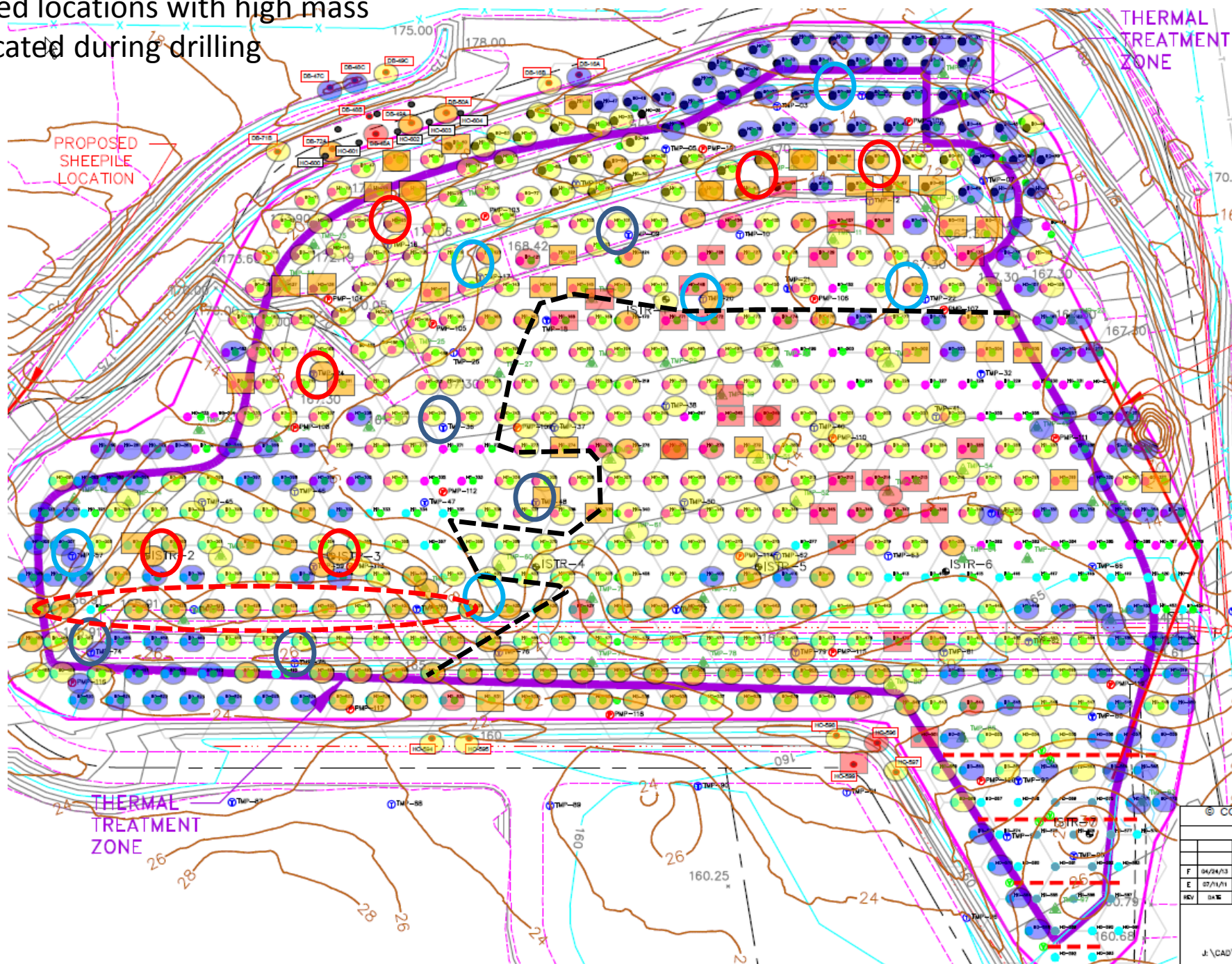
Locations w/ trailing thermocouples



Locations w/ trailing thermocouples



Added locations with high mass indicated during drilling



Sample Location:		T05-7.5	T05-9.5	T05-13	T10-7.5	T10-14	T10-17.5	T24-2.5	T24-7.5	T24-15	T47-1	T47-11.5	T47-14.5	T74-7.5	T74-17	T74-24
Sample Date:		7/30/14	7/30/14	7/30/14	7/29/14	7/29/14	7/29/14	7/28/14	7/28/14	7/28/14	7/28/14	7/28/14	7/28/14	7/29/14	7/29/14	7/29/14
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
		CLEANUP GOALS (mg/Kg)	PROGRESS SAMPLING #1													
Ethylbenzene	Interim NAPL Clean Up Levels	59	48.2	157	20.3	8.97	830					49.9	92.6			
Tetrachloroethene		46	1.58			10.1	847					3.99	28			
Trichloroethene		222	0.765			1.39	2.63	263				2.81	17.9		0.841	
Toluene		48	22.2	69.7	1.7	3.73	250					71.5	179			
1,1,1-Trichloroethane		221									0.254					
m,p-Xylene		70	18.7	23.4	1.61	10.4	399					49	199		0.449	
o-Xylene		42	7.05	7.04	0.502	3.59	122					20.8	104			
Acetone	Other Site COCs (ROD Table L-2)	N/A	9.25			58								2.97	2.64	
Benzene		N/A													0.0845	
Bromodichloromethane		N/A														
2-Butanone (MEK)		N/A				127										0.0262
Carbon tetrachloride		N/A														
Chlorobenzene		N/A														
Chloroform		N/A														
1,1-Dichloroethane		N/A														
1,1-Dichloroethene		N/A														
1,2-Dichloropropane		N/A														
4-Methyl-2-pentanone (MIBK)		N/A											5.44			
Methylene chloride		N/A														
Styrene		N/A	1.43			1.54	104						8.35			
1,1,2,2-Tetrachloroethane		N/A														
1,1,2-Trichloroethane		N/A														
Vinyl chloride		N/A														

Sample Location:		T70-4	T70-7.5	T70-9	T70-18	T70-19.5	T59-3.5	T59-19	T47-16	T74-22.5	T74-25	T57-4	T36-12	T36-14.5	T16-3.5	T16-15
Sample Date:		10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/15/14	10/13/14	10/13/14	10/16/14	10/16/14	10/16/14	10/17/14	10/17/14
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
		PROGRESS SAMPLING #2														
Ethylbenzene	Interim NAPL Clean Up Levels	0.601	2.71	37.5	0.538	0.0185	2.28		0.0054			0.0626	0.005	0.0028		0.0123
Tetrachloroethene				2.85			0.493									
Trichloroethene																0.0025
Toluene		1.8	4.89	45.3		0.0063	2.28		0.0125			0.0095				0.0334
1,1,1-Trichloroethane																
m,p-Xylene		1.18	6.12	78.7	0.244	0.0078	4.7		0.0098			0.0112				0.0114
o-Xylene	Other Site COCs (ROD Table L-2)	0.542	2.72	45.2		0.0024	2.66		0.0049			0.0055				0.0036
Acetone		1.26	0.651			0.0157		0.0448		0.0979		0.179	0.0409	0.0112	0.035	0.178
Benzene												0.0227				
Bromodichloromethane																
2-Butanone (MEK)										0.0189		0.0249				0.124
Carbon tetrachloride																
Chlorobenzene																
Chloroform																
1,1-Dichloroethane																
1,1-Dichloroethene																
1,2-Dichloropropane																
4-Methyl-2-pentanone (MIBK)												0.0297				
Methylene chloride																
Styrene																
1,1,2,2-Tetrachloroethane																
1,1,2-Trichloroethane																
Vinyl chloride																

Sample Location:		T10-2.5	T10-5	T12-16	T12-2.5	T20-4	T22-4	T17-4	T2-10	T2-4	T2-8.5	T3-4	T9-13	T75-23	T48-16	T58-3.5	T58-19	T34-2.5	T34-16
Sample Date:		10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/14/14	10/15/14	10/15/14	10/15/14	10/16/14	10/16/14
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
		PROGRESS SAMPLING #2																	
Ethylbenzene	Interim NAPL Clean Up Levels	0.0021	0.0088		0.011		0.0049	0.409	0.006	0.0919	0.0091	0.232							
Tetrachloroethene		0.008	0.0087		0.0089		0.0056			0.0139	0.0073	0.153							
Trichloroethene				0.0098	0.0097					0.007		0.225							
Toluene		0.0072	0.0115	0.0148	0.0125				0.0091	0.017	0.0116								
1,1,1-Trichloroethane																			
m,p-Xylene		0.0053	0.0055		0.0107					0.0239	0.0077	0.692							
o-Xylene					0.0054					0.0058	0.0043	0.343							
Acetone	Other Site COCs (ROD Table L-2)		0.253	0.0274			2.02	0.0939		9.84	0.209	0.816	1.42	0.0432	0.0187			0.0458	
Benzene										0.0015		0.0049							
Bromodichloromethane																			
2-Butanone (MEK)			0.0444		0.223	0.113				0.595	0.0321	0.14							
Carbon tetrachloride																			
Chlorobenzene																			
Chloroform																			
1,1-Dichloroethane																			
1,1-Dichloroethene																			
1,2-Dichloropropane																			
4-Methyl-2-pentanone (MIBK)		0.0077		0.019	0.0424				0.0142		0.0141								
Methylene chloride		0.0028		0.0043	0.004														
Styrene																			
1,1,2,2-Tetrachloroethane																			
1,1,2-Trichloroethane																			
Vinyl chloride																			

Sample Location:			T05-7.5	T05-9.5	T05-13	T10-7.5	T10-14	T10-17.5	T24-2.5	T24-7.5	T24-15	T47-1	T47-11.5	T47-14.5	T74-7.5	T74-17	T74-24
Sample Date:			7/30/14	7/30/14	7/30/14	7/29/14	7/29/14	7/29/14	7/28/14	7/28/14	7/28/14	7/28/14	7/28/14	7/28/14	7/29/14	7/29/14	7/29/14
Units:			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Acrylonitrile	Other Reported VOCs	N/A															
Bromobenzene		N/A															
Bromoform		N/A															
Bromomethane		N/A															
n-Butylbenzene		N/A		4.19										8.22			
sec-Butylbenzene		N/A															
tert-Butylbenzene		N/A															
Carbon disulfide		N/A															
Chloroethane		N/A															
Chloromethane		N/A															
o-Chlorotoluene		N/A															
p-Chlorotoluene		N/A															
1,2-Dibromo-3-chloropropane		N/A															
Dibromochloromethane		N/A															
1,2-Dibromoethane		N/A															
1,2-Dichlorobenzene		N/A															
1,3-Dichlorobenzene		N/A															
1,4-Dichlorobenzene		N/A															
Dichlorodifluoromethane		N/A															
1,2-Dichloroethane		N/A															
cis-1,2-Dichloroethene		N/A	0.52					10.2					3.9	10.8		0.286	
trans-1,2-Dichloroethene		N/A															
1,3-Dichloropropane		N/A															
2,2-Dichloropropane		N/A															
1,1-Dichloropropene		N/A															
cis-1,3-Dichloropropene		N/A															
trans-1,3-Dichloropropene		N/A															
Freon 113		N/A															
Hexachlorobutadiene		N/A															
2-Hexanone		N/A															
Isopropylbenzene		N/A	1.87	3.79	0.923	0.504		30.7					4.68	5.83			
p-Isopropyltoluene		N/A											3.01	15.6			
Methyl Tert Butyl Ether		N/A															
Methylene bromide		N/A															
Naphthalene		N/A												13		1.11	
n-Propylbenzene		N/A	1.5			0.71		44.6					5.42	17.9			
1,1,1,2-Tetrachloroethane		N/A															
Tetrahydrofuran		N/A															
Trans-1,4-Dichloro-2-Butene		N/A															
1,2,3-Trichlorobenzene		N/A															
1,2,4-Trichlorobenzene		N/A												11.4			
Trichlorofluoromethane		N/A															
1,2,3-Trichloropropane		N/A															
1,2,4-Trimethylbenzene		N/A	5.4	26.5	1.08	2.7		157					27.5	181			
1,3,5-Trimethylbenzene		N/A	1.62	10.2		0.988		54.7					6.82	40.1			

Notes:

T5-7.5 = "TMP-5" is the location / identification number; 7.5 is the depth of sample collection

blank cells = non detect

sample exceeded Interim NAPL Clean Up Standard

Sample Location:		T70-4	T70-7.5	T70-9	T70-18	T70-19.5	T59-3.5	T59-19	T47-16	T74-22.5	T74-25	T57-4	T36-12	T36-14.5	T16-3.5	T16-15
Sample Date:		10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/15/14	10/13/14	10/13/14	10/16/14	10/16/14	10/16/14	10/17/14	10/17/14
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Acrylonitrile	Other Reported VOCs															
Bromobenzene																
Bromoform																
Bromomethane																
n-Butylbenzene				14.4												
sec-Butylbenzene				3.07												
tert-Butylbenzene																
Carbon disulfide																
Chloroethane																
Chloromethane																
o-Chlorotoluene																
p-Chlorotoluene																
1,2-Dibromo-3-chloropropane																
Dibromochloromethane																
1,2-Dibromoethane																
1,2-Dichlorobenzene				1.63												
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
Dichlorodifluoromethane																
1,2-Dichloroethane																
cis-1,2-Dichloroethene		0.507	0.363	1.51												0.0105
trans-1,2-Dichloroethene																
1,3-Dichloropropane																
2,2-Dichloropropane																
1,1-Dichloropropene																
cis-1,3-Dichloropropene																
trans-1,3-Dichloropropene																
Freon 113																
Hexachlorobutadiene																
2-Hexanone																
Isopropylbenzene				3.04												
p-Isopropyltoluene				13.4												
Methyl Tert Butyl Ether																
Methylene bromide																
Naphthalene			0.442	28												
n-Propylbenzene				11.1												
1,1,1,2-Tetrachloroethane																
Tetrahydrofuran																
Trans-1,4-Dichloro-2-Butene																
1,2,3-Trichlorobenzene				5.34												
1,2,4-Trichlorobenzene			1.02	20.7												
Trichlorofluoromethane																
1,2,3-Trichloropropane																
1,2,4-Trimethylbenzene			3.62	119	5.56		4.62		0.0094							
1,3,5-Trimethylbenzene			1.11	28.8			1									

Notes:

T5-7.5 = "TMP-5" is the location / identifier

blank cells = non detect

sample exceeded Interim NAPL Clean Up

Sample Location:		T10-2.5	T10-5	T12-16	T12-2.5	T20-4	T22-4	T17-4	T2-10	T2-4	T2-8.5	T3-4	T9-13	T75-23	T48-16	T58-3.5	T58-19	T34-2.5	T34-16
Sample Date:		10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/21/14	10/14/14	10/15/14	10/15/14	10/15/14	10/16/14	10/16/14
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Acrylonitrile	Other Reported VOCs																		
Bromobenzene																			
Bromoform																			
Bromomethane																			
n-Butylbenzene									0.707										
sec-Butylbenzene									0.602										
tert-Butylbenzene																			
Carbon disulfide																			
Chloroethane																			
Chloromethane																			
o-Chlorotoluene																			
p-Chlorotoluene																			
1,2-Dibromo-3-chloropropane																			
Dibromochloromethane																			
1,2-Dibromoethane																			
1,2-Dichlorobenzene																			
1,3-Dichlorobenzene																			
1,4-Dichlorobenzene																			
Dichlorodifluoromethane																			
1,2-Dichloroethane																			
cis-1,2-Dichloroethene				0.0073															
trans-1,2-Dichloroethene																			
1,3-Dichloropropane																			
2,2-Dichloropropane																			
1,1-Dichloropropene																			
cis-1,3-Dichloropropene																			
trans-1,3-Dichloropropene																			
Freon 113																			
Hexachlorobutadiene																			
2-Hexanone																			
Isopropylbenzene											0.0151								
p-Isopropyltoluene																			
Methyl Tert Butyl Ether																			
Methylene bromide																			
Naphthalene						0.0147							0.471						
n-Propylbenzene											0.0135								
1,1,1,2-Tetrachloroethane																			
Tetrahydrofuran																			
Trans-1,4-Dichloro-2-Butene																			
1,2,3-Trichlorobenzene																			
1,2,4-Trichlorobenzene																			
Trichlorofluoromethane																			
1,2,3-Trichloropropane																			
1,2,4-Trimethylbenzene						0.0139			0.725		0.0193		1.39						
1,3,5-Trimethylbenzene																			

Notes:

T5-7.5 = "TMP-5" is the location / identifier

blank cells = non detect

sample exceeded Interim NAPL Clean Up

SHEET PILE
LOCATION

PHASE 1
PHASE 2

THERMAL –
TREATMENT
ZONE

**PRELIMINARY
CONFIDENTIAL**

A	12/11
CV	DV

SRSNE Superfund Site
Progress Soil Sampling - Summary Results

		PROGRESS - PHASE 2																											
Sample Location:		CLEANUP GOALS	T29-2.5	T31-17.5	T50-3.5	T51-1.5	T51-14	T40-1	T40-16.5	T52-16	T54-4	T56-16	T56-5	T49-11.5	T49-3.5	T62-17	T63-4	T64-5	T71-18.5	T72-4	T79-4	T80-17	T81-16.5	T81-3.5	T82-4	T92-3.5	T97-4.5	T60-17	T76-4.5
Sample Date:			12/1/14	12/1/14	12/1/14	12/1/14	12/1/14	12/2/14	12/2/14	12/2/14	12/2/14	12/2/14	12/2/14	12/5/14	12/5/14	12/3/14	12/3/14	12/3/14	12/5/14	12/3/14	12/3/14	12/4/14	12/4/14	12/4/14	12/3/14	12/4/14	12/4/14	12/8/14	12/8/14
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Ethylbenzene	PROJECT GOALS	59	32.1		34.7	1.37					0.0066		0.25	9.65	108	0.0483	14.4		0.0082				0.0068				43.3		
Tetrachloroethene		46	8.17		11	8.21	0.0082	0.596			0.0089			0.91	251	0.264	1.29			0.0116			0.0097				42.8		
Trichloroethene		222	1.22		1.98		0.0273		0.813		0.0133			0.282	14.2	0.313				0.0219	0.0044	0.0583				16.8			
Toluene		48	11.1		9.87		0.0225				0.0074		0.515	4.98	90.5	0.147	7.32		0.0168		0.009		0.0273				23.2		
1,1,1-Trichloroethane		221																											
m,p-Xylene		70	37.9		178	6.21	0.0041				0.0187		0.582	24.6	179	0.114	56.6						0.0101			30.1	0.0047		
o-Xylene		42	15.4		65.1	2.44					0.0077		0.281	10.7	67.2	0.048	26.9						0.0055			12			
Acetone		OTHER PROJECT COMPOUNDS OF INTEREST	N/A	10.7				0.0659			0.0201	3.51					0.28			0.224	0.245	0.29		0.0256		0.0813		3.26	0.148
Benzene	N/A														0.502						0.00063								
Bromodichloromethane	N/A																												
2-Butanone (MEK)	N/A						0.139			0.0657	0.16					0.392			0.343		0.0371					0.214		0.111	
Carbon tetrachloride	N/A																												
Chlorobenzene	N/A																												
Chloroform	N/A																												
1,1-Dichloroethane	N/A																												
1,1-Dichloroethene	N/A																												
1,2-Dichloropropane	N/A																												
4-Methyl-2-pentanone (MIBK)	N/A		2.7				0.0488			0.0668	0.0082					0.0114					0.0035			0.0053					
Methylene chloride	N/A						0.005			0.0067	0.0034	0.0039		0.978	6.41	0.216			0.133										
Styrene	N/A		18.6											5.71	8.33											6.17			
1,1,2,2-Tetrachloroethane	N/A																												
1,1,2-Trichloroethane	N/A																												
Vinyl chloride	N/A																												

Acrylonitrile	NOT SITE RELATED - FULL VOC REPORTING LIST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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Notes:
TMP-5-7.5 = TMP-5 is the identification number; 7.5 is the depth of sample collection
blank cells = non detect

exceeds Interim NAPL Cleanup Levels

**Confirmatory Soil Sampling
Figures 1A and 1B, Tables 1, 2A and 2B**

CITY: SYRACUSE, NY DIV: GROUP: ENV CAD DB: B DECIERCO ID: B DECIERCO LYNON: OFF=REF TEXT G:\ENV CAD\Manchester\AC1B00546340001\035001\THERMAL\5463401-ISTR.dwg LAYOUT: 1A, SAVED: 3/22/2015 4:19 PM ACADVER: 18.1 (LMS TECH) PAGES: 10 PLOT: 3/23/2015 4:20 PM BY: SMALL, BRIAN

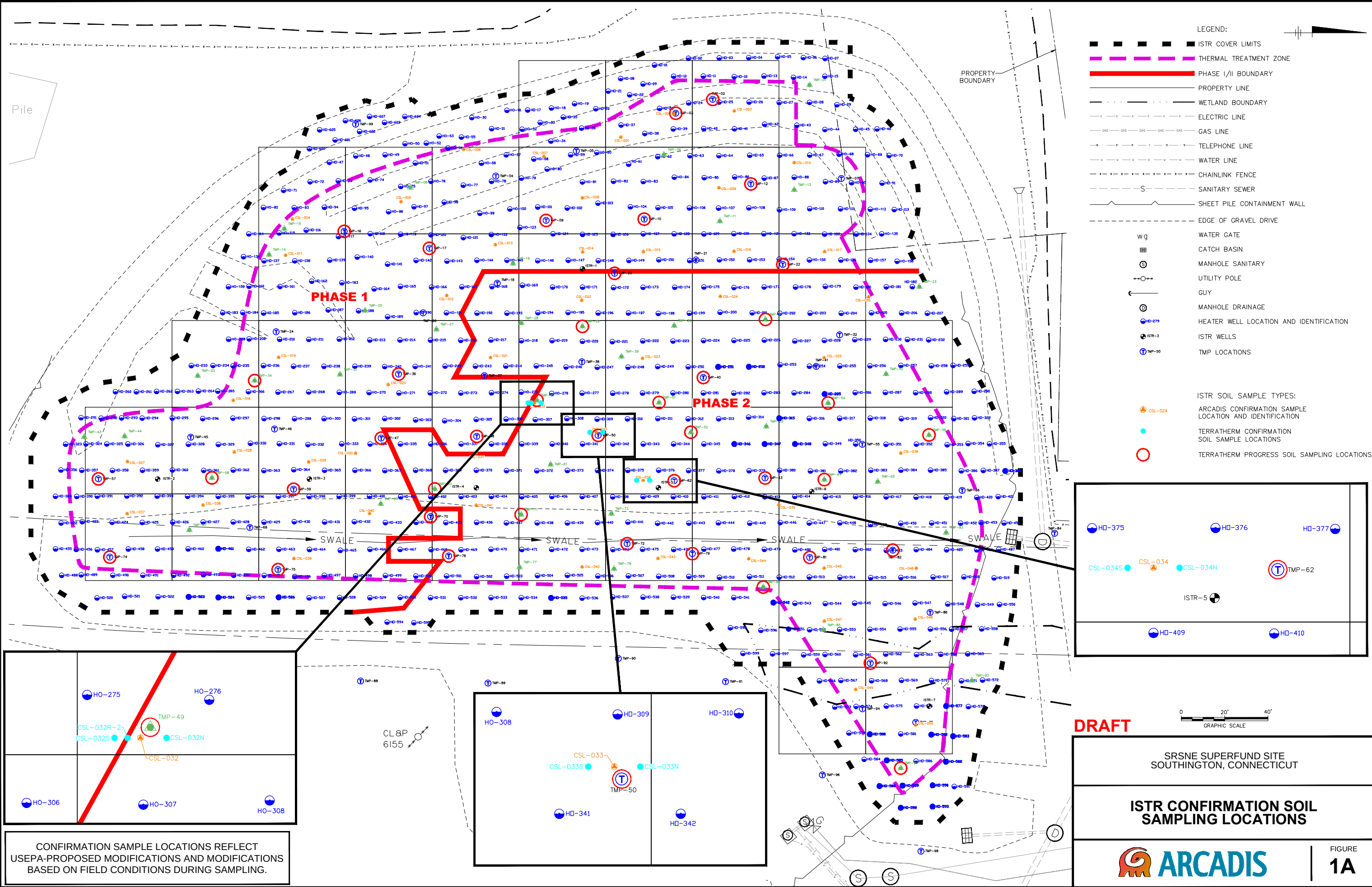


Table 1. ISTR Confirmatory Soil Sample Summary
Solvents Recovery Service of New England (SRSNE) Superfund Site
Southington, Connecticut

DRAFT

Sample Location ID	ISTR Area		Initial Sample (ARCADIS)	Supplemental (ARCADIS)	Supplemental (TerraTherm)	Sample Date	Treatment Depth ¹ (ft bgs)	First Sample Interval		Second Sample Interval		Third Sample Interval		Notes
	Phase 1	Phase 2						Target Sample Depth per WP (ft bgs)	Nominal Collected Depth (ft bgs)	Target Sample Depth per WP (ft bgs)	Nominal Collected Depth (ft bgs)	Target Sample Depth per WP (ft bgs)	Nominal Collected Depth (ft bgs)	
CSL-001	X		X			11/13/14	12.0	4.2	4.2	8.3	8.3	NA		
CSL-002	X		X			11/13/14	11.9	3.7	3.7	8.6	7.5	NA		Refusal at 7.5 ft bgs.
CSL-003	X		X			11/13/14	12.0	2.2	2.2	7.8	7.8	NA		Dup-2 collected at 7.8 ft bgs, MS/MSD.
CSL-004	X		X			11/19/14	17.0	7.4	7.4	12.2	12.2	NA		Move location approximately 10ft south due to access limitations.
CSL-005	X		X			11/12/14	14.5	6.0	6.0	11.7	11.7	NA		
CSL-006	X		X			11/13/14	17.0	0.2	0.2	17.0	17.0	NA		
CSL-007	X		X			11/13/14	17.0	2.7	2.7	12.6	12.6	NA		
CSL-008	X		X			11/13/14	17.0	0.0	0.1	11.2	11.2	NA		2 refusals prior to reaching bottom target depth.
CSL-009	X		X			11/14/14	17.0	3.4	3.4	13.6	13.6	NA		
CSL-010	X		X			11/14/14	12.0	3.0	3.0	8.7	8.7	NA		
CSL-011	X		X			11/19/14	17.0	8.6	8.6	14.3	14.0	NA		Refusal at 14 ft bgs. Three additional refusals at 2.5 ft bgs; moved boring location approximately 15 ft south.
CSL-012	X		X			11/12/14	17.0	1.9	1.9	10.3	10.3	NA		Dup-1 collected at 1.9 ft bgs.
CSL-013	X		X			11/12/14	17.0	2.8	2.8	16.7	none- see note	NA		4-attempts; 3 refusals between 2.5 and 3 ft bgs, 4th refusal at 16.5 ft bgs; no sample recovered from bottom interval. Due to refusals boring was adjusted to the north (east of HO-122).
CSL-014	X		X			11/14/14	17.0	1.1	1.1	10.6	10.6	NA		
CSL-015	X		X			11/14/15	17.0	8.0	8.0	12.0	10.5	NA		Refusal at 10.5 ft bgs.
CSL-016	X		X			11/14/15	21.0	0.7	0.7	9.7	9.7	20.5	none- see note	No sample recovered from 3rd interval.
CSL-017	X		X			11/17/14	16.7	2.4	2.4	9.8	9.8	NA		
CSL-018	X		X			11/19/14	17.0	5.3	5.3	12.9	12.9	NA		Refusal at 14.5 ft bgs.
CSL-019	X		X			11/19/14	18.1	7.1	7.1	10.3	10.3	NA		Refusal at 11.5 ft bgs.
CSL-020	X		X			11/18/14	17.0	8.2	8.2	13.3	13.3	NA		Moved boring one row east (east of heater wells HO-239 and HO-240). Unable to reach target location with the crane.
CSL-027	X		X			11/18/14	19.8	6.4	6.4	10.1	10.1	NA		
CSL-028	X		X			11/18/14	19.9	2.5	2.5	16.5	13.5	NA		Refusal at 13.5 ft bgs.
CSL-029	X		X			11/18/14	21.1	2.1	2.1	11.0	11.0	20.4	15.5	Dup-3 collected at 2.1 ft bgs; Refusal at 15.5 ft bgs.
CSL-030	X		X			11/18/14	17.0	6.5	6.5	15.9	12.5	NA		Refusal at 12.5 ft bgs.
CSL-037	X		X			11/11/14	22.0	7.1	7.1	11.2	11.2	16.7	16.7	
CSL-038	X		X			11/17/14	22.0	3.5	3.5	12.5	12.5	20.1	18.1	Refusal at 18.1 ft bgs.
CSL-039	X		X			11/11/14	24.5	3.2	3.2	11.2	11.2	19.3	19.3	
CSL-040	X		X			11/17/14	22.0	4.0	4.0	12.5	12.5	17.5	15.0	Refusal at 15.5 ft bgs. Recovered soils to 15.0 ft bgs.
CSL-021		X	X			1/13/15	14.5	0.2	0.2	13.5	13.5	NA	NA	
CSL-022		X	X			1/5/15	17.0	4.0	4.0	14.0	14.0	NA	NA	Dup-4 collected from 4.0 ft bgs; 2 attempts.
CSL-022A		X		X		1/14/15	17.0	4.0	4.0	NA	NA	NA	NA	Located one foot east of CSL-022.
CSL-023		X	X			1/6/15	22.0	6.6	6.6	9.9	9.9	15.2	15.2	2 attempts.
CSL-024		X	X			1/5/15	17.0	2.3	2.3	10.4	10.4	12.9	12.9	3 attempts.
CSL-025		X	X			1/6/15	21.9	0.5	0.5	13.1	13.1	20.4	15.5	refusal at 15.5 after 3 attempts.
CSL-026		X	X			1/5/15	19.5	6.0	6.0	9.2	9.2	15.2	15.2	
CSL-031		X	X			1/12/15	17.0	3.8	3.8	9.5	9.5	NA	NA	
CSL-032		X	X			1/12/15	17.0	4.1	4.1	9.6	9.6	NA	NA	
CSL-032N		X			X	2/4/15	17.0	2.0	2.0	10.0	10.0	15.0	15.0	resample by TerraTherm ~3' North of CSL-032.
CSL-032S		X			X	2/4/15	17.0	2.0	2.0	10.0	10.0	15.0	15.0	resample by TerraTherm ~3' South of CSL-032; location is within Phase 1 area, but collected as part of Phase 2 sampling.
CSL-032S-R-2		X			X	2/17/15	17.0	2.0	2.0	NA	NA	NA	NA	resample by TerraTherm ~1.5' South of CSL-032; "duplicate" location.
CSL-033		X	X			1/6/15	19.0	2.1	2.1	11.8	11.8	15.2	14.5	2 attempts; refusal at 14.5 ft bgs.
CSL-033A		X		X		1/14/15	19.0	2.1	2.1	NA	NA	NA	NA	Located one foot west of CSL-033.
CSL-033N		X			X	2/3/15	19.0	2.0	2.0	10.0	10.0	15.0	15.0	resample by TerraTherm ~3' North of CSL-033.

Table 1. ISTR Confirmatory Soil Sample Summary
Solvents Recovery Service of New England (SRSNE) Superfund Site
Southington, Connecticut

DRAFT

Sample Location ID	ISTR Area		Initial Sample (ARCADIS)	Supplemental (ARCADIS)	Supplemental (TerraTherm)	Sample Date	Treatment Depth ¹ (ft bgs)	First Sample Interval		Second Sample Interval		Third Sample Interval		Notes
	Phase 1	Phase 2						Target Sample Depth per WP (ft bgs)	Nominal Collected Depth (ft bgs)	Target Sample Depth per WP (ft bgs)	Nominal Collected Depth (ft bgs)	Target Sample Depth per WP (ft bgs)	Nominal Collected Depth (ft bgs)	
CSL-033S		X			X	2/3/15	19.0	2.0	2.0	10.0	10.0	15.0	15.0	resample by TerraTherm ~3' North of CSL-033.
CSL-034		X	X			1/7/15	21.6	0.3	0.3	12.5	12.5	16.3	16.3	Dup-5 collected from 0.3 ft bgs.
CSL-034A		X		X		1/14/15	21.6	0.3	0.3	NA	NA	NA	NA	Located one foot SW of CSL-034.
CSL-034N		X			X	2/4/15	21.6	2.0	2.0	10.0	10.0	15.0	15.0	resample by TerraTherm ~3' North of CSL-034.
CSL-034S		X			X	2/3/15	216.0	2.0	2.0	10.0	10.0	15.0	15.0	resample by TerraTherm ~3' North of CSL-034.
CSL-035		X	X			1/7/15	18.6	6.0	6.0	9.7	9.7	15.7	15.7	
CSL-036		X	X			1/6/15	19.5	1.6	1.6	14.8	14.8	NA	NA	
CSL-041		X	X			1/12/15	22.0	2.5	2.5	8.6	8.6	20.2	19.0	Refusal at 19 ft (2 attempts) Dup-6-1-12-15 collected from 2.5 ft.
CSL-042		X	X			1/8/15	24.5	3.3	3.3	8.5	8.5	17.8	17.8	Moved location 4 ft north due to system utilities.
CSL-043		X	X			1/8/15	24.5	1.5	1.5	8.7	8.7	16.9	12.5	2 attempts; refusal at 12.5 ft bgs.
CSL-044		X	X			1/8/15	22.0	7.1	7.1	10.2	10.2	21.3	18.0	2 attempts; refusal at 18.0 ft bgs.
CSL-045		X	X			1/7/15	22.0	4.3	4.3	13.8	13.8	17.2	16.5	
CSL-046		X	X			1/7/15	22.0	5.3	5.3	8.0	8.0	15.0	15.0	
CSL-047		X	X			1/13/15	22.0	4.6	4.6	13.0	13.0	17.7	17.7	Dup-7-1-13-15 collected from 17.7 ft bgs.
CSL-048		X	X			1/13/15	20.7	0.2	0.2	12.9	12.9	15.6	15.6	
CSL-049		X	X			1/13/15	22.0	0.4	0.4	13.2	13.2	21.2	19.0	Refusal at 19.0 ft bgs.
CSL-050		X	X			1/13/15	24.5	7.5	7.5	12.7	12.7	20.0	20.0	
Totals:	28	32												

Notes:

ft bgs - feet below ground surface

NA - Not applicable (no second/third sample interval targeted)

Yellow highlight - indicates sample depth interval differed from target due to field recovery

Red Text - indicates sample locations modified relative to work plan due to field conditions

Blue Text - indicates confirmation samples collected by TerraTherm after initial confirmation sample at the corresponding location exceeded NAPL ICL

1. Represents estimated depth of treatment from ground surface to top of bedrock based on target location and Work Plan approach.

Table 2A – ISTR Phase 1 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-001		CSL-001		CSL-002		CSL-002		CSL-003		CSL-003		CSL-003		CSL-004		CSL-004		CSL-005		CSL-005		CSL-006		CSL-006	
				4.2		8.3		3.7		7.5		2.2		7.8		7.8		7.4		12.2		6		11.7		0.2		17	
				CSL-001 (4.2)		CSL-001 (8.3)		CSL-002 (3.7)		CSL-002 (7.5)		CSL-003 (2.2)		CSL-003 (7.8)		DUP-2-11-13-14		CSL-004 (7.4)		CSL-004 (12.2)		CSL-005 (6.0)		CSL-005 (11.7)		CSL-006 (0.2)		CSL-006 (17.0)	
				11/13/2014		11/13/2014		11/13/2014		11/13/2014		11/13/2014		11/13/2014		11/13/2014		11/13/2014		11/19/2014		11/19/2014		11/12/2014		11/12/2014		11/13/2014	
Analyte VOCs (8260C)	CAS No.	Unit	NAPL ICL																										
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
Ethylbenzene	100-41-4	ug/kg	59000	2.2	--	1400	--	5.2	--	2.2	--	680	--	0.87	U	1	U	0.93	U	0.96	U	52	--	0.97	U	750	--	69	--
M,P-Xylene	179601-23-1	ug/kg	70000	1.8	J	190	--	2.7	--	1.3	J	710	--	1.7	U	2	U	1.5	J	1.9	U	10	--	1.9	U	500	--	43	J
o-Xylene	95-47-6	ug/kg	42000	0.85	J	65	J	1.4	J	0.78	J	320	--	1.7	U	2	U	1.8	U	1.9	U	3.4	--	1.9	U	170	--	99	U
Tetrachloroethene	127-18-4	ug/kg	46000	0.93	U	79	--	0.85	J	1.1	U	190	--	0.87	U	1	U	0.81	J	0.96	U	4.3	--	0.97	U	120	--	50	U
Toluene	108-88-3	ug/kg	48000	1.2	J	83	U	4.8	--	1	J	650	--	2.4	--	2.8	--	4.2	--	1.4	U	17	--	1.4	U	340	--	74	U
Trichloroethene	79-01-6	ug/kg	222000	0.93	U	56	U	1.2	--	1.1	U	250	--	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
Total Target VOCs (7)	TS7VO	ug/kg	--	6.05	--	1734	--	16.15	--	5.28	--	2800	--	2.4	--	2.8	--	6.51	--	0	--	86.7	--	0	--	1880	--	112	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	1.4	U	83	U	1.4	U	1.6	U	85	U	1.3	U	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	84	U	74	U
1,1-Dichloroethane	75-34-3	ug/kg	--	1.4	U	83	U	1.4	U	1.6	U	85	U	1.3	U	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	84	U	74	U
1,1-Dichloroethene	75-35-4	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
1,2-Dichloropropane	78-87-5	ug/kg	--	3.3	U	190	U	3.4	U	3.8	U	200	U	3	U	3.5	U	3.2	U	3.4	U	3.4	U	3.4	U	200	U	170	U
2-Butanone (MEK)	78-93-3	ug/kg	--	660	--	320	J	270	--	200	--	6300	--	13	--	14	--	5.6	J	9.6	U	6.7	J	6.1	J	190	J	500	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	4.3	J	560	U	6.5	J	11	U	410	J	8.7	U	10	U	9.3	U	9.6	U	9.7	U	9.7	U	560	U	500	U
Acetone	67-64-1	ug/kg	--	4300	--	1900	J	4200	--	3000	--	64000	--	110	--	110	--	31	J	1.2	J	60	--	33	J	1000	J	1800	U
Benzene	71-43-2	ug/kg	--	0.93	U	56	U	1.6	--	1.1	U	53	J	0.87	U	1	U	0.93	U	0.96	U	1.7	--	0.97	U	56	U	50	U
Carbon tetrachloride	56-23-5	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
Chlorobenzene	108-90-7	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
Chlorodibromomethane	124-48-1	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
Chloroform	67-66-3	ug/kg	--	1.4	U	83	U	1.4	U	1.6	U	85	U	1.3	U	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	84	U	74	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	0.93	U	56	U	0.97	U	1.1	U	56	U	0.87	U	1	U	0.93	U	0.96	U	0.97	U	0.97	U	56	U	50	U
Methylene chloride	75-09-2	ug/kg	--	9.3	U	560	U	1.9	J	11	U	560	U	8.7	U	10	U	9.3	U	9.6	U	9.7	U	9.7	U	560	U	500	U
Styrene	100-42-5	ug/kg	--	1.9	U	100	J	1.9	U	2.2	U	97	J	1.7	U	2	U	1.8	U	1.9	U	8.4	--	1.9	U	180	--	99	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	1.4	U	83	U	1.4	U	1.6	U	85	U	1.3	U	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	84	U	74	U
Vinyl chloride	75-01-4	ug/kg	--	1.9	U	110	U	1.9	U	2.2	U	110	U	1.7	U	2	U	1.8	U	1.9	U	1.9	U	1.9	U	110	U	99	U
Xylenes, Total	1330-20-7	ug/kg	--	2.7	J	260	J	4.1	J	2.1	J	1000	--	1.7	U	2	U	1.5	J	1.9	U	13	--	1.9	U	670	--	43	J
Total Volatile Organics (25)	TVO	ug/kg	--	4970.35	--	4054	--	4496.15	--	3205.28	--	73660	--	125.4	--	126.8	--	43.11	--	1.2	--	163.5	--	39.1	--	3250	--	112	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

Table 2A – ISTR Phase 1 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-007		CSL-007		CSL-008		CSL-008		CSL-009		CSL-009		CSL-010		CSL-010		CSL-011		CSL-011		CSL-012		CSL-012		CSL-012	
				2.7		12.6		0.1		11.2		3.4		13.6		3		8.7		8.6		14		1.9		1.9		10.3	
				CSL-007 (2.7)		CSL-007 (12.6)		CSL-008 (0.1)		CSL-008 (11.2)		CSL-009 (3.4 FT)		CSL-009 (13.6 FT)		CSL-010 (3.0 FT)		CSL-010 (8.7 FT)		CSL-011 (8.6)		CSL-011 (14.0)		CSL-012 (1.9)		DUP-1-11-12-14		CSL-012 (10.3)	
				11/13/2014		11/13/2014		11/13/2014		11/13/2014		11/14/2014		11/14/2014		11/14/2014		11/14/2014		11/19/2014		11/19/2014		11/12/2014		11/12/2014		11/12/2014	
Analyte																													
VOCs (8260C)																													
CAS No.	Unit	NAPL ICL																											
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	45	U	0.91	U	56	U	1	U	1.1	U	0.91	U	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
Ethylbenzene	100-41-4	ug/kg	59000	1200	--	2.5	--	360	--	4.4	--	1.1	U	44	--	1	U	1.1	U	51	U	0.93	U	540	--	860	--	190	--
M,P-Xylene	179601-23-1	ug/kg	70000	520	--	1.3	J	590	--	8	--	2.1	U	7.8	--	2	U	2.2	U	70	J	1.9	U	600	--	1000	--	86	J
o-Xylene	95-47-6	ug/kg	42000	190	--	1.8	U	320	--	2.3	--	2.1	U	2.3	--	2	U	2.2	U	100	U	1.9	U	190	--	340	--	100	U
Tetrachloroethene	127-18-4	ug/kg	46000	150	--	0.91	U	190	--	18	--	1.1	U	1.8	--	1	U	1.1	U	51	U	0.93	U	3500	--	5400	--	81	--
Toluene	108-88-3	ug/kg	48000	250	--	0.7	J	670	--	16	--	8.4	--	13	--	1	J	3.9	--	77	U	1	J	520	--	780	--	96	--
Trichloroethene	79-01-6	ug/kg	222000	45	U	0.91	U	280	--	1	U	1.1	U	21	--	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
Total Target VOCs (7)	TS7VO	ug/kg	--	2310	--	4.5	--	2410	--	48.7	--	8.4	--	89.9	--	1	--	3.9	--	70	--	1	--	5350	--	8380	--	453	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	0.91	U	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	67	U	1.4	U	84	U	1.5	U	1.6	U	1.4	U	1.5	U	1.6	U	77	U	1.4	U	78	U	80	U	78	U
1,1-Dichloroethane	75-34-3	ug/kg	--	67	U	1.4	U	84	U	1.5	U	1.6	U	1.4	U	1.5	U	1.6	U	77	U	1.4	U	78	U	80	U	78	U
1,1-Dichloroethene	75-35-4	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	1.4	--	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	12	--	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
1,2-Dichloropropane	78-87-5	ug/kg	--	160	U	3.2	U	200	U	3.5	U	3.7	U	3.2	U	3.5	U	3.8	U	180	U	3.3	U	180	U	190	U	180	U
2-Butanone (MEK)	78-93-3	ug/kg	--	460	--	20	--	2100	--	28	--	3.1	J	54	--	25	--	11	U	220	J	6.4	J	520	U	350	J	520	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	450	U	9.1	U	1100	--	10	U	11	U	8.4	J	10	U	11	U	510	U	9.3	U	520	U	530	U	520	U
Acetone	67-64-1	ug/kg	--	2800	--	54	--	9300	--	51	--	30	J	170	--	330	E	2.2	J	1900	--	25	J	1900	U	1900	U	1900	U
Benzene	71-43-2	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	0.91	U	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
Carbon tetrachloride	56-23-5	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	0.91	U	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
Chlorobenzene	108-90-7	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	0.91	U	1	U	1.1	U	43	J	0.93	U	52	U	53	U	52	U
Chlorodibromomethane	124-48-1	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	0.91	U	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
Chloroform	67-66-3	ug/kg	--	67	U	1.4	U	84	U	1.5	U	1.6	U	1.4	U	1.5	U	1.6	U	77	U	1.4	U	78	U	80	U	78	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	45	U	0.91	U	56	U	1	U	1.1	U	12	--	1	U	1.1	U	51	U	0.93	U	52	U	53	U	52	U
Methylene chloride	75-09-2	ug/kg	--	450	U	9.1	U	560	U	2.2	J	11	U	2.1	J	10	U	2.5	J	510	U	9.3	U	520	U	530	U	520	U
Styrene	100-42-5	ug/kg	--	140	--	1.1	J	110	U	0.86	J	2.1	U	1.8	U	2	U	2.2	U	100	U	1.9	U	100	U	110	U	100	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	67	U	1.4	U	84	U	1.5	U	1.6	U	1.4	U	1.5	U	1.6	U	77	U	1.4	U	78	U	80	U	78	U
Vinyl chloride	75-01-4	ug/kg	--	90	U	1.8	U	110	U	2	U	2.1	U	1.8	U	2	U	2.2	U	100	U	1.9	U	100	U	110	U	100	U
Xylenes, Total	1330-20-7	ug/kg	--	710	--	1.3	J	910	--	10	--	2.1	U	10	--	2	U	2.2	U	70	J	1.9	U	790	--	1300	--	86	J
Total Volatile Organics (25)	TVO	ug/kg	--	5710	--	79.6	--	14910	--	130.76	--	41.5	--	337.8	--	356	--	8.6	--	2233	--	32.4	--	5350	--	8730	--	453	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

Table 2A – ISTR Phase 1 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				CSL-013		CSL-014		CSL-014		CSL-015		CSL-015		CSL-016		CSL-016		CSL-017		CSL-017		CSL-018		CSL-018		CSL-019		CSL-019	
Sample Depth (ft)				2.8		1.1		10.6		8		10.5		0.7		9.7		2.4		9.8		5.3		12.9		7.1		10.3	
Field Sample ID				CSL-013 (2.8)		CSL-014 (1.1FT)		CSL-014 (10.6 FT)		CSL-015 (8.0 FT)		CSL-015 (10.5 FT)		CSL-016 (0.7 FT)		CSL-016 (9.7 FT)		CSL-017 (2.4)		CSL-017 (9.8)		CSL-018 (5.3)		CSL-018 (12.9)		CSL-019 (7.1)		CSL-019 (10.3)	
Sample Date				11/12/2014		11/14/2014		11/14/2014		11/14/2014		11/14/2014		11/14/2014		11/14/2014		11/17/2014		11/17/2014		11/19/2014		11/19/2014		11/19/2014		11/19/2014	
Analyte																													
VOCs (8260C)																													
CAS No.	Unit	NAPL ICL																											
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
Ethylbenzene	100-41-4	ug/kg	59000	5000	--	1900	--	200	--	4.1	--	1.1	U	260	--	0.97	U	2.4	--	6.9	--	3.9	--	2.4	--	1	U	1.1	U
M,P-Xylene	179601-23-1	ug/kg	70000	13000	--	5000	--	490	--	11	--	2.2	U	520	--	1.9	U	0.92	J	2.4	--	1.6	J	1	J	2.1	U	2.1	U
o-Xylene	95-47-6	ug/kg	42000	4800	--	2200	--	200	--	4.5	--	2.2	U	150	--	1.9	U	2.1	U	1	J	0.92	J	2	U	2.1	U	2.1	U
Tetrachloroethene	127-18-4	ug/kg	46000	4500	--	3600	--	280	--	3.3	--	1.1	U	770	--	0.97	U	1	U	2.2	--	0.95	U	1	U	1	U	1.1	U
Toluene	108-88-3	ug/kg	48000	6200	--	3500	--	280	--	16	--	1.6	U	700	--	1	J	4.4	--	2.5	--	8.5	--	2.5	--	4.3	--	1	J
Trichloroethene	79-01-6	ug/kg	222000	1700	--	2900	--	310	--	2.5	--	1.1	U	1700	--	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
Total Target VOCs (7)	TS7VO	ug/kg	--	35200	--	19100	--	1760	--	41.4	--	0	--	4100	--	1	--	7.72	--	15	--	14.92	--	5.9	--	4.3	--	1	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	150	U	76	U	83	U	1.5	U	1.6	U	76	U	1.4	U	1.5	U	1.4	U	1.4	U	1.5	U	1.6	U	1.6	U
1,1-Dichloroethane	75-34-3	ug/kg	--	150	U	76	U	83	U	1.5	U	1.6	U	76	U	1.4	U	1.5	U	1.4	U	1.4	U	1.5	U	1.6	U	1.6	U
1,1-Dichloroethene	75-35-4	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	2.4	--	0.95	U	1	U	1	U	1.1	U
1,2-Dichloropropane	78-87-5	ug/kg	--	340	U	180	U	190	U	3.4	U	3.8	U	180	U	3.4	U	3.6	U	3.2	U	3.3	U	3.6	U	3.7	U	3.8	U
2-Butanone (MEK)	78-93-3	ug/kg	--	400	J	2000	--	630	--	53	--	7.3	J	710	--	6.6	J	4.6	J	5.1	J	45	--	24	--	39	--	3.2	J
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	870	J	940	--	95	J	28	--	11	U	2100	--	9.7	U	10	U	9.2	U	9.5	U	10	U	10	U	11	U
Acetone	67-64-1	ug/kg	--	1900	J	4000	--	850	J	83	--	13	J	1900	--	34	J	130	--	24	J	370	E	240	--	270	--	13	J
Benzene	71-43-2	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
Carbon tetrachloride	56-23-5	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
Chlorobenzene	108-90-7	ug/kg	--	97	U	44	J	49	J	0.99	U	1.1	U	48	J	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
Chlorodibromomethane	124-48-1	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	0.92	U	0.95	U	1	U	1	U	1.1	U
Chloroform	67-66-3	ug/kg	--	150	U	76	U	83	U	1.5	U	1.6	U	76	U	1.4	U	1.5	U	1.4	U	1.4	U	1.5	U	1.6	U	1.6	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	97	U	50	U	55	U	0.99	U	1.1	U	51	U	0.97	U	1	U	2.4	--	0.95	U	1	U	1	U	1.1	U
Methylene chloride	75-09-2	ug/kg	--	970	U	500	U	550	U	9.9	U	2.4	J	510	U	9.7	U	10	U	9.2	U	9.5	U	10	U	10	U	11	U
Styrene	100-42-5	ug/kg	--	880	--	520	--	54	J	2	U	2.2	U	100	U	1.9	U	2.1	U	1.8	U	1.9	U	2	U	2.1	U	2.1	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	150	U	76	U	83	U	1.5	U	1.6	U	76	U	1.4	U	1.5	U	1.4	U	1.4	U	1.5	U	1.6	U	1.6	U
Vinyl chloride	75-01-4	ug/kg	--	190	U	100	U	110	U	2	U	2.2	U	100	U	1.9	U	2.1	U	1.8	U	1.9	U	2	U	2.1	U	2.1	U
Xylenes, Total	1330-20-7	ug/kg	--	18000	--	7200	--	690	--	16	--	2.2	U	670	--	1.9	U	0.92	J	3.4	J	2.5	J	1	J	2.1	U	2.1	U
Total Volatile Organics (25)	TVO	ug/kg	--	39250	--	26604	--	3438	--	205.4	--	22.7	--	8858	--	41.6	--	142.32	--	46.5	--	429.92	--	269.9	--	313.3	--	17.2	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

Table 2A – ISTR Phase 1 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-020		CSL-020		CSL-027		CSL-027		CSL-028		CSL-028		CSL-029		CSL-029		CSL-029		CSL-029		CSL-030		CSL-030		CSL-037	
				8.2		13.3		6.4		10.1		2.5		13.5		2.1		2.1		11		15.5		6.5		12.5		7.1	
				CSL-020 (8.2)		CSL-020 (13.3)		CSL-027 (6.4)		CSL-027 (10.1)		CSL-028 (2.5)		CSL-028 (13.5)		CSL-029 (2.1)		DUP-3-11-18-14		CSL-029 (11.0)		CSL-029 (15.5)		CSL-030 (6.5)		CSL-030 (12.5)		CSL-037 (7.1 FT)	
				11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/18/2014		11/11/2014	
Analyte	CAS No.	Unit	NAPL ICL																										
VOCs (8260C)																													
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	1.1	U	1	U
Ethylbenzene	100-41-4	ug/kg	59000	46	--	2.1	--	200	--	1	U	130	--	2.3	--	25000	--	21000	--	22	--	250	--	18000	--	4	--	0.8	J
M,P-Xylene	179601-23-1	ug/kg	70000	21	--	0.84	J	52	J	2.1	U	73	J	2	--	18000	--	14000	--	18	--	190	--	44000	--	8.5	--	2.1	U
o-Xylene	95-47-6	ug/kg	42000	13	--	1.7	U	110	U	2.1	U	110	U	1	J	11000	--	9600	--	13	--	110	--	29000	--	6.3	--	2.1	U
Tetrachloroethene	127-18-4	ug/kg	46000	14	--	0.84	U	110	--	1	U	55	U	1	U	270	--	260	U	1	U	52	U	590	J	1.1	U	1	U
Toluene	108-88-3	ug/kg	48000	6.5	--	1.1	J	89	--	22	--	64	J	36	--	4400	--	4200	--	7.2	--	81	--	7100	--	27	--	1.6	U
Trichloroethene	79-01-6	ug/kg	222000	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	0.76	J	1	U
Total Target VOCs (7)	TS7VO	ug/kg	--	100.5	--	4.04	--	451	--	22	--	267	--	41.3	--	58670	--	48800	--	60.2	--	631	--	98690	--	46.56	--	0.8	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	1.1	U	1	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	1.4	U	1.2	U	85	U	1.5	U	83	U	1.5	U	390	U	390	U	1.5	U	78	U	960	U	1.6	U	1.6	U
1,1-Dichloroethane	75-34-3	ug/kg	--	1.4	U	1.2	U	85	U	1.5	U	83	U	1.5	U	390	U	390	U	1.5	U	78	U	960	U	1.6	U	1.6	U
1,1-Dichloroethene	75-35-4	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	1.1	U	1	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	6	--	1	U
1,2-Dichloropropane	78-87-5	ug/kg	--	3.3	U	2.9	U	200	U	3.6	U	190	U	3.6	U	900	U	920	U	3.6	U	180	U	2200	U	3.7	U	3.6	U
2-Butanone (MEK)	78-93-3	ug/kg	--	24	--	5.3	J	170	J	10	--	300	J	4.7	J	2300	J	3200	--	16	--	520	U	1400	J	10	J	43	--
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	9.5	U	8.4	U	570	U	10	U	550	U	10	U	2600	U	2600	U	10	U	520	U	6400	U	11	U	10	U
Acetone	67-64-1	ug/kg	--	100	--	29	J	860	J	53	--	1500	J	27	J	10000	--	13000	--	89	--	1900	U	3300	J	48	--	270	--
Benzene	71-43-2	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	1.1	U	0.83	J
Carbon tetrachloride	56-23-5	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	1.1	U	1	U
Chlorobenzene	108-90-7	ug/kg	--	0.95	U	0.84	U	46	J	1	U	48	J	1	U	260	U	260	U	1	U	45	J	480	J	1.1	U	1	U
Chlorodibromomethane	124-48-1	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	1.1	U	1	U
Chloroform	67-66-3	ug/kg	--	1.4	U	1.2	U	85	U	1.5	U	83	U	1.5	U	390	U	390	U	1.5	U	78	U	960	U	1.6	U	1.6	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	0.95	U	0.84	U	57	U	1	U	55	U	1	U	260	U	260	U	1	U	52	U	640	U	6	--	1	U
Methylene chloride	75-09-2	ug/kg	--	9.5	U	8.4	U	570	U	10	U	550	U	10	U	2600	U	2600	U	2.3	J	520	U	6400	U	11	U	10	U
Styrene	100-42-5	ug/kg	--	0.94	J	1.7	U	75	J	2.1	U	110	U	2	U	470	J	410	J	0.87	J	100	U	920	J	0.84	J	2.1	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	1.4	U	1.2	U	85	U	1.5	U	83	U	1.5	U	390	U	390	U	1.5	U	78	U	960	U	1.6	U	1.6	U
Vinyl chloride	75-01-4	ug/kg	--	1.9	U	1.7	U	110	U	2.1	U	110	U	2	U	510	U	520	U	2	U	100	U	1300	U	2.1	U	2.1	U
Xylenes, Total	1330-20-7	ug/kg	--	34	--	0.84	J	52	J	2.1	U	73	J	3	J	29000	--	24000	--	31	--	300	--	73000	--	15	--	2.1	U
Total Volatile Organics (25)	TVO	ug/kg	--	225.44	--	38.34	--	1602	--	85	--	2115	--	73	--	71440	--	65410	--	168.37	--	676	--	104790	--	111.4	--	314.63	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

Table 2A – ISTR Phase 1 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-037 11.2		CSL-037 16.7		CSL-038 3.5		CSL-038 12.5		CSL-038 18.1		CSL-039 3.2		CSL-039 11.2		CSL-039 19.3		CSL-040 4		CSL-040 12.5		CSL-040 15		Overall Average
				CSL-037 (11.2 FT)		CSL-037 (16. 7 FT)		CSL-038 (3.5)		CSL-038 (12.5)		CSL-038 (18.1)		CSL-039 (3.2 FT)		CSL-039 (11.2 FT)		CSL-039 (19.3 FT)		CSL-040 (4.0)		CSL-040 (12.5)		CSL-040 (15.0)		
				11/11/2014		11/11/2014		11/17/2014		11/17/2014		11/17/2014		11/11/2014		11/11/2014		11/11/2014		11/17/2014		11/17/2014		11/17/2014		
Analyte	CAS No.	Unit	NAPL ICL																							
VOCs (8260C)																										
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	ND
Ethylbenzene	100-41-4	ug/kg	59000	1	U	0.95	U	700	--	1.1	--	0.94	U	2.6	--	0.99	U	0.88	U	15000	--	19000	--	5.6	--	1520
M,P-Xylene	179601-23-1	ug/kg	70000	2.1	U	1.9	U	110	J	2.2	--	1.9	U	2.5	--	2	U	1.8	U	29000	--	36000	--	8.5	--	2500
o-Xylene	95-47-6	ug/kg	42000	2.1	U	1.9	U	48	J	1.2	J	1.9	U	1.2	J	2	U	1.8	U	14000	--	18000	--	4.1	--	1350
Tetrachloroethene	127-18-4	ug/kg	46000	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	310	--	1	U	251
Toluene	108-88-3	ug/kg	48000	1.4	J	1.4	U	80	J	8.8	--	1.4	U	2.4	--	1.5	U	1.3	U	8900	--	12000	--	8.8	--	771
Trichloroethene	79-01-6	ug/kg	222000	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	136
Total Target VOCs (7)	TS7VO	ug/kg	--	1.4	--	0	--	938	--	13.3	--	0	--	8.7	--	0	--	0	--	66900	--	85310	--	27	--	6500
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	ND
1,1,2-Trichloroethane	79-00-5	ug/kg	--	1.6	U	1.4	U	91	U	1.4	U	1.4	U	1.7	U	1.5	U	1.3	U	300	U	340	U	1.5	U	ND
1,1-Dichloroethane	75-34-3	ug/kg	--	1.6	U	1.4	U	91	U	1.4	U	1.4	U	1.7	U	1.5	U	1.3	U	300	U	340	U	1.5	U	ND
1,1-Dichloroethene	75-35-4	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	19.3
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	19.6
1,2-Dichloropropane	78-87-5	ug/kg	--	3.7	U	3.3	U	210	U	3.2	U	3.3	U	3.9	U	3.5	U	3.1	U	710	U	800	U	3.5	U	ND
2-Butanone (MEK)	78-93-3	ug/kg	--	32	--	15	--	1100	--	10	--	5.6	J	130	--	6.1	J	6.7	J	410	J	600	J	12	--	374
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	10	U	9.5	U	600	U	9	U	9.4	U	3.6	J	9.9	U	8.8	U	2000	U	2300	U	10	U	255
Acetone	67-64-1	ug/kg	--	130	--	63	--	8500	--	48	--	25	J	1400	J	32	J	36	--	1600	J	2300	J	54	--	2290
Benzene	71-43-2	ug/kg	--	1	U	0.95	U	96	--	0.9	U	0.94	U	0.93	J	0.99	U	0.88	U	200	U	230	U	1	U	20.9
Carbon tetrachloride	56-23-5	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	ND
Chlorobenzene	108-90-7	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	550	--	1	U	31.5
Chlorodibromomethane	124-48-1	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	ND
Chloroform	67-66-3	ug/kg	--	1.6	U	1.4	U	91	U	1.4	U	1.4	U	1.7	U	1.5	U	1.3	U	300	U	340	U	1.5	U	ND
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	1	U	0.95	U	60	U	0.9	U	0.94	U	1.1	U	0.99	U	0.88	U	200	U	230	U	1	U	19.6
Methylene chloride	75-09-2	ug/kg	--	10	U	2.2	J	600	U	9	U	9.4	U	11	U	9.9	U	8.8	U	2000	U	2300	U	10	U	193
Styrene	100-42-5	ug/kg	--	2.1	U	1.9	U	180	--	1.8	U	1.9	U	2.2	U	2	U	1.8	U	410	U	400	J	2	U	77.9
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	1.6	U	1.4	U	91	U	1.4	U	1.4	U	1.7	U	1.5	U	1.3	U	300	U	340	U	1.5	U	ND
Vinyl chloride	75-01-4	ug/kg	--	2.1	U	1.9	U	120	U	1.8	U	1.9	U	2.2	U	2	U	1.8	U	410	U	460	U	2	U	ND
Xylenes, Total	1330-20-7	ug/kg	--	2.1	U	1.9	U	160	J	3.4	J	1.9	U	3.7	J	2	U	1.8	U	43000	--	54000	--	13	--	3850
Total Volatile Organics (25)	TVO	ug/kg	--	163.4	--	80.2	--	10814	--	71.3	--	30.6	--	1543.23	--	38.1	--	42.7	--	68910	--	89160	--	93	--	9270

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-021		CSL-021		CSL-022		CSL-022		CSL-022		CSL-022A		CSL-023		CSL-023		CSL-023		CSL-024		CSL-024		CSL-024		CSL-025	
				0.2		13.5		4		4		14		4		6.6		9.9		15.2		2.3		10.4		12.9		0.5	
				CSL-021 (0.2)		CSL-021 (13.5)		CSL-022 (4.0)		DUP-4-1-5-15		CSL-022 (14.0)		CSL-022A (4.0)		CSL-023 (6.6)		CSL-023 (9.9)		CSL-023 (15.2)		CSL-024 (2.3)		CSL-024 (10.4)		CSL-024 (12.9)		CSL-025 (0.5)	
				1/13/2015		1/13/2015		1/5/2015		1/5/2015		1/5/2015		1/14/2015		1/6/2015		1/6/2015		1/6/2015		1/5/2015		1/5/2015		1/5/2015		1/6/2015	
Analyte	CAS No.	Unit	NAPL ICL																										
VOCs (8260C)																													
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	100	U	0.97	U	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	1	U	53	U	51	U	53	U	0.92	U
Ethylbenzene	100-41-4	ug/kg	59000	12000	--	8.4	--	4.7	--	4.7	--	0.9	U	400	--	41	--	170	--	23	--	70	--	680	--	150	--	7.3	--
M,P-Xylene	179601-23-1	ug/kg	70000	4400	--	3.2	--	5.3	--	5.3	--	0.63	J	630	--	78	--	260	--	39	--	150	--	1500	--	320	--	10	--
o-Xylene	95-47-6	ug/kg	42000	1900	--	2	--	1.9	J	2.1	--	1.8	U	290	--	25	--	94	--	12	--	50	J	540	--	120	--	3.6	--
Tetrachloroethene	127-18-4	ug/kg	46000	460	--	0.97	U	3.9	--	4	--	0.9	U	210	--	81	--	760	--	88	--	460	--	5000	--	1500	--	25	--
Toluene	108-88-3	ug/kg	48000	3700	--	2	--	13	--	11	--	0.92	J	360	--	53	--	240	--	95	--	150	--	1500	--	540	--	12	--
Trichloroethene	79-01-6	ug/kg	222000	370	--	0.97	U	5.4	--	4.8	--	0.9	U	55	U	40	--	460	--	84	--	180	--	2800	--	1400	--	44	--
Total Target VOCs (7)	TS7VO	ug/kg	--	22830	--	15.6	--	34.2	--	31.9	--	1.55	--	1890	--	318	--	1984	--	341	--	1060	--	12020	--	4030	--	101.9	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	100	U	0.97	U	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	1	U	53	U	51	U	53	U	0.92	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	150	U	1.4	U	1.6	U	1.5	U	1.3	U	83	U	1.6	U	70	U	1.5	U	80	U	76	U	79	U	1.4	U
1,1-Dichloroethane	75-34-3	ug/kg	--	150	U	1.4	U	1.6	U	1.5	U	1.3	U	83	U	1.6	U	70	U	1.5	U	80	U	76	U	79	U	1.4	U
1,1-Dichloroethene	75-35-4	ug/kg	--	100	U	0.97	U	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	1	U	53	U	51	U	53	U	0.92	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	100	U	2.4	--	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	2.6	--	53	U	74	--	47	J	1.7	--
1,2-Dichloropropane	78-87-5	ug/kg	--	350	U	3.4	U	3.8	U	3.4	U	3.1	U	190	U	3.7	U	160	U	3.6	U	190	U	180	U	180	U	3.2	U
2-Butanone (MEK)	78-93-3	ug/kg	--	1400	--	520	J	13	--	15	--	4.9	J	220	J	74	--	570	--	48	--	220	J	680	--	540	--	24	--
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	1000	U	28	--	11	U	9.8	U	9	U	550	U	25	--	420	J	12	--	530	U	510	U	140	J	9.2	U
Acetone	67-64-1	ug/kg	--	3400	J	380	J	58	--	69	--	9.2	J	840	J	120	--	360	J	160	--	740	J	1400	J	150	J	140	--
Benzene	71-43-2	ug/kg	--	130	--	0.97	U	5.5	--	4.8	--	0.9	U	80	--	1	U	47	U	0.76	J	53	U	51	U	53	U	0.92	U
Carbon tetrachloride	56-23-5	ug/kg	--	100	U	0.97	U	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	1	U	53	U	51	U	53	U	0.92	U
Chlorobenzene	108-90-7	ug/kg	--	100	U	0.97	U	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	1	U	53	U	51	U	53	U	0.92	U
Chlorodibromomethane	124-48-1	ug/kg	--	100	U	0.97	U	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	1	U	53	U	51	U	53	U	0.92	U
Chloroform	67-66-3	ug/kg	--	150	U	1.4	U	1.6	U	1.5	U	1.3	U	83	U	1.6	U	70	U	1.5	U	80	U	76	U	79	U	1.4	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	100	U	2.4	--	1.1	U	0.98	U	0.9	U	55	U	1	U	47	U	2.6	--	53	U	74	--	47	J	1.7	--
Methylene chloride	75-09-2	ug/kg	--	1000	U	9.7	U	11	U	9.8	U	9	U	550	U	10	U	470	U	10	U	530	U	510	U	530	U	9.2	U
Styrene	100-42-5	ug/kg	--	530	--	0.96	J	2.1	J	2.3	--	1.8	U	220	--	0.99	J	94	U	1.8	J	110	U	100	--	100	U	1.8	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	150	U	1.4	U	1.6	U	1.5	U	1.3	U	83	U	1.6	U	70	U	1.5	U	80	U	76	U	79	U	1.4	U
Vinyl chloride	75-01-4	ug/kg	--	200	U	1.9	U	2.2	U	2	U	1.8	U	110	U	2.1	U	94	U	2	U	110	U	100	U	100	U	1.8	U
Xylenes, Total	1330-20-7	ug/kg	--	6300	--	5.2	--	7.2	J	7.4	--	0.63	J	920	--	100	--	350	--	51	--	200	J	2000	--	440	--	14	--
Total Volatile Organics (25)	TVO	ug/kg	--	28290	--	946.96	--	112.8	--	123	--	15.65	--	3250	--	537.99	--	3334	--	566.16	--	2020	--	14274	--	4907	--	267.6	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).
CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

CSL-032 (Shaded Sample ID) = indicates sample was replaced by subsequent sample, and not used in Overall Average calculation

Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-025		CSL-025		CSL-026		CSL-026		CSL-026		CSL-031		CSL-031		CSL-032		CSL-032		CSL-032N		CSL-032N		CSL-032N		CSL-032N	
				13.1		15.5		6		9.2		15.2		3.8		9.5		4.1		9.6		2		10		10		15	
				CSL-025 (13.1)		CSL-025 (15.5)		CSL-026 (6.0)		CSL-026 (9.2)		CSL-026 (15.2)		CSL-031 (3.8)		CSL-031 (9.5)		CSL-032 (4.1)		CSL-032 (9.6)		CSL-032N-2		CSL-032N-10		DUPLICATE		CSL-032N-15	
				1/6/2015		1/6/2015		1/5/2015		1/5/2015		1/5/2015		1/12/2015		1/12/2015		1/12/2015		1/12/2015		2/4/2015		2/4/2015		2/4/2015		2/4/2015	
Analyte	CAS No.	Unit	NAPL ICL																										
VOCs (8260C)																													
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
Ethylbenzene	100-41-4	ug/kg	59000	13	--	1.5	U	0.84	U	0.94	U	0.94	U	42	J	510	--	48000	--	97000	--	865	--	9	--	6	--	5.3	--
M,P-Xylene	179601-23-1	ug/kg	70000	17	--	3.1	U	0.63	J	1.9	U	1.9	U	180	--	1600	--	140000	--	290000	--	2720	--	22.1	--	15.6	--	8.3	--
o-Xylene	95-47-6	ug/kg	42000	5.5	--	3.1	U	1.7	U	1.9	U	1.9	U	170	--	1100	--	63000	--	140000	--	1580	--	12	--	8.8	--	3.5	--
Tetrachloroethene	127-18-4	ug/kg	46000	48	--	1.5	U	1.4	--	0.94	U	0.94	U	53	U	100	--	19000	--	13000	--	1030	--	8.8	--	5.8	--	11.6	--
Toluene	108-88-3	ug/kg	48000	17	--	2.3	U	1.2	J	1.4	U	1.4	U	79	U	300	--	33000	--	45000	--	471	--	7.8	U	9.2	U	10.8	--
Trichloroethene	79-01-6	ug/kg	222000	69	--	1.5	U	1.9	--	0.94	U	0.94	U	53	U	54	U	1200	J	1800	--	140	U	3.1	U	3.7	U	14.5	--
Total Target VOCs (7)	TS7VO	ug/kg	--	169.5	--	0	--	5.13	--	0	--	0	--	392	--	3610	--	304200	--	586800	--	6666	--	51.9	--	36.2	--	54	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	1.3	U	2.3	U	1.3	U	1.4	U	1.4	U	79	U	81	U	2300	U	2600	U	140	U	3.1	U	3.7	U	3.5	U
1,1-Dichloroethane	75-34-3	ug/kg	--	1.3	U	2.3	U	1.3	U	1.4	U	1.4	U	79	U	81	U	2300	U	2600	U	140	U	3.1	U	3.7	U	3.5	U
1,1-Dichloroethene	75-35-4	ug/kg	--	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	3.8	--	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	ug/kg	--	3.1	U	5.4	U	3	U	3.3	U	3.3	U	180	U	190	U	5500	U	6100	U	140	U	3.1	U	3.7	U	3.5	U
2-Butanone (MEK)	78-93-3	ug/kg	--	8	J	15	U	1.9	J	9.4	U	3.7	J	410	J	300	J	11000	J	4500	J	690	U	16	U	18	U	17	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	8.9	U	15	U	8.4	U	9.4	U	9.4	U	530	U	540	U	16000	U	17000	U	340	U	7.8	U	9.2	U	8.7	U
Acetone	67-64-1	ug/kg	--	57	--	3.5	J	17	J	3.1	J	39	--	1800	J	770	J	10000	J	62000	U	2450	--	16	U	18	U	17	U
Benzene	71-43-2	ug/kg	--	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1100	J	1200	J	34	U	0.78	U	0.92	U	0.87	U
Carbon tetrachloride	56-23-5	ug/kg	--	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
Chlorobenzene	108-90-7	ug/kg	--	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
Chlorodibromomethane	124-48-1	ug/kg	--	0.89	U	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
Chloroform	67-66-3	ug/kg	--	1.3	U	2.3	U	1.3	U	1.4	U	1.4	U	79	U	81	U	2300	U	2600	U	140	U	3.1	U	3.7	U	3.5	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	3.8	--	1.5	U	0.84	U	0.94	U	0.94	U	53	U	54	U	1600	U	1700	U	140	U	3.1	U	3.7	U	3.5	U
Methylene chloride	75-09-2	ug/kg	--	8.9	U	15	U	8.4	U	9.4	U	9.4	U	530	U	540	U	16000	U	17000	U	140	U	3.1	U	3.7	U	3.5	U
Styrene	100-42-5	ug/kg	--	0.67	J	3.1	U	1.7	U	1.9	U	1.9	U	100	U	110	U	22000	--	56000	--	340	U	7.8	U	9.2	U	8.7	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	1.3	U	2.3	U	1.3	U	1.4	U	1.4	U	79	U	81	U	2300	U	2600	U	140	U	3.1	U	3.7	U	3.5	U
Vinyl chloride	75-01-4	ug/kg	--	1.8	U	3.1	U	1.7	U	1.9	U	1.9	U	100	U	110	U	3100	U	3500	U	140	U	3.1	U	3.7	U	3.5	U
Xylenes, Total	1330-20-7	ug/kg	--	23	--	3.1	U	0.63	J	1.9	U	1.9	U	350	--	2700	--	200000	--	430000	--	4300	--	34.1	--	24.4	--	11.8	--
Total Volatile Organics (25)	TVO	ug/kg	--	238.97	--	3.5	--	24.03	--	3.1	--	42.7	--	2602	--	4680	--	348300	--	648500	--	9116	--	51.9	--	36.2	--	54	--

Notes:

U = Analyte not detected above the laboratory reporting limit

J = Analyte result is estimated

E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

NAPL ICL = Interim NAPL Cleanup Levels

Bold = Analyte detected above the laboratory reporting limit

Shaded Cell = Analyte detected above the NAPL ICL

Total VOC calculations based on Non-Detect = 0

Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).

CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

CSL-032 (Shaded Sample ID) = indicates sample was replaced by subsequent sample, and not used in Overall Average calculation

Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				CSL-032S		CSL-032S		CSL-032S		CSL-032S		CSL-032S		CSL-033		CSL-033		CSL-033		CSL-033A		CSL-033N		CSL-033N		CSL-033N		CSL-033S	
Sample Depth (ft)				2		2		2		10		13		2.1		11.8		14.5		2.1		2		10		15		2	
Field Sample ID				CSL-032S-2		CSL-032S-R-2		DUPLICATE		CSL-032S-10		CSL-032S-13		CSL-033 (2.1)		CSL-033 (11.8)		CSL-033 (14.5)		CSL-033A (2.1)		CSL-033N-2		CSL-033N-10		CSL-033N-15		CSL-033S-2	
Sample Date				2/4/2015		2/17/2015		2/17/2015		2/4/2015		2/4/2015		1/6/2015		1/6/2015		1/6/2015		1/14/2015		2/3/2015		2/3/2015		2/3/2015		2/3/2015	
Analyte																													
VOCs (8260C)																													
CAS No.	Unit	NAPL ICL																											
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	1	U	130	U	170	U	2.9	U	3.1	U	3.6	U
Ethylbenzene	100-41-4	ug/kg	59000	64700	--	11900	--	14100	--	242	--	4	U	15000	--	350	--	17	--	4600	--	6470	--	2.9	U	3.1	U	21.5	--
M,P-Xylene	179601-23-1	ug/kg	70000	102000	--	28700	--	33000	--	355	--	4	U	76000	--	710	--	31	--	17000	--	28500	--	2.9	U	3.1	U	57.5	--
o-Xylene	95-47-6	ug/kg	42000	47100	--	14500	--	18600	--	146	--	4	U	32000	--	250	--	13	--	5900	--	19400	--	2.9	U	3.1	U	31	--
Tetrachloroethene	127-18-4	ug/kg	46000	88700	--	4590	--	4090	--	253	--	4	U	7900	--	230	--	9.7	--	4300	--	990	--	2.9	U	3.1	U	35.5	--
Toluene	108-88-3	ug/kg	48000	36100	--	2790	--	3870	--	181	--	9.9	U	5900	--	240	--	12	--	2500	--	678	--	7.2	U	7.7	U	47.8	--
Trichloroethene	79-01-6	ug/kg	222000	4530	--	330	U	180	U	6.1	--	4	U	440	J	230	--	11	--	410	--	232	--	2.9	U	3.1	U	4.1	--
Total Target VOCs (7)	TS7VO	ug/kg	--	343130	--	62480	--	73660	--	1183.1	--	0	--	137240	--	2010	--	93.7	--	34710	--	56270	--	0	--	0	--	197.4	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	1	U	130	U	170	U	2.9	U	3.1	U	3.6	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	770	U	70	U	1.5	U	190	U	170	U	2.9	U	3.1	U	3.6	U
1,1-Dichloroethane	75-34-3	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	770	U	70	U	1.5	U	190	U	170	U	2.9	U	3.1	U	3.6	U
1,1-Dichloroethene	75-35-4	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	1	U	130	U	170	U	2.9	U	3.1	U	3.6	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	510	U	47	U	4.2	--	130	U	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	1800	U	160	U	3.6	U	440	U	170	U	2.9	U	3.1	U	3.6	U
2-Butanone (MEK)	78-93-3	ug/kg	--	1500	U	1600	U	910	U	20	U	20	U	1800	J	190	J	180	--	1400	--	860	U	14	U	15	U	18	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	730	U	810	U	460	--	49	--	9.9	U	5100	U	470	U	21	--	1300	U	430	U	7.2	U	7.7	U	8.9	U
Acetone	67-64-1	ug/kg	--	1500	U	1600	U	910	U	20	U	20	U	4200	J	110	J	200	--	3700	J	860	U	14	U	15	U	18	U
Benzene	71-43-2	ug/kg	--	346	--	92.1	--	159	--	5.2	--	0.99	U	510	U	47	U	1.7	--	130	U	43	U	0.72	U	0.77	U	1	--
Carbon tetrachloride	56-23-5	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	1	U	130	U	170	U	2.9	U	3.1	U	3.6	U
Chlorobenzene	108-90-7	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	1	U	130	U	170	U	2.9	U	3.1	U	3.6	U
Chlorodibromomethane	124-48-1	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	1	U	130	U	170	U	2.9	U	3.1	U	3.6	U
Chloroform	67-66-3	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	770	U	70	U	1.5	U	190	U	170	U	2.9	U	3.1	U	3.6	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	510	U	47	U	4.2	--	130	U	170	U	2.9	U	3.1	U	3.6	U
Methylene chloride	75-09-2	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	5100	U	470	U	10	U	1300	U	170	U	2.9	U	3.1	U	3.6	U
Styrene	100-42-5	ug/kg	--	5130	--	810	U	1170	--	88	--	9.9	U	1100	--	78	J	4.5	--	410	--	430	U	7.2	U	7.7	U	8.9	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	770	U	70	U	1.5	U	190	U	170	U	2.9	U	3.1	U	3.6	U
Vinyl chloride	75-01-4	ug/kg	--	290	U	330	U	180	U	4.1	U	4	U	1000	U	93	U	2	U	250	U	170	U	2.9	U	3.1	U	3.6	U
Xylenes, Total	1330-20-7	ug/kg	--	149000	--	43100	--	51500	--	501	--	4	--	110000	--	960	--	44	--	23000	--	47900	--	2.9	U	3.1	U	88.5	--
Total Volatile Organics (25)	TVO	ug/kg	--	348606	--	62572.1	--	75449	--	1325.3	--	0	--	144340	--	2388	--	505.1	--	40220	--	56270	--	0	--	0	--	198.4	--

Notes:

U = Analyte not detected above the laboratory reporting limit

J = Analyte result is estimated

E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

NAPL ICL = Interim NAPL Cleanup Levels

Bold = Analyte detected above the laboratory reporting limit

Shaded Cell = Analyte detected above the NAPL ICL

Total VOC calculations based on Non-Detect = 0

Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).

CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

CSL-032 (Shaded Sample ID) = indicates sample was replaced by subsequent sample, and not used in Overall Average calculation

Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-033S		CSL-033S		CSL-034		CSL-034		CSL-034		CSL-034		CSL-034A		CSL-034N		CSL-034N		CSL-034N		CSL-034S		CSL-034S		CSL-034S	
				10		15		0.3		0.3		12.5		16.3		0.3		2		10		15		2		9.5		15	
				CSL-033S-10		CSL-033S-15		CSL-034 (0.3)		DUP-5-1-7-15		CSL-034 (12.5)		CSL-034 (16.3)		CSL-034A (0.3)		CSL-034N-2		CSL-034N-10		CSL-034N-15		CSL-034S-2		CSL-034S-9.5		CSL-034S-15	
				2/3/2015		2/3/2015		1/7/2015		1/7/2015		1/7/2015		1/7/2015		1/14/2015		2/4/2015		2/4/2015		2/4/2015		2/4/2015		2/3/2015		2/3/2015	
Analyte	CAS No.	Unit	NAPL ICL																										
VOCs (8260C)																													
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	3.2	U	3.5	U	2800	U	1800	U	540	U	51	U	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Ethylbenzene	100-41-4	ug/kg	59000	3.5	--	5	--	450000	--	310000	--	13000	--	1100	--	31000	--	8600	--	13.6	--	2.7	U	160	U	4.5	U	4.1	U
M,P-Xylene	179601-23-1	ug/kg	70000	10.7	--	10.8	--	2100000	--	1500000	--	47000	--	4000	--	130000	--	26900	--	46.5	--	2.7	U	395	--	5.4	--	4.1	U
o-Xylene	95-47-6	ug/kg	42000	7	--	4.3	--	720000	--	490000	--	17000	--	1500	--	63000	--	13700	--	18.7	--	2.7	U	160	U	4.5	U	4.1	U
Tetrachloroethene	127-18-4	ug/kg	46000	3.2	U	12.2	--	27000	--	20000	--	6000	--	720	--	9100	--	3630	--	5.2	--	2.7	U	160	U	4.5	U	4.1	U
Toluene	108-88-3	ug/kg	48000	8.1	U	8.7	U	44000	--	30000	--	3900	--	480	--	6000	--	2820	--	9.7	U	6.8	U	400	U	11	U	10	U
Trichloroethene	79-01-6	ug/kg	222000	3.2	U	5.6	--	11000	--	6100	--	1100	--	300	--	1900	--	251	--	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Total Target VOCs (7)	TS7VO	ug/kg	--	21.2	--	37.9	--	3352000	--	2356100	--	88000	--	8100	--	241000	--	55901	--	84	--	0	--	395	--	5.4	--	0	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	3.2	U	3.5	U	2800	U	1800	U	540	U	51	U	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	3.2	U	3.5	U	4100	U	2800	U	810	U	77	U	1400	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
1,1-Dichloroethane	75-34-3	ug/kg	--	3.2	U	3.5	U	4100	U	2800	U	810	U	77	U	1400	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
1,1-Dichloroethene	75-35-4	ug/kg	--	3.2	U	3.5	U	2800	U	1800	U	540	U	51	U	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	--	--	--	--	2800	U	1800	U	540	U	37	J	940	U	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	ug/kg	--	3.2	U	3.5	U	9600	U	6400	U	1900	U	180	U	3300	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
2-Butanone (MEK)	78-93-3	ug/kg	--	16	U	17	U	28000	U	18000	U	5400	U	330	J	2400	J	760	U	19	U	14	U	810	U	23	U	21	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	8.1	U	8.7	U	28000	U	18000	U	5400	U	510	U	9400	U	380	U	9.7	U	6.8	U	400	U	11	U	10	U
Acetone	67-64-1	ug/kg	--	16	U	17	U	99000	U	66000	U	20000	U	140	J	34000	U	760	U	19	U	14	U	810	U	23	U	21	U
Benzene	71-43-2	ug/kg	--	0.81	U	0.87	U	2800	U	1800	U	540	U	51	U	940	U	38	U	0.97	U	0.68	U	40	U	1.1	U	1	U
Carbon tetrachloride	56-23-5	ug/kg	--	3.2	U	3.5	U	2800	U	1800	U	540	U	51	U	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Chlorobenzene	108-90-7	ug/kg	--	3.2	U	3.5	U	2800	U	1800	U	540	U	51	U	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Chlorodibromomethane	124-48-1	ug/kg	--	3.2	U	3.5	U	2800	U	1800	U	540	U	51	U	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Chloroform	67-66-3	ug/kg	--	3.2	U	3.5	U	4100	U	2800	U	810	U	77	U	1400	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	3.2	U	3.5	U	2800	U	1800	U	540	U	37	J	940	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Methylene chloride	75-09-2	ug/kg	--	3.2	U	3.5	U	28000	U	18000	U	5400	U	510	U	9400	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Styrene	100-42-5	ug/kg	--	8.1	U	8.7	U	6400	--	5600	--	1100	U	100	U	700	J	380	U	9.7	U	6.8	U	400	U	11	U	10	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	3.2	U	3.5	U	4100	U	2800	U	810	U	77	U	1400	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Vinyl chloride	75-01-4	ug/kg	--	3.2	U	3.5	U	5500	U	3700	U	1100	U	100	U	1900	U	150	U	3.9	U	2.7	U	160	U	4.5	U	4.1	U
Xylenes, Total	1330-20-7	ug/kg	--	17.8	--	15.1	--	2800000	--	2000000	--	64000	--	5500	--	190000	--	40600	--	65.2	--	2.7	U	524	--	8.5	--	4.1	U
Total Volatile Organics (25)	TVO	ug/kg	--	21.2	--	37.9	--	3358400	--	2361700	--	88000	--	8607	--	244100	--	55901	--	84	--	0	--	395	--	5.4	--	0	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).
CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

CSL-032 (Shaded Sample ID) = indicates sample was replaced by subsequent sample, and not used in Overall Average calculation

Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-035		CSL-035		CSL-035		CSL-036		CSL-036		CSL-041		CSL-041		CSL-041		CSL-041		CSL-042		CSL-042		CSL-042		CSL-043		CSL-043	
				6		9.7		15.7		1.6		14.8		2.5		2.5		8.6		19		3.3		8.5		17.8		1.5		8.7	
				CSL-035 (6.0)		CSL-035 (9.7)		CSL-035 (15.7)		CSL-036 (1.6)		CSL-036 (14.8)		CSL-041 (2.5)		DUP-6-1-12-15		CSL-041 (8.6)		CSL-041 (19.0)		CSL-042 (3.3)		CSL-042 (8.5)		CSL-042 (17.8)		CSL-043 (1.5)		CSL-043 (8.7)	
				1/7/2015		1/7/2015		1/7/2015		1/6/2015		1/6/2015		1/12/2015		1/12/2015		1/12/2015		1/12/2015		1/8/2015		1/8/2015		1/8/2015		1/8/2015		1/8/2015	
Analyte VOCs (8260C)	CAS No.	Unit	NAPL ICL																												
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	57	U	54	U	1	U	1	U	0.97	U	1.1	U	1	U	1	U	1	U	0.89	U	1	U	0.86	U	1	U	1.1	U
Ethylbenzene	100-41-4	ug/kg	59000	630	--	64	--	1.6	--	3.5	--	1.4	--	4.2	--	6	--	29	--	1	U	3.6	--	5.2	--	0.86	U	12	--	4.4	--
M,P-Xylene	179601-23-1	ug/kg	70000	1100	--	140	--	4.4	--	3.9	--	0.8	J	3	--	4.3	--	22	--	2	U	7	--	4.1	--	1.7	U	33	--	7	--
o-Xylene	95-47-6	ug/kg	42000	590	--	64	J	2.3	--	2.5	--	1.9	U	1.8	J	2.5	--	13	--	2	U	2.9	--	1.5	J	1.7	U	16	--	2.7	--
Tetrachloroethene	127-18-4	ug/kg	46000	200	--	58	--	1.1	--	1.6	--	0.94	J	1.1	U	1	U	2.9	--	1	U	8	--	3.5	--	0.86	U	35	--	10	--
Toluene	108-88-3	ug/kg	48000	280	--	82	U	1.5	J	1.7	--	0.81	J	2.4	--	3.4	--	7.9	--	1.5	U	13	--	4	--	1.3	U	29	--	6.2	--
Trichloroethene	79-01-6	ug/kg	222000	69	--	38	J	2.9	--	1	U	0.69	J	1.1	U	1	U	1	U	1	U	3.2	--	2.2	--	0.86	U	14	--	6.1	--
Total Target VOCs (7)	TS7VO	ug/kg	--	2869	--	364	--	13.8	--	13.2	--	4.64	--	11.4	--	16.2	--	74.8	--	0	--	37.7	--	20.5	--	0	--	139	--	36.4	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	57	U	54	U	1	U	1	U	0.97	U	1.1	U	1	U	1	U	1	U	0.89	U	1	U	0.86	U	1	U	1.1	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	86	U	82	U	1.6	U	1.5	U	1.4	U	1.6	U	1.6	U	1.5	U	1.5	U	1.3	U	1.6	U	1.3	U	1.5	U	1.7	U
1,1-Dichloroethane	75-34-3	ug/kg	--	86	U	82	U	1.6	U	1.5	U	1.4	U	1.6	U	1.6	U	1.5	U	1.5	U	1.3	U	1.6	U	1.3	U	1.5	U	1.7	U
1,1-Dichloroethene	75-35-4	ug/kg	--	57	U	54	U	1	U	1	U	0.97	U	1.1	U	1	U	1	U	1	U	0.89	U	1	U	0.86	U	1	U	1.1	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	57	U	54	U	1	U	1	U	1.2	--	1.1	U	1	U	1	U	1	U	0.83	J	2.3	--	0.86	U	2.5	--	0.93	J
1,2-Dichloropropane	78-87-5	ug/kg	--	200	U	190	U	3.6	U	3.5	U	3.4	U	3.7	U	3.7	U	3.5	U	3.5	U	3.1	U	3.7	U	3	U	3.5	U	3.9	U
2-Butanone (MEK)	78-93-3	ug/kg	--	240	J	210	J	20	--	170	--	5.9	J	36	--	37	--	71	--	6.9	J	740	--	23	--	3	J	660	--	35	--
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	570	U	540	U	6.5	J	3.9	J	9.7	U	11	U	2.5	J	6.2	J	10	U	8.9	U	10	U	8.6	U	10	U	11	U
Acetone	67-64-1	ug/kg	--	390	J	250	J	52	--	1000	E	18	J	230	--	240	--	360	E	28	J	3600	--	110	--	8.1	J	2900	--	120	--
Benzene	71-43-2	ug/kg	--	57	U	54	U	1	U	1.4	--	0.97	U	2.7	--	3.8	--	4.2	--	1	U	0.67	J	1	U	0.86	U	2.2	--	1.1	U
Carbon tetrachloride	56-23-5	ug/kg	--	57	U	54	U	1	U	1	U	0.97	U	1.1	U	1	U	1	U	1	U	0.89	U	1	U	0.86	U	1	U	1.1	U
Chlorobenzene	108-90-7	ug/kg	--	57	U	54	U	1	U	1	U	0.97	U	1.1	U	1	U	1	U	1	U	0.89	U	1	U	0.86	U	1	U	1.1	U
Chlorodibromomethane	124-48-1	ug/kg	--	57	U	54	U	1	U	1	U	0.97	U	1.1	U	1	U	1	U	1	U	0.89	U	1	U	0.86	U	1	U	1.1	U
Chloroform	67-66-3	ug/kg	--	86	U	82	U	1.6	U	1.5	U	1.4	U	1.6	U	1.6	U	1.5	U	1.5	U	1.3	U	1.6	U	1.3	U	1.5	U	1.7	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	57	U	54	U	1	U	1	U	1.2	--	1.1	U	1	U	1	U	1	U	0.83	J	2.3	--	0.86	U	2.5	--	0.93	J
Methylene chloride	75-09-2	ug/kg	--	570	U	540	U	10	U	10	U	9.7	U	11	U	10	U	10	U	10	U	8.9	U	10	U	8.6	U	10	U	11	U
Styrene	100-42-5	ug/kg	--	110	U	110	U	2.1	U	2	U	1.9	U	0.9	J	1.2	J	3.9	--	2	U	1.8	U	1.5	J	1.7	U	2	U	2.1	J
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	86	U	82	U	1.6	U	1.5	U	1.4	U	1.6	U	1.6	U	1.5	U	1.5	U	1.3	U	1.6	U	1.3	U	1.5	U	1.7	U
Vinyl chloride	75-01-4	ug/kg	--	110	U	110	U	2.1	U	2	U	1.9	U	2.1	U	2.1	U	2	U	2	U	1.8	U	2.1	U	1.7	U	2	U	2.2	U
Xylenes, Total	1330-20-7	ug/kg	--	1700	--	200	J	6.7	--	6.4	--	0.8	J	4.8	J	6.8	--	35	--	2	U	9.9	--	5.6	J	1.7	U	49	--	9.7	--
Total Volatile Organics (25)	TVO	ug/kg	--	3499	--	824	--	92.3	--	1188.5	--	29.74	--	281	--	300.7	--	520.1	--	34.9	--	4379.2	--	157.3	--	11.1	--	3703.7	--	194.43	--

Notes:

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- J** = Analyte result is estimated
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- ug/kg** = micrograms per kilogram
- VOCs** = volatile organic compounds
- NAPL ICL** = Interim NAPL Cleanup Levels
- Bold** = Analyte detected above the laboratory reporting limit
- Shaded Cell** = Analyte detected above the NAPL ICL

Total VOC calculations based on Non-Detect = 0

Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).

CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

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Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-043		CSL-044		CSL-044		CSL-044		CSL-045		CSL-045		CSL-045		CSL-046		CSL-046		CSL-046		CSL-047		CSL-047		CSL-047		CSL-047	
				12.5		7.1		10.2		18		4.3		13.8		16.5		5.3		8		15		4.6		13		17.7		17.7	
				CSL-043 (12.5)		CSL-044 (7.1)		CSL-044 (10.2)		CSL-044 (18.0)		CSL-045 (4.3)		CSL-045 (13.8)		CSL-045 (16.5)		CSL-046 (5.3)		CSL-046 (8.0)		CSL-046 (15.0)		CSL-047 (4.6)		CSL-047 (13.0)		CSL-047 (17.7)		DUP-7-1-13-15	
				1/8/2015		1/8/2015		1/8/2015		1/8/2015		1/7/2015		1/7/2015		1/7/2015		1/7/2015		1/7/2015		1/7/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015	
Analyte																															
VOCs (8260C)																															
CAS No.	Unit	NAPL ICL																													
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	0.98	U	76	U	1	U	0.98	U	0.89	U	0.97	U	0.83	U	0.97	U	1	U	0.92	U	0.98	U	0.91	U	0.93	U	0.89	U
Ethylbenzene	100-41-4	ug/kg	59000	7.6	--	1700	--	9.2	--	0.98	U	1.9	--	0.97	U	1.2	--	0.83	J	1.5	--	1.9	--	0.98	U	0.91	U	0.93	U	0.64	J
M,P-Xylene	179601-23-1	ug/kg	70000	4.1	--	2900	--	22	--	2	U	3.9	--	1.4	J	2.7	--	1.3	J	2.8	--	2.8	--	2	U	0.84	J	1.1	J	1.3	J
o-Xylene	95-47-6	ug/kg	42000	1.5	J	1000	--	8.4	--	2	U	1.7	J	0.69	J	1.3	J	1.9	U	1.4	J	1.4	J	2	U	1.8	U	0.84	J	0.89	J
Tetrachloroethene	127-18-4	ug/kg	46000	5.2	--	4000	--	39	--	0.9	J	3.1	--	0.73	J	1.8	--	0.97	U	1.2	--	1	--	0.98	U	1.4	--	1.7	--	1.7	--
Toluene	108-88-3	ug/kg	48000	4.4	--	2200	--	18	--	1.1	J	2.4	--	0.68	J	3.4	--	1.2	J	1	J	1.3	J	1.5	U	1.6	--	2	--	2.3	--
Trichloroethene	79-01-6	ug/kg	222000	7.8	--	4600	--	23	--	1.9	--	1.3	--	1.1	--	4.4	--	0.97	U	1	U	0.92	U	0.98	U	4.7	--	3.6	--	4.4	--
Total Target VOCs (7)	TS7VO	ug/kg	--	30.6	--	16400	--	119.6	--	3.9	--	14.3	--	4.6	--	14.8	--	3.33	--	7.9	--	8.4	--	0	--	8.54	--	9.24	--	11.23	--
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	0.98	U	76	U	1	U	0.98	U	0.89	U	0.97	U	0.83	U	0.97	U	1	U	0.92	U	0.98	U	0.91	U	0.93	U	0.89	U
1,1,2-Trichloroethane	79-00-5	ug/kg	--	1.5	U	110	U	1.5	U	1.5	U	1.3	U	1.4	U	1.2	U	1.4	U	1.5	U	1.4	U	1.5	U	1.4	U	1.4	U	1.3	U
1,1-Dichloroethane	75-34-3	ug/kg	--	1.5	U	110	U	1.5	U	1.5	U	1.3	U	1.4	U	1.2	U	1.4	U	1.5	U	1.4	U	1.5	U	1.4	U	1.4	U	1.3	U
1,1-Dichloroethene	75-35-4	ug/kg	--	0.98	U	76	U	1	U	0.98	U	0.89	U	0.97	U	0.83	U	0.97	U	1	U	0.92	U	0.98	U	0.91	U	0.93	U	0.89	U
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	1.8	--	750	--	0.73	J	0.98	U	0.89	U	0.97	U	2.1	--	0.97	U	1	U	1.1	--	0.98	U	1.1	--	2.4	--	1.6	--
1,2-Dichloropropane	78-87-5	ug/kg	--	3.4	U	260	U	3.6	U	3.4	U	3.1	U	3.4	U	2.9	U	3.4	U	3.5	U	3.2	U	3.4	U	3.2	U	3.2	U	3.1	U
2-Butanone (MEK)	78-93-3	ug/kg	--	47	--	1500	--	13	--	8.2	J	190	--	5.9	J	5.8	J	42	--	29	--	27	--	43	--	8.8	J	53	--	26	--
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	9.8	U	760	U	10	U	9.8	U	8.9	U	9.7	U	8.3	U	9.7	U	10	U	9.2	U	9.8	U	9.1	U	9.3	U	8.9	U
Acetone	67-64-1	ug/kg	--	230	--	2600	J	52	--	40	--	1100	E	27	J	24	J	160	--	220	--	160	--	250	--	46	--	340	E	180	--
Benzene	71-43-2	ug/kg	--	0.98	U	69	J	1	U	0.98	U	1.1	--	0.97	U	0.83	U	0.97	U	1	U	0.67	J	0.98	U	0.91	U	0.93	U	0.89	U
Carbon tetrachloride	56-23-5	ug/kg	--	0.98	U	76	U	1	U	0.98	U	0.89	U	0.97	U	0.83	U	0.97	U	1	U	0.92	U	0.98	U	0.91	U	0.93	U	0.89	U
Chlorobenzene	108-90-7	ug/kg	--	0.98	U	76	U	1	U	0.98	U	0.89	U	0.97	U	0.83	U	0.97	U	1	U	0.92	U	0.98	U	0.91	U	0.93	U	0.89	U
Chlorodibromomethane	124-48-1	ug/kg	--	0.98	U	76	U	1	U	0.98	U	0.89	U	0.97	U	0.83	U	0.97	U	1	U	0.92	U	0.98	U	0.91	U	0.93	U	0.89	U
Chloroform	67-66-3	ug/kg	--	1.5	U	110	U	1.5	U	1.5	U	1.3	U	1.4	U	1.2	U	1.4	U	1.5	U	1.4	U	1.5	U	1.4	U	1.4	U	1.3	U
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	1.8	--	750	--	0.73	J	0.98	U	0.89	U	0.97	U	2.1	--	0.97	U	1	U	1.1	--	0.98	U	1.1	--	2.4	--	1.6	--
Methylene chloride	75-09-2	ug/kg	--	9.8	U	760	U	10	U	9.8	U	8.9	U	9.7	U	8.3	U	9.7	U	10	U	9.2	U	9.8	U	9.1	U	9.3	U	8.9	U
Styrene	100-42-5	ug/kg	--	1.3	J	220	--	2	--	2	U	1.8	U	1.9	U	1.6	U	1.9	U	2	U	1.8	U	2	U	1.8	U	1.8	U	1.8	U
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	1.5	U	110	U	1.5	U	1.5	U	1.3	U	1.4	U	1.2	U	1.4	U	1.5	U	1.4	U	1.5	U	1.4	U	1.4	U	1.3	U
Vinyl chloride	75-01-4	ug/kg	--	2	U	150	U	2	U	2	U	1.8	U	1.9	U	1.6	U	1.9	U	2	U	1.8	U	2	U	1.8	U	1.8	U	1.8	U
Xylenes, Total	1330-20-7	ug/kg	--	5.6	J	3900	--	30	--	2	U	5.6	J	2.1	J	4	J	1.3	J	4.2	J	4.2	J	2	U	0.84	J	1.9	J	2.2	J
Total Volatile Organics (25)	TVO	ug/kg	--	310.7	--	21539	--	187.33	--	52.1	--	1305.4	--	37.5	--	46.7	--	205.33	--	256.9	--	197.17	--	293	--	64.44	--	404.64	--	218.83	--

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
NAPL ICL = Interim NAPL Cleanup Levels
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the NAPL ICL
Total VOC calculations based on Non-Detect = 0
Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).
CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

CSL-032 (Shaded Sample ID) = indicates sample was replaced by subsequent sample, and not used in Overall Average calculation

Table 2B – ISTR Phase 2 Confirmation Soil Sample Results
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Depth (ft) Field Sample ID Sample Date				CSL-048		CSL-048		CSL-048		CSL-049		CSL-049		CSL-049		CSL-050		CSL-050		CSL-050		Overall Average
				0.2		12.9		15.6		0.4		13.2		19		7.5		12.7		20		
				CSL-048 (0.2)		CSL-048 (12.9)		CSL-048 (15.6)		CSL-049 (0.4)		CSL-049 (13.2)		CSL-049 (19.0)		CSL-050 (7.5)		CSL-050 (12.7)		CSL-050 (20.0)		
				1/13/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015		
Analyte VOCs (8260C)	CAS No.	Unit	NAPL ICL																			
1,1,1-Trichloroethane	71-55-6	ug/kg	221000	1.1	U	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	ND
Ethylbenzene	100-41-4	ug/kg	59000	4.9	--	0.86	U	0.86	U	2.8	--	0.92	U	0.86	U	0.98	U	6.5	--	0.9	U	830
M,P-Xylene	179601-23-1	ug/kg	70000	11	--	1.7	U	1.7	U	4.9	--	0.97	J	1.7	U	2	U	16	--	1.8	U	2210
o-Xylene	95-47-6	ug/kg	42000	4.1	--	1.7	U	1.7	U	2.3	--	1.8	U	1.7	U	2	U	6.8	--	1.8	U	1040
Tetrachloroethene	127-18-4	ug/kg	46000	16	--	0.86	U	0.86	U	1.3	--	0.92	U	0.86	U	0.98	U	15	--	0.9	U	456
Toluene	108-88-3	ug/kg	48000	20	--	1.3	U	1.3	U	1.8	--	1.4	U	1.3	U	1.5	U	10	--	1.3	U	313
Trichloroethene	79-01-6	ug/kg	222000	54	--	0.86	U	0.86	U	0.77	J	0.92	U	0.86	U	0.98	U	18	--	0.76	J	173
Total Target VOCs (7)	TS7VO	ug/kg	--	110	--	0	--	0	--	13.87	--	0.97	--	0	--	0	--	72.3	--	0.76	--	5010
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	1.1	U	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	ND
1,1,2-Trichloroethane	79-00-5	ug/kg	--	1.6	U	1.3	U	1.3	U	1.4	U	1.4	U	1.3	U	1.5	U	1.4	U	1.3	U	ND
1,1-Dichloroethane	75-34-3	ug/kg	--	1.6	U	1.3	U	1.3	U	1.4	U	1.4	U	1.3	U	1.5	U	1.4	U	1.3	U	ND
1,1-Dichloroethene	75-35-4	ug/kg	--	1.1	U	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	ND
1,2-Dichloroethene, Total	540-59-0	ug/kg	--	3.6	--	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	1.7	--	0.9	U	26.3
1,2-Dichloropropane	78-87-5	ug/kg	--	3.7	U	3	U	3	U	3.3	U	3.2	U	3	U	3.4	U	3.2	U	3.1	U	0
2-Butanone (MEK)	78-93-3	ug/kg	--	23	--	3	J	3	J	76	--	21	--	8.6	U	11	--	15	--	2.7	J	217
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	--	11	U	8.6	U	8.6	U	3.1	J	9.2	U	8.6	U	9.8	U	9.1	U	9	U	113
Acetone	67-64-1	ug/kg	--	130	--	12	J	11	J	400	E	110	--	1.9	J	53	--	79	--	23	J	575
Benzene	71-43-2	ug/kg	--	0.87	J	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	14.2
Carbon tetrachloride	56-23-5	ug/kg	--	1.1	U	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	ND
Chlorobenzene	108-90-7	ug/kg	--	1.1	U	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	ND
Chlorodibromomethane	124-48-1	ug/kg	--	1.1	U	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	0.91	U	0.9	U	ND
Chloroform	67-66-3	ug/kg	--	1.6	U	1.3	U	1.3	U	1.4	U	1.4	U	1.3	U	1.5	U	1.4	U	1.3	U	ND
cis-1,2-Dichloroethene	156-59-2	ug/kg	--	3.6	--	0.86	U	0.86	U	0.95	U	0.92	U	0.86	U	0.98	U	1.7	--	0.9	U	26.6
Methylene chloride	75-09-2	ug/kg	--	11	U	8.6	U	8.6	U	9.5	U	9.2	U	8.6	U	9.8	U	9.1	U	9	U	ND
Styrene	100-42-5	ug/kg	--	2.1	U	1.7	U	1.7	U	1.9	U	1.8	U	1.7	U	2	U	1.8	U	1.8	U	50.6
trans-1,2-Dichloroethene	156-60-5	ug/kg	--	1.6	U	1.3	U	1.3	U	1.4	U	1.4	U	1.3	U	1.5	U	1.4	U	1.3	U	ND
Vinyl chloride	75-01-4	ug/kg	--	2.1	U	1.7	U	1.7	U	1.9	U	1.8	U	1.7	U	2	U	1.8	U	1.8	U	ND
Xylenes, Total	1330-20-7	ug/kg	--	15	--	1.7	U	1.7	U	7.2	--	0.97	J	1.7	U	2	U	23	--	1.8	U	3250
Total Volatile Organics (25)	TVO	ug/kg	--	267.47	--	15	--	14	--	492.97	--	131.97	--	1.9	--	64	--	168	--	26.46	--	5620

Notes:

U = Analyte not detected above the laboratory reporting limit

J = Analyte result is estimated

E = Result should be considered estimated because the concentration exceeded the level of calibration. This analyte was not detected in the high-level screen analysis

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

NAPL ICL = Interim NAPL Cleanup Levels

Bold = Analyte detected above the laboratory reporting limit

Shaded Cell = Analyte detected above the NAPL ICL

Total VOC calculations based on Non-Detect = 0

Overall Average of each analyte is calculated using normal samples. Field duplicates excluded from averaging. Averaging based on Non-Detect = 1/2 Reporting Limit

CSL-043 (1.5), CSL-042 (3.3), CSL-021 (13.5) were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. Results reported in this summary table are from the Low Level Methanol analysis unless the compound exceeded the calibration on the initial Low Level analysis. These results are from the High Level analysis (2-Butanone (MEK) and Acetone).

CSL-022 (4.0') and DUP-4-1-5-15 - The internal standard (IS) response for some parameters was outside the acceptance criteria. Re-analysis was within acceptance criteria; however, the continuing calibration failed for 1,1-dichloroethene. Both results are reported in the laboratory report, however only the first analysis is included in the this summary table.

CSL-032 (Shaded Sample ID) =	indicates sample was replaced by subsequent sample, and not used in Overall Average calculation
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Soil Temperatures
Figures 2A, 2B, 3A and 3B
Table 3

Figure 2A – Phase 1 Shallow Thermocouples – Days above 90°C

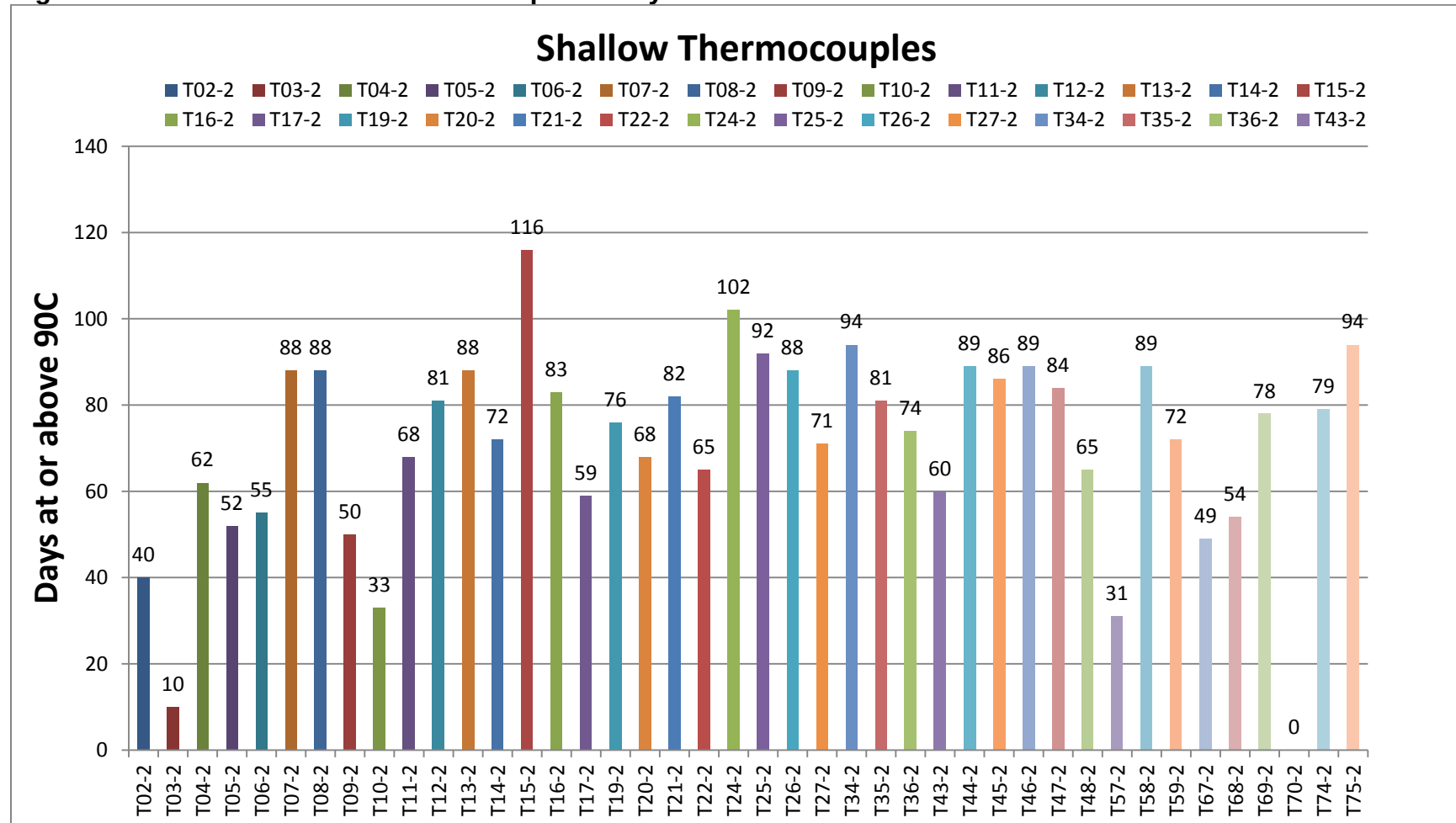


Figure 3A – Phase 1 Deep Thermocouples – Days above 90°C

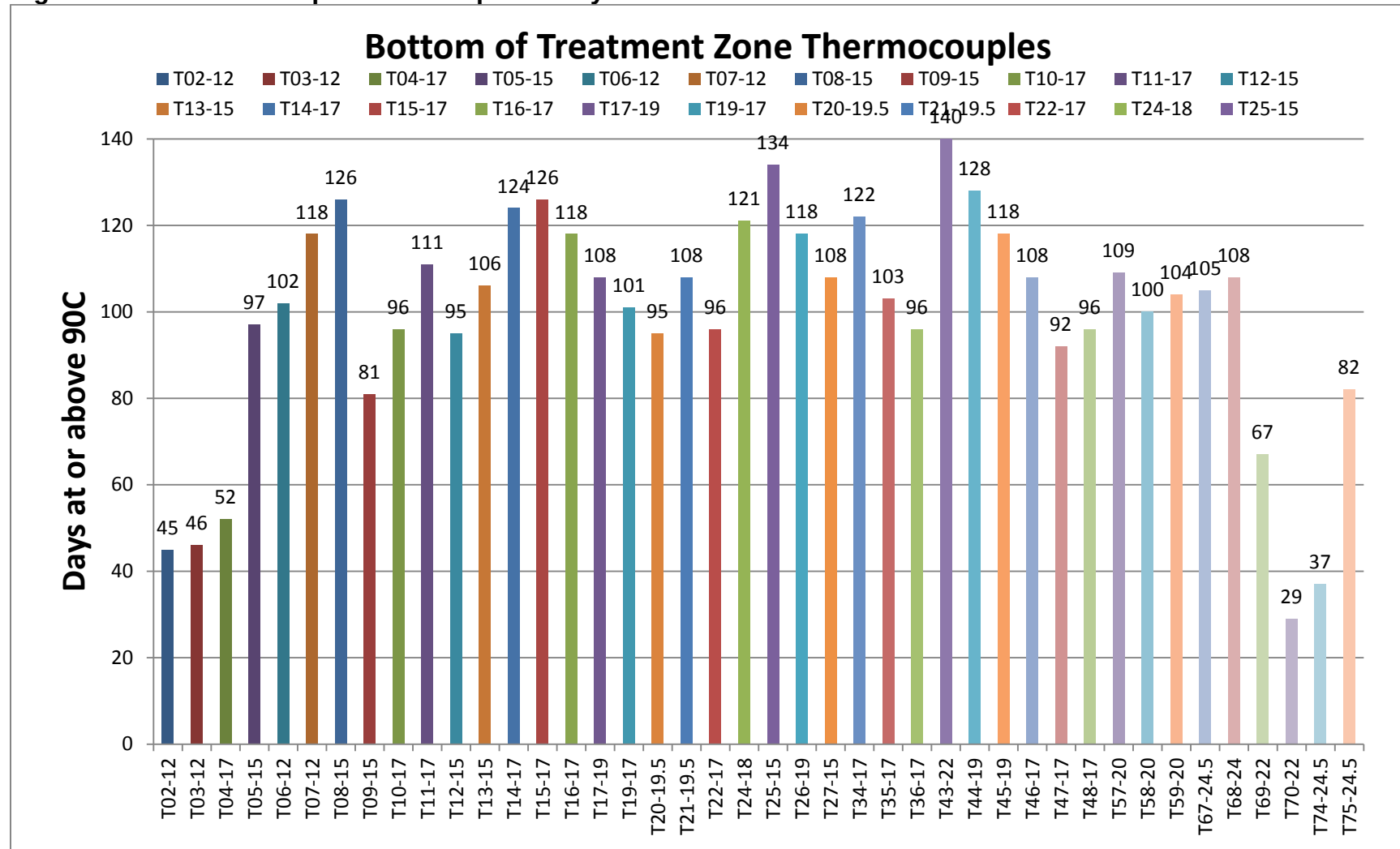


Figure 2B – Phase 2 Shallow Thermocouples – Days above 90°C

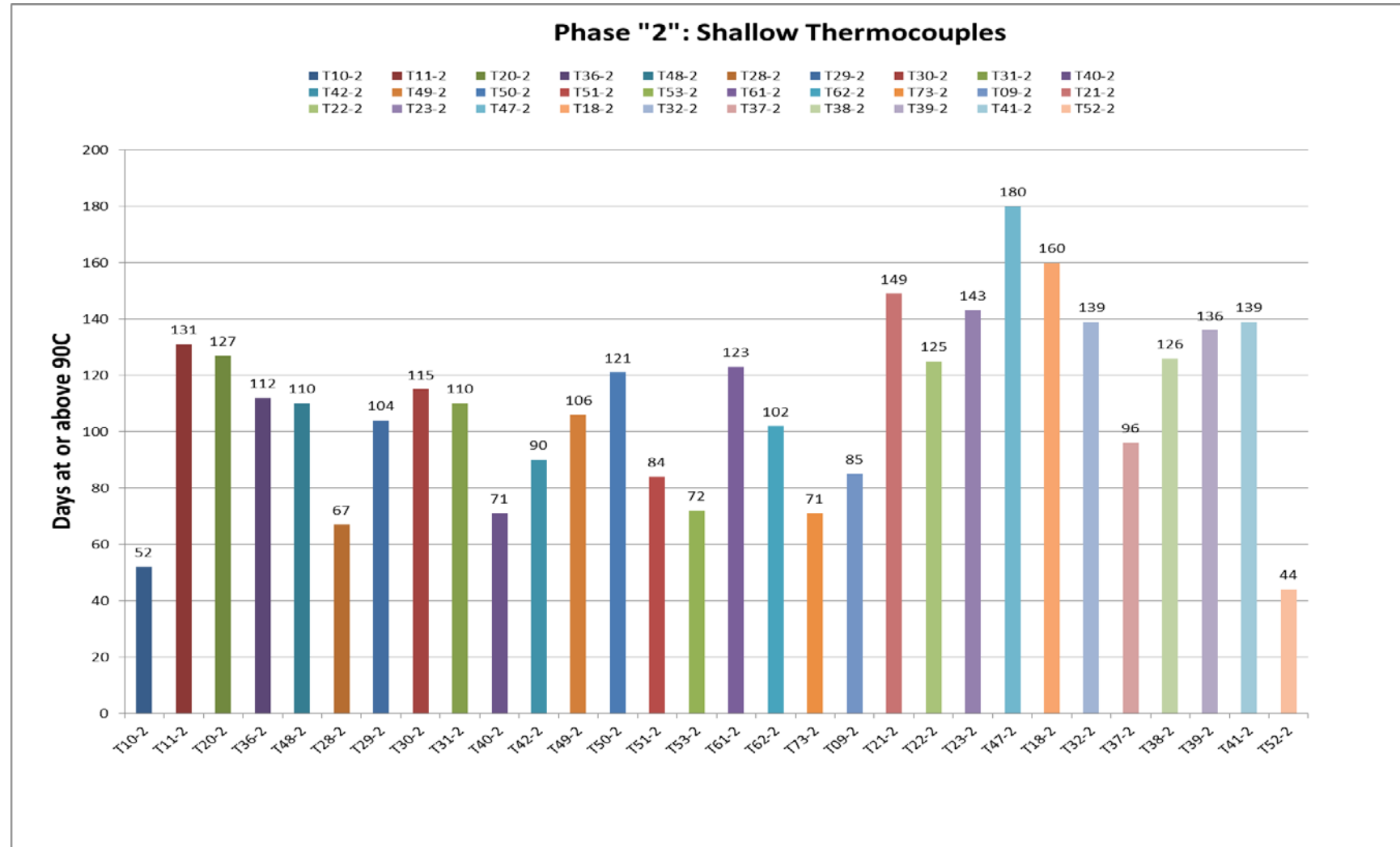


Figure 3B – Phase 2 - Deep Thermocouples – Days above 90°C

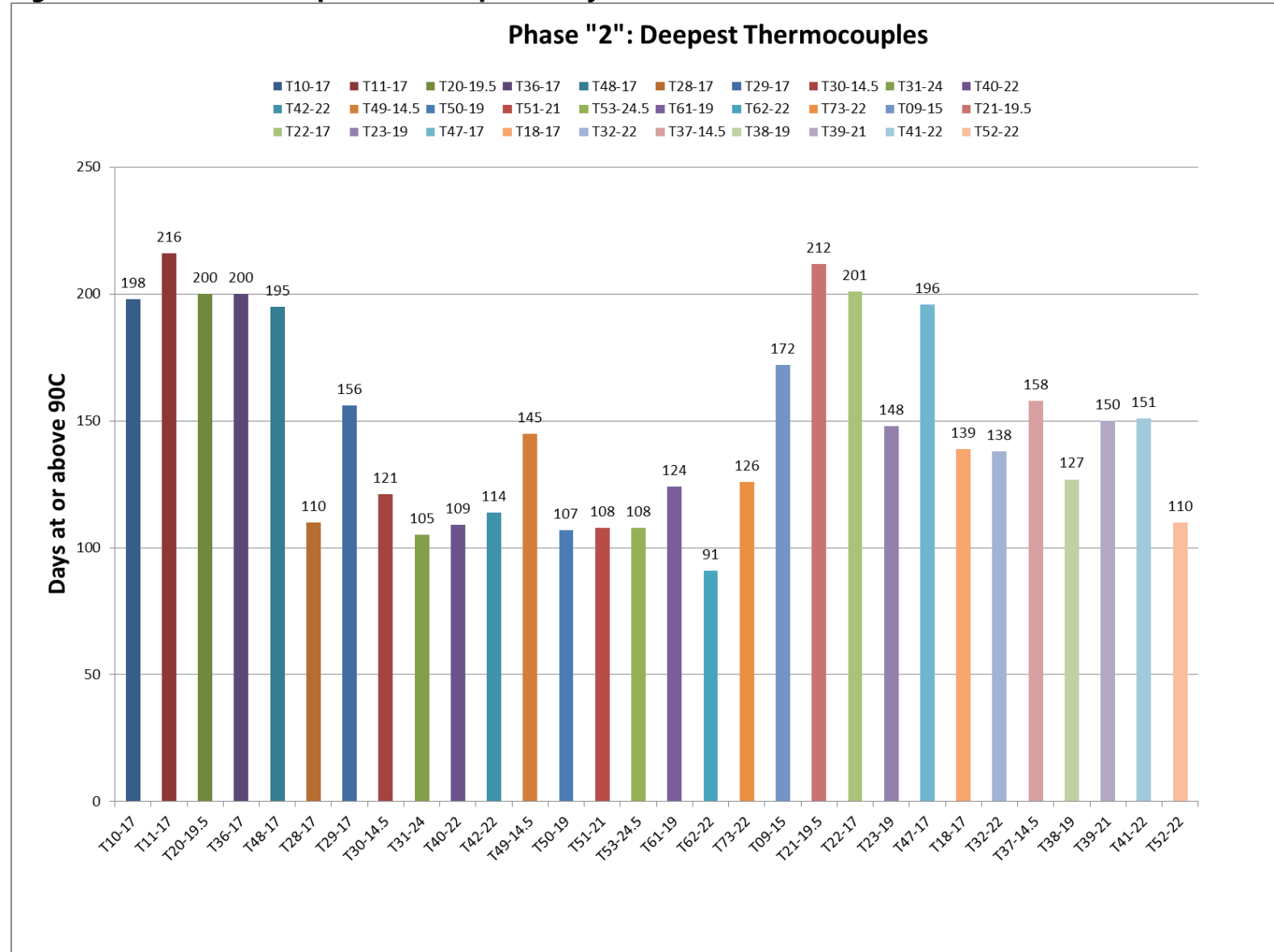


Table 3 - ISTR Phase 1 and 2 Wellfield Temperatures (oC)
Solvents Recover Service of New England (SRSNE) Superfund Site
Southington, Connecticut

Date	T10-17	T11-17	T20-19.5	T36-17	T48-17	T28-17	T29-17	T30-14.5	T31-24	T40-22	T42-22	T49-14.5	T50-19	T51-21	T53-24.5	T61-19	T62-22	T73-22	T09-15	T21-19.5	T22-17	T23-19	T47-17	T18-17	T32-22	T37-14.5	T38-19	T39-21	T41-22	T52-22
5/12/2014	16.4	17.5	16.8	16.2	17.5	16.1	17.3	16.9	18.2	18.0	16.6	16.9	18.2	18.1	17.3	17.0	17.5	16.7	16.9	17.9	17.5	18.3	17.2	19.7	18.2	16.6	17.5	18.6	20.1	18.2
5/13/2014	16.4	17.4	17.1	16.5	17.5	16.2	17.4	17.2	18.2	18.2	16.6	17.0	18.6	18.3	17.5	16.6	17.4	16.6	17.0	17.7	17.3	18.0	17.4	19.4	18.3	16.5	17.7	18.5	19.5	18.3
5/14/2014	16.5	17.3	17.2	16.5	18.0	16.2	17.8	17.0	18.2	18.3	16.3	17.3	18.7	18.3	17.7	17.0	17.3	16.3	16.8	17.5	17.3	17.7	17.3	18.7	18.3	16.2	17.8	18.3	19.3	18.3
5/15/2014	16.6	17.2	17.1	16.5	18.0	16.3	17.4	17.0	18.0	18.5	16.6	17.6	18.4	18.4	18.0	17.0	17.5	16.6	17.1	17.4	17.3	17.0	17.4	18.5	18.4	16.5	17.9	18.5	19.0	18.3
5/16/2014	17.0	17.0	17.0	17.0	18.0	16.0	17.4	17.0	18.0	18.5	16.7	18.0	18.1	18.3	17.9	17.0	17.0	16.8	17.0	17.6	17.0	17.0	17.5	18.7	18.0	16.2	18.0	18.2	19.0	18.0
5/17/2014	16.8	17.3	17.1	16.3	18.3	16.3	17.8	17.4	18.4	18.5	16.4	17.5	18.4	18.4	17.9	17.0	17.3	16.4	17.5	17.5	17.3	17.4	17.7	19.3	18.5	16.6	17.9	18.6	19.5	18.4
5/18/2014	16.5	17.9	17.2	16.4	18.3	16.3	17.7	17.5	18.0	18.3	16.3	17.6	18.4	18.3	17.6	16.8	17.3	16.3	17.4	18.1	17.9	17.4	17.8	19.1	18.6	16.6	17.8	18.7	19.3	18.2
5/19/2014	16.6	19.3	17.3	16.7	18.4	16.3	17.6	17.3	18.2	18.3	16.3	17.8	18.4	18.3	17.7	16.8	17.1	16.3	17.3	19.6	18.7	17.1	18.2	18.8	18.6	16.4	17.8	18.8	19.0	18.3
5/20/2014	17.0	20.9	17.4	17.1	19.1	16.7	17.9	18.0	18.6	18.6	16.4	18.2	18.8	18.6	18.1	17.3	17.4	16.4	17.9	20.9	20.1	17.3	18.8	19.0	18.8	16.9	17.9	18.9	19.0	18.8
5/21/2014	17.6	23.1	17.9	17.9	19.7	16.9	18.3	18.1	18.5	18.9	16.7	19.2	18.7	18.8	18.2	17.2	17.6	16.8	18.3	23.2	22.2	17.1	19.3	18.9	18.9	17.3	18.2	19.0	18.7	18.7
5/22/2014	17.1	24.0	17.2	18.0	20.0	16.3	18.0	17.6	18.0	18.5	16.2	19.1	18.2	18.6	18.0	17.0	17.1	16.2	18.0	24.2	22.7	16.8	19.3	18.0	18.1	16.9	18.0	18.3	18.1	18.0
5/23/2014	17.7	26.7	17.9	18.6	20.8	16.6	18.1	17.9	18.2	18.8	16.4	20.5	18.5	18.7	18.1	17.1	17.4	16.5	18.5	26.4	24.9	16.8	20.0	18.2	18.4	17.0	18.3	18.4	18.4	18.2
5/24/2014	18.4	29.3	17.8		21.7	16.6	18.3	17.7	18.3	18.6	16.5	21.6	18.4	18.5	18.3	17.2	17.4	16.4	19.3	28.5	27.2	16.4	21.1	18.4	18.7	17.0	18.3	18.6	18.4	18.4
5/25/2014	19.0	31.9	18.3		22.8	16.8	18.3	17.8	18.6	18.5	16.4	22.9	18.5	18.5	18.2	17.3	17.6	16.5	19.9	31.2	29.3	16.4	22.4	18.7	18.6	17.5	18.3	18.6	18.4	18.5
5/26/2014	19.9	34.1	18.8		24.2	16.9	18.5	18.2	18.5	18.8	16.8	24.5	18.7	18.8	18.3	17.3	17.8	16.7	20.9	33.3	31.2	16.7	23.6	18.3	18.8	17.8	18.3	18.7	18.5	18.7
5/27/2014	21.1	36.3	19.4	23.9	25.7	17.4	18.3	18.5	18.7	19.2	16.9	26.3	18.8	19.1	18.5	17.6	17.8	16.9	22.1	35.5	33.1	16.6	24.9	18.9	18.9	18.3	18.5	19.1	18.6	19.0
5/28/2014	21.2	37.1	18.7	23.6	26.3	16.1	18.0	18.0	18.3	16.0	26.8	18.0	18.1	18.0	18.0	17.0	17.0	16.0	22.2	36.5	33.8	16.0	25.8	18.0	18.0	17.5	18.0	18.0	18.0	18.0
5/29/2014	22.7	38.9	19.4	25.0	27.8	16.7	18.2	18.0	18.1	18.6	16.4	28.4	18.5	18.4	17.7	17.3	17.3	16.4	23.1	38.2	35.4	16.3	27.6	18.7	18.5	18.2	17.8	18.5	18.2	18.2
5/30/2014	23.8	40.3	19.9	26.6	29.3	16.6	18.1	18.0	18.2	18.7	16.7	29.8	18.2	18.6	18.0	17.3	17.5	16.7	24.4	40.0	36.9	16.3	28.8	19.0	18.4	18.5	18.1	18.7	18.2	18.4
5/31/2014	24.8	41.7	20.5	27.7	30.8	16.6	18.2	17.9	18.3	18.5	16.4	30.7	18.3	18.3	17.8	17.3	17.3	16.3	25.4	41.2	38.3	16.3	29.8	19.0	18.5	18.7	18.1	18.4	18.3	17.9
6/1/2014	26.0	43.1	21.1	29.1	32.2	16.8	18.3	18.2	17.9	18.5	16.4	31.9	18.3	18.4	17.9	17.3	17.3	16.5	26.4	42.4	39.5	16.5	31.7	19.6	18.6	19.3	17.9	18.6	18.1	18.1
6/2/2014	27.2	44.8	21.8	30.6	33.8	17.0	18.4	18.3	18.1	18.7	16.7	32.8	18.4	18.7	17.8	17.4	17.5	16.7	27.1	43.9	40.9	16.6	32.9	19.7	18.6	19.8	18.3	18.7	18.3	18.4
6/3/2014	28.3	45.9	22.3	31.9	35.2	17.1	18.4	18.3	18.4	18.8	16.8	33.8	18.5	18.8	18.1	17.6	17.8	16.7	28.5	45.2	42.0	16.6	34.3	20.2	18.8	20.5	18.5	18.7	18.5	18.5
6/4/2014	29.7	47.0	22.9	33.1	36.7	17.2	18.3	18.3	18.3	18.9	16.6	34.6	18.3	18.7	18.2	17.5	17.6	16.6	29.5	46.5	43.5	16.6	35.7	20.3	18.5	20.5	18.2	18.5	18.3	18.6
6/5/2014	30.3	47.8	23.3	34.2	37.6	16.9	18.3	18.1	17.9	18.1	16.1	35.0	18.1	18.1	18.1	17.1	17.3	16.1	29.9	46.9	43.9	16.3	36.6	20.2	18.1	20.7	18.1	18.2	18.1	18.0
6/6/2014	31.7	49.2	23.7	35.6	38.8	16.6	18.2	18.3	18.2	18.5	16.4	35.6	18.2	18.3	17.7	17.1	17.4	16.3	31.0	48.1	45.3	16.3	37.8	20.5	18.3	21.3	18.0	18.4	18.0	18.2
6/7/2014	32.9	50.3	24.5	36.9	40.1	17.0	18.3	18.3	18.1	18.5	16.6	36.4	18.4	18.5	17.9	17.5	17.5	16.5	32.2	49.1	46.2	16.6	39.3	21.2	18.5	22.1	17.9	18.6	18.1	18.1
6/8/2014	33.8	51.6	25.3	38.0	41.5	17.2	18.4	18.4	18.3	18.7	16.8	37.1	18.5	18.6	17.8	17.4	17.4	16.7	33.1	50.2	47.2	16.7	40.8	21.7	18.6	22.8	18.2	18.5	18.3	18.3
6/9/2014	34.0	52.0	25.0	38.3	42.0	16.8	18.0	18.0	17.8	18.0	16.0	37.0	18.0	18.0	18.0	17.0	17.0	16.0	33.3	50.3	47.3	16.0	41.0	21.0	18.0	22.3	17.8	18.0	18.0	17.8
6/11/2014	37.0	55.0	26.7	41.8	45.2	17.0	18.0	18.2	18.2	18.7	16.8	38.7	18.0	18.7	18.0	17.7	17.7	16.8	36.2	53.3	50.0	17.0	44.0	22.5	18.5	24.0	18.0	18.3	18.2	18.0
6/12/2014	37.7	55.7	27.0	42.3	46.2	17.0	18.0	18.0	18.0	18.3	16.3	38.8	18.0	18.2	18.0	17.3	17.2	16.3	36.8	53.7	50.7	17.0	44.8	22.7	18.0	24.3	18.0	18.0	18.2	18.0
6/13/2014	38.7	56.7	27.9	43.6	47.3	17.0	18.0	18.0	18.0	18.1	16.6	39.6	18.0	18.1	18.0	17.1	17.3	16.3	37.9	54.6	51.7	17.3	46.0	23.7	18.1	25.0	18.0	18.1	18.1	18.0
6/14/2014	39.8	58.0	28.3	45.0	48.5	17.0	18.2	18.5	18.0	18.3	16.8	40.0	18.3	18.2	18.2	17.7	17.3	16.7	38.7	55.7	52.5	17.7	47.3	24.2	18.2	25.8	18.0	18.5	18.7	18.0
6/15/2014	41.0	58.8	28.5	45.8	49.5	17.0	18.2	18.3	18.2	18.3	16.5	40.5	18.3	18.3	17.7	18.0	17.2	16.5	39.8	56.2	53.7	17.5	48.5	24.7	18.3	26.7	17.8	18.7	18.3	17.8
6/16/2014	42.0	59.8	29.5	47.2	50.7	17.2	18.3	18.7	18.3	18.7	16.7	41.0	18.3	18.7	17.8	18.0	17.3	16.7	40.7	57.0	54.0	17.5	49.7	25.0	18.2	27.7	17.8	18.5	18.3	18.3
6/17/2014	43.1	61.1	30.6	49.0	51.9	17.6	18.4	18.6	18.4	19.0	17.0	41.9	18.6	18.9	18.3	18.4	17.9	17.0	41.9	58.6	55.1	17.9	50.9	25.4	18.6	28.4	18.4	18.7	18.7	18.7
6/18/2014	44.3	61.6	30.8	49.8	53.1	17.1	18.6	18.9	18.6	18.6	17.1	42.1	18.4	18.5	18.4	18.5	17.9	17.1	42.6	59.3	56.1	18.6	51.9	25.9	18.8	29.3	18.4	18.8	18.9	18.6
6/19/2014	45.4	61.6	31.6	50.9	54.3	17.6	18.7	19.1	18.6	18.7	17.2	42.6	18.8	18.8	18.7	18.5	18.3	17.2	44.1	59.2	56.6	19.5	52.9	26.3	18.6	29.8	18.7	19.1	20.3	18.7
6/20/2014	46.0	61.7	31.7	51.7	54.8	17.2	18.3	18.7	18.2	18.5	16.7	42.7	18.3	18.5	18.2	18.3	17.3	16.7	44.2	58.8	56.8	20.0	53.7	26.3	18.5	30.5	17.7	18.7	20.7	17.7
6/21/2014	47.2	62.5	32.5	52.7	55.7	17.5	18.5	18.8	18.5	18.7	16.7	43.3	18.3	18.5	18.2	18.5	17.5	16.8	45.2	60.0	57.7	22.2	54.8	27.2	18.7	31.2	18.2	19.3	22.7	18.3
6/22/2014	48.1	63.6	33.1	53.9	56.4	17.4	18.4	18.6	18.7	18.4	17.0	43.7	18.3	18.4	18.3	18.6	17.4	17.0	46.1	61.1	58.4	24.1	55.9	27.4	18.9	31.9	18.1	19.6	24.6	18.3
6/23/2014	49.5	64.5	34.1	55.1	57.9	17.8	18.8	19.3	19.1	19.0	17.4	44.6	18.8	19.0	18.6	19.0	17.9	17.4												

7/12/2014	70.0	84.0	59.0	75.8	76.0	18.8	40.6	21.4	19.4	19.2	18.2	51.8	18.6	19.6	18.8	21.4	18.6	18.2	67.0	82.8	74.8	57.2	73.8	38.6	38.8	46.4	31.2	45.8	53.8	19.4
7/13/2014	70.2	84.5	60.0	75.8	76.5	18.5	41.7	21.2	19.2	18.7	17.7	51.7	18.7	18.7	18.8	21.0	17.8	17.5	67.3	82.7	74.8	57.8	73.8	38.7	38.8	46.8	31.7	46.3	54.3	18.5
7/14/2014	71.3	85.0	61.5	76.7	77.6	18.5	42.8	21.0	19.2	19.0	18.0	52.0	19.0	19.0	19.2	21.2	18.0	17.5	68.5	83.7	75.7	58.7	74.5	39.7	40.3	47.7	32.2	47.5	55.0	18.5
7/15/2014	72.0	85.9	62.6	77.9	78.4	19.0	44.4	21.1	19.6	19.1	18.1	52.7	19.1	19.1	19.1	21.4	18.1	17.9	69.6	84.7	76.3	59.7	75.1	40.4	41.0	49.0	33.1	48.9	55.9	19.0
7/16/2014	72.8	86.5	64.2	78.5	79.3	19.0	45.7	21.5	19.3	19.3	18.3	53.0	19.3	19.3	19.3	21.8	18.3	18.0	70.5	85.3	77.0	60.7	76.0	41.3	42.3	50.2	34.0	49.7	56.5	18.7
7/17/2014	74.3	87.5	65.5	79.0	79.8	19.0	47.3	22.3	19.8	19.4	18.5	53.6	19.4	19.6	19.5	22.3	18.5	18.5	71.1	85.8	77.8	61.6	76.8	41.8	43.3	51.8	34.9	51.1	57.5	19.1
7/18/2014	75.6	88.4	66.8	79.9	80.4	19.6	48.4	22.6	20.5	19.5	18.9	54.4	19.6	19.6	19.6	22.5	18.8	18.8	72.6	86.7	78.6	62.4	77.6	43.3	44.8	53.5	35.8	52.6	57.9	19.6
7/19/2014	76.2	89.0	68.0	80.7	81.3	19.6	50.0	22.7	20.2	19.8	19.0	54.7	19.7	19.8	19.8	22.7	19.0	18.7	72.8	87.3	78.8	63.5	78.0	44.2	45.3	54.7	36.7	53.2	58.7	19.5
7/20/2014	77.0	89.7	69.3	81.2	81.8	19.7	51.3	23.2	20.5	19.7	19.2	55.7	20.5	19.7	20.3	23.2	19.3	18.8	74.0	88.0	79.7	64.3	78.7	46.2	46.2	56.3	37.7	54.3	59.5	19.7
7/21/2014	77.8	90.8	70.8	81.8	82.5	20.3	52.7	23.5	21.0	20.3	19.8	56.5	20.8	20.7	20.3	23.8	19.7	19.5	75.2	88.8	80.7	64.8	79.3	48.2	47.7	58.3	38.7	55.8	59.8	20.3
7/22/2014	79.0	91.5	72.3	82.8	83.2	20.8	54.2	24.2	21.7	20.8	20.3	56.8	21.3	20.8	20.8	24.7	20.2	19.8	76.2	89.8	81.3	65.8	80.2	49.8	49.2	60.3	39.5	57.0	60.7	21.2
7/23/2014	80.1	92.1	73.9	83.6	83.7	21.1	55.6	24.6	22.0	21.5	20.9	57.6	22.0	21.9	21.4	25.4	20.9	20.9	77.0	91.0	82.0	67.0	80.8	51.8	50.0	61.9	40.8	58.1	61.5	21.8
7/24/2014	80.8	92.7	74.8	83.8	84.0	21.5	56.7	25.0	22.5	21.7	20.8	57.8	22.7	22.0	22.0	26.0	21.3	20.8	77.4	91.0	82.5	67.7	81.3	53.7	50.5	63.0	41.2	59.2	62.0	21.8
7/25/2014	81.8	93.7	76.5	84.3	84.6	22.0	58.2	26.0	23.0	22.2	21.8	58.0	22.8	22.8	22.3	26.8	21.8	21.6	77.8	91.8	83.0	68.7	82.0	55.8	51.6	64.8	42.0	60.2	62.7	22.8
7/26/2014	83.0	94.3	77.5	84.8	84.7	22.7	59.5	26.7	24.0	23.0	22.7	58.7	23.8	23.5	22.8	28.0	22.8	22.8	79.0	92.7	83.7	69.5	82.5	57.8	52.3	66.3	43.2	61.3	63.0	23.8
7/27/2014	83.5	94.8	78.8	85.7	85.7	23.5	61.0	27.2	24.7	23.8	23.2	59.0	25.0	24.3	24.0	29.0	24.0	23.7	79.8	93.2	84.5	70.5	82.8	59.2	53.2	67.7	44.7	62.2	64.0	24.7
7/28/2014	84.2	95.3	80.0	86.2	86.2	24.2	62.2	28.3	25.3	24.7	24.3	59.2	26.0	25.3	25.0	30.3	24.7	25.0	80.3	93.8	85.2	71.3	83.3	60.5	54.3	69.5	45.8	63.3	64.2	25.3
7/29/2014	84.9	95.8	81.4	86.6	86.3	25.1	63.5	29.5	26.4	25.6	25.1	60.0	27.0	26.3	26.0	31.5	25.8	26.0	81.8	93.9	85.8	72.0	84.3	62.6	55.5	70.8	47.0	64.9	65.1	27.0
7/30/2014	85.6	95.8	82.5	87.0	86.8	25.8	64.6	30.0	27.0	26.2	25.8	60.5	27.7	26.7	26.5	32.7	26.0	26.8	81.8	94.0	86.0	72.7	84.3	64.5	56.0	72.2	47.5	65.8	65.5	27.2
7/31/2014	86.3	96.4	83.7	87.7	87.0	27.0	65.6	31.1	28.0	27.4	27.1	61.0	28.9	28.0	27.7	34.3	27.2	28.7	83.0	94.9	86.9	73.6	85.0	66.6	57.0	73.4	48.7	67.0	66.4	28.7
8/1/2014	87.5	97.5	84.7	87.8	87.6	27.7	67.0	32.2	29.2	28.5	28.5	61.7	29.8	29.2	28.5	35.7	28.6	29.7	83.2	95.7	87.5	74.2	85.5	68.6	57.8	74.6	50.0	67.8	67.0	29.8
8/2/2014	88.0	97.8	85.8	88.3	88.0	28.5	68.3	33.3	29.8	29.3	29.3	62.0	30.8	30.2	29.7	37.3	29.5	31.0	83.3	96.3	88.0	75.2	85.8	70.5	58.5	75.7	51.2	68.5	67.6	30.7
8/3/2014	88.5	98.5	86.8	88.5	88.5	29.5	69.5	34.3	30.7	30.5	30.3	62.5	31.8	31.2	30.7	38.5	30.5	32.3	84.2	96.7	88.4	75.5	86.2	73.0	59.4	76.8	52.2	69.4	68.3	31.8
8/4/2014	89.6	99.5	88.2	89.3	88.8	31.0	70.5	35.6	31.8	31.8	31.8	63.7	33.3	32.7	31.8	40.3	31.7	34.0	85.0	97.8	89.8	76.5	87.0	75.0	60.7	78.8	53.5	71.0	69.2	33.7
8/5/2014	90.0	100.0	89.2	89.7	89.2	32.2	71.8	37.0	33.2	32.7	32.8	64.8	34.5	33.7	32.8	42.3	32.8	35.7	85.7	98.5	90.5	77.3	87.7	77.0	61.5	79.8	54.8	72.2	69.8	34.5
8/6/2014	90.7	100.4	90.3	90.0	89.6	32.9	73.4	38.3	34.3	33.7	34.1	65.0	35.4	34.6	34.3	43.8	33.8	36.8	86.0	98.7	90.6	78.1	88.3	78.7	62.6	80.4	56.0	73.1	70.3	35.4
8/7/2014	91.2	101.0	90.9	90.1	90.0	34.1	74.3	40.0	35.3	35.0	35.1	66.1	36.7	35.9	35.3	45.4	35.0	38.1	86.6	99.0	91.2	79.0	88.3	80.3	63.1	81.4	56.9	74.0	71.0	37.0
8/8/2014	91.6	100.7	91.9	90.6	90.3	35.1	75.4	41.0	36.3	35.7	36.7	67.2	37.7	36.8	36.5	47.0	36.0	39.7	87.1	99.7	91.9	79.6	89.0	81.6	63.9	82.4	57.9	74.9	71.9	38.0
8/9/2014	92.8	101.7	92.9	91.3	90.4	36.9	76.4	42.2	37.7	37.6	37.9	68.4	38.9	38.3	38.0	49.0	37.4	41.2	88.0	100.1	92.7	80.1	89.6	84.4	64.8	83.0	59.0	76.4	72.9	39.3
8/10/2014	93.3	101.9	93.7	91.3	91.2	37.8	77.8	43.8	38.7	38.5	38.8	69.6	40.0	39.2	39.0	50.2	38.8	42.5	88.0	100.7	92.8	80.7	90.0	86.0	65.3	83.8	60.0	77.0	73.0	40.5
8/11/2014	93.7	102.3	94.7	92.0	91.2	38.8	78.9	44.8	39.9	39.7	40.7	70.6	41.0	40.7	39.8	52.2	39.8	44.0	89.0	101.3	93.6	81.7	90.6	88.0	66.4	85.0	61.6	78.0	74.0	42.0
8/12/2014	94.5	102.8	95.6	92.1	91.4	39.9	79.8	46.2	40.8	40.8	41.7	72.3	42.5	41.7	41.4	53.7	41.2	45.4	89.2	101.7	94.1	82.7	90.7	89.5	66.8	85.3	62.6	78.5	74.7	43.1
8/13/2014	94.8	103.1	96.0	92.3	91.2	41.3	80.9	47.8	41.9	42.1	42.9	73.7	43.2	42.5	42.3	55.0	42.0	46.8	90.0	102.1	94.5	83.4	91.0	90.7	67.6	85.6	63.9	79.4	75.3	43.8
8/14/2014	95.4	103.3	97.0	92.6	92.0	42.7	81.7	48.8	43.2	42.8	43.8	76.4	44.7	43.8	43.8	56.8	43.7	48.3	90.3	102.2	94.5	83.5	91.6	92.0	68.4	86.7	64.8	80.2	75.8	45.0
8/15/2014	95.7	102.5	97.5	92.8	92.0	43.7	82.3	50.5	44.0	44.2	45.2	77.8	45.5	45.0	44.7	58.8	44.7	49.7	90.5	101.7	95.3	82.7	92.3	91.2	69.6	86.7	65.5	80.7	75.5	46.5
8/16/2014	96.0	101.5	98.2	93.2	92.2	44.8	83.5	51.5	44.8	45.5	46.5	79.0	46.8	46.0	45.8	59.8	45.8	51.2	91.0	100.2	95.2	81.0	92.7	89.2	69.8	87.5	66.5	81.3	73.8	47.7
8/17/2014	96.0	99.8	98.3	93.3	92.7	46.2	84.7	53.5	46.3	46.8	48.0	80.2	48.2	47.3	47.8	61.8	47.5	53.0	91.3	98.8	94.8	79.2	93.5	87.2	71.2	88.0	67.8	81.3	72.8	48.8
8/18/2014	96.0	99.0	98.4	93.2	92.8	47.2	84.8	54.7	46.8	47.3	48.8	79.8	48.8	47.8	48.6	62.8	48.0	53.8	90.8	97.0	94.3	76.8	93.3	85.8	71.2	88.2	68.5	81.5	71.0	49.3
8/19/2014	96.2	98.3	97.8	93.0	93.0	48.3	85.5	55.8	47.8	47.8	49.8	79.5	49.8	48.8	49.3	64.0	48.8	54.8	91.0	96.0	94.3	75.0	93.7	84.5	71.8	88.5	69.0	81.5	70.0	49.5
8/20/2014	96.2	97.2	98.0	93.2	93.2	49.3	86.0	56.8	48.0	49.0	50.8	79.3	50.3	49.5	50.2	65.0	49.8	56.2	91.2	95.3	94.2	74.0	93.5	83.2	72.2	88.2	69.8	81.3	69.3	50.3
8/21/2014	96.0	97.0	97.8	93.0	92.8	50.2	86.2	57.6	48.3	49.3	51.5	79.2	50.7	50.0	50.5	65.7	50.3	56.7	90.7	94.7	94.0	72.8	93.5	82.8	72.5	88.0	70.3	80.5	68.7	50.7
8/22/2014	95.5	96.0	97.2	92.7	92.5	50.7	86.2	58.5	48.5	49.3	51.7	79.0	51.2	50.3	50.8	66.2	50.3	57.3	90.7	93.8	93.5	71.8	93.5	82.0	72.3	87.8	70.5	80.3	68.0	50.5
8/23/2014	95.0	95.8	97.0	92.3	92.3	51.3	86.0	59.5	48.3	49.5	52.3	78.7	51.3	50.3	51.2	66.5	51.2	57.5	90.5	93.2	93.3	70.8	93.5	81.8	72.3	87.5				

9/15/2014	93.5	101.0	95.5	92.5	91.8	58.7	87.5	69.0	51.3	52.2	56.2	76.7	57.3	54.0	53.5	73.3	54.7	74.3	89.2	100.5	96.5	80.7	94.2	80.3	74.0	89.5	73.7	83.0	82.7	52.3
9/16/2014	94.0	101.7	96.0	93.3	92.7	59.3	88.3	69.3	51.5	52.3	57.0	77.7	57.8	54.3	53.5	74.0	55.0	75.7	89.7	101.3	97.3	81.7	94.3	80.3	74.8	89.7	74.4	83.7	83.8	53.2
9/17/2014	94.5	102.0	96.5	93.5	92.8	59.3	89.0	69.5	51.5	52.2	56.5	78.8	58.0	54.2	53.7	74.3	55.5	76.0	90.0	101.8	97.7	82.7	94.5	80.7	75.5	90.3	74.8	84.7	84.8	52.8
9/18/2014	95.0	102.7	97.5	94.2	93.2	59.6	89.5	70.0	51.7	52.2	56.8	79.8	58.4	54.3	53.8	74.3	55.5	76.8	90.8	102.2	97.8	83.3	94.8	81.0	76.5	90.5	75.5	85.5	85.8	52.8
9/19/2014	95.2	103.0	98.0	94.0	93.5	59.7	90.0	70.0	51.8	52.2	57.2	80.7	58.5	54.3	53.8	74.3	55.5	77.7	91.2	102.3	98.2	84.2	95.3	81.0	77.0	90.7	76.2	86.0	86.7	53.0
9/20/2014	95.8	103.7	98.7	94.5	93.8	59.8	90.7	70.3	51.8	52.8	57.2	81.8	58.8	54.8	54.2	75.2	56.2	78.8	91.8	103.0	98.7	84.7	95.5	81.3	78.0	90.8	76.7	87.0	87.3	53.2
9/21/2014	96.7	104.3	99.5	95.3	94.7	60.5	91.8	70.5	52.3	53.3	58.2	83.5	59.5	55.3	54.3	75.5	56.5	79.8	92.3	104.0	99.3	86.0	96.0	81.7	79.0	91.3	77.3	87.7	88.5	53.7
9/22/2014	97.0	104.5	100.3	95.0	94.7	60.5	92.2	71.0	52.3	53.2	57.7	84.7	60.0	55.2	54.5	75.7	56.8	80.0	92.5	104.2	99.3	87.3	96.3	82.0	79.7	91.7	77.8	88.7	89.0	53.5
9/23/2014	97.3	104.6	100.6	94.9	94.9	60.6	92.6	71.0	52.4	53.0	57.7	85.4	59.7	55.3	54.6	75.7	56.9	80.6	92.9	104.1	99.1	87.9	96.6	81.9	80.0	91.7	78.3	89.1	89.9	53.3
9/24/2014	97.6	105.0	101.5	95.3	95.3	60.8	93.3	71.3	52.7	53.2	58.0	86.2	60.4	55.5	54.3	76.0	57.2	81.5	93.5	104.7	99.8	88.2	97.0	82.3	81.3	91.8	78.7	89.8	90.7	53.7
9/25/2014	98.0	105.6	101.6	95.6	95.8	61.0	93.9	71.6	53.0	53.3	58.3	86.7	60.7	56.0	54.6	76.1	57.3	82.0	93.8	105.1	100.0	88.9	97.3	82.3	82.0	92.0	79.4	90.6	91.6	54.0
9/26/2014	98.4	106.0	102.3	96.0	95.8	61.7	94.2	72.2	53.4	53.6	58.3	87.8	60.9	56.1	54.6	76.6	57.6	82.6	94.7	105.3	100.4	89.3	98.0	83.0	83.2	92.7	79.9	91.9	92.2	54.2
9/27/2014	99.3	106.2	102.7	96.2	96.7	61.8	94.8	72.5	53.3	53.8	58.8	88.8	61.7	56.2	55.3	77.3	58.5	83.2	94.8	105.8	101.0	90.2	98.0	83.2	84.0	92.8	80.7	92.3	93.2	54.5
9/28/2014	99.5	106.6	103.5	96.2	97.2	62.5	95.5	72.8	53.5	54.2	59.3	89.3	62.0	56.5	55.3	77.7	58.7	83.8	95.3	106.2	101.3	90.7	98.3	83.5	84.8	93.2	81.0	93.0	94.0	54.5
9/29/2014	100.0	107.0	103.7	96.5	97.2	62.5	96.0	73.2	53.7	54.3	59.3	89.7	62.5	56.8	55.3	77.8	58.8	84.2	95.2	106.2	101.7	91.0	98.2	83.5	85.7	93.3	81.5	93.7	94.5	54.7
9/30/2014	100.0	107.0	104.0	96.0	97.0	62.2	96.0	73.0	54.0	54.0	59.2	90.0	62.7	57.0	55.0	78.0	59.0	84.2	95.6	106.2	102.0	91.2	98.7	84.0	86.2	93.0	82.0	94.0	95.0	55.0
10/1/2014	100.2	106.8	104.0	96.0	97.0	62.5	96.0	73.0	54.0	54.0	59.5	90.0	63.0	57.0	55.2	78.0	59.0	84.5	96.0	106.2	102.0	91.3	99.0	84.0	87.0	93.0	82.3	94.5	95.0	54.7
10/2/2014	100.8	107.0	104.0	96.2	97.5	63.0	96.8	73.8	54.2	54.3	59.8	90.7	63.2	57.2	55.6	78.3	59.3	85.0	96.3	106.3	102.2	92.2	99.0	84.2	87.5	93.2	83.2	95.2	96.2	54.5
10/3/2014	100.8	107.0	104.3	96.3	98.0	63.3	97.0	74.3	54.3	54.2	59.8	91.0	63.7	57.2	55.7	79.0	60.0	85.2	96.8	106.8	102.3	92.5	99.4	85.2	88.3	93.5	83.3	95.7	96.7	55.0
10/4/2014	101.2	107.0	105.0	96.8	98.0	63.4	97.8	74.0	54.0	55.0	60.0	91.0	64.0	58.0	56.0	79.0	60.0	85.2	97.0	107.0	103.0	93.0	99.2	85.8	89.0	93.3	84.0	96.0	97.0	55.0
10/5/2014	101.7	107.0	104.7	96.4	98.4	63.8	97.8	74.7	54.5	54.8	60.2	91.2	64.5	57.3	56.2	79.2	60.3	85.2	97.5	106.8	102.7	93.0	99.5	87.7	89.3	93.6	84.2	96.5	96.2	55.2
10/6/2014	101.5	107.0	104.5	96.3	98.4	64.2	97.6	75.0	55.0	55.2	60.8	91.7	65.0	58.2	56.2	79.5	60.6	86.2	97.7	107.0	103.0	91.6	99.7	88.7	89.8	93.7	84.7	96.5	95.0	55.7
10/7/2014	102.4	107.7	105.0	97.0	98.7	64.7	98.2	75.8	55.6	55.8	61.5	92.0	65.8	58.8	56.8	80.0	61.3	86.7	98.0	107.6	103.7	92.0	100.0	89.7	90.8	94.2	85.2	96.8	96.2	56.7
10/8/2014	102.7	107.7	105.0	97.0	99.3	65.2	98.5	76.5	56.2	56.0	61.8	92.3	66.5	59.3	57.5	81.0	61.7	87.0	98.8	107.3	103.6	92.6	100.2	91.4	91.3	94.3	85.3	97.3	97.0	57.0
10/9/2014	102.6	107.0	105.0	97.3	98.7	65.8	98.8	76.9	56.5	56.5	62.3	92.3	67.4	59.7	57.6	81.2	61.5	87.0	99.0	107.1	103.5	93.4	100.3	92.8	91.7	94.4	85.8	97.6	98.1	57.3
10/10/2014	102.6	107.0	105.0	97.1	99.1	66.6	98.9	77.7	57.1	57.1	62.9	92.9	67.6	60.9	58.1	81.8	61.9	87.3	99.4	106.9	103.8	94.0	100.9	95.1	92.5	95.0	86.3	98.6	99.0	58.3
10/11/2014	102.8	107.0	105.0	97.2	99.0	67.0	99.0	77.9	57.2	57.5	63.2	92.4	68.5	61.2	58.2	82.8	62.2	87.2	99.0	106.8	103.0	94.9	100.8	96.3	92.3	94.8	86.7	98.0	99.0	58.2
10/12/2014	102.7	107.0	105.2	97.0	99.3	67.5	99.2	78.5	58.0	58.2	63.7	92.7	69.3	61.4	59.2	83.6	62.7	87.3	99.5	106.3	103.2	95.6	100.5	97.8	92.8	95.0	87.2	98.7	99.7	59.0
10/13/2014	103.0	107.0	105.8	97.6	99.2	68.6	99.6	79.2	59.3	59.4	64.8	92.8	70.6	63.0	60.0	84.5	62.8	88.0	99.8	107.0	103.6	95.8	101.0	99.4	94.0	95.0	87.8	98.8	99.8	60.4
10/14/2014	103.0	107.3	106.2	98.0	100.0	69.7	100.0	80.4	60.2	60.3	66.2	93.6	71.6	64.0	60.8	86.0	64.3	89.0	100.2	107.2	104.0	96.5	101.4	101.0	94.5	96.0	88.4	99.8	101.0	61.6
10/15/2014	103.8	107.3	106.1	98.0	99.7	70.7	100.7	80.9	60.9	61.6	67.0	94.0	72.3	65.5	61.8	86.2	64.7	89.0	100.7	107.0	104.0	97.0	101.4	101.8	94.9	96.0	89.0	100.0	101.0	62.6
10/16/2014	103.5	107.0	106.0	98.0	99.4	71.0	100.5	81.2	62.0	62.2	68.0	94.0	73.0	66.0	62.5	86.7	65.0	89.3	100.6	107.0	104.0	97.0	101.6	102.4	95.1	96.0	89.4	100.0	101.2	63.5
10/17/2014	103.3	106.8	106.0	97.6	99.4	72.0	100.2	82.2	62.4	63.4	68.4	94.0	73.6	66.8	63.6	87.2	65.6	89.4	100.4	106.5	103.5	97.6	101.2	103.0	95.4	96.0	89.6	100.2	101.4	64.4
10/18/2014	103.2	106.8	106.0	97.8	99.0	72.8	100.8	82.8	63.8	64.3	69.7	94.5	74.3	68.2	64.3	88.0	66.5	90.2	100.2	106.2	103.4	97.3	101.0	103.3	96.2	95.8	90.0	100.3	102.0	65.7
10/19/2014	102.8	106.4	105.4	97.1	99.0	73.3	100.4	83.9	64.7	65.0	70.4	95.0	75.4	69.0	65.9	88.2	67.3	89.9	100.8	106.3	103.0	98.1	101.0	104.0	96.3	95.7	90.4	100.3	102.7	67.0
10/20/2014	103.0	106.7	105.3	97.3	99.0	74.6	100.6	84.6	65.7	66.6	71.7	95.7	76.4	70.3	66.6	89.4	67.6	90.7	100.4	106.7	103.6	98.0	101.0	104.7	96.9	95.7	90.7	100.8	102.6	68.4
10/21/2014	103.1	107.0	105.2	97.0	99.0	75.5	101.0	85.5	67.0	67.8	73.0	96.0	77.0	71.2	67.8	90.0	68.8	91.3	100.8	107.0	103.8	98.2	101.0	105.1	97.5	96.0	91.2	101.0	103.0	69.3
10/22/2014	102.9	106.1	105.0	97.0	99.0	76.0	101.0	86.0	68.0	69.0	74.0	96.0	77.8	72.0	69.0	91.0	70.0	92.0	100.9	107.0	103.2	98.1	101.4	105.0	98.0	96.0	92.0	102.0	103.5	70.3
10/23/2014	103.0	106.9	105.0	97.0	99.0	77.0	101.0	87.0	69.0	70.0	75.0	97.0	78.0	73.0	70.5	91.0	71.0	92.0	101.0	107.0	103.8	99.0	102.0	106.0	98.0	96.0	92.3	102.0	104.0	72.0
10/26/2014	103.0	107.0	105.0	98.0	100.0	80.0	101.0	90.0	73.0	74.0	79.0	98.0	81.0	77.0	74.0	93.0	74.0	95.0	102.0	108.0	105.0	100.0	103.0	107.0	101.0	97.0	93.0	104.0	106.0	76.0
10/28/2014	103.1	107.4	105.6	98.0	99.6	82.9	102.3	91.6	75.3	78.0	82.9	98.1	82.9	80.0	77.3	94.3	77.1	95.7	102.0	108.0	105.2	100.4	102.4	107.3	100.6	97.5	94.5	103.2	106.5	79.1
10/29/2014	103.1	107.4	105.8	98.0	99.6	83.5	102.4	92.0	76.2	78.7	84.2	98.4	83.0	80.6	78.1	95.0	77.7	96.2	101.7	108.1	105.3	100.3	102.4	107.3	100.8	97.3	94.9	102		

11/22/2014	99.6	102.7	103.6	97.5	100.4	94.6	103.2	99.8	92.0	95.3	102.4	101.6	91.7	94.5	95.5	98.6	88.8	96.4	101.0	102.7	104.2	103.2	102.8	105.1	105.0	98.8	99.2	103.4	108.8	94.5
11/23/2014	99.9	103.0	104.2	98.0	100.7	95.0	103.6	100.6	92.1	96.0	102.8	101.9	92.1	94.6	96.1	99.0	89.3	96.4	101.3	103.1	104.7	103.5	102.7	105.0	105.3	99.4	99.4	103.7	109.2	95.0
11/24/2014	100.0	103.2	104.7	98.0	100.5	95.4	103.5	100.8	92.7	96.2	103.1	101.9	92.0	94.9	96.0	99.0	89.8	96.3	101.2	103.6	105.0	103.8	102.8	105.9	99.7	100.0	103.9	109.0	95.1	
11/25/2014	99.8	103.0	104.2	98.0	100.7	95.5	103.5	101.0	92.7	96.5	103.0	101.5	92.0	95.0	96.0	99.0	89.9	96.0	101.1	103.2	104.7	103.6	102.5	105.0	105.7	99.7	99.8	103.4	109.0	95.2
11/26/2014	99.0	102.4	103.6	97.3	100.1	94.8	103.0	100.5	92.3	96.0	102.8	101.2	91.8	94.3	96.0	98.3	90.0	95.3	101.0	102.7	104.0	103.0	103.0	105.0	105.2	99.0	99.4	103.0	108.9	94.4
11/27/2014	99.0	102.5	103.0	97.5	100.0	95.0	103.0	100.3	92.7	96.6	103.0	101.0	92.0	94.7	96.1	98.0	90.0	95.0	101.0	103.0	104.0	103.3	102.8	105.0	105.3	99.0	99.8	103.0	108.9	95.0
11/28/2014	98.9	102.0	103.1	97.1	100.2	95.1	103.1	100.7	93.0	96.3	102.8	101.0	92.1	94.5	96.3	97.7	90.3	94.7	101.2	102.4	103.9	103.4	102.7	105.1	105.3	99.1	99.4	103.3	108.9	94.9
11/29/2014	99.0	102.0	103.2	98.0	100.0	96.0	104.0	101.0	93.0	97.0	103.0	101.0	92.0	95.0	96.3	98.0	91.0	95.0	101.0	103.0	104.0	104.0	103.0	105.0	105.2	99.0	100.0	103.3	109.0	95.0
11/30/2014	99.0	102.6	103.6	98.0	100.5	96.0	104.0	101.1	93.1	97.5	103.3	101.9	92.4	95.0	97.0	97.9	91.1	95.0	101.2	103.0	104.4	104.1	103.0	105.4	105.8	99.6	100.0	104.0	109.2	95.8
12/1/2014	99.0	102.6	104.0	97.9	100.5	95.8	103.7	101.3	93.3	97.8	103.4	101.8	92.5	95.2	97.0	97.6	91.3	94.8	101.4	102.9	104.6	104.1	103.0	105.6	105.9	99.7	100.0	104.0	108.8	95.9
12/2/2014	98.4	102.0	103.1	97.5	100.0	96.0	103.7	101.0	93.0	97.7	103.0	101.5	92.0	95.0	97.0	97.0	91.2	94.4	101.0	102.2	104.0	103.4	103.0	104.8	105.6	99.2	100.0	103.6	108.0	95.8
12/3/2014	98.8	102.0	103.2	97.6	100.0	96.0	103.8	101.0	93.0	98.0	103.1	101.3	92.1	95.1	97.0	97.0	91.7	94.4	101.0	102.4	104.0	103.2	102.9	104.1	105.6	99.3	100.0	103.7	108.0	96.0
12/4/2014	98.3	101.9	103.0	97.1	100.2	96.0	103.6	101.3	93.0	97.9	102.9	101.1	92.2	95.0	96.9	96.8	91.7	94.0	101.1	102.0	104.0	103.4	102.9	103.8	105.3	99.2	99.6	103.4	108.2	95.9
12/5/2014	98.0	101.3	102.7	97.2	100.1	96.0	103.6	101.2	93.0	97.9	102.5	101.3	92.0	95.0	96.8	96.2	91.9	94.0	100.8	102.0	104.0	103.6	103.0	103.6	105.2	99.3	99.5	103.8	108.0	95.7
12/6/2014	98.0	101.0	103.0	97.2	100.0	96.0	104.0	101.0	93.0	98.0	103.0	101.9	92.0	95.0	97.0	96.0	92.0	94.0	101.0	102.0	104.0	104.0	103.0	103.7	105.4	99.3	100.0	104.0	108.3	96.0
12/7/2014	98.0	100.3	102.9	97.0	100.0	95.8	103.2	101.3	93.0	98.0	102.5	101.3	92.0	95.0	96.7	96.0	92.0	93.7	100.9	101.4	103.3	104.1	103.0	103.4	105.1	99.1	99.6	103.7	108.3	96.0
12/8/2014	97.6	99.7	102.0	97.0	99.9	95.7	103.3	101.0	92.9	98.0	102.6	101.5	92.0	94.7	96.5	95.9	91.9	93.6	100.2	101.0	103.0	103.9	103.0	103.1	105.0	99.0	99.2	103.7	108.3	95.8
12/9/2014	97.7	99.0	102.5	97.0	100.0	95.9	103.3	102.3	93.0	98.1	103.0	101.5	92.0	95.0	97.0	96.0	92.0	93.2	100.0	100.1	103.0	104.0	102.7	103.9	105.1	99.0	99.7	104.0	108.8	96.0
12/10/2014	98.0	98.5	102.2	97.0	99.9	96.0	103.1	103.5	93.0	99.0	103.0	101.0	92.2	95.0	97.0	95.8	93.0	93.9	100.2	100.0	103.0	104.0	102.0	104.0	105.9	99.0	99.9	103.9	109.0	96.8
12/11/2014	97.6	98.0	102.0	97.0	99.5	96.4	103.0	103.1	93.2	99.0	103.2	101.0	92.6	95.5	97.0	96.0	93.0	94.0	100.0	99.5	102.9	104.0	102.0	104.0	105.7	99.0	99.9	103.4	109.0	97.0
12/12/2014	97.0	97.8	102.0	96.5	99.0	96.1	103.0	103.0	93.3	99.5	103.6	101.0	92.8	95.7	97.2	95.3	93.0	93.7	99.3	99.0	102.0	104.5	101.9	104.7	105.4	98.9	99.6	103.6	108.9	97.1
12/13/2014	97.0	97.0	102.0	96.0	99.2	96.2	103.3	103.2	93.6	99.9	104.0	101.0	93.0	95.8	97.7	95.0	93.5	93.3	99.3	98.4	102.0	104.9	101.4	105.2	105.3	98.8	99.6	104.0	109.1	97.7
12/14/2014	97.0	97.0	101.9	96.1	99.1	96.9	103.9	103.9	94.0	100.4	104.4	101.1	93.1	96.0	98.3	95.0	94.1	93.9	99.0	98.5	102.0	105.1	101.2	106.3	105.4	98.9	100.0	104.0	109.3	98.1
12/15/2014	96.7	97.6	101.2	96.0	99.2	97.0	104.0	105.0	94.0	100.9	105.0	101.1	93.2	96.3	98.5	95.0	94.2	93.9	98.6	98.9	102.0	105.1	101.0	107.1	105.4	98.8	99.8	104.2	109.9	99.1
12/16/2014	96.1	98.0	101.0	96.0	98.8	97.0	104.0	105.6	94.9	101.7	105.8	101.5	93.1	96.8	99.0	95.0	94.4	94.0	98.0	99.7	102.7	105.0	101.0	107.8	105.7	99.0	100.0	104.0	110.0	99.7
12/17/2014	96.3	98.0	101.1	96.0	98.7	97.7	104.0	106.4	95.5	102.5	106.6	101.6	93.7	97.5	100.0	95.0	95.0	94.7	98.3	100.0	103.0	105.3	101.0	108.6	106.0	99.0	100.2	104.3	110.8	100.8
12/18/2014	96.0	97.3	101.0	96.0	98.0	97.4	104.0	106.8	96.0	103.0	107.0	101.0	94.0	98.0	100.1	95.0	95.0	95.0	97.7	99.5	102.7	105.0	101.0	108.8	105.8	99.0	100.0	104.1	111.0	101.6
12/19/2014	95.8	97.0	101.0	95.9	98.0	97.6	104.0	106.7	96.6	103.0	107.0	101.0	94.0	98.1	101.0	95.0	95.1	95.0	97.1	99.2	102.5	105.4	101.0	109.0	106.0	98.8	100.2	104.1	111.0	102.2
12/20/2014	95.0	97.2	100.8	96.0	98.0	98.0	104.1	106.0	97.3	103.8	107.8	101.0	94.0	98.8	101.4	95.0	95.6	95.6	97.0	99.9	102.9	105.7	101.0	109.2	106.0	98.9	100.6	104.0	111.7	103.3
12/21/2014	95.0	98.2	100.8	95.9	98.0	98.0	104.1	106.0	98.0	104.0	108.2	101.0	94.4	99.1	102.0	95.0	96.0	95.9	97.0	100.8	103.0	106.0	101.0	109.9	106.0	99.0	101.0	104.3	112.0	104.0
12/22/2014	95.0	99.6	100.9	96.0	98.0	98.5	104.8	106.3	98.8	104.8	109.0	101.1	95.0	100.0	103.0	95.0	96.7	96.2	96.3	102.6	103.9	106.0	101.1	110.0	106.6	99.0	101.0	105.0	112.2	105.0
12/23/2014	95.0	100.7	101.0	96.0	98.0	98.7	104.3	107.0	99.0	105.0	109.5	101.0	95.0	100.0	103.4	95.0	97.0	96.3	96.0	104.4	104.0	106.0	101.4	110.0	107.0	99.0	101.0	105.0	112.9	105.0
12/24/2014	95.0	102.5	101.0	96.0	98.7	99.0	104.4	106.6	100.0	105.0	110.1	101.0	95.1	100.7	104.0	95.2	97.7	97.0	96.0	106.6	105.1	106.0	102.0	110.4	107.0	99.0	101.5	105.0	113.0	105.9
12/25/2014	95.3	103.9	101.0	96.1	99.0	99.0	104.4	106.6	100.7	106.0	111.0	101.0	96.0	101.4	104.9	95.9	98.0	97.0	96.1	108.0	106.1	106.1	102.0	110.8	107.0	99.2	101.7	104.7	113.0	106.9
12/26/2014	95.0	104.7	101.0	96.2	99.2	99.0	104.7	106.3	101.0	106.0	111.0	101.0	96.0	101.5	105.3	95.7	98.3	97.0	96.3	108.8	107.0	106.2	102.1	110.7	107.2	99.2	101.3	104.6	113.1	106.9
12/27/2014	95.6	106.3	101.0	96.8	99.3	99.1	105.0	106.4	101.8	106.1	111.7	101.3	96.2	102.0	105.8	95.8	98.6	97.4	96.3	109.9	108.0	106.3	102.3	111.0	107.3	99.3	101.6	104.9	113.3	107.5
12/28/2014	96.1	107.1	101.2	97.4	99.7	99.7	104.7	106.2	102.7	107.0	112.0	101.2	96.1	102.8	106.3	96.0	99.0	98.0	96.7	111.0	109.1	106.1	103.0	111.0	107.9	99.2	102.0	105.0	113.2	108.0
12/29/2014	96.6	107.7	101.1	97.4	99.9	99.0	104.4	106.3	103.0	106.4	112.0	101.0	96.1	102.5	106.7	96.0	99.2	97.9	97.0	111.0	109.5	106.2	103.0	110.9	107.5	99.0	101.9	104.6	113.2	108.0
12/30/2014	97.0	108.1	101.2	97.5	100.1	99.0	104.1	106.1	103.2	106.4	112.0	101.0	96.1	102.8	107.3	95.9	99.1	97.7	97.5	111.1	110.0	106.2	103.1	110.5	107.3	99.0	101.7	104.4	113.2	108.0
12/31/2014	97.6	108.8	101.7	98.0	100.3	99.0	104.0	106.3	104.0	106.8	112.8	101.1	96.3	103.0	107.4	96.0	99.5	97.9	98.3	111.8	110.1	106.2	103.2	111.0	107.6	99.1	101.8	104.7	113.3	108.1
1/1/2015	98.5	109.2	102.5	98.4	101.0	99.3	104.1	106.1	104.6	107.0	113.0	101.0	96.8	103.0																

1/26/2015	109.0	111.0	109.0	101.2	103.5	101.0	103.9	104.0	113.0	108.4	113.6	101.0	98.8	105.0	109.5	98.0	103.2	100.9	107.0	112.0	111.0	110.0	105.0	109.0	111.3	99.1	103.0	111.7	117.0	108.3
1/27/2015	109.0	111.0	109.0	101.0	103.2	101.0	103.4	104.0	113.0	108.2	113.2	101.0	98.3	105.0	109.2	98.0	103.1	100.5	107.0	112.0	110.9	110.0	105.0	109.0	111.5	99.0	103.0	112.6	117.3	108.2
1/28/2015	109.0	111.0	109.0	101.1	103.5	101.0	103.8	104.2	113.0	108.0	113.1	101.0	98.4	105.0	109.4	98.0	103.3	100.9	106.9	112.0	111.0	110.1	104.8	108.4	111.2	99.6	103.0	113.7	118.1	108.2
1/29/2015	109.4	111.3	108.7	101.6	103.8	101.4	104.5	104.7	113.2	108.4	113.5	101.2	98.4	105.4	109.7	98.1	103.0	100.8	107.2	111.9	111.3	110.3	104.8	108.5	111.7	99.8	102.7	114.9	119.0	108.5
1/30/2015	109.7	111.2	109.0	101.7	103.7	101.6	104.1	104.2	113.4	108.6	113.5	101.0	98.2	105.6	109.4	98.1	103.2	101.0	107.1	112.0	111.4	109.7	105.0	108.6	111.7	99.9	102.9	115.4	118.7	108.8
1/31/2015	109.0	110.1	108.5	101.0	103.2	101.0	103.1	103.7	112.9	108.0	112.2	100.9	97.8	105.0	109.2	97.8	102.9	100.4	106.4	111.0	110.1	108.1	104.5	108.0	110.4	99.3	102.3	115.8	117.0	108.0
2/1/2015	109.3	110.7	108.0	101.2	103.5	101.5	103.6	104.2	113.0	108.0	112.1	101.2	97.9	105.3	109.2	98.3	103.0	101.0	107.2	111.6	111.0	106.8	104.9	108.6	109.7	100.0	103.0	116.9	115.8	108.4
2/2/2015	109.0	110.3	107.1	101.0	103.0	101.3	102.9	103.7	112.2	108.0	111.7	101.0	98.0	105.0	108.2	98.0	102.9	101.0	106.6	111.1	110.3	104.3	104.5	108.2	108.6	99.3	102.8	117.0	113.4	107.9
2/3/2015	108.5	110.0	106.4	100.8	103.2	101.2	102.9	103.4	111.6	107.2	111.0	100.6	97.8	104.5	108.0	97.9	102.5	100.6	106.5	110.4	110.1	102.0	104.2	108.2	107.5	99.3	102.3	117.4	111.8	107.3
2/4/2015	108.8	110.3	106.6	101.2	103.0	101.8	103.3	103.6	111.8	107.9	110.9	101.2	97.7	105.0	107.4	98.1	102.5	101.1	106.8	111.1	110.6	99.8	104.3	108.0	107.2	99.6	102.6	117.9	110.6	107.7
2/5/2015	108.6	109.5	106.7	100.6	103.0	101.4	102.8	103.4	110.7	107.2	109.2	101.0	97.8	104.5	106.7	98.0	102.3	100.5	106.5	110.1	109.7	98.3	104.2	107.7	106.8	99.6	102.3	117.7	109.6	107.0
2/6/2015	108.0	109.0	106.2	100.1	103.0	101.0	102.8	103.1	110.1	106.6	107.9	100.8	96.8	104.1	105.6	97.8	101.4	100.1	106.2	109.2	109.1	97.3	104.0	107.7	106.3	99.1	101.5	117.3	108.7	106.3
2/7/2015	108.7	109.8	106.8	100.9	103.0	101.5	103.0	103.4	110.8	107.0	108.0	101.0	97.3	104.6	105.0	98.0	101.9	100.3	106.4	110.0	109.9	97.0	104.0	108.5	107.0	99.5	102.0	117.5	109.0	107.0
2/8/2015	108.8	110.0	107.0	100.4	103.0	101.6	102.8	103.8	110.7	107.0	107.6	101.0	97.6	104.4	104.8	97.8	101.8	100.0	106.4	110.0	109.8	97.0	104.0	109.0	107.0	99.8	101.9	117.0	109.0	106.8
2/9/2015	108.0	110.0	107.0	100.0	102.8	101.0	102.0	103.3	110.0	107.0	106.7	101.0	97.0	104.0	104.0	97.0	101.0	100.0	106.0	110.0	109.0	97.0	104.0	109.0	106.1	99.0	101.1	117.0	109.0	106.4
2/10/2015	108.4	110.0	107.0	100.0	102.9	101.2	102.8	103.9	110.6	107.0	106.4	101.2	97.3	104.3	103.9	97.1	101.1	100.0	106.1	110.6	109.8	97.5	104.0	109.3	106.4	99.8	101.3	117.1	109.3	107.0
2/11/2015	108.0	110.0	107.2	99.5	103.2	101.3	103.0	103.9	110.6	107.0	106.0	101.2	97.3	104.3	103.6	97.0	100.7	100.0	106.2	110.6	109.7	98.4	104.0	109.5	106.4	99.6	101.3	117.2	110.0	107.1
2/12/2015	108.5	110.3	107.7	99.7	103.0	101.6	103.0	103.8	111.4	107.6	106.0	101.1	97.0	105.0	103.2	97.2	100.9	100.3	106.0	111.2	110.2	99.7	104.1	109.4	107.0	99.7	101.4	117.0	110.8	107.8
2/13/2015	108.0	109.8	107.2	99.0	102.5	100.9	102.5	103.3	111.0	107.0	105.0	100.5	96.7	104.3	102.7	96.4	100.6	99.7	105.6	110.3	109.4	101.3	104.0	109.0	106.8	99.1	100.8	116.7	111.8	107.3
2/14/2015	108.0	110.2	107.5	99.2	102.8	101.5	103.1	103.6	111.7	107.6	105.3	100.7	96.8	105.0	102.6	96.8	100.8	100.4	105.8	111.0	110.0	102.5	104.1	109.5	107.5	99.5	100.8	117.1	112.7	107.8
2/15/2015	107.9	109.8	107.8	98.7	102.9	100.9	102.4	103.3	111.5	107.2	104.6	100.8	96.8	104.7	102.0	96.2	100.9	99.8	105.5	110.5	109.6	103.2	104.0	109.0	107.8	98.9	100.7	117.2	113.6	107.6
2/16/2015	107.6	109.5	107.5	98.6	102.7	100.7	102.7	103.6	111.5	107.3	104.3	100.7	96.9	104.6	102.0	96.0	100.8	100.0	105.8	110.6	109.5	103.5	104.0	109.1	107.8	98.9	100.5	117.9	114.8	107.6
2/17/2015	108.0	109.8	107.9	98.8	103.2	101.1	103.2	103.7	112.0	107.7	104.5	101.0	97.3	105.1	102.0	96.0	101.3	100.5	106.1	110.7	110.0	104.1	103.8	109.0	108.2	99.3	101.0	118.1	115.4	108.0
2/18/2015	108.0	108.8	107.7	98.6	103.3	101.5	103.4	103.7	112.1	107.4	104.1	100.8	97.3	105.3	101.9	96.1	101.5	100.4	106.0	110.0	109.5	104.2	103.5	108.8	108.7	99.7	100.8	118.7	116.1	107.9
2/19/2015	108.0	109.0	108.0	98.5	103.0	101.3	103.0	103.2	111.9	107.3	103.8	100.8	97.1	105.0	101.2	95.9	101.2	100.3	105.7	110.0	109.0	104.3	103.3	108.8	109.0	99.3	100.5	118.8	116.3	107.8
2/20/2015	107.9	109.0	107.6	98.0	102.9	101.1	103.0	103.3	111.7	107.0	103.2	100.6	96.8	105.0	101.3	95.8	101.3	100.0	105.5	109.9	109.0	104.3	103.2	108.9	108.9	99.3	100.2	119.1	116.8	107.6
2/21/2015	108.2	109.6	107.6	98.7	102.8	101.6	103.6	103.6	112.0	107.6	103.6	101.3	96.9	105.6	101.0	96.0	101.5	100.7	105.8	110.6	109.7	104.7	103.3	109.6	109.4	99.6	100.6	119.7	117.2	108.2
2/22/2015	108.7	110.3	108.3	98.8	103.3	102.0	104.2	104.1	112.0	108.0	103.5	101.8	97.5	105.9	101.3	96.0	102.1	100.8	106.2	111.0	110.0	105.3	103.2	109.7	109.8	100.3	101.1	120.1	118.1	108.9
2/23/2015	108.1	110.0	107.9	98.1	103.2	101.4	103.5	103.8	112.0	107.5	102.8	101.1	97.2	105.5	100.8	95.6	101.8	100.5	105.6	110.6	109.8	105.2	103.0	109.0	109.8	99.6	100.7	119.8	118.0	108.3
2/24/2015	107.4	109.4	107.2	97.7	103.2	101.4	103.3	103.4	111.9	107.2	102.4	100.7	97.0	105.3	100.5	95.3	101.1	100.4	105.8	110.3	109.4	105.3	103.2	109.4	109.5	99.4	100.3	120.1	118.4	108.1

Table 4 - ISTR Phase 1 and 2 Wellfield Temperatures (oC)
Solvents Recover Service of New England (SRSNE) Superfund Site
Southington, Connecticut

Date	T10-2	T11-2	T20-2	T36-2	T48-2	T28-2	T29-2	T30-2	T31-2	T40-2	T42-2	T49-2	T50-2	T51-2	T53-2	T61-2	T62-2	T73-2	T09-2	T21-2	T22-2	T23-2	T47-2	T18-2	T32-2	T37-2	T38-2	T39-2	T41-2	T52-2	
5/12/2014	17.7	16.9	13.8	14.6	15.8	14.8	15.5	15.2	15.6	15.8	14.9	13.8	15.5	15.6	14.8	14.8	13.9	14.5	15.5	16.6	17.5	16.5	15.3	15.3	18.1	16.4	13.2	14.0	16.4	18.5	15.4
5/13/2014	17.2	17.2	13.9	14.7	16.0	14.7	15.5	15.5	15.7	16.4	15.6	14.0	15.4	16.0	15.3	14.9	14.3	14.6	15.9	16.7	17.6	16.5	15.4	18.0	16.5	13.1	14.4	16.8	18.3	15.6	
5/14/2014	17.0	17.3	13.7	15.7	16.2	15.3	16.2	15.7	16.3	16.7	15.7	14.3	15.8	16.7	15.3	15.2	14.3	15.5	16.2	17.3	17.7	16.5	15.8	18.2	16.8	13.3	14.7	17.2	18.3	16.2	
5/15/2014	17.4	17.2	14.5	15.4	16.3	15.4	16.0	16.0	16.3	16.8	15.8	14.9	16.0	16.6	15.7	15.3	14.5	15.3	16.4	16.9	17.5	16.1	16.0	17.8	17.0	14.0	14.9	17.3	18.0	16.3	
5/16/2014	17.5	17.0	15.0	15.8	16.6	15.8	16.0	16.0	16.3	17.0	16.0	15.0	16.0	17.0	16.0	15.1	14.5	15.1	16.4	17.0	17.4	16.0	16.0	17.9	17.0	14.0	15.0	17.1	18.0	16.0	
5/17/2014	17.6	17.3	14.9	16.1	17.3	15.8	16.8	16.8	17.0	17.3	16.2	15.1	16.9	17.0	16.0	15.7	14.7	15.4	17.2	17.2	17.8	16.8	16.4	18.4	17.5	14.2	15.6	17.7	18.6	16.5	
5/18/2014	25.8	18.3	14.9	15.9	17.2	15.8	17.0	16.8	17.0	17.1	15.9	15.3	16.8	16.9	16.3	15.6	14.9	15.4	17.1	17.6	18.2	16.7	16.5	18.4	17.6	14.5	15.7	17.8	18.7	16.4	
5/19/2014	17.8	19.5	15.2	16.0	17.3	16.1	17.1	16.8	17.0	17.1	15.8	15.6	16.7	17.0	16.4	15.4	15.1	15.3	17.2	18.5	18.7	16.5	16.8	18.6	17.6	14.6	15.5	18.0	18.5	16.6	
5/20/2014	19.7	20.9	15.4	16.4	18.0	16.2	17.7	17.3	17.6	17.4	16.4	16.0	17.7	17.3	16.8	15.9	15.2	15.6	17.8	19.8	20.1	16.9	17.0	18.8	17.9	15.3	16.1	18.6	18.9	16.9	
5/21/2014	18.7	23.8	16.1	17.3	18.5	16.7	17.8	17.6	17.8	18.1	16.6	16.5	17.8	18.1	16.9	16.6	15.4	16.2	18.1	22.0	22.0	17.1	17.3	18.7	18.5	15.6	16.6	18.8	18.7	17.5	
5/22/2014	18.2	24.9	15.8	17.2	18.4	16.5	17.6	17.0	17.7	18.0	16.4	16.1	17.2	18.0	17.0	16.1	15.0	16.1	17.8	22.9	22.7	16.7	17.7	18.2	18.0	15.2	16.1	18.5	18.3	17.1	
5/23/2014	19.2	28.0	16.0	18.0	19.0	17.1	18.1	17.4	18.2	18.4	16.9	17.0	17.9	18.4	17.0	16.5	15.4	16.4	18.3	25.8	24.7	17.0	18.1	18.4	18.3	15.8	16.6	19.0	18.5	17.5	
5/24/2014	19.7	31.1	16.1		19.8	17.1	18.2	17.8	18.3	18.3	16.8	17.1	18.3	18.4	17.3	16.7	15.5	16.4	18.8	29.3	27.3	17.3	18.9	18.4	18.5	16.0	17.3	19.2	18.4	17.5	
5/25/2014	20.5	33.4	16.6		20.3	17.3	18.4	17.9	18.5	18.7	17.0	17.7	18.2	18.5	17.5	16.8	15.8	16.5	19.2	32.9	29.6	16.9	20.7	18.8	18.7	16.7	17.3	19.3	18.7	17.8	
5/26/2014	20.8	36.1	17.0		21.3	17.4	18.5	18.0	18.8	18.9	17.1	18.6	18.5	18.9	17.9	17.3	15.8	16.8	20.0	36.6	31.6	17.0	23.2	18.8	18.8	17.0	17.5	19.3	18.7	18.1	
5/27/2014	21.5	38.8	17.7	21.9	22.3	18.0	18.6	18.6	19.2	19.4	17.7	19.5	18.9	19.5	18.6	17.5	16.4	17.3	21.3	40.6	33.9	17.5	26.3	19.2	19.3	17.6	17.7	19.9	19.4	18.7	
5/28/2014	21.4	39.9	17.0	21.6	22.7	17.0	18.2	18.0	18.6	18.7	17.0	19.3	17.8	18.9	18.6	17.0	15.8	16.9	21.2	43.2	34.8	17.0	28.7	19.0	18.5	17.0	17.0	19.1	18.6	17.6	
5/29/2014	23.4	41.9	17.8	23.2	24.3	17.8	18.7	18.3	19.3	19.3	17.5	20.0	18.8	19.3	18.9	17.7	16.0	17.0	22.5	46.7	36.8	17.1	31.8	19.4	19.2	17.8	17.7	19.8	18.8	18.3	
5/30/2014	24.0	43.3	18.8	24.6	25.5	17.8	18.7	18.5	19.6	19.3	17.5	21.2	18.6	19.3	19.3	17.5	16.3	17.4	23.1	49.9	38.2	17.3	34.6	19.4	19.2	18.5	17.5	19.9	18.9	18.4	
5/31/2014	24.7	44.2	18.8	25.8	26.7	17.5	18.7	18.5	19.7	19.3	17.6	21.8	18.6	19.3	19.7	17.3	16.3	17.2	24.9	52.3	39.4	17.3	37.4	19.4	19.0	18.7	17.6	19.8	18.7	18.0	
6/1/2014	25.9	45.2	19.7	27.2	28.2	17.8	19.0	18.8	20.1	19.4	17.8	22.7	18.9	19.3	20.3	17.8	16.3	17.5	25.7	54.4	40.7	17.4	39.6	19.7	19.3	19.7	18.0	19.9	18.9	18.6	
6/2/2014	27.0	46.1	20.7	29.0	29.6	18.3	19.3	19.0	20.5	19.7	17.9	23.8	19.0	19.7	20.5	18.1	16.5	17.7	27.0	56.3	42.1	17.6	41.5	20.1	19.5	19.9	18.3	20.3	19.1	18.8	
6/3/2014	31.5	47.3	21.5	30.7	31.2	18.8	19.5	19.0	21.2	19.9	18.3	24.8	19.3	19.9	21.3	18.7	16.8	17.9	28.3	58.4	44.2	17.7	43.0	20.5	19.7	20.7	18.6	20.7	19.5	18.9	
6/4/2014	32.6	48.8	22.4	32.5	32.8	18.8	19.4	19.3	21.5	20.5	18.6	25.7	19.5	20.5	22.0	18.8	17.2	18.4	30.0	60.2	46.4	17.8	43.8	20.8	19.7	21.3	18.6	20.6	19.4	19.3	
6/5/2014	33.5	49.4	22.9	33.5	33.8	18.5	19.3	19.2	21.3	20.3	18.3	26.5	19.2	20.1	22.1	18.6	17.1	18.2	31.6	61.4	48.5	17.8	44.8	21.0	19.3	21.6	18.3	20.6	19.1	18.9	
6/6/2014	33.5	50.7	23.6	35.1	35.6	18.7	19.6	19.4	22.2	20.3	18.4	27.6	19.3	20.3	22.3	18.5	17.3	18.4	33.6	63.3	49.3	18.3	45.8	21.3	19.6	22.3	18.4	20.7	19.4	19.1	
6/7/2014	33.2	52.3	24.8	36.7	37.2	19.1	19.9	19.9	22.7	20.5	18.8	28.7	19.9	20.5	23.2	19.1	17.4	18.5	35.1	63.9	50.4	18.7	46.2	21.8	19.8	23.3	19.1	20.9	19.8	19.4	
6/8/2014	34.3	53.6	25.5	38.3	38.7	19.3	20.1	19.9	23.2	20.8	19.1	29.7	19.9	20.8	23.3	19.3	17.5	18.9	36.7	65.1	52.6	18.6	46.8	22.3	20.2	23.9	19.1	21.3	19.8	19.7	
6/9/2014	34.3	54.0	26.0	38.8	39.0	19.0	19.8	19.0	23.0	20.0	18.5	30.0	19.0	20.3	23.5	19.0	17.0	18.8	37.3	65.0	53.5	18.0	46.3	21.8	20.0	24.0	18.8	21.0	19.8	19.0	
6/11/2014	37.7	56.3	27.2	42.8	43.2	19.7	20.0	20.2	24.3	21.0	19.3	32.0	19.8	21.2	24.8	19.7	18.0	19.7	41.8	67.8	58.3	19.0	47.0	23.3	20.2	26.0	19.3	21.5	20.2	19.8	
6/12/2014	38.3	56.5	27.8	43.8	43.8	19.2	20.0	20.0	24.3	20.7	19.2	32.7	20.0	21.0	25.0	19.5	17.7	19.2	42.8	67.8	59.0	19.0	47.0	23.5	20.0	26.5	19.2	21.0	20.0	19.2	
6/13/2014	40.4	57.3	28.7	44.7	45.1	19.1	20.1	20.0	25.0	20.9	19.1	33.0	20.0	21.0	25.1	19.3	18.0	19.1	44.1	68.3	59.9	19.1	47.3	24.1	20.1	27.3	19.1	21.1	20.3	19.4	
6/14/2014	41.0	58.5	29.2	46.3	46.7	19.7	20.5	20.7	25.5	21.3	19.3	34.0	20.5	21.0	25.7	20.0	18.0	19.3	46.0	70.2	59.3	19.7	48.2	24.8	20.3	28.2	19.7	21.3	20.7	19.7	
6/15/2014	42.5	58.7	29.8	47.2	47.8	19.5	20.7	20.5	25.8	20.8	19.0	34.7	20.0	20.5	25.7	19.8	17.7	19.5	47.3	70.7	59.8	19.5	48.3	25.5	20.7	29.5	19.5	21.7	20.5	19.3	
6/16/2014	44.8	59.8	30.7	48.7	49.0	20.0	20.7	20.7	26.5	20.8	19.7	35.8	20.5	20.8	26.2	20.2	18.3	19.8	48.8	70.8	61.3	19.7	49.0	25.8	20.7	30.2	19.7	21.5	20.5	20.0	
6/17/2014	45.2	61.3	31.6	50.4	50.7	20.3	20.6	20.7	27.0	21.6	20.1	36.6	20.7	21.7	27.0	20.4	18.6	20.4	51.0	72.0	63.7	20.0	49.9	26.6	20.7	31.6	20.0	21.9	21.0	20.7	
6/18/2014	45.5	62.1	32.3	51.5	52.1	20.3	21.4	21.1	27.6	21.6	20.3	37.1	20.8	21.6	27.5	20.9	18.6	20.6	52.8	72.5	65.4	20.8	50.3	27.0	21.1	32.6	20.4	22.3	21.3	20.6	
6/19/2014	47.2	62.8	33.0	53.3	54.0	20.9	21.7	21.6	28.2	21.9	20.7	37.3	21.4	22.2	28.5	21.4	19.3	21.5	55.0	71.5	64.7	21.5	51.3	27.8	21.3	33.4	20.7	22.6	22.4	21.0	
6/20/2014	47.5	62.5	33.8	54.0	54.5	20.7	21.5	21.3	28.3	21.7	20.2	38.2	21.0	21.5	28.7	21.0	18.8	20.8	55.7	71.3	66.3	21.7	51.8	27.8	21.0	34.3	20.2	22.5	22.7	20.3	
6/21/2014	49.0	63.0	34.8	55.2	55.8	20.8	21.8	21.8	29.2	21.8	20.5	39.3	21.2	21.8	29.0	21.2	19.0	21.5	57.8	71.8	66.0	22.8	52.8	28.8	21.7	35.3	20.7	23.2	23.8	21.0	
6/22/2014	50.1	63.4	35.7	56.1	56.7	21.0	21.6	21.7	29.6	21.7	20.4	39.7	21.3	21.9	29.4	21.3	19.4	21.6	59.6	71.9	64.9	23.7	53.3	29.0	21.7	36.3	20.6	23.1	25.1	21.0	
6/23/2014	51.3	64.4	37.4	57.8	58.4	21.6	22.1	22.3	30.3	22.6	21.1	40.5	22.1	22.6	30.0	22.0	19.9	22.3	61.9	73.1	64.8	25.									

7/13/2014	68.0	81.8	73.7	82.3	78.2	24.3	45.7	25.3	34.3	24.5	23.3	51.0	23.8	25.3	33.0	25.8	22.5	25.7	80.2	82.8	76.5	47.5	69.5	46.2	41.7	54.7	34.3	50.7	53.8	24.0
7/14/2014	68.0	82.0	74.2	83.5	79.0	24.5	47.0	25.3	34.0	24.5	23.3	51.0	24.2	25.5	33.3	25.8	22.5	25.7	80.5	83.3	77.0	48.0	70.0	47.7	42.7	55.7	35.2	51.8	54.8	24.0
7/15/2014	67.9	82.9	74.4	84.1	79.3	24.9	48.7	25.7	34.6	25.1	23.7	52.3	24.3	25.4	33.3	26.1	23.1	26.1	81.0	83.9	81.0	48.7	71.0	50.0	43.9	56.7	36.1	53.6	56.1	24.3
7/16/2014	68.2	82.7	75.0	85.2	79.7	24.7	50.7	26.2	34.3	24.7	23.5	54.8	24.3	25.5	33.3	26.3	23.0	26.0	80.7	84.3	80.7	49.0	71.5	51.8	45.0	58.2	36.7	54.5	56.8	24.5
7/17/2014	68.8	81.3	75.4	85.4	81.0	24.5	52.1	26.8	34.6	24.8	23.8	55.5	24.8	25.5	33.6	26.6	23.5	25.9	80.6	84.0	79.9	49.9	73.3	54.3	46.5	59.5	38.0	55.8	58.0	24.6
7/18/2014	69.6	79.5	76.0	84.6	81.3	25.0	53.9	27.0	34.9	24.8	23.9	52.6	25.1	25.8	33.8	27.0	23.6	25.9	81.1	83.9	77.0	50.0	75.3	58.9	47.8	61.4	39.0	57.3	59.1	24.8
7/19/2014	70.0	79.0	75.2	84.8	81.3	24.8	54.8	26.8	34.5	25.0	24.0	50.0	24.5	25.8	33.7	27.0	23.5	26.3	81.0	85.0	76.8	50.8	76.5	62.0	48.7	62.7	39.7	57.8	59.8	25.2
7/20/2014	70.5	79.5	75.3	84.5	80.8	25.0	56.2	27.3	34.7	25.3	24.7	48.7	25.0	25.8	33.8	27.7	24.0	26.7	81.7	85.7	78.0	51.8	77.5	65.7	49.8	64.0	41.0	58.8	60.5	25.3
7/21/2014	70.5	79.8	75.8	84.7	80.7	25.4	57.8	27.7	35.5	25.3	24.7	48.0	25.3	25.8	34.3	28.0	24.3	26.7	82.5	85.8	79.2	52.8	78.7	68.2	51.3	65.7	41.8	60.0	62.0	25.3
7/22/2014	70.5	80.5	76.5	84.8	80.6	25.8	59.0	28.2	36.3	25.8	25.3	47.3	25.8	26.5	34.7	28.5	24.8	27.0	83.2	86.8	80.4	53.8	79.7	72.0	53.0	67.3	43.2	62.0	62.6	26.0
7/23/2014	71.4	81.5	77.1	85.9	80.6	26.6	61.0	28.8	37.3	26.4	26.1	47.4	26.5	27.4	35.3	29.3	25.6	28.1	84.3	87.8	82.4	54.8	80.4	74.7	54.4	68.6	44.6	63.4	63.9	26.7
7/24/2014	71.5	82.2	77.3	86.4	80.3	26.5	62.2	29.2	38.0	26.4	26.7	48.3	26.8	27.5	36.0	29.6	26.0	28.3	85.0	88.3	85.3	55.7	80.7	77.2	55.5	69.3	45.7	64.7	65.2	27.2
7/25/2014	72.4	81.8	78.0	86.2	80.2	26.8	63.5	30.0	39.2	27.0	27.0	48.6	27.0	27.5	36.7	30.2	26.8	28.8	86.0	88.2	84.8	56.0	81.2	79.2	56.8	70.8	47.2	66.0	66.0	27.5
7/26/2014	73.3	82.2	78.7	86.2	80.2	27.3	64.8	30.2	40.5	27.5	27.7	48.0	28.0	28.3	38.0	30.8	27.3	29.7	85.7	88.3	85.2	56.5	81.7	80.5	58.2	71.6	48.2	67.6	66.7	28.5
7/27/2014	73.3	82.8	78.8	86.8	79.8	28.0	66.2	31.2	41.8	28.2	28.8	48.0	28.8	29.0	39.3	32.0	28.2	30.8	86.0	88.8	87.5	57.7	81.0	81.0	59.5	72.3	50.0	68.7	67.5	29.5
7/28/2014	73.3	83.5	79.2	87.2	79.4	28.7	67.5	31.8	43.0	28.8	29.7	50.5	29.2	30.0	40.7	32.5	29.3	31.8	87.2	89.3	88.4	58.2	81.3	81.8	60.8	73.0	51.5	70.0	68.3	30.0
7/29/2014	73.7	82.9	80.1	86.6	79.5	29.3	69.0	33.3	44.9	29.4	30.8	50.1	30.9	30.4	43.3	33.4	30.5	32.5	87.6	88.6	86.8	59.1	82.0	82.9	62.9	73.8	53.1	71.7	69.5	30.9
7/30/2014	74.3	82.3	80.5	86.2	78.3	29.5	69.8	33.8	46.0	29.5	31.5	49.5	31.2	30.5	44.8	33.8	30.8	33.3	86.8	87.7	86.0	59.8	82.2	82.5	63.8	74.7	54.3	72.8	69.8	31.5
7/31/2014	74.3	83.5	81.3	86.7	78.8	30.3	71.2	35.0	47.7	30.6	32.6	50.0	32.1	31.7	46.7	34.9	32.1	34.7	87.0	88.3	87.6	60.7	82.6	83.7	64.9	75.4	56.0	74.0	70.9	32.7
8/1/2014	74.2	83.5	81.5	86.5	78.8	31.4	72.2	35.8	49.5	31.2	34.0	50.0	33.0	32.5	48.8	35.8	33.3	35.7	86.8	89.5	88.6	61.5	83.3	84.7	65.8	75.7	57.7	75.0	71.8	34.0
8/2/2014	74.5	84.7	81.8	87.3	78.3	32.2	73.3	37.0	50.7	32.3	35.5	50.3	34.0	33.3	50.7	36.8	34.5	37.0	87.0	90.7	90.3	62.5	82.7	84.8	66.5	76.2	59.8	76.2	72.2	35.2
8/3/2014	74.7	85.5	82.0	87.5	78.2	32.7	74.5	38.3	52.0	33.0	36.5	51.7	35.0	34.0	52.5	38.0	35.5	38.0	87.5	91.2	90.8	63.4	82.3	84.8	67.8	76.8	61.3	77.3	72.6	36.3
8/4/2014	75.5	86.2	83.0	88.3	78.8	33.8	75.5	40.2	53.8	34.2	38.2	52.2	36.3	35.0	54.8	39.3	37.2	39.7	89.0	92.5	91.2	64.0	82.8	85.4	69.2	78.0	63.7	78.5	74.0	37.7
8/5/2014	76.8	87.8	83.7	89.8	79.6	34.7	76.5	41.4	55.3	34.8	38.8	53.5	37.8	35.8	56.7	40.7	38.4	40.7	90.4	93.7	91.8	65.7	85.0	87.2	69.8	79.2	65.8	80.2	75.2	38.5
8/6/2014	79.1	89.3	84.2	91.9	81.0	35.6	77.9	43.6	57.1	35.9	41.0	55.0	39.0	37.1	58.1	42.0	39.3	42.5	91.0	94.9	93.3	67.5	87.6	89.0	71.3	79.4	68.1	81.1	75.7	39.7
8/7/2014	81.0	90.0	85.7	92.4	82.4	36.5	78.4	45.1	58.8	37.0	42.0	56.2	40.0	38.0	60.1	43.9	41.1	43.8	91.7	95.2	92.4	68.3	89.9	89.2	72.6	80.8	70.3	82.1	76.7	41.2
8/8/2014	81.4	90.0	86.6	93.1	83.5	37.4	79.1	46.9	60.1	37.7	43.3	56.5	41.5	39.0	62.0	45.2	42.3	45.2	93.1	95.6	92.7	69.7	90.5	89.7	73.6	81.7	72.3	83.0	77.6	42.2
8/9/2014	82.6	90.5	87.6	93.4	84.3	39.0	80.4	48.9	62.1	39.1	45.0	56.9	43.0	40.2	64.6	46.6	44.1	46.7	94.4	95.6	92.9	71.0	91.6	90.7	74.9	82.8	74.6	84.4	78.4	43.7
8/10/2014	83.8	90.9	88.2	93.8	85.2	39.8	81.3	50.7	63.0	40.3	46.2	57.6	44.3	41.2	66.8	48.2	45.8	48.0	95.1	96.8	93.4	72.2	92.0	92.2	75.6	83.7	76.3	84.8	79.0	44.8
8/11/2014	85.0	91.9	89.3	94.9	86.8	41.0	82.0	52.7	64.6	41.2	47.7	58.7	45.8	42.7	68.6	50.2	46.8	49.8	95.8	97.0	93.6	73.9	93.9	94.7	77.2	85.4	78.3	86.3	79.7	46.7
8/12/2014	87.7	93.1	90.2	95.4	89.7	42.3	82.7	54.3	65.7	42.8	49.3	59.9	47.2	44.0	70.8	51.4	48.5	51.1	96.6	97.8	94.4	75.4	95.7	97.5	77.9	86.8	79.6	86.9	80.3	47.8
8/13/2014	91.8	99.1	91.2	97.0	95.2	43.5	83.6	56.4	67.2	43.9	50.5	64.2	48.5	44.7	72.2	52.8	49.6	52.8	97.8	98.9	97.1	79.6	98.3	100.4	79.2	90.4	81.4	88.9	81.1	48.7
8/14/2014	95.6	100.0	92.8	97.2	97.2	44.7	84.4	58.5	68.7	44.5	52.0	73.3	51.7	45.8	73.8	54.8	51.7	53.8	97.6	99.5	94.3	81.5	100.2	100.8	81.7	96.0	83.2	90.7	81.3	50.3
8/15/2014	96.5	96.8	94.2	97.0	96.2	45.2	85.5	60.2	70.3	45.3	54.2	75.2	53.5	46.7	75.2	56.0	52.8	55.2	97.2	98.7	91.5	79.8	100.7	99.7	82.8	96.5	84.0	91.0	80.8	51.0
8/16/2014	96.8	94.8	94.3	96.0	95.3	46.7	86.0	61.8	71.8	46.8	56.3	74.5	55.6	47.8	76.7	57.7	54.3	56.8	96.2	97.8	90.3	78.7	100.5	98.0	83.5	95.3	84.7	90.7	81.0	51.8
8/17/2014	96.0	92.8	94.2	95.2	94.8	48.0	86.5	63.8	73.0	48.3	58.5	74.0	58.6	49.8	77.8	59.5	56.0	59.0	95.2	97.0	89.2	77.3	100.7	96.2	84.3	93.8	85.5	90.7	80.8	52.6
8/18/2014	94.3	90.5	93.7	94.0	93.5	49.0	86.7	65.2	73.7	48.8	59.5	73.2	61.2	50.7	78.0	60.5	57.2	59.8	93.3	95.0	87.8	76.0	98.8	94.0	84.7	92.8	85.3	90.5	80.3	53.0
8/19/2014	92.7	89.0	93.3	93.2	92.7	50.3	86.7	66.2	74.3	49.8	60.3	72.2	63.0	51.5	78.8	62.0	58.7	61.5	92.5	93.7	87.5	74.8	97.7	93.0	84.8	91.8	85.2	89.8	79.4	53.7
8/20/2014	91.5	88.3	92.5	92.3	92.3	51.7	86.3	66.8	74.8	51.0	61.3	72.0	64.2	53.0	79.2	63.0	59.7	62.8	91.2	92.8	87.3	74.0	96.2	91.2	84.8	90.5	85.2	89.3	79.5	54.7
8/21/2014	90.2	87.3	92.0	91.7	91.2	53.0	86.0	67.3	75.2	51.5	62.0	71.3	65.3	54.0	78.8	63.7	60.3	63.7	90.2	91.7	87.2	72.8	95.5	90.5	85.2	90.0	84.5	89.2	79.0	55.3
8/22/2014	89.0	86.7	91.0	91.0	90.7	53.7	85.8	68.0	75.2	52.3	62.5	71.0	66.3	54.7	78.8	64.5	60.8	64.3	89.3	90.8	86.7	72.2	94.2	89.7	85.0	88.8	84.3	88.2	78.7	55.5
8/23/2014	87.7	85.8	90.5	90.2	89.8	54.3	85.5	68.3	75.2	52.7	62.8	70.5	67.5	55.2	78.7	65.2	61.7	64.7	88.2	90.0	86.2	71.2	93.3	88.7	85.0	88.0	84.0	88.0	78.3	56.0
8/24/2014	86.3	84.8	90.2	89.4	89.5	55.0	85.3	68.5	75.4	52.8	63.0	70.0	68.3	55.5	78.5	65.8	62.2	65.0	87.5	89.0	85.8	70.8	92.5	87.7	84.7	87.8	83.5	87.		

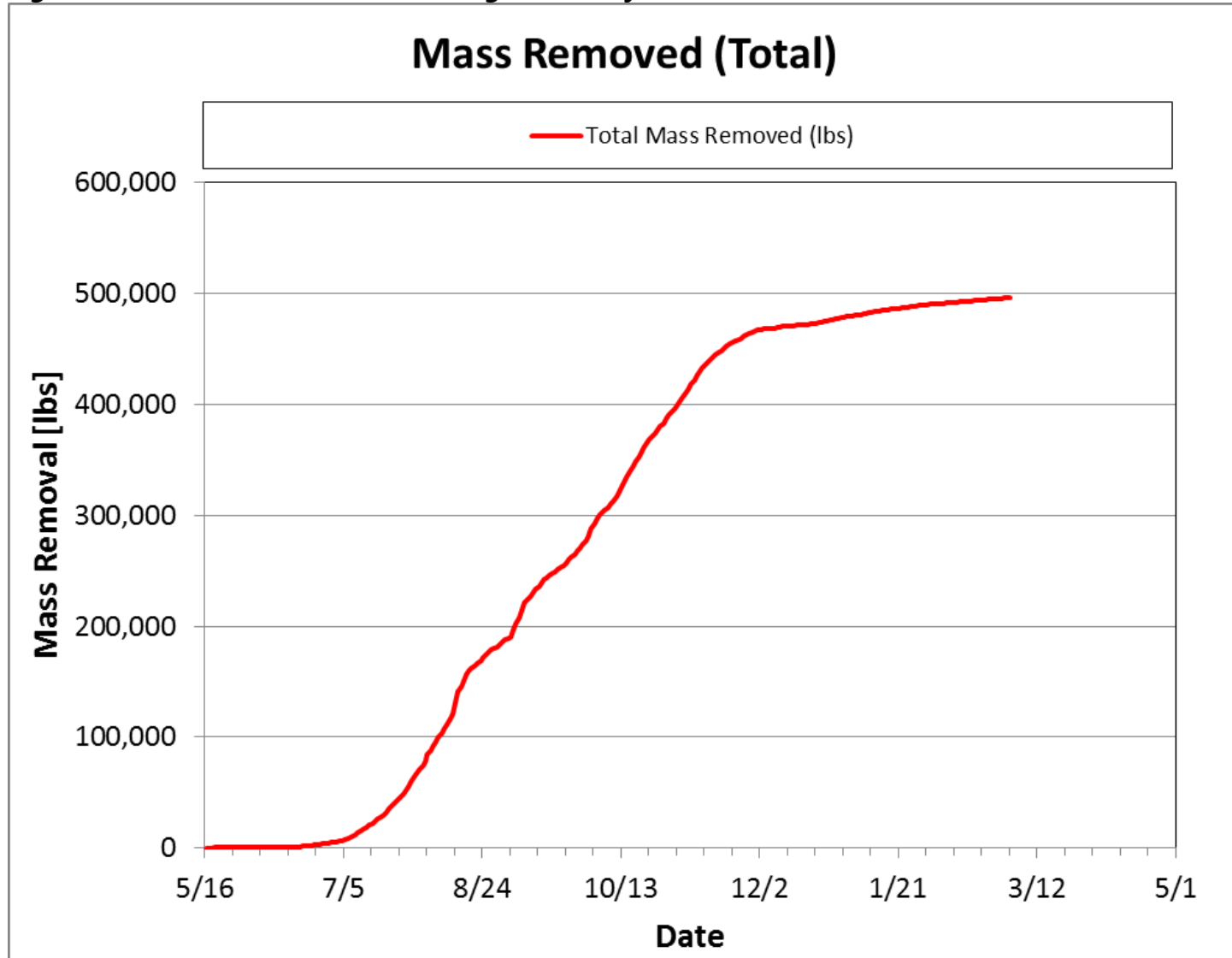
9/16/2014	81.5	89.4	86.2	90.2	83.8	61.2	83.5	69.2	73.3	56.3	63.7	63.0	72.7	59.3	74.3	72.5	66.2	68.5	89.7	96.8	93.2	76.8	98.3	89.0	86.5	81.3	80.7	84.5	84.3	57.0
9/17/2014	86.2	90.3	87.7	91.5	84.7	60.5	84.7	69.6	73.3	56.2	63.6	62.8	72.5	59.0	74.5	72.5	66.5	68.2	92.8	97.2	93.0	78.7	97.2	93.8	87.5	81.5	82.0	86.0	85.0	56.2
9/18/2014	90.3	91.0	88.7	92.8	86.0	60.7	85.7	69.8	73.7	56.2	64.2	62.7	72.8	59.0	75.5	72.7	66.8	68.0	95.7	97.8	93.2	80.3	97.0	96.5	88.7	81.8	83.5	87.2	85.7	56.3
9/19/2014	92.0	92.2	90.0	93.8	87.0	60.3	86.0	69.8	73.8	56.2	64.7	62.8	72.3	58.8	75.7	72.5	67.2	67.8	96.8	98.6	93.7	82.2	96.7	96.3	89.3	82.2	84.7	87.7	86.3	55.8
9/20/2014	95.2	93.5	91.2	95.6	88.3	60.5	86.8	70.2	74.2	56.2	65.7	63.2	73.0	59.0	76.2	73.2	67.7	68.5	98.7	99.2	94.3	84.3	99.2	98.2	90.7	82.8	85.5	89.0	87.3	56.5
9/21/2014	98.3	96.3	92.5	99.2	90.2	61.2	88.0	70.5	74.7	56.8	67.0	67.5	73.3	59.3	76.5	73.5	68.5	69.0	100.8	100.3	96.2	89.0	100.8	99.5	92.5	83.5	86.8	90.7	88.2	57.0
9/22/2014	99.3	98.2	94.0	99.2	91.7	60.4	88.8	71.2	75.0	56.5	67.7	70.0	73.3	58.8	77.8	73.3	68.5	68.8	101.7	100.3	96.0	93.5	100.8	99.8	94.2	84.5	88.0	91.8	88.5	56.5
9/23/2014	99.3	98.3	94.1	97.9	91.7	60.7	89.6	71.1	75.3	56.7	69.1	68.4	73.4	58.9	78.1	73.3	68.7	69.1	102.0	100.4	94.9	94.0	100.9	99.1	94.1	84.7	88.9	91.9	89.1	56.6
9/24/2014	99.7	98.3	94.5	98.2	92.5	60.3	90.3	71.5	76.0	56.5	70.5	67.3	74.0	59.0	78.8	73.3	69.3	69.5	102.7	100.5	94.7	95.0	101.0	99.3	94.2	85.7	89.2	92.2	90.0	56.7
9/25/2014	100.4	98.4	95.0	99.9	93.1	60.3	90.1	72.0	76.7	57.0	71.7	66.7	74.0	59.0	79.6	73.6	69.7	69.9	102.3	100.4	95.0	97.6	101.6	100.0	94.0	85.9	89.6	92.1	90.9	57.0
9/26/2014	101.3	99.1	95.9	100.7	95.6	60.4	90.9	72.3	77.0	56.7	72.6	67.1	74.6	58.9	80.4	74.1	70.3	69.4	102.9	100.3	94.9	100.4	101.8	100.9	94.4	87.8	90.8	93.2	92.7	56.6
9/27/2014	101.5	100.2	96.5	100.5	97.8	60.7	91.5	73.0	77.7	57.2	74.8	67.4	75.0	59.2	81.2	74.2	71.0	69.5	102.7	101.0	95.2	101.3	101.8	101.0	95.2	89.7	91.8	93.8	93.3	57.2
9/28/2014	101.0	100.7	96.7	100.7	97.8	61.2	91.8	73.3	78.6	57.3	76.7	67.5	75.0	59.5	82.0	74.5	71.7	69.3	102.2	101.2	95.0	101.8	101.3	100.8	96.0	90.3	92.2	94.2	93.7	57.0
9/29/2014	101.4	101.7	97.2	101.2	98.5	61.3	92.0	73.8	79.5	57.3	78.2	68.2	75.5	59.7	82.4	74.5	72.0	69.3	101.7	101.2	95.7	102.3	102.0	101.0	96.5	92.2	92.8	94.7	94.2	57.3
9/30/2014	101.2	103.0	97.0	101.0	98.8	61.0	92.0	74.2	80.2	57.3	79.5	68.5	75.5	60.0	83.0	75.0	72.3	69.3	101.3	101.2	95.0	102.2	102.0	100.8	97.0	93.4	93.2	95.0	94.5	57.0
10/1/2014	100.7	104.7	97.0	101.0	98.0	61.0	92.0	75.0	81.0	57.0	80.2	70.2	76.0	60.0	83.0	75.0	73.0	69.0	101.2	101.0	95.8	102.0	100.8	100.0	97.3	94.3	93.6	96.0	94.2	57.0
10/2/2014	99.8	106.8	97.0	100.8	97.0	61.2	92.8	75.3	82.0	57.3	81.8	72.8	76.2	60.0	83.8	74.8	73.3	68.7	100.8	101.8	95.7	102.2	98.5	99.8	97.5	95.0	93.5	95.8	92.8	56.8
10/3/2014	100.0	105.5	97.2	101.3	96.7	61.5	93.5	76.3	82.7	57.2	83.3	71.7	76.4	60.0	84.6	75.0	73.5	68.0	99.8	101.3	93.6	102.7	97.3	100.5	96.3	94.8	94.0	95.3	92.8	57.0
10/4/2014	100.8	105.5	97.2	101.8	97.8	61.8	93.0	76.5	83.6	57.2	84.8	72.7	76.8	60.0	84.0	74.8	74.0	67.8	100.0	101.0	93.7	102.0	99.0	101.0	96.0	96.7	94.2	95.3	92.2	57.0
10/5/2014	99.6	106.0	97.0	101.3	97.8	61.5	93.0	77.5	84.6	57.0	86.6	79.8	77.0	60.0	85.2	74.8	74.4	66.8	100.7	100.8	93.5	100.5	97.3	100.3	95.8	97.0	94.8	95.8	91.8	56.8
10/6/2014	99.0	104.5	96.7	100.8	96.5	61.8	93.0	78.0	85.7	57.5	86.8	80.0	77.2	60.8	85.5	74.8	74.5	67.0	100.0	100.2	92.4	98.5	95.5	100.4	95.2	96.8	94.3	94.2	91.0	57.0
10/7/2014	100.3	104.0	96.7	101.2	97.2	62.3	92.5	79.0	86.8	57.7	86.5	81.2	78.2	62.0	85.8	75.2	74.8	67.0	99.5	100.3	93.0	99.3	96.8	101.2	95.5	97.7	94.5	94.3	90.6	57.7
10/8/2014	100.0	103.8	97.2	100.8	98.8	62.3	92.7	79.8	87.3	57.8	86.3	83.4	78.6	62.5	86.7	75.7	75.4	66.5	100.5	99.8	93.0	100.8	97.2	100.8	95.0	99.0	94.8	95.0	91.3	57.6
10/9/2014	96.8	103.0	96.6	98.9	97.5	62.8	92.4	81.0	87.9	57.8	87.0	82.7	79.3	63.4	87.8	75.7	75.5	66.0	97.7	99.3	91.6	100.7	95.5	100.0	95.0	98.4	94.6	95.0	92.0	57.8
10/10/2014	93.9	102.9	96.1	98.0	98.4	63.5	92.9	82.0	89.0	58.0	86.6	82.4	80.4	64.3	87.9	76.3	76.2	66.1	94.6	99.4	90.8	101.1	95.9	100.0	95.7	98.6	94.1	95.4	93.1	58.3
10/11/2014	90.3	101.5	95.0	96.6	95.0	64.1	92.9	82.4	89.0	58.2	86.3	78.8	80.2	65.3	87.0	76.3	76.0	66.0	91.0	98.9	89.3	100.4	94.7	98.7	96.0	94.5	94.0	94.0	92.7	58.6
10/12/2014	87.0	100.8	94.3	95.7	93.2	64.5	92.5	83.7	88.8	58.2	86.2	76.7	80.8	65.7	87.3	77.0	76.3	65.8	89.8	98.2	89.2	100.3	93.5	98.0	95.8	92.8	93.7	93.5	93.3	58.8
10/13/2014	85.0	100.3	94.0	95.4	91.0	66.4	92.4	84.6	89.0	59.4	85.8	75.6	81.8	67.4	86.8	76.8	76.5	65.8	88.0	98.8	89.0	99.8	93.0	98.0	96.0	91.4	93.6	93.6	93.8	59.8
10/14/2014	83.5	99.8	94.2	95.6	91.4	67.6	92.5	85.5	89.0	60.2	86.2	76.4	83.0	68.6	86.6	78.7	77.8	66.5	87.5	99.2	89.6	101.2	93.4	99.3	96.4	91.8	94.0	95.0	94.0	60.8
10/15/2014	82.7	99.3	94.0	95.0	92.6	68.8	92.3	86.8	89.2	60.6	86.1	80.8	83.5	70.4	86.5	81.5	78.0	66.9	87.0	99.0	90.2	101.8	95.7	100.6	97.7	91.0	95.9	98.0	95.5	61.9
10/16/2014	82.1	101.4	94.0	95.0	94.1	70.0	92.3	87.2	89.8	61.1	87.4	87.9	84.0	71.5	86.1	84.3	78.3	67.0	86.4	99.0	90.7	102.0	100.4	100.5	100.0	91.0	97.3	99.8	96.3	62.5
10/17/2014	82.4	101.8	94.0	94.8	96.8	70.8	92.2	88.5	90.4	61.8	90.4	93.0	84.8	73.8	87.3	86.4	79.6	68.2	86.0	99.3	89.8	101.7	100.4	100.0	101.0	91.0	99.4	99.8	97.2	63.8
10/18/2014	82.5	99.2	94.0	94.2	95.8	72.3	92.8	89.2	91.0	62.4	93.7	94.0	85.6	78.0	87.6	89.6	80.0	69.3	85.2	98.3	88.0	101.2	100.8	99.2	101.2	91.5	99.8	99.8	97.2	64.3
10/19/2014	81.0	96.9	93.5	93.0	95.2	73.0	92.4	89.4	91.0	63.4	94.7	92.4	86.3	82.9	88.3	91.9	80.7	70.0	84.5	97.9	87.5	101.7	99.0	96.5	100.0	91.7	98.6	98.9	97.7	65.0
10/20/2014	79.8	95.6	93.5	92.0	93.2	73.8	92.4	89.7	91.0	64.7	93.1	91.1	86.7	84.7	87.5	91.9	81.0	70.7	82.4	97.5	87.5	100.6	98.7	94.9	99.0	91.0	97.0	99.3	97.9	65.6
10/21/2014	78.9	94.9	93.1	91.4	94.0	74.5	92.2	90.7	91.2	65.4	93.8	96.6	87.0	88.8	87.0	95.8	82.0	71.7	82.6	97.1	88.1	101.3	100.8	95.6	99.2	91.0	99.6	100.0	98.8	67.2
10/22/2014	77.9	95.0	92.0	91.0	95.0	75.0	92.0	90.9	91.0	66.0	96.0	98.0	87.6	93.0	87.0	98.0	82.7	73.0	80.9	97.0	88.0	101.0	101.0	96.2	100.0	91.0	99.6	100.0	98.8	68.8
10/23/2014	78.8	96.1	92.0	92.0	99.5	76.0	92.0	91.5	92.5	68.0	99.0	99.0	88.5	97.5	89.5	99.0	84.0	74.5	80.8	97.3	89.0	102.0	101.5	101.0	101.0	96.0	100.0	100.0	100.3	77.5
10/26/2014	82.0	102.0	94.0	96.0	102.0	78.0	94.0	94.0	97.0	72.0	101.0	99.0	93.0	100.0	96.0	100.0	87.0	98.0	83.0	98.0	95.0	104.0	102.0	102.0	102.0	99.0	101.0	102.0	102.0	90.0
10/28/2014	82.5	102.9	94.9	95.1	101.7	79.7	93.6	95.3	99.0	77.1	101.6	99.9	94.6	101.8	98.0	100.1	89.9	101.0	82.3	99.1	96.9	103.5	102.0	101.2	102.0	100.0	101.5	101.5	102.2	94.6
10/29/2014	82.9	105.0	95.0	96.5	101.2	80.3	93.3	95.1	99.7	79.0	101.5	99.7	95.4	101.9	98.5	100.0	90.7	101.1	82.2	99.2	99.0	103.2	102.1	101.1	102.0	99.9	101.2	101.8	101.8	95.4
10/30/2014	83.5	106.6	95.1	97.2	101.1	80.9	93.8	96.0	99.9	82.5	101.5	99.7	96.4	101.6	99.1	100.2	92.1	100.9	82.9	99.0	99.0	103.4	102.0	101.1	102.0	99.6	101.2	102.0	102.1	96.2
10/31/2014	84.1	107.8	95.0																											

11/23/2014	71.6	82.0	89.1	85.7	88.3	83.0	88.6	89.9	87.0	84.2	81.1	97.6	91.2	75.6	82.6	99.3	90.7	85.0	74.1	87.9	82.6	100.3	101.9	84.0	94.5	82.6	86.9	90.6	95.6	72.4
11/24/2014	71.8	82.4	89.7	85.9	88.3	83.5	88.6	90.7	87.8	85.2	82.8	99.8	91.0	77.3	83.3	99.9	91.0	86.2	73.9	89.4	83.2	100.3	101.7		98.4	82.5	95.4	96.3	96.7	72.3
11/25/2014	71.7	83.2	90.0	85.7	89.3	83.8	89.0	90.5	89.5	86.0	84.9	98.7	91.3	79.3	84.9	99.6	91.2	87.4	73.5	89.8	83.9	99.7	101.8	86.3	100.4	82.0	97.3	97.5	96.8	72.3
11/26/2014	71.2	83.0	90.0	85.0	88.1	83.2	88.6	89.0	89.4	86.0	86.0	96.3	91.0	80.2	85.0	99.5	91.0	87.0	73.0	88.9	84.0	99.0	101.9	87.8	99.4	81.2	96.8	96.6	97.4	72.4
11/27/2014	71.0	83.0	89.8	84.7	87.2	83.3	89.1	89.8	90.4	87.0	87.5	98.3	91.6	81.4	85.7	99.4	91.0	86.9	72.7	89.1	83.9	98.7	101.9	93.0	100.7	80.9	99.0	96.6	99.3	69.9
11/28/2014	70.7	82.8	89.9	83.9	86.8	83.1	89.3	90.3	90.9	87.0	88.2	95.7	91.7	81.8	86.4	99.7	90.8	85.5	72.9	88.9	82.6	97.9	101.6	96.4	100.1	80.1	98.5	95.1	96.9	67.7
11/29/2014	71.0	83.0	89.1	84.0	85.1	83.7	90.0	90.4	91.0	87.4	89.0	92.0	91.6	82.6	86.0	100.0	90.0	85.0	72.0	88.7	82.4	97.0	102.0	96.7	98.7	80.0	98.4	95.1	95.7	70.0
11/30/2014	70.9	83.0	89.8	83.8	85.8	83.5	90.0	91.5	91.4	88.3	89.6	95.8	92.2	83.8	86.7	100.1	90.4	84.9	72.3	89.0	82.7	98.5	101.9	97.3	99.3	79.9	100.0	97.9	96.4	71.7
12/1/2014	70.8	83.0	90.3	83.3	85.9	83.8	89.7	92.1	91.9	88.6	90.8	98.8	91.9	84.2	87.2	99.9	90.4	85.0	72.0	89.6	83.0	98.2	102.0	97.2	100.3	79.7	99.7	98.8	96.8	73.4
12/2/2014	70.6	82.8	90.0	83.0	85.3	83.3	89.0	90.0	91.0	89.0	91.0	93.5	91.2	84.2	87.0	98.3	90.0	85.0	71.3	88.7	83.0	95.7	102.0	93.1	99.0	79.3	96.9	96.2	95.9	74.0
12/3/2014	70.5	82.4	90.0	83.0	85.0	83.5	89.3	90.4	90.4	89.7	91.0	96.8	91.2	84.6	86.9	99.9	90.0	85.0	71.0	88.5	83.1	97.0	102.0	92.6	99.3	79.9	99.3	97.4	96.7	75.0
12/4/2014	69.9	82.0	90.0	82.4	85.4	83.0	89.6	90.6	90.0	89.0	90.6	94.9	91.4	84.6	87.1	99.0	90.3	85.0	71.5	89.0	83.0	96.9	101.9	92.8	99.3	79.7	98.3	96.5	96.6	76.0
12/5/2014	69.8	82.1	89.6	82.5	85.0	82.9	89.2	90.8	90.0	89.0	90.1	90.3	91.2	84.0	86.6	98.6	90.0	84.6	71.2	88.2	83.1	96.6	102.0	92.0	98.8	79.6	97.4	95.2	97.1	76.1
12/6/2014	70.0	82.0	90.0	82.8	84.0	82.6	89.1	91.3	90.0	89.1	90.0	90.5	91.1	84.7	86.6	100.0	89.9	84.0	71.0	87.7	83.0	97.1	102.0	93.7	100.1	79.8	99.7	98.0	97.7	76.0
12/7/2014	69.5	81.6	89.8	81.8	83.5	82.1	88.6	91.3	90.1	89.0	90.7	89.0	90.5	84.0	86.5	98.8	89.2	82.8	70.8	86.3	82.3	95.2	101.0	94.4	100.8	79.0	97.5	96.4	96.7	73.2
12/8/2014	69.0	80.6	89.0	81.7	82.5	82.0	88.3	92.1	90.3	89.0	90.6	84.8	90.5	83.5	86.0	97.8	89.0	82.0	70.1	84.7	81.2	96.0	101.0	93.1	100.0	78.6	96.5	95.1	97.1	72.6
12/9/2014	69.0	79.1	89.1	81.0	82.0	82.0	88.2	93.6	90.1	90.4	91.3	87.7	90.5	84.2	86.4	99.1	89.0	81.0	69.9	83.2	80.7	98.0	101.8	93.6	100.0	79.0	98.9	98.4	97.9	73.5
12/10/2014	68.0	77.6	90.0	80.8	82.5	83.0	89.0	94.6	92.0	96.5	96.6	96.2	91.0	86.8	89.0	99.7	89.2	81.0	69.3	81.9	81.0	95.9	101.0	96.8	99.5	79.0	100.0	99.9	99.3	76.3
12/11/2014	67.7	77.1	89.8	80.6	82.1	83.1	89.0	93.8	92.8	97.8	95.5	93.8	91.3	87.9	89.2	99.0	89.9	81.0	68.5	80.9	80.9	96.4	99.3	97.9	99.8	78.5	99.9	99.3	98.1	78.0
12/12/2014	67.0	76.3	89.0	79.9	81.4	83.0	89.0	93.2	92.7	98.1	94.1	90.2	91.5	88.3	89.0	99.7	90.0	81.0	67.5	79.7	79.9	97.3	97.0	97.3	100.0	78.0	99.6	99.5	97.8	79.3
12/13/2014	66.4	75.4	89.1	79.0	81.1	82.9	89.0	94.0	92.5	99.5	94.0	95.2	91.7	90.0	89.6	100.0	90.3	80.6	67.0	79.0	79.0	98.5	98.0	96.8	99.9	78.1	100.1	100.4	98.4	81.2
12/14/2014	65.8	75.4	89.0	78.8	80.9	83.9	89.1	94.9	93.0	100.2	94.6	99.6	92.3	97.7	91.3	100.1	90.6	82.1	66.0	79.0	79.0	99.3	100.8	97.0	99.8	78.1	100.2	101.0	99.5	84.3
12/15/2014	64.8	76.4	89.1	77.9	81.5	84.7	89.9	95.6	93.8	100.3	95.0	99.9	93.2	99.8	93.8	100.0	91.4	84.6	65.5	79.6	79.0	100.1	100.8	97.3	99.2	78.2	100.5	101.2	99.9	87.0
12/16/2014	64.0	77.7	89.2	77.7	81.4	85.8	90.0	95.1	95.0	100.8	96.5	100.3	94.1	100.8	95.6	100.0	92.0	90.1	64.6	81.5	80.0	100.6	101.8	98.3	99.2	78.0	100.7	101.9	100.7	89.1
12/17/2014	64.0	79.4	90.2	77.3	82.4	87.7	90.1	96.6	96.9	101.0	99.4	100.8	96.3	101.0	99.3	100.0	93.5	97.9	64.4	81.8	80.8	101.5	101.5	99.6	100.2	78.9	101.0	102.1	101.2	91.9
12/18/2014	63.1	80.3	90.3	77.0	82.7	89.1	90.2	96.3	98.6	101.0	100.2	100.8	97.8	101.0	100.0	99.8	94.2	100.2	63.3	81.0	81.0	101.0	101.8	99.4	99.8	79.2	100.7	102.0	101.0	93.8
12/19/2014	62.7	80.9	90.7	76.7	83.0	90.0	90.2	95.0	99.6	101.0	100.7	100.8	99.0	101.0	100.1	100.0	95.0	101.0	62.7	81.0	81.0	101.2	102.0	99.3	99.5	80.0	100.7	102.0	101.0	95.3
12/20/2014	62.0	81.4	90.8	76.4	83.8	90.9	90.7	96.0	100.0	101.0	100.9	101.0	100.1	101.3	100.9	100.0	96.0	101.2	62.0	81.6	81.3	101.8	102.0	99.9	99.5	81.2	101.0	102.0	101.7	96.5
12/21/2014	62.0	83.4	91.0	76.5	85.2	91.5	91.0	97.0	100.7	101.4	101.3	101.0	100.9	101.5	101.0	100.0	96.6	101.4	61.7	84.2	82.4	102.0	102.0	100.1	99.9	82.3	101.0	102.1	101.6	97.9
12/22/2014	61.6	86.9	91.9	77.0	87.0	92.5	91.4	97.6	101.6	102.0	101.8	101.0	101.4	102.0	101.1	100.3	97.7	102.0	61.2	88.5	83.8	102.8	102.0	101.0	100.3	84.8	101.1	102.6	102.0	99.3
12/23/2014	61.0	91.2	93.3	77.2	88.6	93.3	91.8	98.3	102.0	102.0	101.5	101.0	101.0	102.0	101.3	100.1	99.0	101.6	61.0	91.5	86.4	103.0	102.0	101.0	100.5	91.9	101.0	102.3	101.5	99.2
12/24/2014	61.7	95.4	94.0	78.6	91.7	95.3	92.0	98.1	102.0	101.9	101.0	101.0	101.3	102.0	101.8	100.1	100.0	101.1	60.9	93.4	97.8	102.8	101.8	101.3	100.1	98.8	101.0	102.0	101.6	99.3
12/25/2014	62.8	100.2	94.6	84.0	98.4	98.0	92.9	99.8	102.0	101.5	101.1	101.0	101.1	102.0	101.3	99.8	100.3	101.3	60.7	95.0	101.6	102.0	101.6	101.6	100.0	99.1	101.1	102.0	101.3	98.3
12/26/2014	63.5	98.6	94.6	87.5	98.4	97.0	93.3	98.2	102.0	101.2	100.6	101.0	101.5	101.9	102.0	99.6	100.3	101.1	60.9	95.7	100.3	102.5	101.8	101.4	100.1	99.4	101.3	102.3	102.2	97.0
12/27/2014	65.0	100.4	95.2	93.0	100.6	97.5	93.8	98.3	102.0	101.3	101.0	101.2	101.8	102.0	102.2	100.1	100.6	101.6	61.5	96.6	102.0	102.8	101.8	101.9	100.3	99.7	101.2	102.5	102.2	97.6
12/28/2014	67.8	103.1	95.6	97.7	99.9	99.0	93.9	98.7	102.3	101.9	101.5	101.0	101.9	102.0	102.0	100.1	101.0	101.7	62.6	97.7	102.5	103.0	102.0	102.6	100.3	99.7	101.1	102.5	101.9	98.7
12/29/2014	70.3	102.7	95.6	98.3	98.8	98.3	94.0	97.5	102.0	101.3	100.9	101.0	101.5	101.9	102.0	100.0	100.9	101.1	64.9	97.9	102.0	103.1	101.8	102.1	100.0	99.4	101.1	102.2	102.0	98.3
12/30/2014	73.3	103.0	95.4	99.1	98.1	98.0	94.0	96.7	102.0	101.1	100.8	101.0	101.4	102.0	102.2	100.1	100.8	101.0	67.3	98.6	102.0	103.1	101.9	102.0	100.1	99.1	101.1	102.2	102.1	98.2
12/31/2014	75.7	103.2	95.4	100.4	99.3	98.1	94.1	96.7	102.0	101.3	100.7	100.8	101.7	101.8	102.1	100.1	99.9	101.2	70.5	99.0	101.8	103.3	101.8	102.2	99.4	99.3	101.2	102.1	101.8	98.1
1/1/2015	79.0	104.1	95.8	100.9	100.6	98.1	94.1	97.5	101.9	101.1	100.8	100.8	101.5	101.8	101.9	100.0	99.3	101.0	73.3	99.5	101.7	103.1	101.7	101.9	99.3	99.3	100.9	102.1	101.7	98.7
1/2/2015	82.1	104.6	96.1	101.3	100.8	98.4	94.0	96.9	102.0	101.4	100.7	100.9	101.4	102.0	101.7	100.1	98.8	101.2	75.8	100.0	101.8	103.0	102.0	102.1	99.3	99.7	100.7	102.0	101.6	98.8
1/3/2015	83.5	104.6	96.3	101.6	101.1	98.0	93.8	95.3	102.0	101.7	100.2	101.0	101.7	102.2	101.9	100.3	98.1	101.6												

1/27/2015	92.8	105.2	97.4	96.8	100.1	96.1	96.5	100.4	99.0	100.3	100.1	99.0	100.4	101.0	100.5	100.1	96.4	100.3	101.0	100.1	98.1	102.0	101.5	101.8	94.9	98.0	97.0	96.4	100.9	83.6
1/28/2015	91.8	104.5	97.0	94.5	99.1	95.7	96.1	99.6	98.4	100.5	98.9	94.0	100.0	101.0	99.9	100.3	96.6	98.9	101.1	99.9	97.1	102.6	101.8	101.3	94.1	97.0	95.8	94.6	100.5	82.3
1/29/2015	90.5	103.0	96.7	92.3	97.6	95.6	96.4	99.1	97.6	98.2	96.7	89.4	99.5	101.3	97.7	100.4	96.5	95.7	102.2	99.5	97.2	103.0	102.0	101.5	93.5	93.3	94.8	93.7	100.2	81.5
1/30/2015	91.5	103.8	97.1	90.7	96.5	96.0	95.8	99.1	97.6	97.2	95.4	91.9	99.2	101.9	98.4	100.0	96.5	93.9	101.1	100.5	96.8	102.2	102.0	101.3	92.6	93.3	94.8	94.3	99.8	81.6
1/31/2015	91.3	103.4	96.5	89.0	95.4	94.9	94.3	98.6	97.1	97.3	95.6	97.0	99.4	101.3	99.6	99.3	96.8	95.2	100.8	100.8	95.8	101.0	101.8	101.0	92.7	92.5	94.9	95.0	98.8	81.0
2/1/2015	93.5	104.9	96.6	89.0	98.5	95.2	95.6	99.8	98.5	100.3	99.1	99.4	100.6	101.9	100.8	99.9	97.7	100.0	102.0	100.2	95.8	98.8	101.8	101.1	92.8	94.5	98.1	97.5	100.5	83.0
2/2/2015	91.7	104.2	96.0	88.0	96.9	95.0	94.4	99.0	98.1	99.9	97.0	96.8	101.2	101.2	99.4	99.5	97.3	99.3	101.1	99.1	95.5	94.9	101.4	101.0	92.5	92.4	96.3	94.1	97.1	83.0
2/3/2015	89.5	101.8	94.9	86.0	93.9	93.6	93.5	98.0	96.6	96.5	93.4	90.5	99.6	97.6	96.3	97.7	97.0	97.0	100.1	97.5	94.9	91.9	101.8	100.7	91.2	89.9	93.9	91.9	94.0	83.0
2/4/2015	88.7	100.8	94.5	85.3	90.7	93.6	93.0	97.2	95.7	94.8	91.5	86.8	98.3	95.5	92.8	96.0	96.4	93.0	99.4	97.8	95.0	89.0	102.2	100.9	90.1	88.5	91.3	91.0	92.2	83.0
2/5/2015	88.5	98.6	93.7	83.7	88.4	92.8	92.0	96.7	94.5	92.4	89.2	84.1	97.5	92.1	90.4	94.8	95.9	88.5	99.5	96.3	93.3	86.1	101.3	99.8	88.5	86.9	89.6	89.5	90.1	81.9
2/6/2015	86.3	95.3	92.1	81.7	86.2	91.3	91.2	95.8	92.5	90.1	87.0	80.2	96.1	88.8	88.2	91.5	94.9	84.3	97.7	93.7	90.8	84.5	100.9	97.8	87.9	85.4	87.3	88.1	88.4	80.9
2/7/2015	86.3	94.1	91.5	81.2	84.9	92.0	90.9	96.0	91.9	89.6	85.8	80.6	95.8	87.7	86.3	90.9	94.3	81.6	96.0	93.7	90.9	84.0	102.0	97.0	87.2	84.8	85.7	87.6	87.1	80.8
2/8/2015	85.9	92.8	90.8	79.9	83.9	92.0	89.8	95.7	90.8	88.7	84.1	82.3	96.1	86.5	84.5	91.4	94.0	78.8	95.2	93.7	91.2	83.6	101.4	96.5	86.4	83.7	84.3	86.8	86.1	79.7
2/9/2015	85.0	91.7	89.6	78.4	82.9	91.8	88.7	95.0	90.0	87.4	82.2	83.3	96.0	84.9	82.5	90.1	93.3	76.1	93.5	93.0	91.0	82.8	100.0	95.8	87.0	82.0	83.0	86.0	85.0	78.6
2/10/2015	84.8	91.4	89.0	77.7	82.5	92.0	88.5	95.3	89.9	87.1	80.9	85.4	96.3	84.0	80.7	88.3	93.1	74.2	92.5	93.8	91.8	82.4	100.6	96.0	86.3	82.3	82.6	85.8	84.2	77.9
2/11/2015	83.9	91.0	88.6	76.5	82.7	91.3	88.5	95.7	89.3	87.0	79.6	82.6	96.6	83.5	79.5	84.8	92.7	72.2	91.6	94.2	92.2	83.1	98.1	96.3	85.6	82.7	82.8	85.3	83.5	76.8
2/12/2015	84.0	91.8	88.5	75.7	82.6	92.3	88.5	95.9	90.0	87.9	78.8	81.4	96.8	85.9	78.0	90.0	91.9	71.5	90.9	95.1	93.2	85.0	100.1	99.3	86.2	82.7	84.8	85.8	83.9	77.7
2/13/2015	83.3	91.1	87.7	74.1	82.8	91.4	87.6	95.5	89.9	87.3	77.5	79.9	96.9	85.9	77.1	90.9	91.0	69.3	89.9	94.5	93.0	88.0	95.7	97.6	86.5	82.6	85.5	85.3	84.3	77.3
2/14/2015	83.2	92.3	87.6	73.9	82.8	92.1	88.1	96.3	90.6	88.2	77.3	80.8	97.4	91.0	76.3	95.0	90.1	69.2	90.3	95.4	93.6	91.9	98.4	100.2	87.6	83.0	86.5	86.4	85.9	78.3
2/15/2015	84.0	93.0	88.8	72.9	83.4	92.0	87.3	96.6	91.7	88.7	76.9	84.3	99.0	98.2	75.8	95.5	90.0	67.7	90.6	95.0	93.6	95.3	98.3	99.7	87.9	84.3	88.5	86.8	87.9	78.5
2/16/2015	83.5	93.2	88.7	72.0	84.1	91.5	87.8	95.9	91.9	88.5	77.2	84.5	99.2	95.0	75.8	93.1	89.5	66.9	89.9	95.5	93.5	96.3	93.5	99.6	88.4	84.7	88.5	86.9	89.0	78.8
2/17/2015	84.0	94.0	89.0	71.7	84.5	92.0	88.1	96.8	92.1	89.3	77.7	88.4	99.8	98.5	75.5	92.4	89.5	66.9	90.2	96.0	94.0	97.8	91.4	100.0	89.1	85.1	89.8	87.5	91.2	79.9
2/18/2015	84.3	94.5	89.3	70.9	85.0	92.3	88.5	97.0	92.6	89.7	77.6	89.4	100.7	100.6	75.3	91.9	90.0	66.3	90.7	95.1	92.4	99.0	89.3	99.9	89.3	85.6	90.3	88.7	93.7	80.7
2/19/2015	85.1	93.8	90.0	70.0	85.2	92.2	88.3	96.8	93.0	90.0	78.7	92.3	100.5	100.9	74.9	92.9	89.6	65.9	91.0	94.9	91.2	99.5	87.7	99.9	89.4	86.1	91.3	89.5	95.0	81.8
2/20/2015	84.7	92.9	89.8	69.0	85.5	92.0	88.3	96.4	93.0	89.3	79.5	88.8	100.5	100.0	74.9	92.6	89.5	65.4	90.7	94.5	92.3	99.3	85.5	99.4	90.3	86.2	90.7	89.3	94.9	81.9
2/21/2015	84.9	93.5	90.0	69.3	85.0	92.2	88.3	96.6	93.4	89.6	79.6	89.0	100.3	100.2	74.6	92.8	89.1	65.7	89.9	95.6	93.5	99.8	84.4	99.5	90.3	85.8	90.3	89.5	95.8	81.9
2/22/2015	86.3	94.5	91.3	69.0	86.0	92.9	89.7	97.7	93.9	91.1	80.0	93.3	101.3	101.9	74.3	94.6	90.2	65.5	91.0	97.1	94.5	101.0	82.9	100.5	90.0	87.4	93.0	91.4	97.6	83.1
2/23/2015	86.1	95.1	91.3	67.8	86.8	93.0	89.2	97.5	94.0	91.0	81.3	91.1	101.3	101.7	74.4	93.4	90.0	64.3	90.7	98.1	94.4	100.8	80.8	100.0	90.6	87.5	93.0	91.6	97.5	81.3
2/24/2015	85.3	95.1	90.6	67.0	87.1	92.6	89.6	97.2	94.1	90.8	81.4	89.4	101.4	101.1	74.7	93.4	89.4	64.3	91.2	97.4	94.1	100.9	80.0	100.7	91.6	87.4	92.4	91.6	97.7	81.1

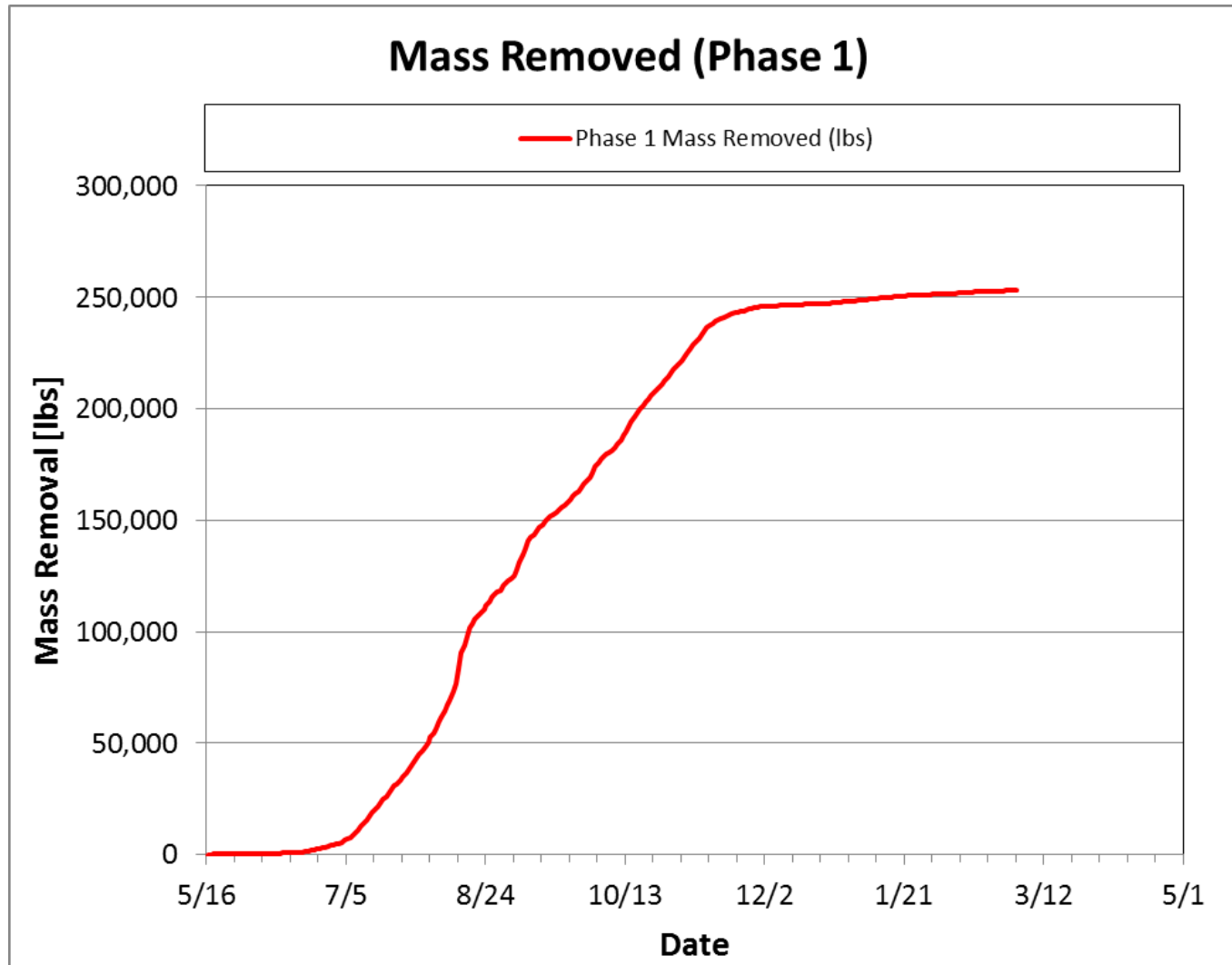
**VOC Mass Removal
Figures 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13
Tables 5 and 6**

Figure 4 - Total Mass Removed through February 20, 2015



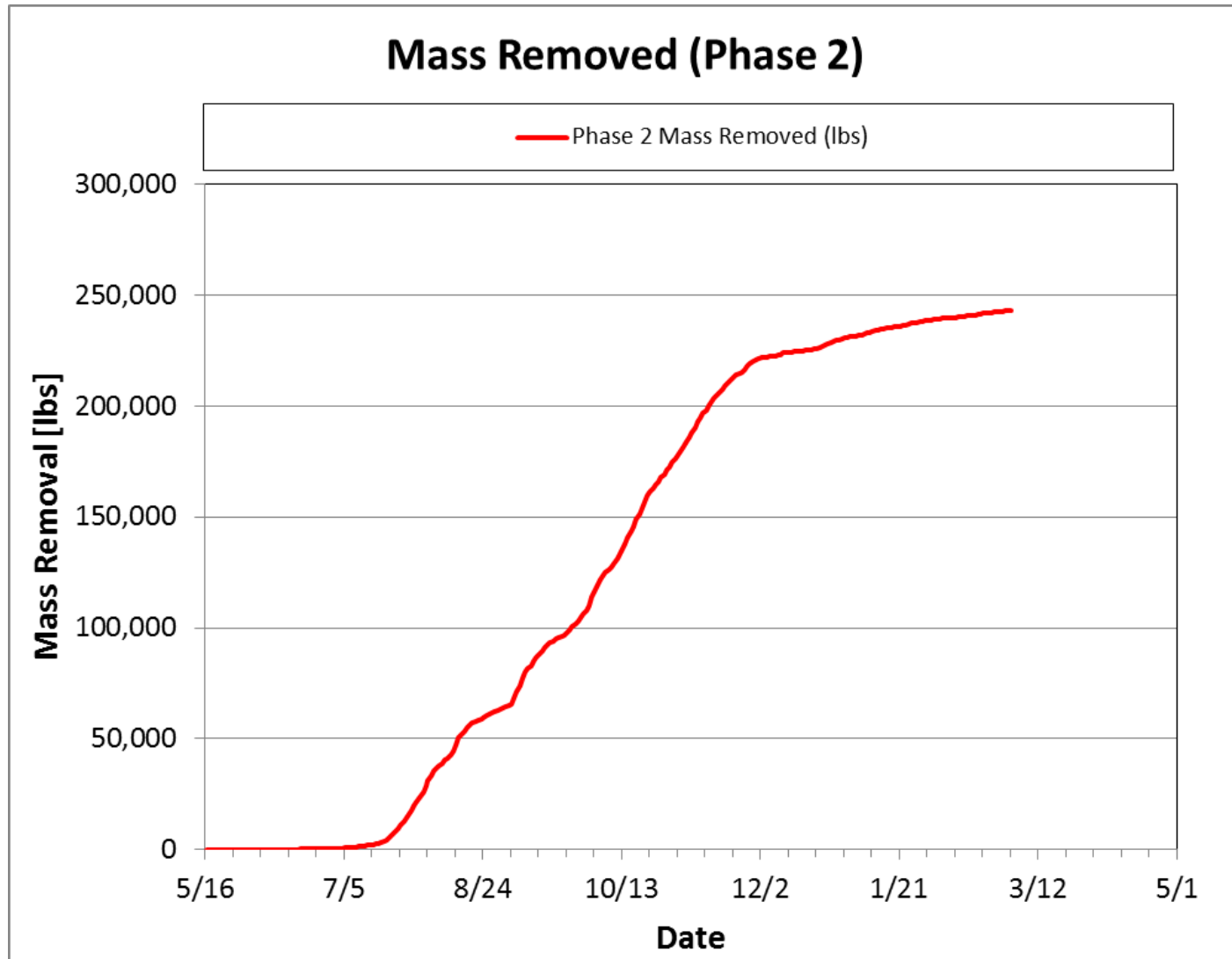
Total mass: 496,400 lbs.

Figure 5 - Phase 1 mass removed through February 20, 2015



Phase 1 total: 253,000 lbs

Figure 6- Phase 2 mass removed through February 20, 2015



Phase 2 total: 243,400 lbs

Figure 7 - Total mass removal rate (assumes all TO-15 reported compounds)

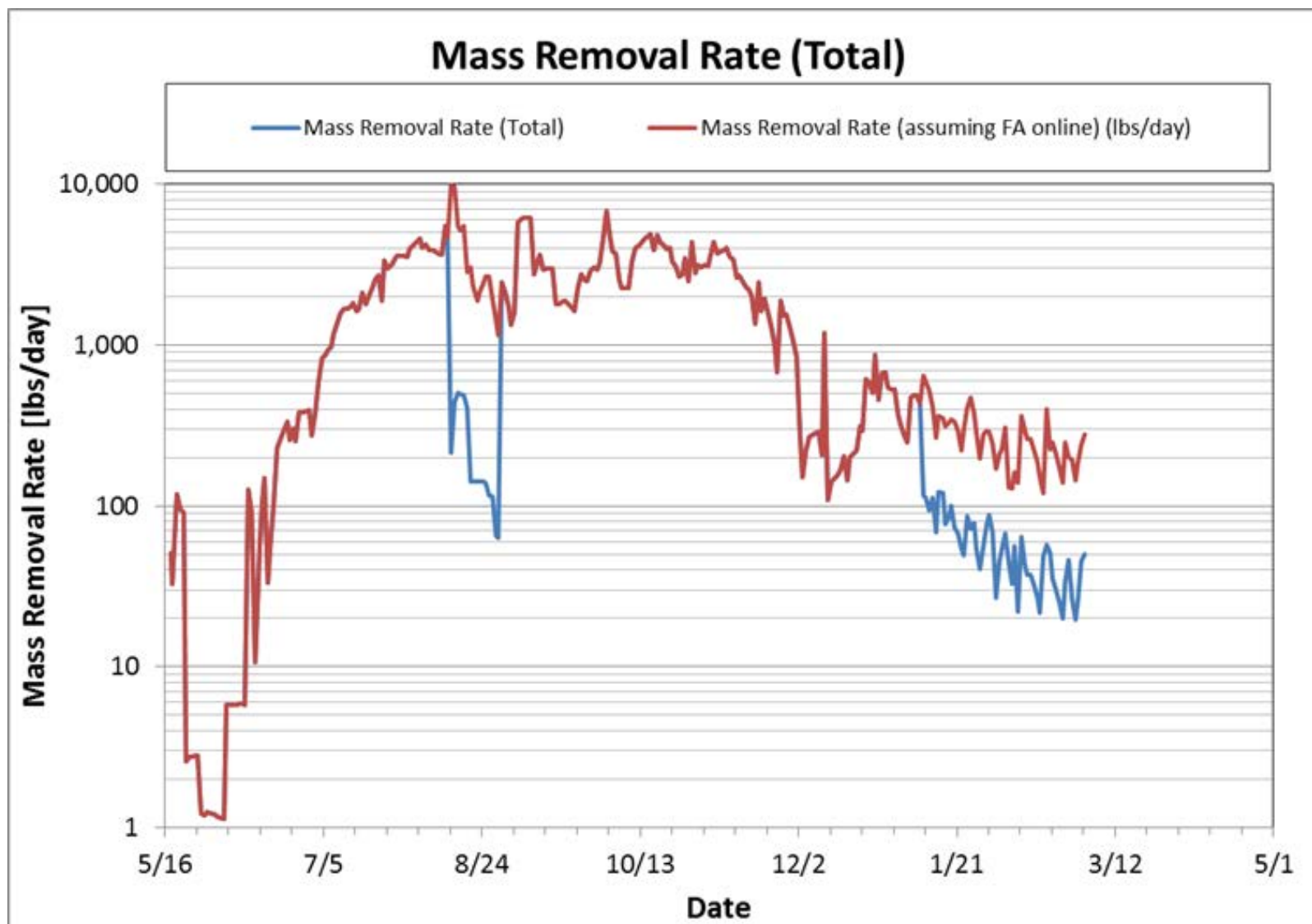
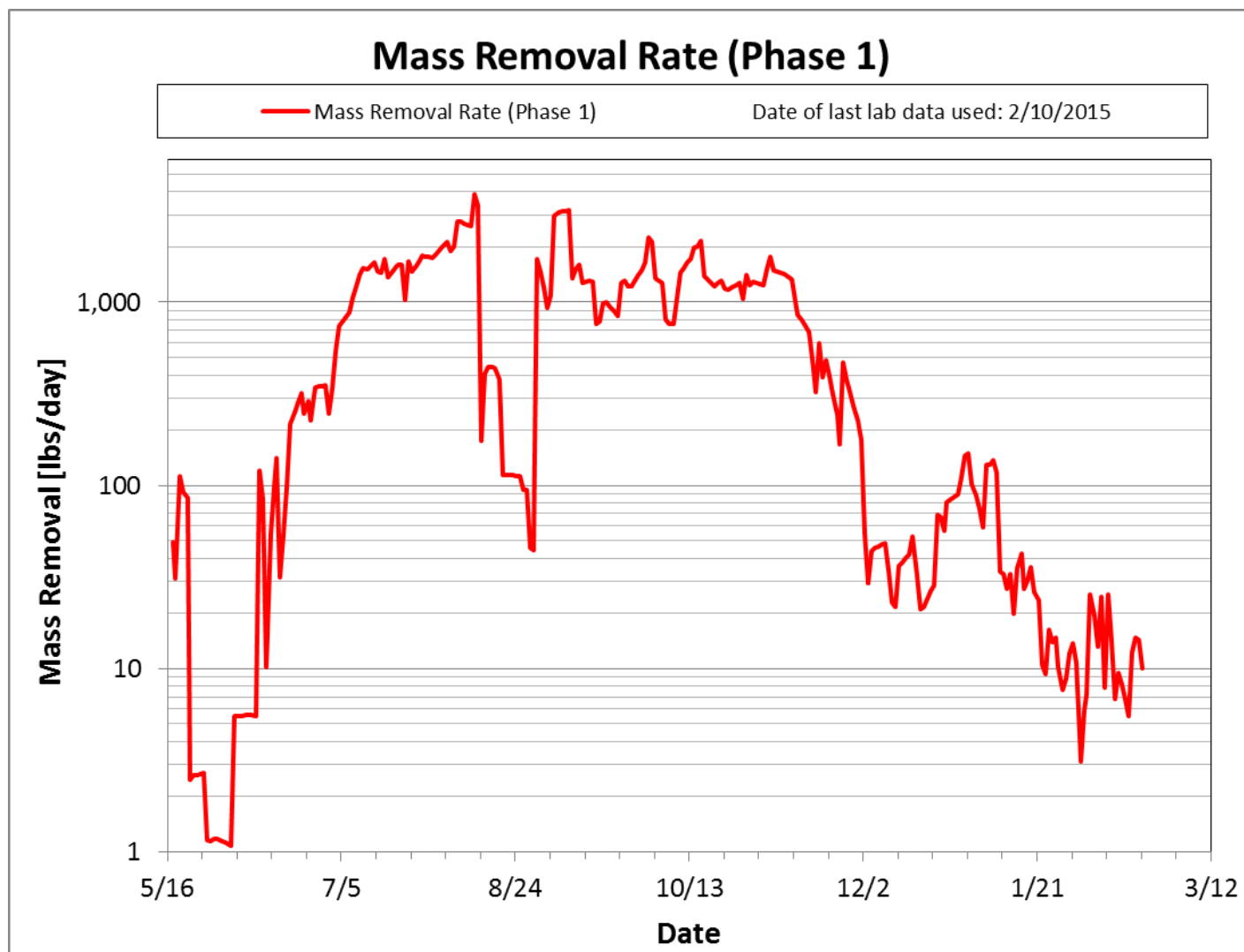
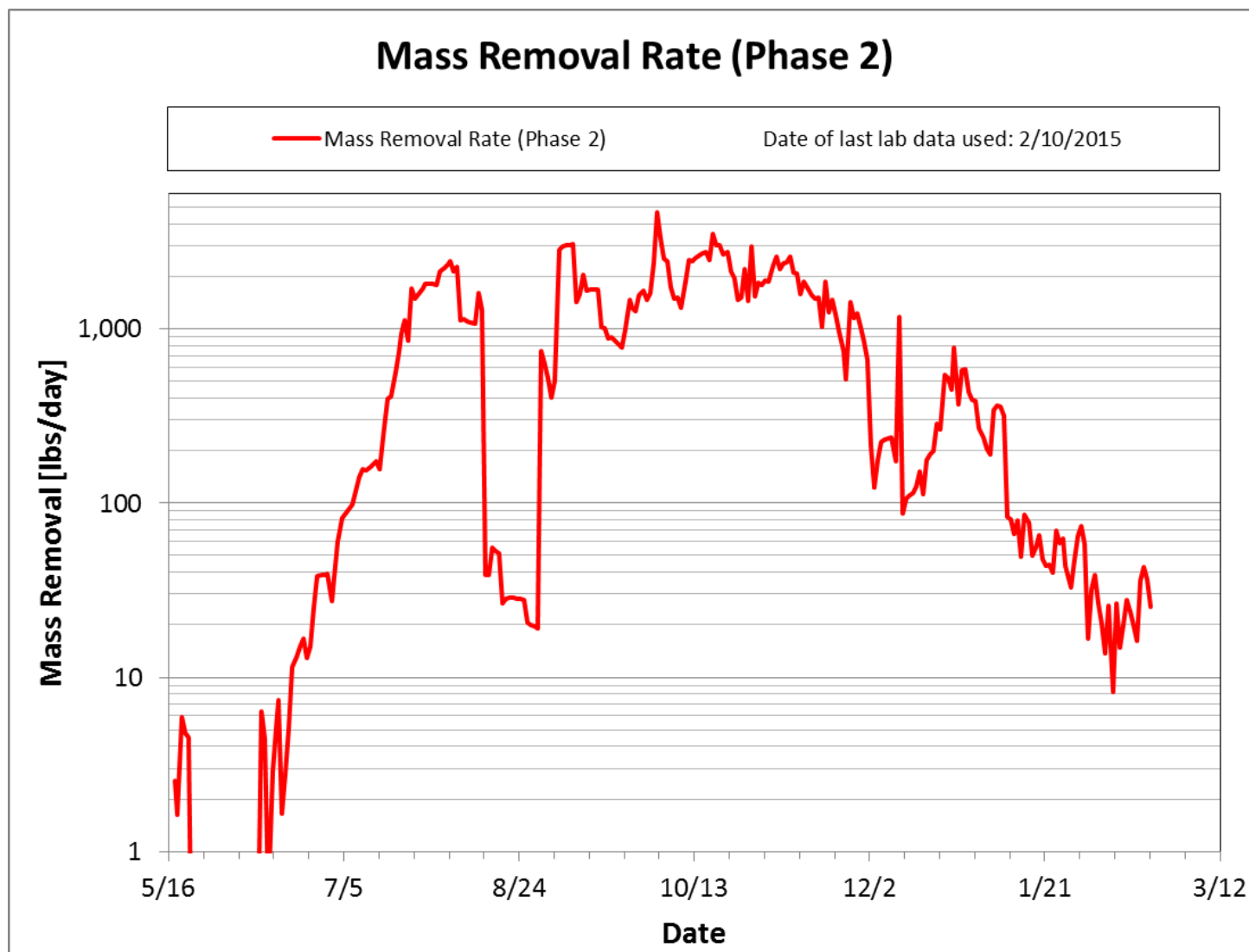


Figure 8 - Phase 1 mass removal rate (assumes all TO-15 reported compounds)



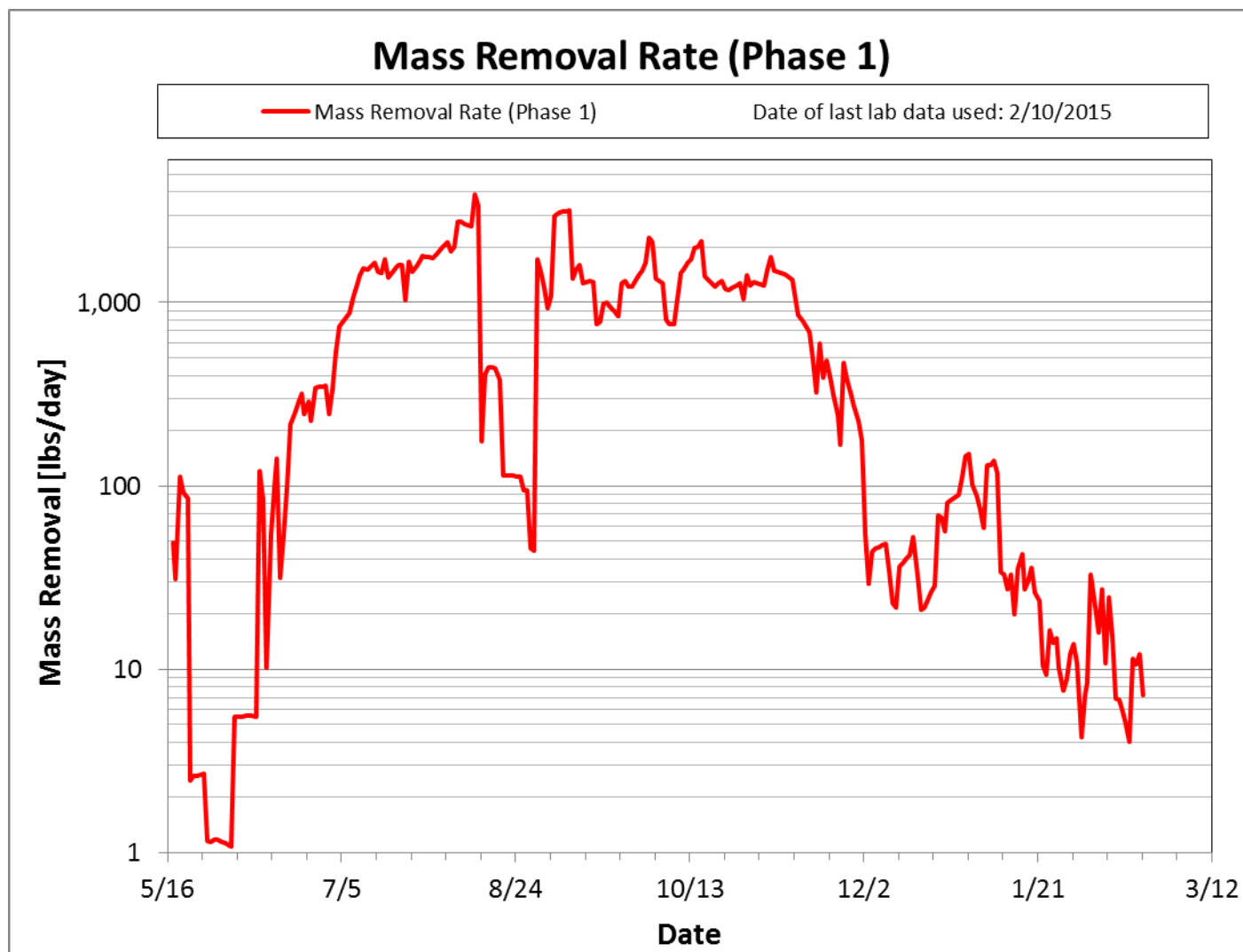
Average removal rate (13-20 February): 10 lbs/day

Figure 9 - Phase 2 mass removal rate (assumes all TO-15 reported compounds)



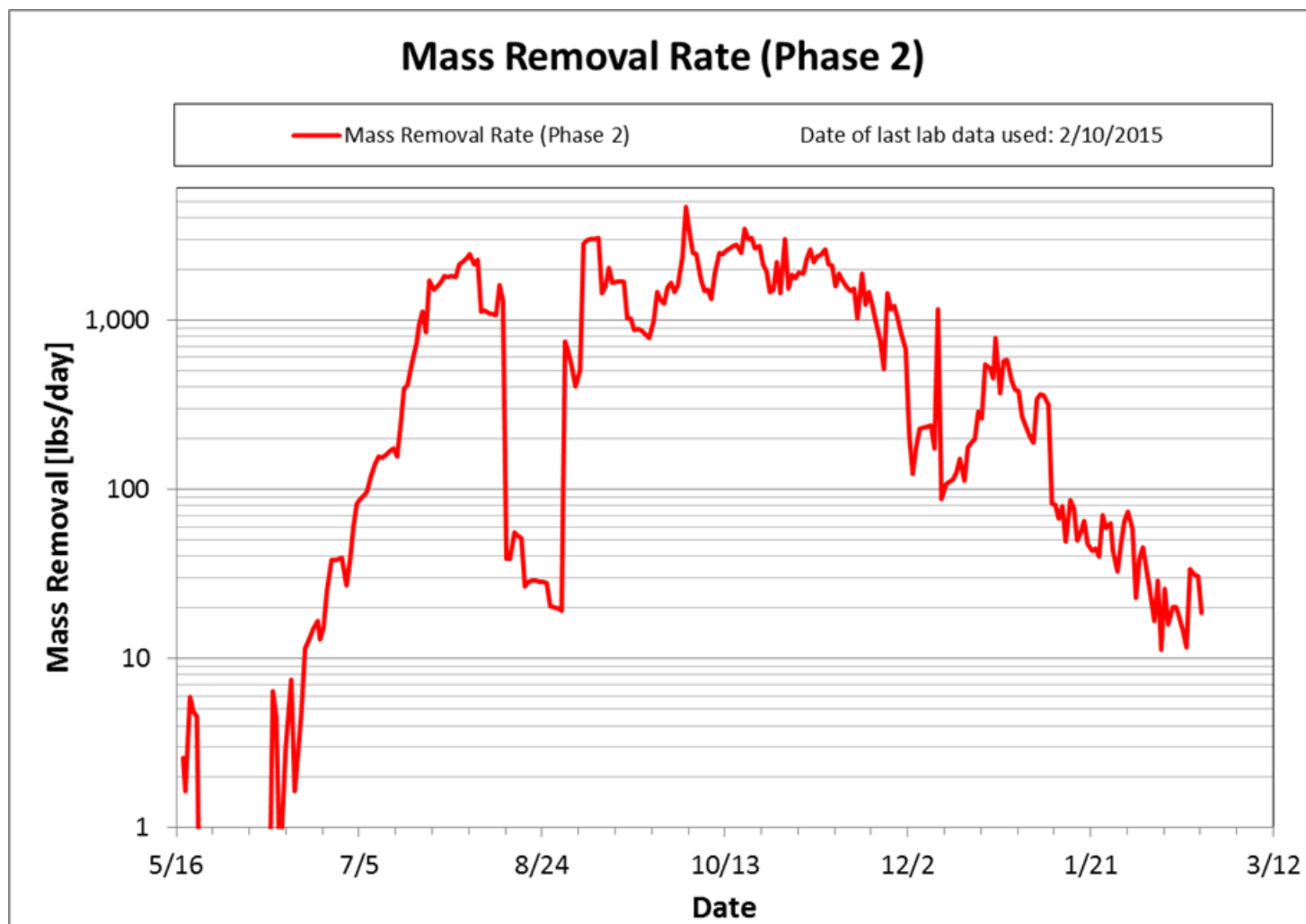
Average removal rate (13-20 February): 29 lbs/day

Figure 10 - Phase 1 mass removal rate (TO-15 reported compounds minus acetone and 2-butanone)



Average removal rate (13-20 February): 8.1 lbs/day

Figure 11 - Phase 2 mass removal rate (TO-15 reported compounds minus acetone and 2-butanone)



Average removal rate (13-20 February): 21.8 lbs/day

Table 5 - Wellfield PID and VOC mass flux by Phase

Phase	Sampling Location	7/24/14	8/1/14	8/7/14	9/4/14	9/11/14	9/18/14	9/24/14	10/2/14	10/9/14	10/17/14	10/24/14	10/31/14	11/7/14	11/13/14	11/17/14	11/20/14	11/28/14	12/5/14	12/11/14	12/18/14	12/26/14	12/31/14	1/9/15	1/16/15	1/22/15	1/29/15	2/5/15	2/12/15	2/19/15	
1	SV-1	215	100	745	602	720	604	590	1181	550	516	5	770	712	851	845	790	450	360	236	185	177	170	95	238	128	182	179	201	199	
	SV-2	742	173	1271	887	872	1129	1318	2987	780	770	1610	1004	931	1179	600	934	660	677	482	377	397	436	300	449	810	404	283	91	187	
	SV-3	2588	872	3609	2854	1198	3395	1414	5512	2643	1120	3971	1430	627	99	101	3138	1717	1782	1218	1246	347	1622	725	626	1108	1241	653	86	430	
	SV-4	1971	307	2543	1921	1514	2652	1153	4790	1927	3820	3275	2204	2650	3297	1375	2903	1510	2341	1278	979	333	611	585	477	487	446	300	129	264	
	SV-5	1817	279	1642	740	444	1407	1197	4790	759	1411	950	1153	802	326	302	490	402	135	243	120	235	29	202	248	198	180	129	131	80	
	SV-6	4480	332	1926	956	765	4283	2347	11564	3525	9177	5750	4780	4919	5854	1083	2100	601	435	1271	375	277	197	678	664	1141	699	558	328	518	
	SV-8	3222	385	1330	2375	1479	3267	1816	4744	179	172	3815	1881	1850	88	1475	940	401	450	890	150	178	170	110	244	185	235	94	167	166	
	SV-9	3245	142	324	1993	1565	2995	1777	11950	2762	4967	3801	2121	2863	3227	1265	801	1209	1040	1480	390	350	340	445	445	365	622	298	274	450	
	SV-10	1896	131	2148	1096	1111	2459	1517	4382	1933	1745	3384	2841	1318	4121	1494	1982	1302	1221	3215	500	381	420	400	371	269	99	65	93	182	
	SV-11	1016	666	1712	1979	2145	1988	930	2534	1393	2687	1950	1469	1380	596	596	1360	750	641	270	399	332	354	315	495	271	412	346	333	389	
	SV-12	80	53	158	139	104	815	1427	3234	682	1102	1090	2100	512	563	206	413	440	426	1413	545	569	490	465	201	74	637	143	65	185	
	SV-13	417	211	736	145	170	1452	1476	4291	1109	375	370	985	380	295	315	1210	210	131	432	143	473	445	365	315	139	550	209	187	173	
	SV-14	632	452	1526	2636	1450	777	1610	3411	1917	4668	4274	4150	5565	8416	1107	1053	630	500	1288	300	468	570	493	422	352	366	129	243	232	
	SV-15	3440	1072	1153	2000	915	2150	2054	608	3265	4890	4801	5780	5000	618	654	1623	730	660	1007	115	490	600	705	872	627	1247	742	500	764	
2 (and between divider line)	SV-7	3843	366	1751	1210	1482	4307	1835	3337	3672	9379	7350	5812	7910	553	3115	6391	2860	2977	2810	1323	554	531	500	514	483	300	129	184	278	
	SV-16	3113	885	233	1911	1703	2823	2216	6230	3165	6888	4994	3841	6029	11	2340	6276	3118	3307	7931	1957	1502	1908	1765	2144	3610	3159	821	454	1332	
	SV-17	3715	429	306	2928	1824	2801	1837	8933	1927	2713	2954	3313	5408	389	1670	10903	1983	1335	409	800	1133	730	116	718	1223	850	712	501	492	
	SV-18	1760	862	1203	2034	1634	2388	2446	15000	3554	5030	2815	2465	5632	13871	3377	4768	3650	5071	3361	5491	2057	2012	2423	1553	5546	4535	146	1110	2876	
	SV-19	2258	350	2067	1971	2005	1818	2038	10522	2191	6417	4561	4398	3067	2693	1075	875	925	530	528	315	552	130	515	438	504	401	263	288	259	
	SV-20	1990	796	1545	2344	1610	2268	2158	15000	2853	2305	2059	343	4053	8642	3534	5500	2725	12650	6352	6520	2084	2492	2750	1673	3511	13673	951	1305	2221	
	SV-21	1964	487	2295	2077	1855	3458	1755	8561	2756	8053	4661	2119	4298	2631	2264	6000	4186	4440	2002	2870	937	958	808	634	1346	1644	158	449	497	
	SV-22	2670	980	1606	2222	1892	2466	2448	14750	3344	5023	3578	2236	3582	55	3460	4765	3450	11187	4509	5516	2803	2565	2720	1598	3970	3235	584	792	995	
	SV-23	2515	671	3248	3158	2165	3233	1532	8102	2973	7684	4880	3933	2707	4560	4005	5367	2993	2598	1326	1154	805	883	517	948	3832	3889	163	1017	1048	
	SV-24	1412	638	1504	2406	1567	1669	1949	11882	1999	6130	4554	5005	6223	8864	2843	4555	2946	4280	3267	5764	2614	2195	2350	1446	3030	2866	502	957	1553	
	SV-25	688	220	1261	1035	1059	1350	2418	5725	1542	2247	1873	1743	1925	991	570	1301	740	773	500	445	400	547	410	457	494	448	350	295	370	
	SV-26	90	185	350	580	573	638	1133	1119	790	3559	4305	4752	4633	1933	865	2742	710	520	642	1710	548	550	420	677	298	410	183	169	277	
	SV-27	192	151	718	944	789	1117	1518	3922	1256	1485	1650	947	840	1040	313	769	745	620	318	320	277	350	210	289	309	233	241	254	171	
	SV-28	15	87	77	151	178	310	211	730	335	1250	3624	5592	5447	4380	1438	6351	1440	1100	1588	4527	1575	886	610	759	181	856	300	175	258	
SV-29	8	66	55	20	52	130	1	15	35	21	352	255	83	41	1375	43	80	41	52	117	70	61	20	318	62	63	53	34	93		
Breakdown of Wellfield VOC Flux by Phase																															
Phase 1:		48%	45%	70%	51%	46%	59%	51%	37%	48%	36%	49%	45%	42%	33%	25%	25%	21%	18%	30%	12%	22%	30%	29%	35%	19%	16%	49%	26%	28%	
Phase 2:		52%	55%	30%	49%	54%	41%	50%	63%	52%	64%	51%	55%	58%	67%	75%	75%	79%	82%	70%	88%	78%	70%	71%	65%	81%	84%	51%	74%	72%	

Figure 13 - Mass Fraction from Phase 1:Phase 2

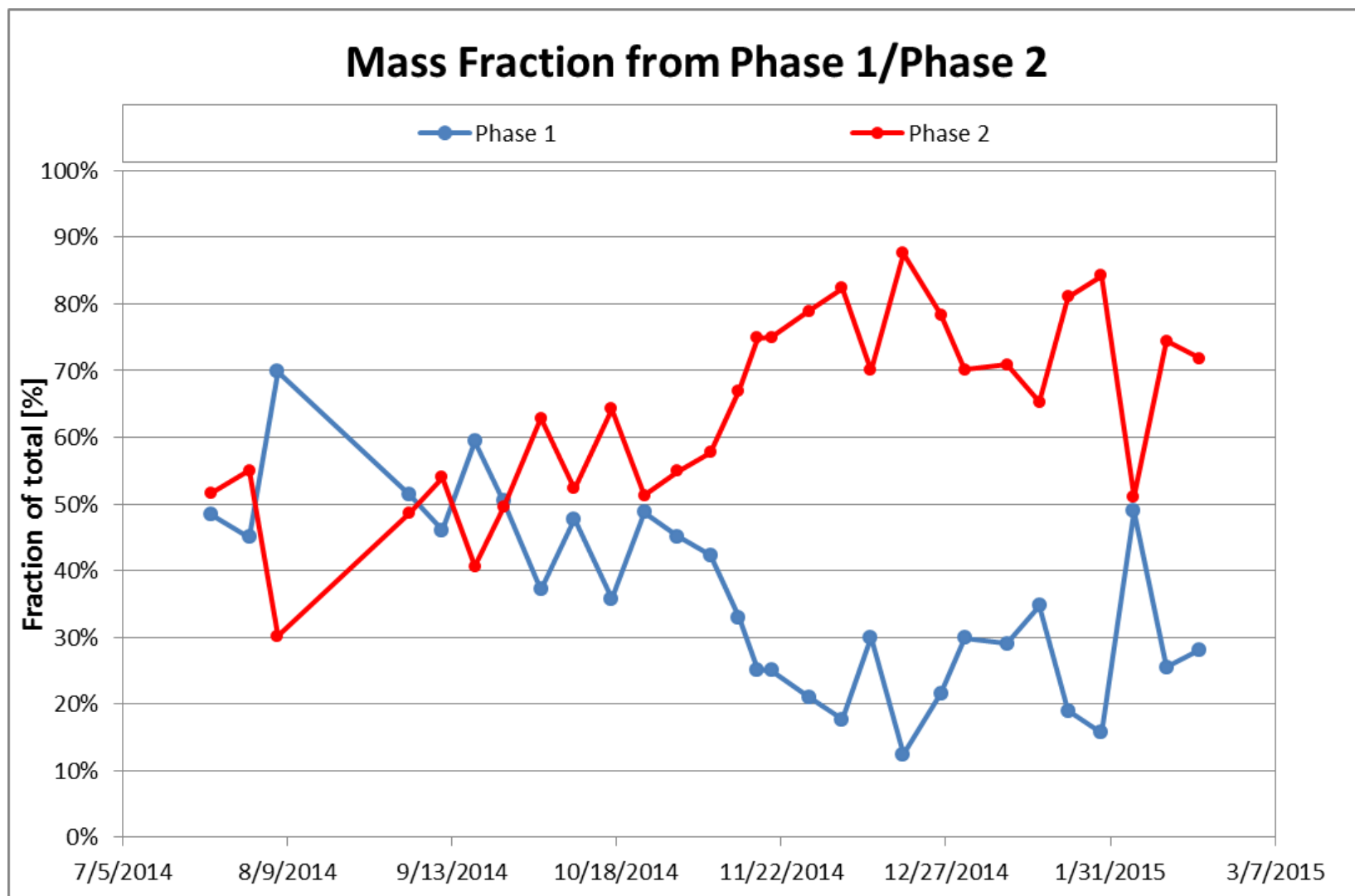


Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

	VEW-102	VEW-103	VEW-104	VEW-105	VEW-106	VEW-107	VEW-108	VEW-109	VEW-110	VEW-111	VEW-112	VEW-113	VEW-114	VEW-115	VEW-116	VEW-117	
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6/12/14 13:45	19	19	14	11	13	15	9	16	14	10	13	15	5	16	17	18	11
6/19/14 15:00	15	15	13	12	14	14	12	15	7	10	10	14	10				
6/20/14 12:39														17	18	18	12
6/26/14 8:50	0	11	15	15	17	16	12	18	8	11	11	17	12	18	19	19	12
7/3/14 14:00	8	12	15	14	16	15	12	17	7	11	10	15	11	18	19	19	11
7/17/14 11:30	14	10	14	14	16	15	15	16	6	10	9	13	10	18	20	20	8
7/24/14 0:00																	
8/1/14 0:00																	
8/7/14 0:00																	
9/4/14 0:00																	
9/11/14 0:00																	
9/18/14 0:00																	
9/24/14 0:00																	
10/2/14 0:00																	
10/9/14 0:00																	
10/17/14 0:00																	
10/24/14 0:00																	
10/31/14 0:00																	
11/7/14 0:00																	
11/12/14 0:00																	
11/13/14 0:00																	
11/20/14 0:00																	
11/22/14 0:00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
11/28/14 0:00																	
12/5/14 0:00																	
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1/22/15 0:00																	
1/29/15 0:00																	
2/5/15 0:00																	
2/12/15 0:00																	
2/19/15 0:00																	
2/26/15 0:00																	
3/3/15 0:00																	

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[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

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	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]
6/5/14 14:25		20	19	20	20	20	20	21	20	20	20	20	21	20	19	21	
6/12/14 13:45		15	17	15	14	15	16	17	17	17	17	17	17	17	17	17	
6/19/14 15:00			13											14			
6/20/14 12:39		17		17	14	17	17	18	18	18	18	18	18		16	18	
6/26/14 8:50		17	15	17	15	17	18	19	19	19	19	19	20	16	16	20	
7/3/14 14:00		16	12	15	13	16	17	19	18	18	19	15	19	15	16	19	
7/17/14 11:30	12	15	9	12	10	13	17	19	16	17	18	11	19	15	18	20	10
7/24/14 0:00																	
8/1/14 0:00																	
8/7/14 0:00																	
9/4/14 0:00																	
9/11/14 0:00																	
9/18/14 0:00																	
9/24/14 0:00																	
10/2/14 0:00																	
10/9/14 0:00																	
10/17/14 0:00																	
10/24/14 0:00																	
10/31/14 0:00																	
11/7/14 0:00																	
11/12/14 0:00																	
11/13/14 0:00																	
11/20/14 0:00																	
11/22/14 0:00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
11/28/14 0:00																	
12/5/14 0:00																	
12/11/14 0:00																	
12/18/14 0:00																	
12/26/14 0:00																	
12/31/14 0:00																	
1/9/15 0:00																	
1/16/15 0:00																	
1/22/15 0:00																	
1/29/15 0:00																	
2/5/15 0:00																	
2/12/15 0:00																	
2/19/15 0:00																	
2/26/15 0:00																	
3/3/15 0:00																	

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

[illegible]

Table 6

Vapor Extraction Well Data Solvents Recovery Services of New England Southington, CT																	
	VEW-88 ["wc]	VEW-89 ["wc]	VEW-90 ["wc]	VEW-91 ["wc]	VEW-92 ["wc]	VEW-93 ["wc]	VEW-94 ["wc]	VEW-95 ["wc]	VEW-96 ["wc]	VEW-97 ["wc]	VEW-98 ["wc]	VEW-99 ["wc]	SV-1 ["wc]	SV-2 ["wc]	SV-3 ["wc]	SV-4 ["wc]	SV-5 ["wc]
6/5/14 14:25	17	21	9	20	20	19	16	15	21	21	17	17					
6/12/14 13:45	14	18	6	18	17	15	13	10	15	17	14	13					
6/19/14 15:00	11	14	9	14	15	13	12	12	15	15	11	12					
6/20/14 12:39																	
6/26/14 8:50	11	15	10	17	19	15	14	14	19	19	13	13					
7/3/14 14:00	11	15	10	16	18	13	13	13	18	19	13	11					
7/17/14 11:30	10	13	8	15	19	11	11	9	19	19	13	8					
7/24/14 0:00													15.4	13.7	13.9	13.9	14.1
8/1/14 0:00													14.4	14.6	14.4	14.7	14.8
8/7/14 0:00													8.2	8.5	8.5	8.3	8.3
9/4/14 0:00													3.6	4.8	4.8	4.8	4.8
9/11/14 0:00													7.2	7.2	7.2	7.4	7.3
9/18/14 0:00													5.9	5.9	5.8	6	6
9/24/14 0:00													4.4	4.2	4.4	4.4	4.5
10/2/14 0:00													10.2	10.3	10.2	10.3	10.4
10/9/14 0:00													8.5	8.5	8.5	8.4	8.5
10/17/14 0:00													7.5	7.4	7.2	7.1	7.4
10/24/14 0:00													5.2	5.1	5.5	5.4	5.3
10/31/14 0:00													4.6	4.6	4.3	4.4	4.6
11/7/14 0:00													6.7	6.7	6.7	6.6	6.9
11/12/14 0:00																	
11/13/14 0:00													6.1	6.3	5.9	6.1	5.8
11/20/14 0:00													6	5.9	6.2	5.8	5.9
11/22/14 0:00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5					
11/28/14 0:00													7.1	7.2	7.2	7.1	7.2
12/5/14 0:00													6	6.1	6.4	6.4	6.5
12/11/14 0:00													7.2	7.1	7.3	7.2	7.4
12/18/14 0:00													8.1	8	8.1	8	8.1
12/26/14 0:00													9.1	9.3	9	9	9
12/31/14 0:00													8.6	8.8	8.3	8.7	8.6
1/9/15 0:00													6	5.9	5.9	6.1	6.2
1/16/15 0:00													5.1	5.3	4.9	4.9	5
1/22/15 0:00													4.8	4.6	4.6	4.9	4.8
1/29/15 0:00													8.6	8.3	8.2	8.4	8.4
2/5/15 0:00													19.1	18.5	19.2	19.2	18.9
2/12/15 0:00													8.1	8.2	8	8.4	8.5
2/19/15 0:00													6.2	6.3	6.5	6.5	6.3
2/26/15 0:00													5.8	8.8	8.9	8.9	6.1
3/3/15 0:00													5.6	5.7	5.7	5.4	5.7

Table 6

Vapor Extraction Well Data
Solvents Recovery Services of New England
Southington, CT

	SV-6	SV-7	SV-8	SV-9	SV-10	SV-11	SV-12	SV-13	SV-14	SV-15	SV-16	SV-17	SV-18	SV-19	SV-20	SV-21	SV-22
	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]
6/5/14 14:25																	
6/12/14 13:45																	
6/19/14 15:00																	
6/20/14 12:39																	
6/26/14 8:50																	
7/3/14 14:00																	
7/17/14 11:30																	
7/24/14 0:00	14.2	14.1	14.8	14.8	14.8	14.8	15.4	15.4	15.4	15.4	14.8	15.4	14.8	14.8	15.4	14.5	15.4
8/1/14 0:00	14.8	14.6	14.9	14.6	14.7	14.7	14.8	14.8	15.1	14.7	14.8	14.7	15.1	14.6	14.7	14.3	14.7
8/7/14 0:00	8.5	8.2	8.3	8.4	8.3	8.3	8.3	8.4	8.5	8.5	8.5	8.4	8.5	8.4	8.2	8.3	8.3
9/4/14 0:00	4.8	4.8	4.8	4.8	3.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.6	4.8	3.6	4.8	2.2
9/11/14 0:00	7.1	7	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.4	6.8	7.7	7	7.2
9/18/14 0:00	5.5	5.7	6	6.1	5.8	5.8	6	5.9	5.8	6	6.1	5.9	5.8	6	5.8	5.9	5.7
9/24/14 0:00	4.3	4.3	4.6	4.5	4.5	4.5	4.4	4.5	4.5	4.5	4.5	4.4	4.6	4.4	4.4	4.4	4.4
10/2/14 0:00	10.4	10.3	10.3	10.3	10.3	10.4	10.5	10.3	10.3	10.3	10.4	10.3	10.3	10	10.1	10.4	10.1
10/9/14 0:00	8.4	8.6	8.5	8.5	8.5	8.6	8.3	8.5	8.6	8.5	8.4	8.5	8.4	8.6	8	8.5	8.2
10/17/14 0:00	7.3	7.7	7.6	7.6	7.6	7.5	7.5	7.5	7.3	7.6	7.6	7.3	7.4	7.5	7.1	7.6	7.5
10/24/14 0:00	5.4	5.4	5.3	5.5	5.4	5.5	5.4	5.5	5.5	5.5	5.5	5.3	5.5	5.3	5.5	5.3	5.5
10/31/14 0:00	4.6	4.6	4.6	4.4	4.6	4.4	4.6	4.5	4.5	4.6	4.6	4.6	4.4	4.5	4.5	4.4	4.4
11/7/14 0:00	6.8	6.9	6.9	7	7.2	7.2	7.1	6.8	7	6.8	7	6.8	6.6	7	6.6	6.6	6.6
11/12/14 0:00																	
11/13/14 0:00	6.3	6.2	6.2	6.4	6.5	6.4	6.4	6.1	6.2	6.1	6.2	6.2	6.1	5.9	5.9	5.8	6.1
11/20/14 0:00	5.7	5.9	5.7	6	5.8	5.7	5.6	5.6	5.8	5.7	5.8	5.8	5.7	6	5.6	5.7	5.7
11/22/14 0:00																	
11/28/14 0:00	7.3	7.2	7.2	7.2	7.2	7.3	7.1	7.2	7.1	7.2	7.1	7.3	7.2	7.3	7.1	7.2	7
12/5/14 0:00	6.4	6.1	6.3	6.3	6.2	6.5	6.3	6	6	5.8	6	6.5	5.8	6.5	6.1	6.5	5.9
12/11/14 0:00	7.3	7.3	7.4	7.6	7.5	7.2	7.2	7.2	7.2	7	7	7.5	7.2	7.4	7.2	7.3	7.1
12/18/14 0:00	8.1	8.1	8.1	8.1	8.2	8.1	8	7.9	7.9	7.8	7.9	8.1	7.8	8.1	7.8	8.1	7.8
12/26/14 0:00	9.2	9.1	9.2	9.1	9	9.1	8.9	8.8	9	9	9	9.2	8.8	9	8.9	8.9	8.7
12/31/14 0:00	8.8	8.5	8.5	8.6	8.7	8.6	8.7	8.6	8.7	8.4	8.4	8.6	8.4	8.7	8.6	8.5	8.6
1/9/15 0:00	6.5	6.3	6.3	6	6	6.4	6	6	6.2	5.9	5.6	6.4	6	6.3	6.1	6	5.9
1/16/15 0:00	5.2	5	5.1	5.2	5.1	5.1	5.4	5.4	5.4	5.4	5.5	5	5.5	4.9	5.7	4.6	5.6
1/22/15 0:00	4.9	4.8	4.8	4.6	4.7	4.6	4.8	4.8	4.8	4.7	4.8	4.8	4.9	4.8	4.6	4.9	4.6
1/29/15 0:00	8.2	8.3	8.6	8.2	8.8	8.8	9.1	9	9	8.8	8.9	8.4	9	8.4	8.4	8.3	8.5
2/5/15 0:00	18.7	19.3	19.4	19.5	19.2	19.3	18.9	19.8	19.2	19	19.2	15.7	19.1	18.9	18.1	19.3	17.4
2/12/15 0:00	8.4	8.6	8.6	8.7	8.6	8.5	8.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8	8.2	6.6
2/19/15 0:00	6.2	6.1	6.5	6.3	6.2	6.1	6.7	6.3	6.4	6.3	6.2	6.1	6.3	6.4	6	6.1	6.5
2/26/15 0:00	6.3	6.6	6.6	6.7	6.6	6.7	6.8	6.9	6.8	7.1	7	6.3	6.8	6.1	7	6.1	6.9
3/3/15 0:00	5.8	5.9	5.9	5.7	5.8	5.7	5.9	5.6	5.7	5.6	5.8	5.8	5.6	5.9	5.5	5.8	5.4

Table 6

Vapor Extraction Well Data Solvents Recovery Services of New England Southington, CT							
	SV-23	SV-24	SV-25	SV-26	SV-27	SV-28	SV-29
	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]	["wc]
6/5/14 14:25							
6/12/14 13:45							
6/19/14 15:00							
6/20/14 12:39							
6/26/14 8:50							
7/3/14 14:00							
7/17/14 11:30							
7/24/14 0:00	14.8	14.8	14.8	14.5	14.8	14.8	14.3
8/1/14 0:00	14.5	14.6	14.5	14.7	14.5	14.7	15.1
8/7/14 0:00	8.3	8.3	8.3	8.3	8.4	8.3	8.5
9/4/14 0:00	4.8	3.6	4.8	2.6	4.8	3.6	4.8
9/11/14 0:00	7.2	7	7.3	7	7.2	7	7.3
9/18/14 0:00	6	5.8	6	6.1	5.8	5.8	6
9/24/14 0:00	4.3	4.4	4.2	4.5	4.4	4.6	4.6
10/2/14 0:00	10.2	10.1	10.1	10	10.3	10.3	10.3
10/9/14 0:00	8.4	8.3	8.6	8.2	8.1	8.4	8.3
10/17/14 0:00	7.5	7.6	7.5	7.5	7.3	7.5	7.8
10/24/14 0:00	5.4	5.4	5.3	5.7	5.2	5.5	5.6
10/31/14 0:00	4.4	4.4	4.6	4.4	4.5	4.4	4.5
11/7/14 0:00	6.9	6.2	6.4	6.5	7.1	6.6	6.6
11/12/14 0:00							
11/13/14 0:00	5.9	5.8	6.1	5.9	6	6.2	5.8
11/20/14 0:00	6	5.7	6	6	6	5.8	5.7
11/22/14 0:00							
11/28/14 0:00	7.3	7	7.4	6.9	7	7	6.9
12/5/14 0:00	6.5	5.9	6.4	6.2	6.1	6	6.5
12/11/14 0:00	7.4	7.1	7.3	7	7.2	7	7
12/18/14 0:00	8.2	7.8	8.1	8	8.1	8	8.2
12/26/14 0:00	9	8.8	9.2	8.8	9.1	8.8	9.4
12/31/14 0:00	8.6	8.7	8.7	8.7	8.8	8.9	9
1/9/15 0:00	6	6	5.9	6.2	6.1	6	5.8
1/16/15 0:00	5.2	5.6	5.3	5.3	5.6	5.7	6
1/22/15 0:00	4.8	4.3	4.6	4.5	4.9	4.6	4.7
1/29/15 0:00	8.3	8.4	8.4	8.5	8.5	8.7	8.9
2/5/15 0:00	18.8	17.3	18.7	17.1	18.9	9.4	9.8
2/12/15 0:00	8.1	8.5	8.3	8.3	8.2	8.4	8.2
2/19/15 0:00	6.2	6	6.4	6	6.4	6.1	6.6
2/26/15 0:00	6.1	7.3	5.9	6.8	6.8	6.7	6.7
3/3/15 0:00	5.4	5.6	5.8	5.6	5.9	5.6	5.9



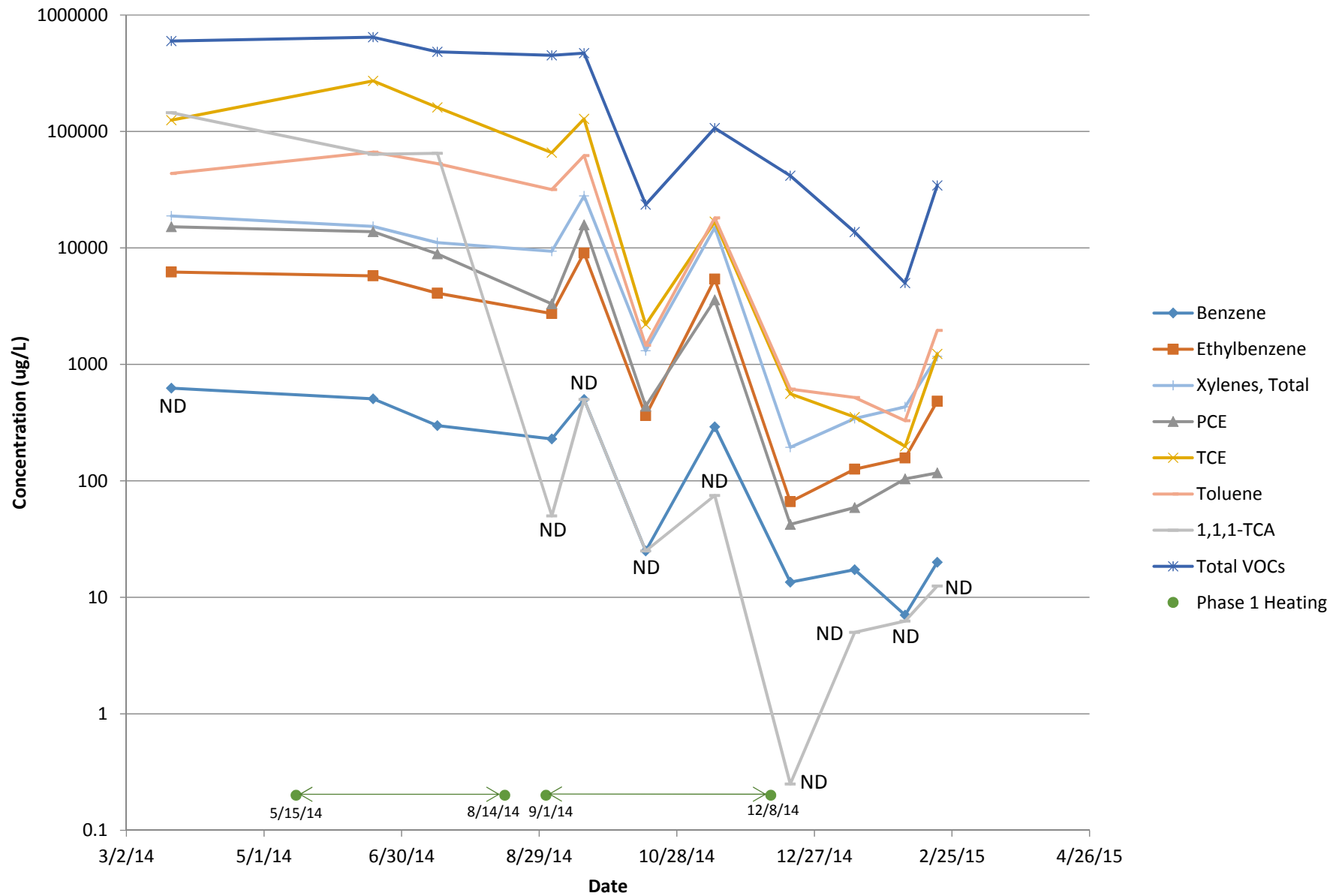
Groundwater Trend Figures and Data Tables Tables 7 and 8

Groundwater Sampling Summary - ISTR Wells

SRSNE Superfund Site
Southington, Connecticut

ISTR-1 (Phase 1 Area)

NDs = 1/2 RL

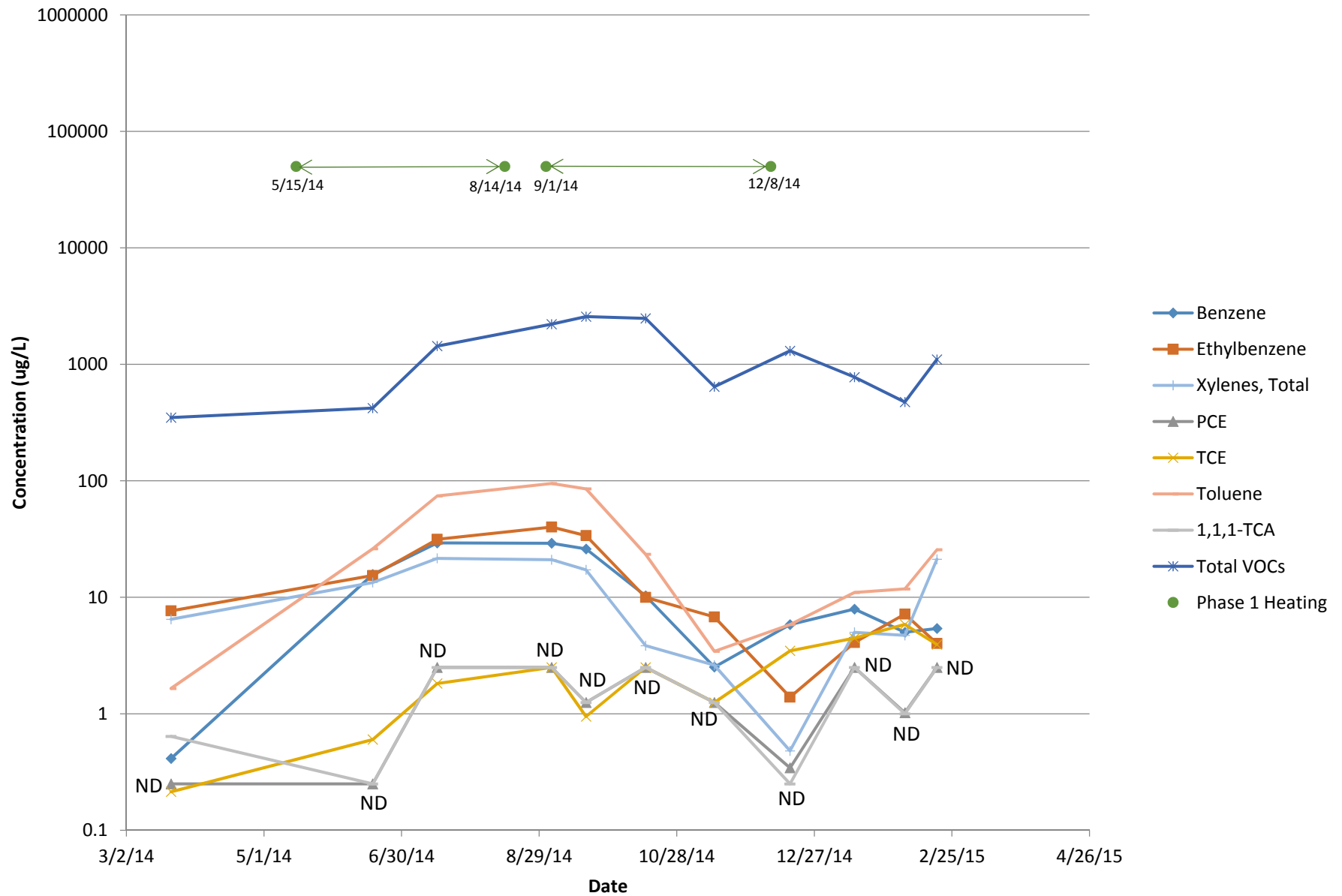


Groundwater Sampling Summary - ISTR Wells

SRSNE Superfund Site
Southington, Connecticut

ISTR-2 (Phase 1 Area)

NDs = 1/2 RL

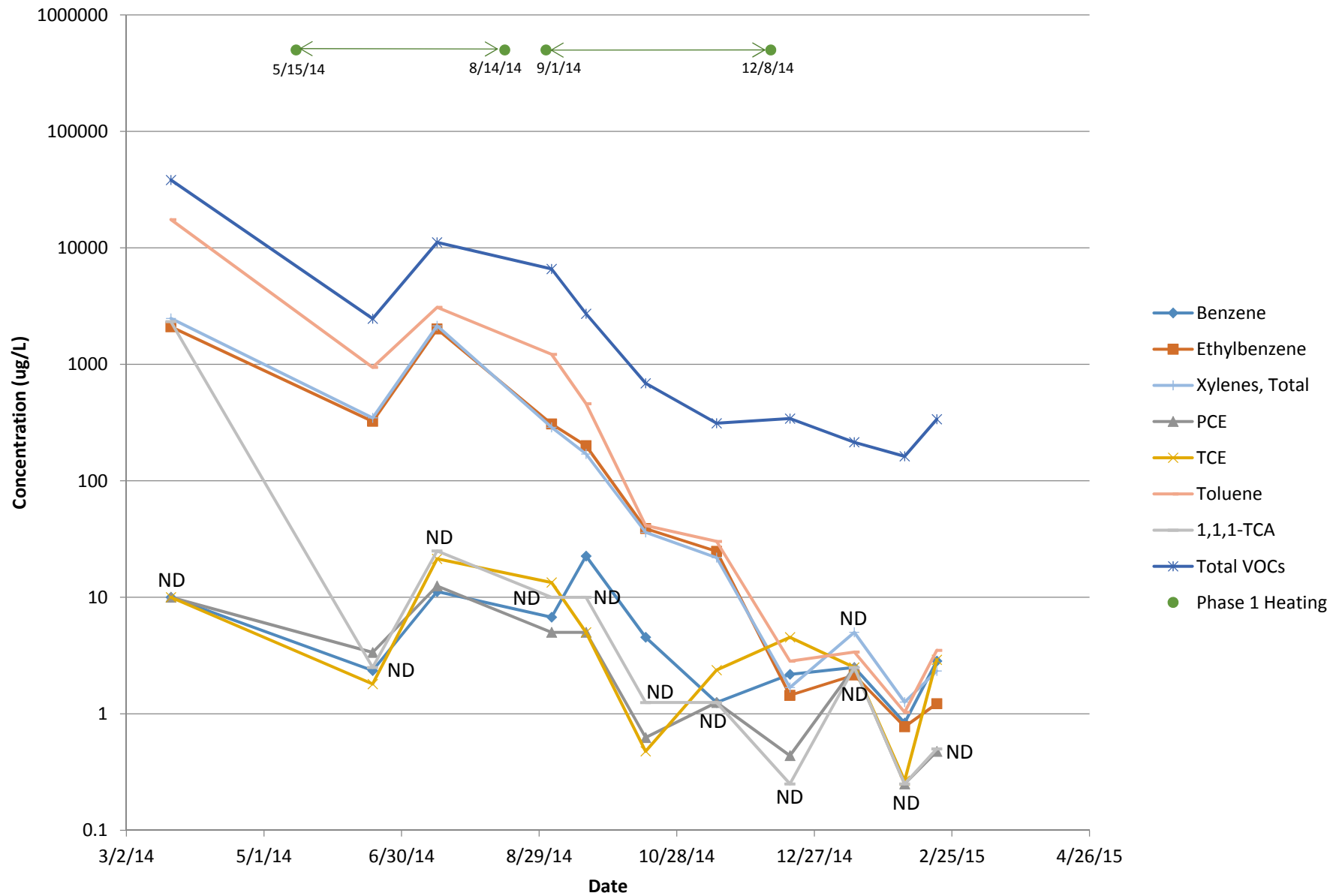


Groundwater Sampling Summary - ISTR Wells

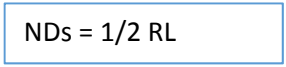
SRSNE Superfund Site
Southington, Connecticut

ISTR-3 (Phase 1 Area)

NDs = 1/2 RL



Southington, Connecticut

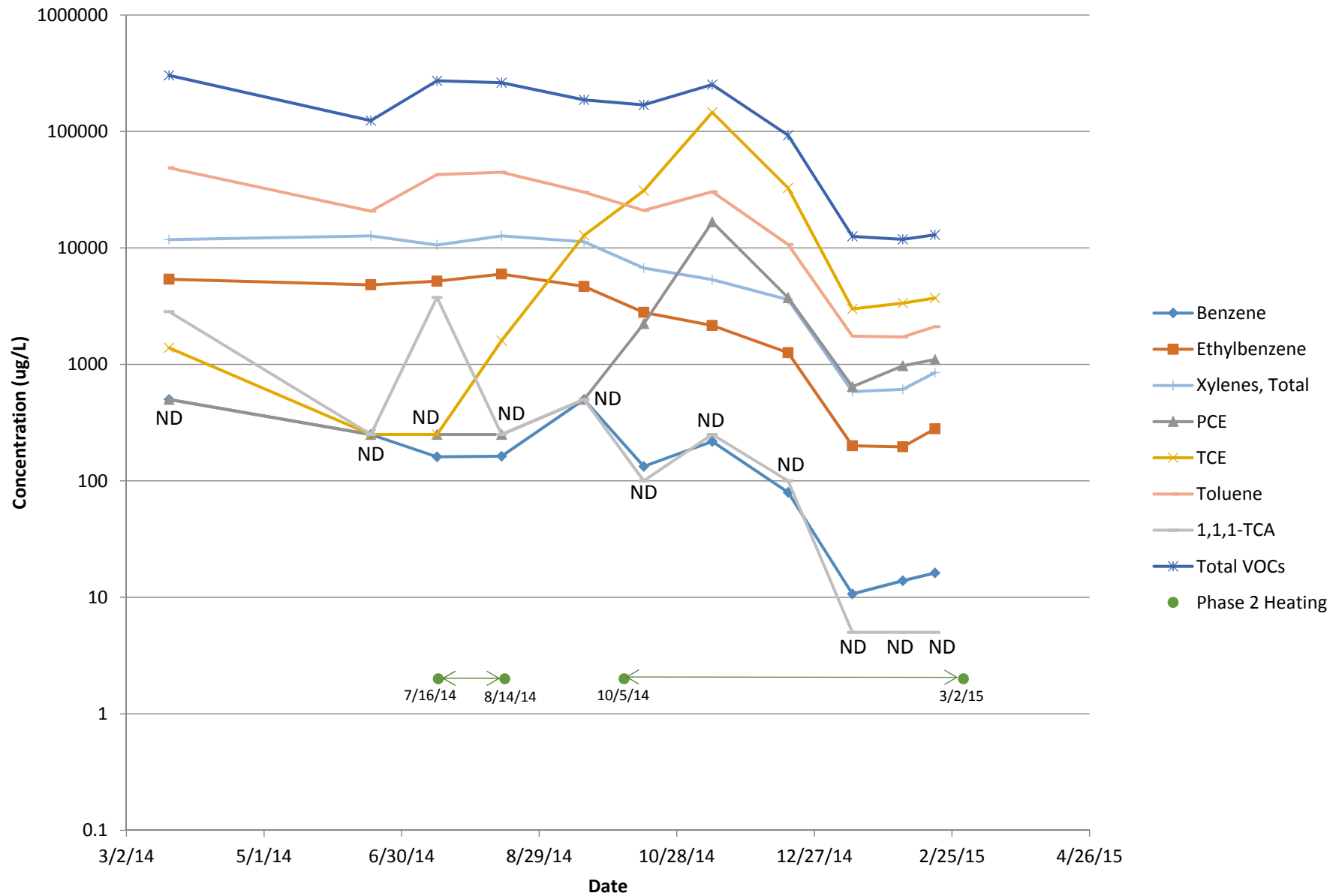


Groundwater Sampling Summary - ISTR Wells

SRSNE Superfund Site
Southington, Connecticut

ISTR-5 (Phase 2 Area)

NDs = 1/2 RL



Groundwater Sampling Summary - ISTR Wells

SRSNE Superfund Site
Southington, Connecticut

ISTR-6 (Phase 2 Area)

NDs = 1/2 RL



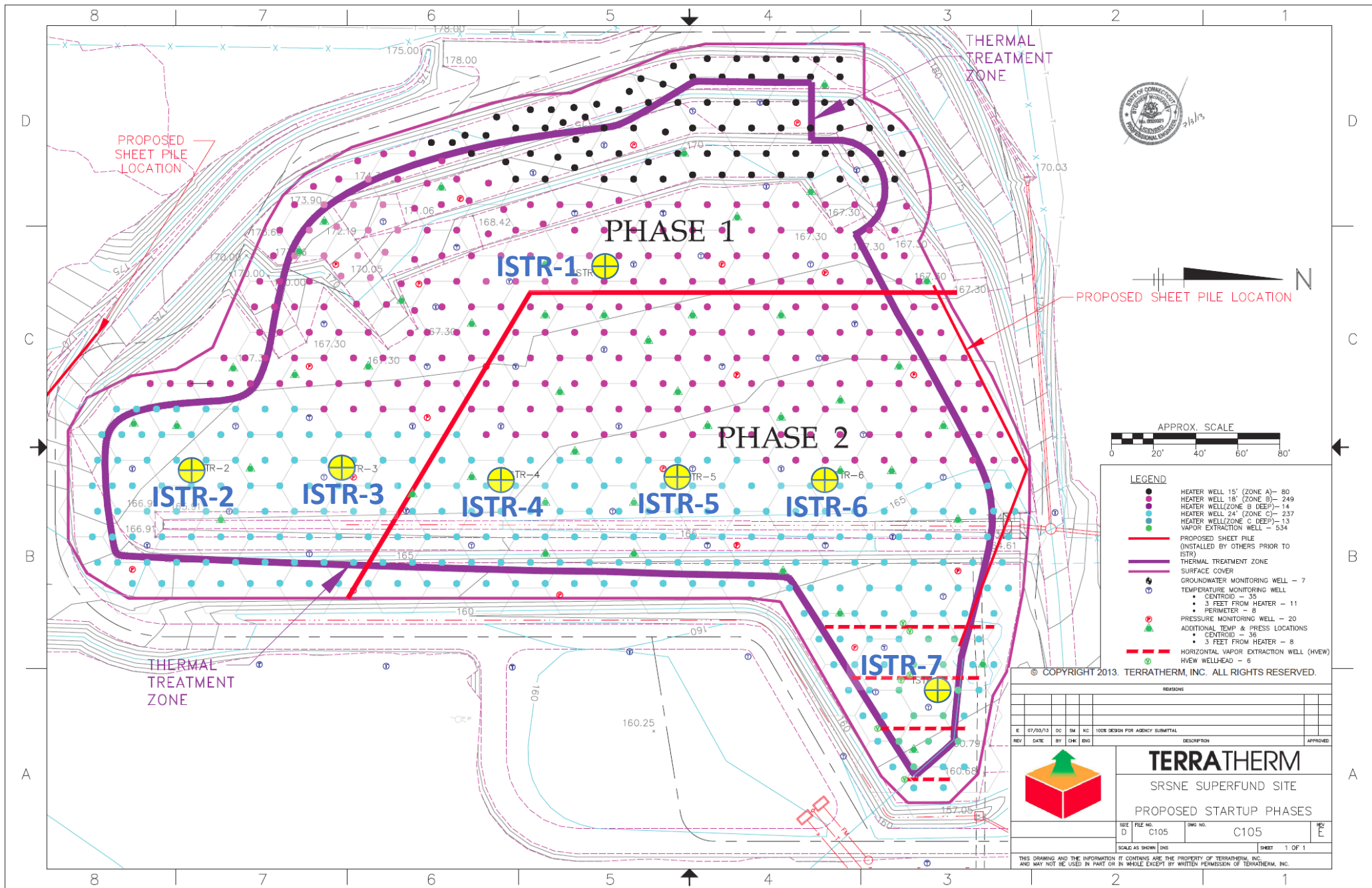
Groundwater Sampling Summary - ISTR Wells

SRSNE Superfund Site
Southington, Connecticut

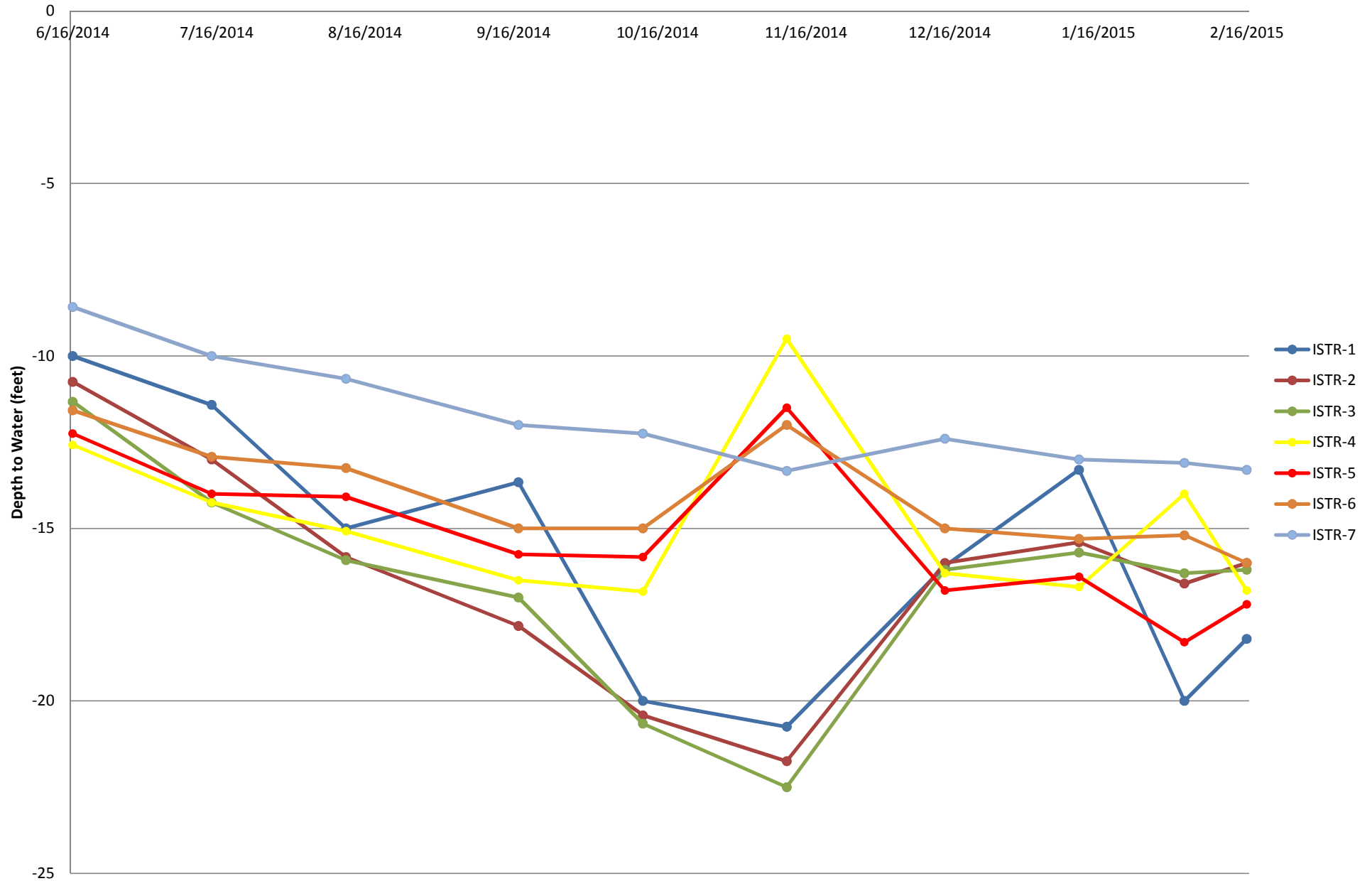
ISTR-7 (Phase 2 Area)

NDs = 1/2 RL





SRSNE Site - ISTR Monitoring Well Groundwater Elevations



ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-1		ISTR-1		ISTR-1		ISTR-1		ISTR-1		ISTR-1		ISTR-1		ISTR-1		ISTR-1		ISTR-1					
					3/21/2014 14:15		6/17/2014 13:20		7/15/2014 14:00		9/3/2014 11:35		9/17/2014 14:10		10/14/2014 11:15		11/13/2014 13:40		12/16/2014 11:41		1/13/2015 14:13		2/4/2015 14:00		2/18/2015 14:00			
					ISTR-1-03212014		ISTR-1-06172014		ISTR-1-07152014		ISTRA-1-09032014		ISTR-1-09172014		ISTR-1-10142014		ISTR1-11132014		ISTR-1-12162014		ISTR-1-01132015		ISTR-1-02042015		ISTR-1-02182015			
					--		--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																								
VOCs																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	1250	U	1000	U	500	U	100	U	1000	U	50	U	125	U	0.5	U	10	U	12.5	U	25	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	145000	--	63700	--	64900	--	100	U	1000	U	50	U	125	U	0.5	U	10	U	12.5	U	25	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	1880	U	1500	U	396	J	150	U	1500	U	75	U	188	U	0.75	U	15	U	18.8	U	37.5	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	10400	--	5040	--	7740	--	204	--	1500	U	75	U	188	U	0.75	U	15	U	18.8	U	37.5	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	4720	--	2400	--	7810	--	994	--	1480	--	17.1	J	554	--	17.5	--	3.5	J	12.5	U	21	J		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	6250	U	5000	U	2500	U	500	U	5000	U	63	J	8840	--	16.4	--	48	J	64.8	--	27.8	J		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	6250	U	5000	U	2500	U	500	U	5000	U	250	U	78.9	J	0.59	J	50	U	62.5	U	125	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	1250	U	1000	U	180	J	100	U	1000	U	50	U	125	U	--	--	10	U	12.5	U	25	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	6250	U	5000	U	2500	U	500	U	5000	U	250	U	54.6	J	0.372	J	50	U	62.5	U	125	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	31300	--	19900	--	9660	--	141000	--	106000	--	7530	--	8200	--	15600	--	5770	--	1450	--	14000	--		
2-Hexanone	591-78-6	ug/l	140	5	12500	U	10000	U	5000	U	1000	U	10000	U	500	U	1250	U	18.3	--	100	U	125	U	250	U		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	12500	U	11600	--	4510	J	58800	--	30400	--	975	--	2180	--	2150	--	580	--	124	J	1340	--		
Acetone	67-64-1	ug/l	700	5	11600	J	7720	J	6710	--	106000	--	60800	--	8030	--	9010	--	20200	--	5200	--	1960	--	11300	--		
Benzene	71-43-2	ug/l	1	0.5	1250	U	506	J	298	J	229	--	1000	U	50	U	291	--	13.5	--	17.3	--	7.04	J	20	J		
Bromomethane	74-83-9	ug/l	9.8	0.5	2500	U	2000	U	1000	U	200	U	2000	U	100	U	250	U	1	U	20	U	25	U	50	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	12500	U	10000	U	5000	U	1000	U	10000	U	500	U	1250	U	5	U	100	U	125	U	250	U		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	1250	U	1000	U	500	U	100	U	1000	U	50	U	125	U	0.5	U	10	U	12.5	U	25	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	1250	U	1000	U	500	U	100	U	1000	U	50	U	125	U	0.5	U	10	U	12.5	U	25	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	4880	--	1460	J	1380	--	200	U	2000	U	100	U	250	U	1	U	20	U	25	U	50	U		
Chloroform	67-66-3	ug/l	6	0.5	1880	U	1500	U	451	J	114	J	1500	U	75	U	188	U	0.75	U	15	U	18.8	U	37.5	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	6250	U	5000	U	2500	U	500	U	5000	U	250	U	625	U	0.312	J	50	U	62.5	U	125	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	171000	--	150000	--	130000	--	17400	--	21200	--	455	--	12500	--	1580	--	286	--	40.6	--	1910	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	6210	--	5750	--	4090	--	2730	--	9040	--	363	--	5400	--	66.2	--	126	--	157	--	483	--		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	1500	U	1200	U	600	U	120	U	1200	U	60	U	150	U	0.6	U	12	U	15	U	30	U		
Methylene chloride	75-09-2	ug/l	5	0.5	6420	J	4810	J	6180	--	4000	--	1470	J	500	U	112	J	8.53	--	100	U	125	U	43	J		
Naphthalene	91-20-3	ug/l	280	0.5	6250	U	5000	U	2500	U	200	J	5000	U	75.8	J	4920	--	26.1	--	79.6	--	65.2	--	42.2	J		
Styrene	100-42-5	ug/l	100	0.5	1160	J	888	J	1300	--	2490	--	1360	J	57.2	J	732	--	17	--	40.7	--	27.9	--	31.4	J		
Tetrachloroethene	127-18-4	ug/l	5	0.5	15200	--	13800	--	8890	--	3310	--	15800	--	437	--	3580	--	42.3	--	59	--	104	--	117	--		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	12500	U	1960	J	904	J	6520	--	5320	J	632	--	1250	U	576	--	259	--	33.6	J	663	--		
Toluene	108-88-3	ug/l	1000	0.5	43600	--	66500	--	53000	--	31700	--	62100	--	1460	--	18100	--	614	--	520	--	329	--	1960	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	1880	U	1500	U	750	U	41.4	J	1500	U	75	U	107	J	9.11	--	15	U	18.8	--	12.5	J		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	1250	U	1000	U	500	U	100	U	1000	U	50	U	125	U	0.5	U	10	U	12.5	U	25	U		
Trichloroethene	79-01-6	ug/l	5	0.5	125000	--	272000	--	161000	--	65700	--	128000	--	2200	--	16800	--	559	--	353	--	198	--	1230	--		
Vinyl chloride	75-01-4	ug/l	2	0.5	2630	--	1210	J	2100	--	63.1	J	2000	U	100	U	445	--	15	--	20	U	25	U	36.2	J		
Xylenes, Total	1330-20-7	ug/l	530	0.5	18800	--	15300	--	11100	--	9360	--	28000	--	1310	--	15000	--	194	--	343	--	432	--	1170	--		
Halogenated VOCs Total	THVO	ug/l	--	--	486410	--	515308	--	392327	--	94516.5	--	169310	--	3305.1	--	48723.5	--	2292.214	--	869.8	--	500.5	--	3471.1	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	111510	--	127276	--	89368	--	349819	--	296340	--	19668	--	58181	--	38856	--	12556.3	--	4459.04	--	30273	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	597920	--	644544	--	482599	--	450855.5	--	470970	--	23605.1	--	106904.5	--	41724.21	--	13685.1	--	4993.14	--	34407.1	--		

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
ug/L = micrograms per liter
VOCs = volatile organic compounds
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL)
and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision
Summary, September 2005
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
MOB = Middle Overburden
DOB = Deep Overburden

ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-2		ISTR-2		ISTR-2		ISTR-2		ISTR-2		ISTR-2		ISTR-2		ISTR-2		ISTR-2		ISTR-2					
					3/21/2014 11:18		6/17/2014 10:00		7/15/2014 13:10		9/3/2014 11:00		9/18/2014 11:20		10/14/2014 10:40		11/13/2014 10:15		12/16/2014 9:55		1/13/2015 12:10		2/4/2015 12:00		2/18/2015 11:15			
					ISTR-2-03212014		ISTR-2-06172014		ISTR-2-07152014		ISTRA-2-09032014		ISTR-2-09182014		ISTR-2-10142014		ISTR2-11132014		ISTR-2-12162014		ISTR-2-01132015		ISTR-2-02042015		ISTR-2-02182015			
					--		--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																								
VOCs																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	0.5	U	0.5	U	5	U	5	U	2.5	U	5	U	2.5	U	0.5	U	5	U	2	U	5	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	0.64	--	0.5	U	5	U	5	U	2.5	U	5	U	2.5	U	0.5	U	5	U	2	U	5	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	0.75	U	0.75	U	7.5	U	7.5	U	3.75	U	7.5	U	3.75	U	0.75	U	7.5	U	3	U	7.5	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	46.2	--	9.98	--	15.2	--	3.52	J	3.75	U	7.5	U	3.75	U	0.327	J	7.5	U	3	U	7.5	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	0.5	U	0.253	J	5	U	7.11	--	0.982	J	5	U	2.5	U	1.98	--	2.8	J	3.09	--	3.17	J		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	2.5	U	2.5	U	25	U	25	U	12.5	U	2.2	J	12.5	U	2.5	U	25	U	10	U	25	U		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	0.647	J	0.907	J	25	U	25	U	1.22	J	25	U	12.5	U	2.5	U	25	U	10	U	25	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	0.5	U	0.5	U	5	U	5	U	2.5	U	5	U	2.5	U	--	--	5	U	2	U	5	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	2.5	U	2.5	U	25	U	25	U	12.5	U	25	U	12.5	U	2.5	U	25	U	10	U	25	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	5	U	110	--	454	--	682	--	695	--	516	--	84.3	--	157	--	129	--	79.9	--	173	--		
2-Hexanone	591-78-6	ug/l	140	5	5	U	5	U	50	U	50	U	25	U	10.9	J	25	U	3.48	J	50	U	20	U	50	U		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	5	U	9.24	--	35.1	J	50	U	48	--	50	U	25	U	8.4	--	50	U	5.37	J	50	U		
Acetone	67-64-1	ug/l	700	5	5	U	170	--	658	--	1170	--	1500	--	1820	--	541	--	1090	--	589	--	310	--	848	--		
Benzene	71-43-2	ug/l	1	0.5	0.413	J	15.7	--	29.3	--	29.1	--	26	--	10.3	--	2.52	--	5.83	--	7.92	--	5.01	--	5.4	--		
Bromomethane	74-83-9	ug/l	9.8	0.5	1	U	1	U	10	U	10	U	5	U	10	U	5	U	1	U	10	U	4	U	10	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	0.48	J	5	U	9.51	J	50	U	1.89	J	50	U	25	U	5	U	50	U	20	U	50	U		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	0.5	U	0.5	U	5	U	5	U	2.5	U	5	U	2.5	U	0.5	U	5	U	2	U	5	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	0.211	J	0.211	J	5	U	5	U	2.5	U	5	U	2.5	U	0.5	U	5	U	2	U	5	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	278	--	19.4	--	10	U	10	U	5	U	10	U	5	U	1	U	10	U	4	U	10	U		
Chloroform	67-66-3	ug/l	6	0.5	0.75	U	0.75	U	7.5	U	7.5	U	3.75	U	7.5	U	3.75	U	0.75	U	7.5	U	3	U	7.5	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	2.5	U	2.5	U	25	U	25	U	12.5	U	25	U	12.5	U	2.5	U	25	U	10	U	25	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	1.54	--	6.39	--	13	--	18.7	--	9.86	--	2.48	J	2.5	U	5.3	--	5.83	--	8.18	--	9.39	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	7.65	--	15.4	--	31.5	--	40.1	--	33.9	--	9.98	--	6.78	--	1.39	--	4.09	J	7.18	--	4.01	J		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	0.6	U	0.6	U	6	U	6	U	3	U	6	U	3	U	0.6	U	6	U	2.4	U	6	U		
Methylene chloride	75-09-2	ug/l	5	0.5	5	U	2.99	J	7.55	J	28.9	J	9.59	J	3.48	J	25	U	1.55	J	50	U	2.77	J	3.87	J		
Naphthalene	91-20-3	ug/l	280	0.5	0.243	J	3.71	--	3.78	J	12.2	J	17.2	--	11.4	J	1.54	J	0.642	J	25	U	1.81	J	3.84	J		
Styrene	100-42-5	ug/l	100	0.5	1	U	4.02	--	9.81	J	15.3	--	47.3	--	20.3	--	5	U	3.5	--	23.2	--	18.1	--	10	U		
Tetrachloroethene	127-18-4	ug/l	5	0.5	0.5	U	0.5	U	5	U	5	U	2.5	U	5	U	2.5	U	0.343	J	5	U	1.02	J	5	U		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	5	U	8.34	--	66.8	--	88.5	--	75.4	--	44.7	J	25	U	15.9	--	50	U	9.16	J	50	U		
Toluene	108-88-3	ug/l	1000	0.5	1.65	--	26.1	--	74.2	--	94.8	--	85.3	--	23.4	--	3.44	J	5.84	--	11	--	11.8	--	25.6	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	0.75	U	0.75	U	7.5	U	7.5	U	3.75	U	7.5	U	3.75	U	0.75	U	7.5	U	3	U	7.5	U		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	0.5	U	0.5	U	5	U	5	U	2.5	U	5	U	2.5	U	0.5	U	5	U	2	U	5	U		
Trichloroethene	79-01-6	ug/l	5	0.5	0.214	J	0.601	--	1.82	J	5	U	0.948	J	5	U	2.5	U	3.47	--	4.46	J	5.85	--	3.93	J		
Vinyl chloride	75-01-4	ug/l	2	0.5	4.66	--	4.51	--	3.85	J	2.93	J	0.782	J	10	U	5	U	0.453	J	10	U	0.906	J	10	U		
Xylenes, Total	1330-20-7	ug/l	530	0.5	6.47	--	13.4	--	21.6	J	21	J	17.2	--	3.84	J	2.61	J	0.48	J	10	U	4.71	J	21.2	J		
Halogenated VOCs Total	THVO	ug/l	--	--	332.355	--	52.972	--	55.01	--	88.66	--	87.882	--	39.86	--	1.54	--	17.565	--	36.29	--	41.726	--	24.2	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	16.183	--	359.84	--	1303.7	--	2037	--	2405.4	--	2394.42	--	640.65	--	1272.42	--	741.01	--	423.97	--	1077.21	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	349.018	--	421.152	--	1435.02	--	2214.16	--	2570.572	--	2478.98	--	642.19	--	1305.885	--	777.3	--	474.856	--	1101.41	--		

Notes:
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Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision Summary, September 2005
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ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-3		ISTR-3		ISTR-3		ISTR-3		ISTR-3		ISTR-3		ISTR-3		ISTR-3		ISTR-3		ISTR-3					
					3/21/2014 10:08		6/17/2014 9:20		7/15/2014 11:40		9/3/2014 10:25		9/18/2014 10:50		10/14/2014 10:15		11/14/2014 9:32		12/16/2014 9:20		1/13/2015 10:15		2/4/2015 9:30		2/18/2015 10:25			
					ISTR-3-03212014		ISTR-3-06172014		ISTR-3-07152014		ISTRA-3-09032014		ISTR-3-09182014		ISTR-3-10142014		ISTR-3-11142014		ISTR-3-12162014		ISTR-3-01132015		ISTR-3-02042015		ISTR-3-02182015			
					--		--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																								
VOCs																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	20	U	5	U	25	U	10	U	10	U	1.25	U	2.5	U	0.5	U	5	U	0.5	U	1	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	2330	--	5	U	25	U	10	U	10	U	1.25	U	2.5	U	0.5	U	5	U	0.5	U	1	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	30	U	7.5	U	37.5	U	15	U	15	U	1.88	U	3.75	U	0.75	U	7.5	U	0.75	U	1.5	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	4430	--	68.7	--	29.9	J	15	U	15	U	1.88	U	3.75	U	0.75	U	7.5	U	0.75	U	1.5	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	120	--	2.32	J	25	U	7.14	J	2.96	J	0.48	J	2.5	U	1.23	--	5	U	0.5	U	1.32	--		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	100	U	25	U	15	J	5.76	J	11.2	J	6.3	--	12.5	U	2.5	U	25	U	0.282	J	5	U		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	13.6	J	5.44	J	24.7	J	5.74	J	4.5	J	1.06	J	12.5	U	2.5	U	25	U	2.5	U	5	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	20	U	5	U	25	U	10	U	10	U	1.25	U	2.5	U	--	--	5	U	0.5	U	1	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	100	U	25	U	125	U	50	U	50	U	6.25	U	12.5	U	2.5	U	25	U	2.5	U	5	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	200	U	41.6	J	773	--	1180	--	553	--	143	--	46.2	--	5	U	38.8	J	33.5	--	69.5	--		
2-Hexanone	591-78-6	ug/l	140	5	200	U	50	U	250	U	100	U	100	U	12.5	U	25	U	2.44	J	50	U	2.88	J	2.26	J		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	200	U	50	U	81.7	J	151	--	45.1	J	11.3	J	25	U	6.99	--	50	U	1.04	J	3.13	J		
Acetone	67-64-1	ug/l	700	5	200	U	43.1	J	2470	--	2960	--	1040	--	359	--	183	--	314	--	170	--	114	--	233	--		
Benzene	71-43-2	ug/l	1	0.5	20	U	2.35	J	11.2	J	6.75	J	22.6	--	4.54	--	2.5	U	2.18	--	5	U	0.834	--	2.84	--		
Bromomethane	74-83-9	ug/l	9.8	0.5	40	U	10	U	50	U	20	U	20	U	2.5	U	5	U	1	U	10	U	1	U	2	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	200	U	50	U	250	U	100	U	100	U	12.5	U	25	U	5	U	50	U	0.341	J	0.724	J		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	20	U	5	U	25	U	10	U	10	U	1.25	U	2.5	U	0.5	U	5	U	0.5	U	1	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	20	U	5	U	25	U	10	U	10	U	1.25	U	2.5	U	0.5	U	5	U	0.5	U	1	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	4340	--	215	--	50	U	20	U	20	U	2.5	U	5	U	1	U	10	U	1	U	2	U		
Chloroform	67-66-3	ug/l	6	0.5	30	U	7.5	U	37.5	U	15	U	15	U	1.88	U	3.75	U	0.75	U	7.5	U	0.75	U	1.5	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	100	U	25	U	125	U	50	U	50	U	6.25	U	12.5	U	2.5	U	25	U	2.5	U	5	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	3870	--	213	--	291	--	302	--	90.6	--	6.58	--	3.78	--	3.11	--	5	U	0.27	J	1.79	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	2100	--	324	--	2010	--	308	--	200	--	38.9	--	24.8	--	1.44	--	2.15	J	0.773	--	1.22	--		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	24	U	6	U	30	U	12	U	12	U	1.5	U	3	U	0.6	U	6	U	0.6	U	1.2	U		
Methylene chloride	75-09-2	ug/l	5	0.5	200	U	5.4	J	47.9	J	12.9	J	7.45	J	1.52	J	25	U	0.626	J	50	U	5	U	10	U		
Naphthalene	91-20-3	ug/l	280	0.5	21.8	J	19.5	J	49.2	J	32.4	J	38.1	J	12.6	--	12.5	U	0.907	J	25	U	2.74	--	3.01	J		
Styrene	100-42-5	ug/l	100	0.5	40	U	7.18	J	50	U	22.2	--	11.5	J	1.24	J	5	U	1	U	10	U	0.403	J	2	U		
Tetrachloroethene	127-18-4	ug/l	5	0.5	20	U	3.36	J	25	U	10	U	10	U	1.25	U	2.5	U	0.437	J	5	U	0.5	U	0.475	J		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	200	U	50	U	79.1	J	60.4	J	56.4	J	22.8	--	25	U	5	U	50	U	2.8	J	10.2	--		
Toluene	108-88-3	ug/l	1000	0.5	17500	--	943	--	3090	--	1220	--	460	--	41.3	--	30.2	--	2.83	--	3.39	J	1.03	--	3.51	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	30	U	7.5	U	37.5	U	15	U	15	U	1.88	U	3.75	U	0.75	U	7.5	U	0.75	U	1.5	U		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	20	U	5	U	25	U	10	U	10	U	1.25	U	2.5	U	0.5	U	5	U	0.5	U	1	U		
Trichloroethene	79-01-6	ug/l	5	0.5	20	U	1.8	J	21.4	J	13.4	--	10	U	0.476	J	2.37	J	4.54	--	5	U	0.266	J	2.91	--		
Vinyl chloride	75-01-4	ug/l	2	0.5	1090	--	225	--	24.7	J	18.2	J	7.24	J	0.768	J	5	U	0.166	J	10	U	1	U	2	U		
Xylenes, Total	1330-20-7	ug/l	530	0.5	2480	--	347	--	2140	--	288	--	170	--	36.1	--	21.9	J	1.68	J	10	U	1.26	J	2.33	J		
Halogenated VOCs Total	THVO	ug/l	--	--	16215.4	--	766.7	--	503.8	--	419.74	--	173.55	--	31.024	--	6.15	--	11.016	--	0	--	3.961	--	9.505	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	22080	--	1701.05	--	10575.9	--	6113.75	--	2490.7	--	634.14	--	306.1	--	331.56	--	214.34	--	155.317	--	317.79	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	38295.4	--	2467.75	--	11158.8	--	6593.89	--	2720.65	--	687.964	--	312.25	--	342.576	--	214.34	--	162.419	--	338.219	--		

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
ug/L = micrograms per liter
VOCs = volatile organic compounds
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL)
and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision
Summary, September 2005
Bold = Analyte detected above the laboratory reporting limit
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MOB = Middle Overburden
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ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-4		ISTR-4		ISTR-4		ISTR-4		ISTR-4		ISTR-4		ISTR-4		ISTR-4		ISTR-4		ISTR-4					
					3/20/2014 15:46		6/16/2014 14:45		7/15/2014 11:10		8/12/2014 15:10		9/18/2014 10:10		10/14/2014 9:35		11/12/2014 13:50		12/15/2014 14:53		1/13/2015 11:00		2/4/2015 11:15		2/18/2015 9:30			
					ISTR-4-03202014		ISTR-4-06162014		ISTR-4-07152014		ISTR-4-08122014		ISTR-4-09182014		ISTR-4-10142014		ISTR-4-11122014		ISTR-4-12152014		ISTR-4-01132015		ISTR-4-02042015		ISTR-4-02182015			
					--		--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																								
VOCs																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	100	U	250	U	125	U	250	U	50	U	50	U	5000	U	50	U	5	U	2	U	5	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	13800	--	14300	--	7080	--	250	U	50	U	50	U	5000	U	50	U	5	U	2	U	5	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	150	U	375	U	188	U	375	U	75	U	75	U	7500	U	75	U	7.5	U	3	U	7.5	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	16200	--	15200	--	12600	--	7150	--	578	--	63.5	J	7500	U	75	U	7.5	U	0.907	J	7.5	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	609	--	2220	--	6690	--	2340	--	189	--	21.1	J	5000	U	18	J	5	U	4.83	--	26.8	--		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	500	U	1250	U	625	U	1250	U	250	U	105	J	23700	J	250	U	3.09	J	4.1	J	25	U		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	500	U	1250	U	625	U	180	J	75.5	J	93	J	25000	U	34.4	J	25	U	10	U	25	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	100	U	250	U	125	U	250	U	50	U	50	U	5000	U	--	--	5	U	2	U	5	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	500	U	1250	U	625	U	1250	U	250	U	19.1	J	25000	U	250	U	25	U	10	U	25	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	674	J	2500	U	1250	U	2000	J	5110	--	1630	--	50000	U	301	J	61	--	89.9		370	--		
2-Hexanone	591-78-6	ug/l	140	5	1000	U	2500	U	1250	U	2500	U	500	U	500	U	50000	U	500	U	50	U	20	U	50	U		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	387	J	2500	U	1250	U	2500	U	1010	--	500	U	50000	U	500	U	4.9	J	6.18	J	24.8	J		
Acetone	67-64-1	ug/l	700	5	1000	U	2500	U	413	J	5060	--	4110	--	1810	--	50000	U	745	--	146	--	306	--	1050	--		
Benzene	71-43-2	ug/l	1	0.5	38.2	J	250	U	39.9	J	107	J	65.2	--	50	U	5000	U	50	U	5	U	3	--	41.7	--		
Bromomethane	74-83-9	ug/l	9.8	0.5	200	U	500	U	250	U	500	U	100	U	100	U	10000	U	100	U	10	U	4	U	10	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	1000	U	2500	U	1250	U	2500	U	500	U	500	U	50000	U	500	U	50	U	2.67	J	16	J		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	100	U	250	U	125	U	250	U	50	U	50	U	5000	U	50	U	5	U	2	U	5	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	100	U	250	U	125	U	250	U	50	U	50	U	5000	U	50	U	5	U	2	U	5	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	7280	--	3250	--	1220	--	180	J	100	U	100	U	10000	U	100	U	10	U	4	U	10	U		
Chloroform	67-66-3	ug/l	6	0.5	150	U	375	U	188	U	375	U	75	U	75	U	7500	U	75	U	7.5	U	3	U	7.5	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	500	U	1250	U	625	U	1250	U	250	U	250	U	25000	U	250	U	25	U	0.882	J	25	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	18600	--	17400	--	15200	--	12400	--	2570	--	754	--	5000	U	199	--	24.8	--	57.8	--	205	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	19000	--	29400	--	37700	--	65900	--	14000	--	12000	--	49900	--	4280	--	162	--	182	--	191	--		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	120	U	300	U	150	U	300	U	60	U	60	U	6000	U	60	U	6	U	2.4	U	6	U		
Methylene chloride	75-09-2	ug/l	5	0.5	250	J	2500	U	1250	U	2500	U	62	J	500	U	50000	U	500	U	50	U	2.46	J	4.08	J		
Naphthalene	91-20-3	ug/l	280	0.5	500	U	1250	U	90.5	J	168	J	137	J	657	--	55600	--	105	J	15.7	J	10.3	--	4.83	J		
Styrene	100-42-5	ug/l	100	0.5	200	U	500	U	250	U	397	J	109	--	111	--	10000	U	44.9	J	4.3	J	16.6	--	24.3	--		
Tetrachloroethene	127-18-4	ug/l	5	0.5	282	--	250	U	53.8	J	477	--	61.3	--	33.7	J	5000	U	37.8	J	3.89	J	9.51	--	62.3	--		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	1000	U	2500	U	1250	U	2500	U	345	J	500	U	50000	U	500	U	50	U	9.91	J	25	J		
Toluene	108-88-3	ug/l	1000	0.5	31500	--	56100	--	81000	--	83300	--	13100	--	5370	--	5620	J	1840	--	55.6	--	156	--	333	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	150	U	375	U	188	U	375	U	75	U	75	U	7500	U	75	U	7.5	U	3	U	7.5	U		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	100	U	250	U	125	U	250	U	50	U	50	U	5000	U	50	U	5	U	2	U	5	U		
Trichloroethene	79-01-6	ug/l	5	0.5	156	--	250	U	48.8	J	1880	--	45.4	J	50	U	5000	U	164	--	50.8	--	108	--	407	--		
Vinyl chloride	75-01-4	ug/l	2	0.5	1630	--	951	--	1190	--	365	J	141	--	41.4	J	10000	U	19.9	J	1.62	J	12.6	--	30.3	--		
Xylenes, Total	1330-20-7	ug/l	530	0.5	4010	--	5830	--	8700	--	20500	--	4910	--	4040	--	26800	J	1550	--	86.3	--	97.8	--	179	--		
Halogenated VOCs Total	THVO	ug/l	--	--	58807	--	53321	--	44173.1	--	25537	--	3968.2	--	1898.8	--	79300	--	623	--	104.2	--	227.989	--	764.61	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	55609.2	--	91330	--	127852.9	--	176867	--	42305.2	--	24850	--	82320	--	8716	--	515.8	--	840.88	--	2189.5	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	114416.2	--	144651	--	172026	--	202404	--	46618.4	--	26748.8	--	161620	--	9339	--	620	--	1081.449	--	2995.11	--		

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and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision
Summary, September 2005
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ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-5		ISTR-5		ISTR-5		ISTR-5		ISTR-5		ISTR-5		ISTR-5		ISTR-5		ISTR-5		ISTR-5					
					3/20/2014 14:15		6/16/2014 14:05		7/15/2014 9:50		8/12/2014 14:25		9/17/2014 13:30		10/13/2014 15:15		11/12/2014 11:10		12/15/2014 13:50		1/13/2015 14:09		2/3/2015 14:00		2/17/2015 14:15			
					ISTR-5-03202014		ISTR-5-06162014		ISTR-5-07152014		ISTR-5-08122014		ISTR-5-09172014		ISTR-5-10132014		ISTR-5-11122014		ISTR-5-12152014		ISTR-5-01122015		ISTR-5-02032015		ISTR-5-02172015			
					--		--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																								
VOCs																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	1000	U	500	U	500	U	500	U	1000	U	200	U	500	U	200	U	10	U	10	U	10	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	2840	--	500	U	3760	--	500	U	1000	U	200	U	500	U	200	U	10	U	10	U	10	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	1500	U	750	U	750	U	750	U	1500	U	300	U	750	U	300	U	15	U	15	U	15	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	4880	--	4450	--	5870	--	6720	--	3070	--	1420	--	508	J	300	U	15	U	15	U	15	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	1540	--	396	J	1300	--	1360	--	1330	--	2130	--	3340	--	973	--	83.9	--	90.1	--	103	--		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	5000	U	2500	U	2500	U	2500	U	5000	U	1000	U	2500	U	1000	U	30.8	J	50	U	50	U		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	5000	U	2500	U	2500	U	2500	U	5000	U	1000	U	2500	U	1000	U	50	U	50	U	50	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	1000	U	500	U	215	J	500	U	1000	U	200	U	500	U	--	--	10	U	10	U	10	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	5000	U	2500	U	2500	U	2500	U	5000	U	1000	U	2500	U	1000	U	50	U	50	U	50	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	35400	--	5610	--	21600	--	20600	--	18500	--	14600	--	8450	--	9350	--	2120	--	1480	--	1100	--		
2-Hexanone	591-78-6	ug/l	140	5	10000	U	5000	U	5000	U	5000	U	10000	U	2000	U	5000	U	2000	U	100	U	100	U	100	U		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	8690	J	5000	U	5910	--	6580	--	10000	U	4200	--	5540	--	3660	--	619	--	938	--	810	--		
Acetone	67-64-1	ug/l	700	5	11400	--	1630	J	10800	--	10000	--	14900	--	8630	--	6530	--	7210	--	2480	--	1780	--	1890	--		
Benzene	71-43-2	ug/l	1	0.5	1000	U	500	U	161	J	163	J	1000	U	133	J	218	J	79.8	J	10.7	--	13.9	--	16.2	--		
Bromomethane	74-83-9	ug/l	9.8	0.5	2000	U	1000	U	1000	U	1000	U	2000	U	400	U	1000	U	400	U	20	U	20	U	20	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	10000	U	5000	U	5000	U	5000	U	10000	U	2000	U	5000	U	2000	U	100	U	100	U	100	U		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	1000	U	500	U	500	U	500	U	1000	U	200	U	500	U	200	U	10	U	10	U	10	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	1000	U	500	U	500	U	500	U	1000	U	200	U	500	U	200	U	10	U	10	U	10	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	17600	--	2460	--	9780	--	5570	--	2000	U	400	U	1000	U	400	U	20	U	20	U	20	U		
Chloroform	67-66-3	ug/l	6	0.5	1500	U	750	U	750	U	750	U	1500	U	300	U	750	U	300	U	15	U	15	U	15	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	558	J	2500	U	2500	U	2500	U	5000	U	1000	U	2500	U	1000	U	50	U	50	U	50	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	133000	--	67000	--	130000	--	126000	--	84700	--	63900	--	23400	--	18300	--	830	--	544	--	835	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	5390	--	4820	--	5190	--	5960	--	4670	--	2800	--	2160	--	1260	--	200	--	196	--	280	--		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	1200	U	600	U	600	U	600	U	1200	U	240	U	600	U	240	U	12	U	12	U	12	U		
Methylene chloride	75-09-2	ug/l	5	0.5	4040	J	471	J	2500	J	1650	J	10000	U	1770	J	3320	J	378	J	18.8	J	19.6	J	7.82	J		
Naphthalene	91-20-3	ug/l	280	0.5	5000	U	2500	U	2500	U	2500	U	5000	U	1000	U	2500	U	122	J	47.3	J	13.8	J	21.9	J		
Styrene	100-42-5	ug/l	100	0.5	2000	U	1000	U	1000	U	1000	U	2000	U	400	U	1000	U	400	U	23.2	--	21.2	--	37.4	--		
Tetrachloroethene	127-18-4	ug/l	5	0.5	1000	U	500	U	500	U	500	U	1000	U	2240	--	16700	--	3740	--	643	--	974	--	1100	--		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	2040	J	5000	U	5000	U	1410	J	10000	U	2000	U	5000	U	2000	U	75.9	J	47.1	J	30	J		
Toluene	108-88-3	ug/l	1000	0.5	48700	--	20700	--	42700	--	44700	--	30100	--	21000	--	30400	--	10700	--	1750	--	1720	--	2110	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	1500	U	750	U	750	U	750	U	1500	U	300	U	750	U	83.9	J	12.6	J	15.4	--	20.8	--		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	1000	U	500	U	500	U	500	U	1000	U	200	U	500	U	200	U	10	U	10	U	10	U		
Trichloroethene	79-01-6	ug/l	5	0.5	1390	--	500	U	500	U	1600	--	12800	--	31000	--	146000	--	32700	--	3000	--	3360	--	3710	--		
Vinyl chloride	75-01-4	ug/l	2	0.5	14000	--	3600	--	22300	--	17500	--	5550	--	8500	--	731	J	572	--	42.4	--	18.2	J	41.2	--		
Xylenes, Total	1330-20-7	ug/l	530	0.5	11800	--	12700	--	10600	--	12700	--	11300	--	6710	--	5350	--	3600	--	584	--	611	--	850	--		
Halogenated VOCs Total	THVO	ug/l	--	--	179848	--	78377	--	175725	--	160400	--	107450	--	110960	--	193999	--	56868.9	--	4732	--	5056.3	--	5877.12	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	121380	--	45460	--	96961	--	100703	--	79470	--	58073	--	58648	--	35859.8	--	7763.7	--	6738.9	--	7056.2	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	303268	--	123837	--	272686	--	262513	--	186920	--	169033	--	252647	--	92728.7	--	12571.6	--	11842.3	--	12963.32	--		

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
ug/L = micrograms per liter
VOCs = volatile organic compounds
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision Summary, September 2005
Bold = Analyte detected above the laboratory reporting limit
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ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-6		ISTR-6		ISTR-6		ISTR-6		ISTR-6		ISTR-6		ISTR-6		ISTR-6		ISTR-6		ISTR-6					
					3/20/2014 11:10		6/16/2014 13:20		7/15/2014 9:25		8/12/2014 13:55		9/17/2014 11:15		10/13/2014 14:50		11/12/2014 9:40		12/15/2014 11:30		1/13/2015 13:37		2/3/2015 11:50		2/17/2015 10:35			
					ISTR-6-03202014		ISTR-6-06162014		ISTR-6-07152014		ISTR-6-08122014		ISTR-6-09172014		ISTR-6-10132014		ISTR-6-11122014		ISTR-6-12152014		ISTR-6-01122015		ISTR-6-02032015		ISTR-6-02172015			
					--		--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																								
VOCs																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	500	U	10	U	25	U	25	U	100	U	125	U	5	U	5	U	5	U	0.5	U	5	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	1710	--	10	U	47.6	--	25	U	100	U	125	U	5	U	5	U	5	U	0.5	U	5	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	750	U	15	U	37.5	U	37.5	U	150	U	188	U	7.5	U	7.5	U	7.5	U	0.75	U	7.5	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	1300	--	292	--	121	--	69.5	--	218	--	289	--	7.5	U	7.5	U	7.5	U	0.75	U	7.5	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	656	--	7.8	J	29.7	--	48.6	--	207	--	391	--	5	U	5	U	5	U	1.24	--	4.06	J		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	2500	U	50	U	125	U	125	U	500	U	625	U	16.9	J	25	U	25	U	2.5	U	25	U		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	2500	U	5.82	J	125	U	125	U	500	U	625	U	25	U	25	U	25	U	2.5	U	25	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	500	U	10	U	25	U	25	U	100	U	125	U	5	U	--	--	5	U	0.5	U	5	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	2500	U	50	U	125	U	125	U	500	U	625	U	25	U	25	U	25	U	2.5	U	25	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	5000	U	241	--	250	U	250	U	1000	U	1250	U	79.3	--	26.5	J	47.6	J	30.3	--	62.4	--		
2-Hexanone	591-78-6	ug/l	140	5	5000	U	100	U	250	U	250	U	1000	U	1250	U	50	U	50	U	50	U	5	U	50	U		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	5000	U	162	--	250	U	250	U	1000	U	1250	U	50	U	50	U	50	U	5.74	--	8.03	J		
Acetone	67-64-1	ug/l	700	5	5000	U	146	--	250	U	127	J	1000	U	1250	U	290	--	140	--	118	--	63.5	--	191	--		
Benzene	71-43-2	ug/l	1	0.5	500	U	3.74	J	25	U	15.8	J	100	U	291	--	5	U	5	U	5	U	0.441	J	3.96	J		
Bromomethane	74-83-9	ug/l	9.8	0.5	1000	U	20	U	50	U	50	U	200	U	250	U	10	U	10	U	10	U	1	U	10	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	5000	U	100	U	250	U	250	U	1000	U	1250	U	50	U	50	U	50	U	0.504	J	50	U		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	500	U	10	U	25	U	25	U	100	U	125	U	5	U	5	U	5	U	0.5	U	5	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	500	U	10	U	25	U	25	U	100	U	125	U	5	U	5	U	5	U	0.5	U	5	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	560	J	61.8	--	178	--	30.2	J	200	U	250	U	10	U	10	U	10	U	1	U	10	U		
Chloroform	67-66-3	ug/l	6	0.5	750	U	15	U	37.5	U	37.5	U	150	U	188	U	7.5	U	7.5	U	7.5	U	0.75	U	7.5	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	2500	U	50	U	125	U	125	U	500	U	625	U	25	U	25	U	25	U	2.5	U	25	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	80600	--	1310	--	4240	--	3780	--	10800	--	26800	--	88.2	--	44.9	--	30.8	--	76.1	--	209	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	2910	--	1380	--	1150	--	239	--	877	--	1980	--	10.4	--	16.3	--	5.04	--	32.4	--	18	--		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	600	U	12	U	30	U	30	U	120	U	150	U	6	U	6	U	6	U	0.6	U	6	U		
Methylene chloride	75-09-2	ug/l	5	0.5	5000	U	100	U	250	U	20.3	J	1000	U	87.2	J	50	U	50	U	50	U	1.2	J	50	U		
Naphthalene	91-20-3	ug/l	280	0.5	2500	U	4.9	J	125	U	125	U	500	U	625	U	25	U	25	U	25	U	1.63	J	25	U		
Styrene	100-42-5	ug/l	100	0.5	1000	U	20	U	50	U	50	U	200	U	421	--	10	U	10	U	10	U	5.24	--	10	U		
Tetrachloroethene	127-18-4	ug/l	5	0.5	500	U	10	U	25	U	25	U	100	U	125	U	3.94	J	6.44	--	4.11	J	36.6	--	16.8	--		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	5000	U	37.1	J	250	U	250	U	1000	U	1250	U	50	U	50	U	50	U	5	U	50	U		
Toluene	108-88-3	ug/l	1000	0.5	8780	--	1200	--	543	--	524	--	1420	--	4340	--	21.4	--	20.8	--	7.17	J	45.4	--	61.4	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	750	U	15	U	37.5	U	37.5	U	150	U	188	U	7.5	U	7.5	U	7.5	U	0.267	J	2.92	J		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	500	U	10	U	25	U	25	U	100	U	125	U	5	U	5	U	5	U	0.5	U	5	U		
Trichloroethene	79-01-6	ug/l	5	0.5	500	U	10	U	25	U	40.6	--	2020	--	450	--	6.46	--	36.7	--	15	--	115	--	136	--		
Vinyl chloride	75-01-4	ug/l	2	0.5	6840	--	334	--	1130	--	1050	--	2220	--	5010	--	31.1	--	3.05	J	10	U	0.781	J	1.85	J		
Xylenes, Total	1330-20-7	ug/l	530	0.5	4840	--	749	--	781	--	314	--	842	--	2870	--	15	J	20.7	J	5.5	J	75.2	--	43.7	--		
Halogenated VOCs Total	THVO	ug/l	--	--	91666	--	2016.32	--	5746.3	--	5039.2	--	15465	--	33448.2	--	146.6	--	91.09	--	49.91	--	238.058	--	370.63	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	16530	--	3881.74	--	2474	--	1219.8	--	3139	--	9481	--	416.1	--	224.3	--	183.31	--	252.981	--	388.49	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	108196	--	5935.16	--	8220.3	--	6259	--	18604	--	42929.2	--	562.7	--	315.39	--	233.22	--	491.543	--	759.12	--		

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and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision
Summary, September 2005
Bold = Analyte detected above the laboratory reporting limit
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ISTR Monitoring Well Summary Data - February 2015
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location Sample Date Field Sample ID Well Group HydroStratZone(s)					ISTR-7		ISTR-7		ISTR-7		ISTR-7		ISTR-7		ISTR-7		ISTR-7		ISTR-7		ISTR-7		ISTR-7			
					3/20/2014 10:05		6/16/2014 11:25		7/15/2014 8:50		8/12/2014 13:30		9/17/2014 10:50		10/13/2014 14:15		11/12/2014 9:05		12/15/2014 10:50		1/13/2015 13:04		2/3/2015 10:00		2/17/2015 9:30	
					ISTR-7-03202014		ISTR-7-06162014		ISTR-7-07152014		ISTR-7-08122014		ISTR-7-09172014		ISTR-7-10132014		ISTR-7-11122014		ISTR-7-12152014		ISTR-7-01122015		ISTR-7-02032015		ISTR-7-02172015	
					--		--		--		--		--		--		--		--		--		--		--	
					MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB		MOB, DOB	
Analyte	CAS No.	Unit	Action Level	ICL																						
VOCs																										
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1	0.5	250	U	100	U	100	U	50	U	1000	U	500	U	10	U	50	U	10	U	10	U		
1,1,1-Trichloroethane	71-55-6	ug/l	200	0.5	1660	--	100	U	520	--	50	U	1000	U	500	U	10	U	50	U	10	U	10	U		
1,1,2-Trichloroethane	79-00-5	ug/l	5	0.5	375	U	150	U	150	U	75	U	1500	U	750	U	15	U	75	U	15	U	15	U		
1,1-Dichloroethane	75-34-3	ug/l	70	0.5	208	J	150	U	77.3	J	75	U	1500	U	750	U	15	U	75	U	15	U	15	U		
1,1-Dichloroethene	75-35-4	ug/l	7	0.5	768	--	255	--	294	--	140	--	3450	--	2130	--	9.47	J	178	--	75.6	--	190	--		
1,2,4-Trichlorobenzene	120-82-1	ug/l	70	2	1250	U	500	U	500	U	250	U	5000	U	2500	U	50	U	250	U	50	U	50	U		
1,2-Dichlorobenzene	95-50-1	ug/l	600	0.5	1250	U	500	U	500	U	250	U	5000	U	2500	U	50	U	250	U	50	U	50	U		
1,2-Dichloroethane	107-06-2	ug/l	1	0.5	250	U	100	U	100	U	50	U	1000	U	500	U	10	U	--	--	10	U	10	U		
1,4-Dichlorobenzene	106-46-7	ug/l	75	0.5	1250	U	500	U	500	U	250	U	5000	U	2500	U	50	U	250	U	50	U	50	U		
2-Butanone (MEK)	78-93-3	ug/l	400	5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	56.8	J	355	J	80.4	J	100	U		
2-Hexanone	591-78-6	ug/l	140	5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	100	U	500	U	100	U	100	U		
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	350	5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	100	U	500	U	100	U	21.9	J		
Acetone	67-64-1	ug/l	700	5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	510	--	927	--	345	--	219	--		
Benzene	71-43-2	ug/l	1	0.5	250	U	100	U	100	U	23.8	J	1000	U	500	U	10	U	26.2	J	4.54	J	16.2	--		
Bromomethane	74-83-9	ug/l	9.8	0.5	500	U	200	U	200	U	100	U	2000	U	1000	U	20	U	100	U	20	U	20	U		
Carbon disulfide	75-15-0	ug/l	700	0.5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	100	U	500	U	100	U	100	U		
Carbon tetrachloride	56-23-5	ug/l	5	0.5	250	U	100	U	100	U	50	U	1000	U	500	U	10	U	50	U	10	U	10	U		
Chlorobenzene	108-90-7	ug/l	100	0.5	250	U	100	U	100	U	50	U	1000	U	500	U	10	U	50	U	10	U	10	U		
Chloroethane	75-00-3	ug/l	12.1	0.5	500	U	200	U	200	U	100	U	2000	U	1000	U	20	U	100	U	20	U	20	U		
Chloroform	67-66-3	ug/l	6	0.5	375	U	150	U	150	U	75	U	1500	U	750	U	15	U	75	U	15	U	15	U		
Chloromethane	74-87-3	ug/l	2.7	0.5	1250	U	500	U	500	U	250	U	5000	U	2500	U	50	U	250	U	50	U	50	U		
cis-1,2-Dichloroethene	156-59-2	ug/l	70	0.5	45600	--	15200	--	15300	--	8520	--	65000	--	27100	--	356	--	819	--	211	--	597	--		
Ethylbenzene	100-41-4	ug/l	700	0.5	1240	--	310	--	399	--	253	--	2050	--	1570	--	109	--	646	--	136	--	438	--		
Hexachlorobutadiene	87-68-3	ug/l	0.45	0.45	300	U	120	U	120	U	60	U	1200	U	600	U	12	U	60	U	12	U	12	U		
Methylene chloride	75-09-2	ug/l	5	0.5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	100	U	500	U	100	U	100	U		
Naphthalene	91-20-3	ug/l	280	0.5	1250	U	500	U	500	U	250	U	5000	U	2500	U	50	U	38.1	J	37.5	J	34.4	J		
Styrene	100-42-5	ug/l	100	0.5	500	U	200	U	200	U	100	U	2000	U	1000	U	14.4	J	81.7	J	24.9	--	112	--		
Tetrachloroethene	127-18-4	ug/l	5	0.5	1260	--	463	--	423	--	217	--	2600	--	2670	--	156	--	1030	--	243	--	934	--		
Tetrahydrofuran	109-99-9	ug/l	4.6	0.5	2500	U	1000	U	1000	U	500	U	10000	U	5000	U	100	U	500	U	100	U	100	U		
Toluene	108-88-3	ug/l	1000	0.5	4550	--	1220	--	1380	--	692	--	15800	--	13300	--	626	--	2960	--	701	--	1800	--		
trans-1,2-Dichloroethene	156-60-5	ug/l	100	0.5	82	J	150	U	150	U	75	U	1500	U	750	U	15	U	75	U	15	U	4.25	J		
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	0.5	250	U	100	U	100	U	50	U	1000	U	500	U	10	U	50	U	10	U	10	U		
Trichloroethene	79-01-6	ug/l	5	0.5	1930	--	718	--	602	--	194	--	58700	--	48100	--	1140	--	6040	--	2190	--	9010	--		
Vinyl chloride	75-01-4	ug/l	2	0.5	858	--	371	--	543	--	245	--	2000	U	429	J	20	U	100	U	20	U	20	U		
Xylenes, Total	1330-20-7	ug/l	530	0.5	2900	--	730	--	901	--	626	--	3550	--	4320	--	296	--	1840	--	393	--	1570	--		
Halogenated VOCs Total	THVO	ug/l	--	--	52366	--	17007	--	17759.3	--	9316	--	129750	--	80429	--	1675.87	--	8186.8	--	2782	--	10881.65	--		
Non-Halogenated VOCs Total	TNHVO	ug/l	--	--	8690	--	2260	--	2680	--	1594.8	--	21400	--	19190	--	1597.8	--	6754.2	--	1659.94	--	4065.1	--		
Total Volatile Organics L-1 GW	TVO	ug/l	--	--	61056	--	19267	--	20439.3	--	10910.8	--	151150	--	99619	--	3273.67	--	14941	--	4441.94	--	14946.75	--		

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and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
ICL = Interim Cleanup Level based on Table L-1 from Record of Decision
Summary, September 2005
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
MOB = Middle Overburden
DOB = Deep Overburden

TABLE 7
CALCULATION OF PERCENT OF EFFECTIVE SOLUBILITY FOR MULTIPLE ORGANIC COMPOUNDS
SOLVENTS RECOVERY SERVICE OF NEW ENGLAND, INC. SUPERFUND SITE
SOUTHINGTON, CONNECTICUT

Compound	Pure-Phase Solubility (Si) mg/L	Reference	ISTR-1 2/17/2015 9:30		ISTR-2 2/18/2015 11:15		ISTR-3 2/18/2015 10:25		ISTR-4 2/18/2015 9:30		ISTR-5 2/17/2015 14:15		ISTR-6 2/17/2015 10:35		ISTR-7 2/17/2015 9:30	
			Conc. (Ci) mg/L	Ci/Si	Conc. (Ci) mg/L	Ci/Si	Conc. (Ci) mg/L	Ci/Si	Conc. (Ci) mg/L	Ci/Si	Conc. (Ci) mg/L	Ci/Si	Conc. (Ci) mg/L	Ci/Si	Conc. (Ci) mg/L	Ci/Si
1,1-dichloroethylene	400	a	0.021	5.25E-05	0.00317	7.93E-06	0.00132	3.30E-06	0.0268	6.70E-05	0.103	2.58E-04	0.00406	1.02E-05	0.306	7.65E-04
1,2,4-trichlorobenzene	19	c	0.0278	1.46E-03												
1,3-dichlorobenzene	111	c														
1,4-dichlorobenzene	81.3	d														
2-butanone (MEK)	268000	a	14	5.22E-05	0.173	6.46E-07	0.0695	2.59E-07	0.37	1.38E-06	1.1	4.10E-06	0.0624	2.33E-07		
2-hexanone	5142	d					0.00226	4.40E-07								
acetone	1000000	d	11.3	1.13E-05	0.848	8.48E-07	0.233	2.33E-07	1.05	1.05E-06	1.89	1.89E-06	0.191	1.91E-07		
benzene	1780	a	0.02	1.12E-05	0.0054	3.03E-06	0.00284	1.60E-06	0.0417	2.34E-05	0.0162	9.10E-06	0.00396	2.22E-06	0.0351	1.97E-05
carbon disulfide	2160	d					0.000724	3.35E-07	0.016	7.41E-06						
cis-1,2-dichloroethylene	3500	a	1.91	5.46E-04	0.00939	2.68E-06	0.00179	5.11E-07	0.205	5.86E-05	0.835	2.39E-04	0.209	5.97E-05	1.87	5.34E-04
ethylbenzene	152	a	0.483	3.18E-03	0.00401	2.64E-05	0.00122	8.03E-06	0.191	1.26E-03	0.28	1.84E-03	0.018	1.18E-04	2.42	1.59E-02
methylene chloride	16700	b	0.043	2.57E-06	0.00387	2.32E-07			0.00408	2.44E-07	0.00782	4.68E-07				
MIBK (4-methyl-2-pentanone)	19000	a	1.34	7.05E-05			0.00313	1.65E-07	0.0248	1.31E-06	0.81	4.26E-05	0.00803	4.23E-07		
naphthalene	31	a	0.0422	1.36E-03	0.00384	1.24E-04	0.00301	9.71E-05	0.00483	1.56E-04	0.0219	7.06E-04				
styrene	300	a	0.0314	1.05E-04					0.0243	8.10E-05	0.0374	1.25E-04			0.535	1.78E-03
tetrachloroethylene	150	a	0.117	7.80E-04			0.000475	3.17E-06	0.0623	4.15E-04	1.1	7.33E-03	0.0168	1.12E-04	5.16	3.44E-02
tetrahydrofuran	1000000	d	0.663	6.63E-07			0.0102	1.02E-08	0.025	2.50E-08	0.03	3.00E-08				
toluene	515	a	1.96	3.81E-03	0.0256	4.97E-05	0.00351	6.82E-06	0.333	6.47E-04	2.11	4.10E-03	0.0614	1.19E-04	9.85	1.91E-02
trans-1,2-dichloroethylene	6300	a	0.0125	1.98E-06							0.0208	3.30E-06	0.00292	4.63E-07		
trichloroethylene	1000	a	1.23	1.23E-03	0.00393	3.93E-06	0.00291	2.91E-06	0.407	4.07E-04	3.71	3.71E-03	0.136	1.36E-04	28.2	2.82E-02
vinyl chloride (chloroethylene)	1100	a	0.0362	3.29E-05					0.0303	2.75E-05	0.0412	3.75E-05	0.00185	1.68E-06		
xylene	189.3	a'	1.17	6.18E-03	0.0212	1.12E-04	0.00233	1.23E-05	0.179	9.46E-04	0.85	4.49E-03	0.0437	2.31E-04	7.98	4.22E-02
% Effective Solubility			2%		0.03%		0.01%		0.4%		2%		0.1%		14%	
TVOCs, mg/L (QA/QC check)			34.4		1.10		0.338		3.00		13.0		0.759		56.4	

Notes:

% = Sum of Ci/Si ratios, expressed as a percentage (Blasland, Bouck & Lee, Inc., 1998. Remedial Investigation Report. June 1998).

a = Ravi, V, and J.A. Johnson, 1994. VLEACH, A One-Dimensional Finite-Difference Vadose Zone Leaching Model, Version 2.1, developed for USEPA Robert S. Kerr Laboratory, Ada, Oklahoma.

a' = same as above, average value for M-, O-, and P-xylenes

b = USEPA, 1992. Handbook of RCRA Ground-Water Monitoring Constituents: Chemical and Physical Properties, 40CFR Part 264, Appendix IX.

c = Cohen R.M. and J.W. Mercer, 1993. DNAPL Site Evaluation. C. K. Smoley, Boca Raton, Florida. 1993.

d = Syracuse Research Corporation PhysProp Database, 2014. <http://esc.syrres.com/fatepointer/search.asp>

**Table 8 - Equilibrium Pore-Water Concentrations at Interim NAPL Cleanup Levels, Average Post-ISTR, and CSL-050 Soil Concentrations
Solvents Recovery Services of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut**

Estimation of Pore Water Concentration and NAPL-filled Pore Space from Total Concentration of Chemical in Soil

Groundwater Concentrations at Interim NAPL Cleanup Levels in Soils							
	Toluene	EthylBNZ	Xylenes	PCE	TCE	1,1,1 TCA	<-- input data
Ct =	48	59	70	46	222	221	<-- mg/kg
%moist =	0.15	0.15	0.15	0.15	0.15	0.15	<-- mass fraction
n =	0.32	0.32	0.32	0.32	0.32	0.32	(calc)
pb =	1.81	1.81	1.81	1.81	1.81	1.81	(calc)
Koc =	1700	164	240	240	126	151	<-- cm^3/g
TOC =	2040	2040	2040	2040	2040	2040	<-- mg/kg
fOC =	0.00204	0.00204	0.00204	0.00204	0.00204	0.00204	(calc)
nW =	0.32	0.32	0.32	0.32	0.32	0.32	(calc)
Hc =	0.27	0.32	0.30	0.75	0.42	0.17	<-- dimensionless
nA =	0	0	0	0	0	0	<-- volume fraction
Csol =	515	152	189	150	1000	950	<-- mg/kg
pNAPL =	0.8669	0.867	0.8684	1.623	1.464	1.32	<-- g/mL or kg/L
-	-	-	-	-	-	-	-
Cw =	13.17	115.45	105.09	69.06	512.10	456.13	<-- mg/L
Cs =	45.676	38.626	51.454	33.813	131.630	140.506	<-- mg/kg
nNAPL =	000.0E+0	000.0E+0	000.0E+0	000.0E+0	000.0E+0	000.0E+0	<-- volume fraction

Groundwater Concentrations at Highest CSL-050 Soil Concentration

	Toluene	EthylBNZ	Xylenes	PCE	TCE	1,1,1 TCA	<-- input data
Ct =	10	6.5	22.8	15	18	0	<-- mg/kg
%moist =	0.15	0.15	0.15	0.15	0.15	0.15	<-- mass fraction
n =	0.32	0.32	0.32	0.32	0.32	0.32	(calc)
pb =	1.81	1.81	1.81	1.81	1.81	1.81	(calc)
Koc =	1700	164	240	240	126	151	<-- cm^3/g
TOC =	2040	2040	2040	2040	2040	2040	<-- mg/kg
fOC =	0.00204	0.00204	0.00204	0.00204	0.00204	0.00204	(calc)
nW =	0.32	0.32	0.32	0.32	0.32	0.32	(calc)
Hc =	0.27	0.32	0.30	0.75	0.42	0.17	<-- dimensionless
nA =	0	0	0	0	0	0	<-- volume fraction
Csol =	515	152	189	150	1000	950	<-- mg/kg
pNAPL =	0.8669	0.867	0.8684	1.623	1.464	1.32	<-- g/mL or kg/L
-	-	-	-	-	-	-	-
Cw =	2.74	12.72	34.23	22.52	41.52	0.00	<-- mg/L
Cs =	9.516	4.255	16.759	11.026	10.673	0.000	<-- mg/kg
nNAPL =	000.0E+0	000.0E+0	000.0E+0	000.0E+0	000.0E+0	000.0E+0	<-- volume fraction

For saturated conditions:

Kd =	3.47	0.3346	0.49	0.49	0.26	0.31	
R =	20.7	2.8958	3.8	3.8	2.5	2.7	

Groundwater Concentrations at Average Post-ISTR Soil Concentrations							
	Toluene	EthylBNZ	Xylenes	PCE	TCE	1,1,1 TCA	<-- input data
Ct =	0.734	1.44	3.76	0.937	0.181	0	<-- mg/kg
%moist =	0.15	0.15	0.15	0.15	0.15	0.15	<-- mass fraction
n =	0.32	0.32	0.32	0.32	0.32	0.32	(calc)
pb =	1.81	1.81	1.81	1.81	1.81	1.81	(calc)
Koc =	1700	164	240	240	126	151	<-- cm^3/g
TOC =	2040	2040	2040	2040	2040	2040	<-- mg/kg
fOC =	0.00204	0.00204	0.00204	0.00204	0.00204	0.00204	(calc)
nW =	0.32	0.32	0.32	0.32	0.32	0.32	(calc)
Hc =	0.27	0.32	0.30	0.75	0.42	0.17	<-- dimensionless
nA =	0	0	0	0	0	0	<-- volume fraction
Csol =	515	152	189	150	1000	950	<-- mg/kg
pNAPL =	0.8669	0.867	0.8684	1.623	1.464	1.32	<-- g/mL or kg/L
-	-	-	-	-	-	-	-
Cw =	0.20	2.82	5.65	1.41	0.42	0.00	<-- mg/L
Cs =	0.698	0.943	2.764	0.689	0.107	0.000	<-- mg/kg
nNAPL =	000.0E+0	000.0E+0	000.0E+0	000.0E+0	000.0E+0	000.0E+0	<-- volume fraction

PERTINENT EQUATIONS:

$$M_{total} = (M_{soil} + M_{water} + M_{air} + M_{NAPL})$$

$$Ct = (M_{soil} + M_{water} + M_{air} + M_{NAPL}) / pb$$

$$Ct = [(Cw)(Koc)(fOC)(pb) + (Cw)(nW) + (Cw)(Hc)(nA) + (pNAPL)(nNAPL)] / pb$$

Ct = measured total soil concentration (ug/g or mg/kg, dry weight)

Cw = chemical concentration in pore water (mg/L or ug/cm^3)

Koc = organic carbon based partition coefficient (cm^3/g)

fOC = fraction of organic carbon in soil (dimensionless)

pb = dry bulk density of soil sample (g/cm^3)

nW = water-filled porosity (volume fraction)

Hc = Henry's Law constant (dimensionless)

nA = air-filled porosity (volume fraction)

pNAPL = density of chemical NAPL (g/cm^3 or g/mL or kg/L)

Csol = chemical aqueous solubility limit (mg/L or ug/cm^3)

Cs = chemical concentration sorbed to soil (mg/kg, dry weight)

nNAPL = NAPL-filled porosity (volume fraction)

Kd = soil-water partition coeff., Koc x fOC (cm^3/g)

R = retardation factor, 1 + (pb x Kd) / n (dimensionless)

Soil-Water-Air-NAPL PARTitioning

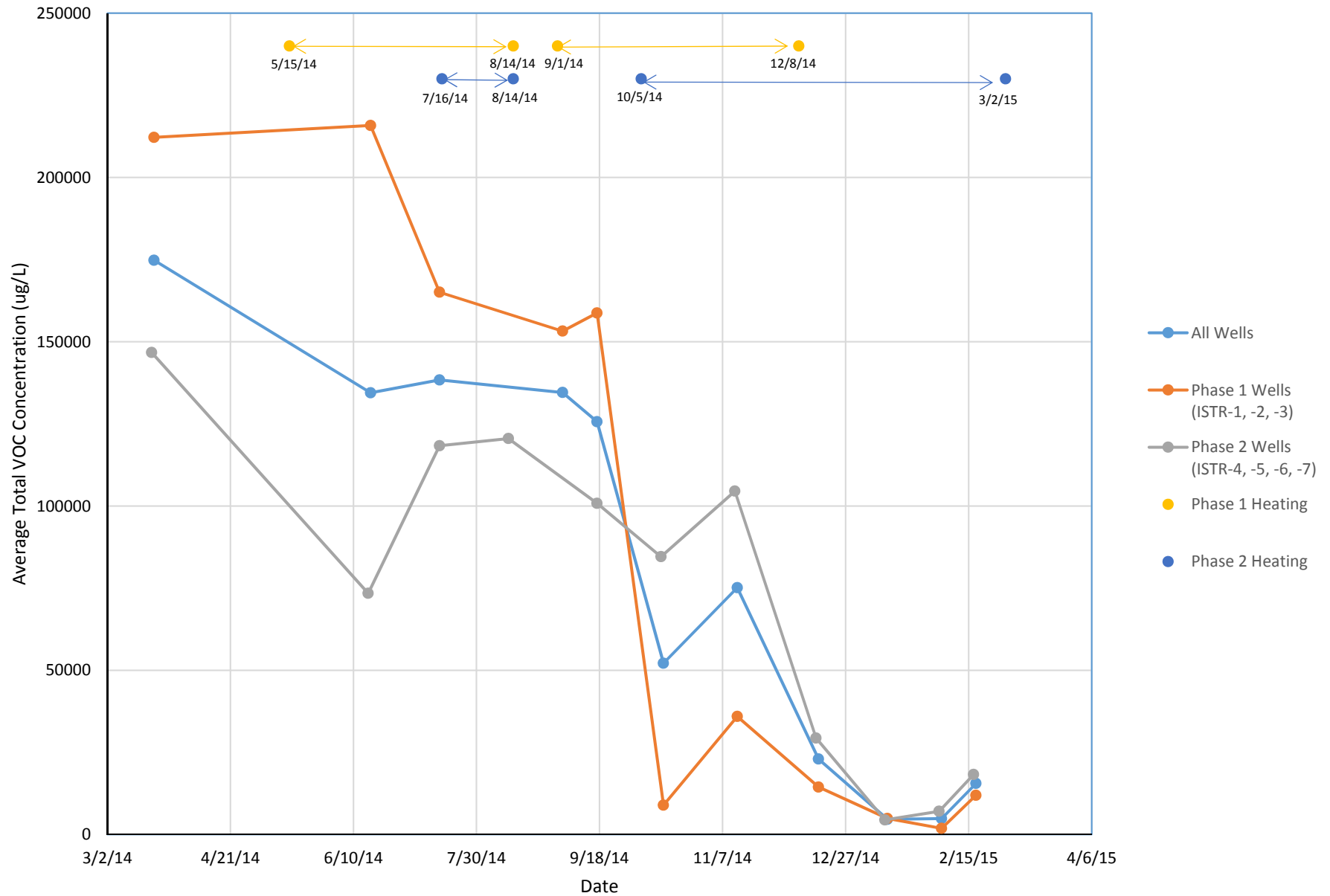
SWANPART.WK1 by M.J. Gefell, March 1993

Figure 14

Groundwater Sampling Summary - ISTR Wells

SRSNE Superfund Site
Southington, Connecticut

Average Total VOC Concentrations vs. Time



Demobilization Plan and Schedule

Memorandum

To: Jessie McCusker, *de maximis, inc.*

CC: Bruce Thompson, *de maximis, inc.*; Tim Mahoney, TerraTherm, Inc.

From: Robin Swift, Senior Project Manager

Date: 1 April 2015

Re: ***Draft ISTR Demobilization Plan***

TerraTherm, Inc. (TT) has prepared a demobilization plan to assist the team with understanding the sequence of events, anticipated activities, and the preliminary schedule associated with demobilizing the In-Situ Thermal Remediation (ISTR) equipment from the SRSNE site. The plan is summarized below, and supported by the following attachments:

- **Attachment A** includes baseline PCB wipe data results for samples collected to data. These samples were collected to assist with the demobilization planning process.
- **Attachment B** includes a draft description of the decontamination approach, including decontamination pad details, anticipated wipe sample locations and procedures, and disposition approach for the various materials.
- **Attachment C** is a preliminary schedule of demobilization activities.
- **Attachment D** includes estimates of the expected material disposal quantities.
- **Attachment E** is our Standard Operating Guideline for PCB wipe sampling.

Please note that this plan is our current understanding of the demobilization efforts and is subject to change due to site conditions, staff availability, weather, etc. Additionally, changes to these suggested approaches may occur once the vacuum system is shutdown and the process equipment and interconnecting piping can be dismantled and visually inspected.

In general, we plan to start demobilization efforts in the wellfield and work our way towards the process equipment. Due to internal damage to piping and hoses, the wellfield will be dismantled and staged in rolloffs for offsite disposal. The process equipment will be dismantled, decontaminated with a steam cleaner, sampled for PCBs, and if results are below criteria, approved to demobilize from the site.

Sections of the wellfield where temperatures are below that of steam (100°C), will start with jumper cable removal, heater and liner removal, heater box removal, manifold removal, then

cable removal. Currently, the entire wellfield is below steam temperature with the exception of two thermocouple arrays, TMP-29 and -39, located in the middle of the wellfield, along the Phase 1/Phase 2 divider line. In conjunction with this aboveground infrastructure removal, the team will focus on crating spare parts that were not in contact with site contaminants and ship them to the office. They will also focus on dismantling now ancillary equipment, such as the oxidizer, water softener shed, rental generator, and air compressors, and demobilize them from the site.

Once infrastructure from the wellfield is removed, our focus will be twofold: 1) we will work with a subcontracted drilling company (currently believed to be ADT) to cut the stickups approximately 2 ft below grade or pull up and grout, and 2) dismantling and steam cleaning of the process equipment. Wipe samples will be collected on the process equipment, as identified in the attached Demobilization Plan. Equipment will remain onsite pending analytical results.

The final step will be to disconnect power to the site, and demobilize remaining equipment and materials.

Attachment A

Results of Preliminary PCB Wipe
Sampling

SRSNE Superfund Site

Southington, Connecticut

Results of Preliminary PCB Wipe Sampling for ISTR System Components

Sample ID	Sample Date	Sample Location	Total PCB Concentration (ug/100cm ²)
VEW-375	1/14/2015	inside of VEW riser pipe	491
SP-SV23	1/14/2015	inside vapor leg 23	108
Condensate Header	1/14/2015	inside condensate header	305
OWS In	1/14/2015	at inlet to oil-water separator	142
OWS Out	1/14/2015	at outlet to oil-water separator	114
Oxidizer In	2/4/2015	at inlet to thermal oxidizer	8.6
Oxidizer Out	2/4/2015	oxidizer scrubber sump	ND (1)

Notes:

1. Wipe samples collected by TerraTherm and analyzed by Accutest Laboratories of Marlborough, MA.



01/19/15

Technical Report for

TerraTherm, Inc.

SRSNE Southington, CT

13-101;1200-100 PO#31946

Accutest Job Number: MC36403

Sampling Date: 01/14/15

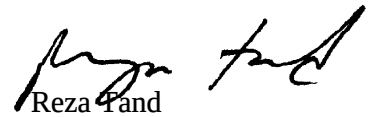
Report to:

TerraTherm, Inc.
151 Suffolk Lane
Gardner, MA 01440
afortune@terratherm.com; pwood@terratherm.com;
nstone@terratherm.com
ATTN: Alyson Fortune

Total number of pages in report: **20**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

TerraTherm, Inc.

Job No: MC36403

SRSNE Southington, CT
Project No: 13-101;1200-100 PO#31946

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
MC36403-1	01/14/15	12:50 DL	01/14/15	WIPE Wipe Sample	VEW-375
MC36403-2	01/14/15	12:55 DL	01/14/15	WIPE Wipe Sample	SP-SV23
MC36403-3	01/14/15	13:00 DL	01/14/15	WIPE Wipe Sample	CONDENSATE HEADER
MC36403-4	01/14/15	12:50 EA	01/14/15	WIPE Wipe Sample	OWS IN
MC36403-5	01/14/15	12:50 EA	01/14/15	WIPE Wipe Sample	OWS OUT



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: TerraTherm, Inc.

Job No MC36403

Site: SRSNE Southington, CT

Report Date 1/19/2015 3:03:39 PM

5 Sample(s) were collected on 01/14/2015 and were received at Accutest on 01/14/2015 properly preserved, at 0.9 Deg. C and intact. These Samples received an Accutest job number of MC36403. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082A

Matrix: WIPE

Batch ID: OP41664

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- MC36403-1,2,3,4,5 for Decachlorobiphenyl, Tetrachloro-m-xylene: Outside control limits due to dilution.
- MC36403-3 for Tetrachloro-m-xylene: Outside control limits due to possible matrix interference. Sample results confirmed by reanalysis.
- MC36403-2,4,5 for Tetrachloro-m-xylene: Outside control limits due to possible matrix interference.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC36403).

Summary of Hits

Page 1 of 1

Job Number: MC36403
Account: TerraTherm, Inc.
Project: SRSNE Southington, CT
Collected: 01/14/15



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36403-1	VEW-375					
Aroclor 1254		491	100		ug/wipe	SW846 8082A
MC36403-2	SP-SV23					
Aroclor 1254		108	100		ug/wipe	SW846 8082A
MC36403-3	CONDENSATE HEADER					
Aroclor 1254		305	100		ug/wipe	SW846 8082A
MC36403-4	OWS IN					
Aroclor 1254		142	100		ug/wipe	SW846 8082A
MC36403-5	OWS OUT					
Aroclor 1254		114	100		ug/wipe	SW846 8082A

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	VEW-375	Date Sampled:	01/14/15
Lab Sample ID:	MC36403-1	Date Received:	01/14/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3511		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45516.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416
Run #2	BK45538.D	100	01/19/15	NK	01/16/15	OP41664	GBK1417

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2	1 wipes	10.0 ml

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	491 ^a	100	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%	0% ^b	42-137%
877-09-8	Tetrachloro-m-xylene	90%	0% ^b	42-137%
2051-24-3	Decachlorobiphenyl	117%	0% ^b	51-166%
2051-24-3	Decachlorobiphenyl	137%	0% ^b	51-166%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SP-SV23	Date Sampled:	01/14/15
Lab Sample ID:	MC36403-2	Date Received:	01/14/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3511		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45517.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416
Run #2	BK45539.D	100	01/19/15	NK	01/16/15	OP41664	GBK1417

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2	1 wipes	10.0 ml

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	108 ^a	100	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	134%	0% ^b	42-137%
877-09-8	Tetrachloro-m-xylene	176% ^c	0% ^b	42-137%
2051-24-3	Decachlorobiphenyl	103%	0% ^b	51-166%
2051-24-3	Decachlorobiphenyl	116%	0% ^b	51-166%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CONDENSATE HEADER	Date Sampled:	01/14/15
Lab Sample ID:	MC36403-3	Date Received:	01/14/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3511		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45518.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416
Run #2	BK45540.D	100	01/19/15	NK	01/16/15	OP41664	GBK1417

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2	1 wipes	10.0 ml

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	305 ^a	100	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	30% ^c	0% ^b	42-137%
877-09-8	Tetrachloro-m-xylene	35% ^c	0% ^b	42-137%
2051-24-3	Decachlorobiphenyl	58%	0% ^b	51-166%
2051-24-3	Decachlorobiphenyl	51%	0% ^b	51-166%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to possible matrix interference. Sample results confirmed by reanalysis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	OVS IN	Date Sampled:	01/14/15
Lab Sample ID:	MC36403-4	Date Received:	01/14/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3511		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45519.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416
Run #2	BK45541.D	100	01/19/15	NK	01/16/15	OP41664	GBK1417

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2	1 wipes	10.0 ml

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	142 ^a	100	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%	0% ^b	42-137%
877-09-8	Tetrachloro-m-xylene	197% ^c	0% ^b	42-137%
2051-24-3	Decachlorobiphenyl	68%	0% ^b	51-166%
2051-24-3	Decachlorobiphenyl	78%	0% ^b	51-166%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OWS OUT	Date Sampled:	01/14/15
Lab Sample ID:	MC36403-5	Date Received:	01/14/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3511		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45520.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416
Run #2	BK45542.D	100	01/19/15	NK	01/16/15	OP41664	GBK1417

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2	1 wipes	10.0 ml

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	114 ^a	100	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%	0% ^b	42-137%
877-09-8	Tetrachloro-m-xylene	144% ^c	0% ^b	42-137%
2051-24-3	Decachlorobiphenyl	79%	0% ^b	51-166%
2051-24-3	Decachlorobiphenyl	92%	0% ^b	51-166%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36403 **Client:** TERRATHERM **Project:** SOIUTHINGTON
Date / Time Received: 1/14/2015 6:00:00 PM **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (0.9/0.9): _____

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☒		☐	3. COC Present:	☒		☐
2. Custody Seals Intact:	☒		☐	4. Smpl Dates/Time OK	☒		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☒		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☒
2. Trip Blank listed on COC:	☐		☐	☒
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☐		☐	☒

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒

Comments

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England **Client:** TerraTherm, Inc.

Project Location: SRSNE Southington, CT **Project Number:** 13-101

Sampling Date(s): 1/14/2015

Laboratory Sample ID(s): MC36403-1, MC36403-2, MC36403-3, MC36403-4, MC36403-5

Methods: SW846 8082A

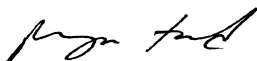
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	Yes ☒ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☒ No ☐
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☒
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☒ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☒ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☒
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☐ No ☒
	b) Were these reporting limits met?	Yes ☐ No ☒
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☒ No ☐
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☒

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature:



Position: Lab Director

Printed Name: Reza Tand

Accutest New England

Date: 1/19/2015

Internal Sample Tracking Chronicle

TerraTherm, Inc.

Job No: MC36403

SRSNE Southington, CT

Project No: 13-101;1200-100 PO#31946

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36403-1 Collected: 14-JAN-15 12:50 By: DL Received: 14-JAN-15 By: SAP VEW-375						
MC36403-1	SW846 8082A	16-JAN-15 21:07	NK	16-JAN-15	AZ	P8082RCP
MC36403-1	SW846 8082A	19-JAN-15 08:52	NK	16-JAN-15	AZ	P8082RCP
MC36403-2 Collected: 14-JAN-15 12:55 By: DL Received: 14-JAN-15 By: SAP SP-SV23						
MC36403-2	SW846 8082A	16-JAN-15 21:19	NK	16-JAN-15	AZ	P8082RCP
MC36403-2	SW846 8082A	19-JAN-15 09:10	NK	16-JAN-15	AZ	P8082RCP
MC36403-3 Collected: 14-JAN-15 13:00 By: DL Received: 14-JAN-15 By: SAP CONDENSATE HEADER						
MC36403-3	SW846 8082A	16-JAN-15 21:32	NK	16-JAN-15	AZ	P8082RCP
MC36403-3	SW846 8082A	19-JAN-15 09:22	NK	16-JAN-15	AZ	P8082RCP
MC36403-4 Collected: 14-JAN-15 12:50 By: EA Received: 14-JAN-15 By: SAP OWS IN						
MC36403-4	SW846 8082A	16-JAN-15 21:44	NK	16-JAN-15	AZ	P8082RCP
MC36403-4	SW846 8082A	19-JAN-15 09:34	NK	16-JAN-15	AZ	P8082RCP
MC36403-5 Collected: 14-JAN-15 12:50 By: EA Received: 14-JAN-15 By: SAP OWS OUT						
MC36403-5	SW846 8082A	16-JAN-15 21:56	NK	16-JAN-15	AZ	P8082RCP
MC36403-5	SW846 8082A	19-JAN-15 09:46	NK	16-JAN-15	AZ	P8082RCP

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: MC36403

Account: TERRTMAG TerraTherm, Inc.

Project: SRSNE Southington, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41664-MB	BK45506.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416

The QC reported here applies to the following samples:

Method: SW846 8082A

MC36403-1, MC36403-2, MC36403-3, MC36403-4, MC36403-5

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	ND	1.0	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	76% 42-137%
877-09-8	Tetrachloro-m-xylene	78% 42-137%
2051-24-3	Decachlorobiphenyl	74% 51-166%
2051-24-3	Decachlorobiphenyl	84% 51-166%

Blank Spike Summary

Page 1 of 1

Job Number: MC36403

Account: TERRTMAG TerraTherm, Inc.

Project: SRSNE Southington, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41664-BS	BK45507.D	1	01/16/15	NK	01/16/15	OP41664	GBK1416

The QC reported here applies to the following samples:

Method: SW846 8082A

MC36403-1, MC36403-2, MC36403-3, MC36403-4, MC36403-5

CAS No.	Compound	Spike ug/wipe	BSP ug/wipe	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.0	75	52-130
11104-28-2	Aroclor 1221		ND		50-150 ^a
11141-16-5	Aroclor 1232		ND		50-150 ^a
53469-21-9	Aroclor 1242		ND		50-150 ^a
12672-29-6	Aroclor 1248		ND		50-150 ^a
11097-69-1	Aroclor 1254		ND		50-150 ^a
11096-82-5	Aroclor 1260	4	2.7	68	58-138
37324-23-5	Aroclor 1262		ND		50-150 ^a
11100-14-4	Aroclor 1268		ND		50-150 ^a

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	81%	42-137%
877-09-8	Tetrachloro-m-xylene	81%	42-137%
2051-24-3	Decachlorobiphenyl	79%	51-166%
2051-24-3	Decachlorobiphenyl	85%	51-166%

(a) Advisory control limits.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: MC36403
Account: TERRTMAG TerraTherm, Inc.
Project: SRSNE Southington, CT

Method: SW846 8082A	Matrix: WIPE
----------------------------	---------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
MC36403-1	BK45538.D	0* ^c	0* ^c	0* ^c	0* ^c
MC36403-1	BK45516.D	69	90	117	137
MC36403-2	BK45539.D	0* ^c	0* ^c	0* ^c	0* ^c
MC36403-2	BK45517.D	134	176* ^d	103	116
MC36403-3	BK45540.D	0* ^c	0* ^c	0* ^c	0* ^c
MC36403-3	BK45518.D	30* ^e	35* ^e	58	51
MC36403-4	BK45541.D	0* ^c	0* ^c	0* ^c	0* ^c
MC36403-4	BK45519.D	82	197* ^d	68	78
MC36403-5	BK45542.D	0* ^c	0* ^c	0* ^c	0* ^c
MC36403-5	BK45520.D	81	144* ^d	79	92
OP41664-BS	BK45507.D	81	81	79	85
OP41664-MB	BK45506.D	76	78	74	84

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = Tetrachloro-m-xylene	42-137%
S2 = Decachlorobiphenyl	51-166%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference.
- (e) Outside control limits due to possible matrix interference. Sample results confirmed by reanalysis.

6.3.1

6



02/12/15

Technical Report for

TerraTherm, Inc.

SRSNE Southington, CT

13-101

Accutest Job Number: MC36747

Sampling Date: 02/04/15

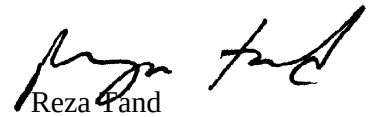
Report to:

TerraTherm, Inc.
151 Suffolk Lane
Gardner, MA 01440
afortune@terratherm.com; pwood@terratherm.com;
nstone@terratherm.com
ATTN: Alyson Fortune

Total number of pages in report: **18**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

TerraTherm, Inc.

Job No: MC36747

SRSNE Southington, CT
Project No: 13-101

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
MC36747-1	02/04/15	14:30 EA	02/04/15	WIPE Wipe Sample	OXIDIZER IN
MC36747-2	02/04/15	14:35 EA	02/04/15	WIPE Wipe Sample	OXIDIZER OUT



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: TerraTherm, Inc.

Job No MC36747

Site: SRSNE Southington, CT

Report Date 2/12/2015 11:56:36 AM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 02/04/2015 and were received at Accutest on 02/04/2015 properly preserved, at 1.5 Deg. C and intact. These Samples received an Accutest job number of MC36747. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082A

Matrix: WIPE

Batch ID: OP41958

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC36747).

Summary of Hits

Job Number: MC36747
Account: TerraTherm, Inc.
Project: SRSNE Southington, CT
Collected: 02/04/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC36747-1 OXIDIZER IN

Aroclor 1254	8.6	1.0	ug/wipe	SW846 8082A
--------------	-----	-----	---------	-------------

MC36747-2 OXIDIZER OUT

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OXIDIZER IN	Date Sampled:	02/04/15
Lab Sample ID:	MC36747-1	Date Received:	02/04/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3580A		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK46195.D	1	02/07/15	NK	02/06/15	OP41958	GBK1435
Run #2							

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	8.6	1.0	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		42-137%
877-09-8	Tetrachloro-m-xylene	83%		42-137%
2051-24-3	Decachlorobiphenyl	87%		51-166%
2051-24-3	Decachlorobiphenyl	91%		51-166%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OXIDIZER OUT	Date Sampled:	02/04/15
Lab Sample ID:	MC36747-2	Date Received:	02/04/15
Matrix:	WIPE - Wipe Sample	Percent Solids:	n/a
Method:	SW846 8082A SW846 3580A		
Project:	SRSNE Southington, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK46196.D	1	02/07/15	NK	02/06/15	OP41958	GBK1435
Run #2							

	Initial Weight	Final Volume
Run #1	1 wipes	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	ND	1.0	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-137%
877-09-8	Tetrachloro-m-xylene	77%		42-137%
2051-24-3	Decachlorobiphenyl	83%		51-166%
2051-24-3	Decachlorobiphenyl	85%		51-166%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36747 **Client:** TERRATHERM **Project:** SRSNE 13-101
Date / Time Received: 2/4/2015 7:40:00 PM **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (1.5/1.5): _____

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☒		☐	3. COC Present:	☒		☐
2. Custody Seals Intact:	☒		☐	4. Smpl Dates/Time OK	☒		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☒		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☒
2. Trip Blank listed on COC:	☐		☐	☒
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☐		☐	☒

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒

Comments

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England

Client: TerraTherm, Inc.

Project Location: SRSNE Southington, CT

Project Number: 13-101

Sampling Date(s): 2/4/2015

Laboratory Sample ID(s): MC36747-1, MC36747-2

Methods: SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☒ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☒ No ☐
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☒
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☒ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☒ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☒ No ☐
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☐ No ☒
	b) Were these reporting limits met?	Yes ☐ No ☒
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☒ No ☐
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☒

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature:

Position: Lab Director

Printed Name: Reza Tand
Accutest New England

Date: 2/12/2015

Internal Sample Tracking Chronicle

TerraTherm, Inc.

Job No: MC36747

SRSNE Southington, CT
Project No: 13-101

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36747-1 Collected: 04-FEB-15 14:30 By: EA Received: 04-FEB-15 By: OXIDIZER IN						
MC36747-1	SW846 8082A	07-FEB-15 14:15	NK	06-FEB-15	AW	P8082RCP
MC36747-2 Collected: 04-FEB-15 14:35 By: EA Received: 04-FEB-15 By: OXIDIZER OUT						
MC36747-2	SW846 8082A	07-FEB-15 14:31	NK	06-FEB-15	AW	P8082RCP

QC Evaluation: CT RCP Limits

Job Number: MC36747
Account: TerraTherm, Inc.
Project: SRSNE Southington, CT
Collected: 02/04/15

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
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No Exceptions found.

* Sample used for QC is not from job MC36747

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: MC36747

Account: TERRTMAG TerraTherm, Inc.

Project: SRSNE Southington, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41958-MB	BK46193.D	1	02/07/15	NK	02/06/15	OP41958	GBK1435

The QC reported here applies to the following samples:

Method: SW846 8082A

MC36747-1, MC36747-2

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.0	ug/wipe	
11104-28-2	Aroclor 1221	ND	1.0	ug/wipe	
11141-16-5	Aroclor 1232	ND	1.0	ug/wipe	
53469-21-9	Aroclor 1242	ND	1.0	ug/wipe	
12672-29-6	Aroclor 1248	ND	1.0	ug/wipe	
11097-69-1	Aroclor 1254	ND	1.0	ug/wipe	
11096-82-5	Aroclor 1260	ND	1.0	ug/wipe	
37324-23-5	Aroclor 1262	ND	1.0	ug/wipe	
11100-14-4	Aroclor 1268	ND	1.0	ug/wipe	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	92% 42-137%
877-09-8	Tetrachloro-m-xylene	90% 42-137%
2051-24-3	Decachlorobiphenyl	95% 51-166%
2051-24-3	Decachlorobiphenyl	98% 51-166%

Blank Spike Summary

Page 1 of 1

Job Number: MC36747

Account: TERRTMAG TerraTherm, Inc.

Project: SRSNE Southington, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41958-BS	BK46194.D	1	02/07/15	NK	02/06/15	OP41958	GBK1435

The QC reported here applies to the following samples:

Method: SW846 8082A

MC36747-1, MC36747-2

CAS No.	Compound	Spike ug/wipe	BSP ug/wipe	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.4	85	52-130
11104-28-2	Aroclor 1221		ND		50-150 ^a
11141-16-5	Aroclor 1232		ND		50-150 ^a
53469-21-9	Aroclor 1242		ND		50-150 ^a
12672-29-6	Aroclor 1248		ND		50-150 ^a
11097-69-1	Aroclor 1254		ND		50-150 ^a
11096-82-5	Aroclor 1260	4	3.5	88	58-138
37324-23-5	Aroclor 1262		ND		50-150 ^a
11100-14-4	Aroclor 1268		ND		50-150 ^a

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	90%	42-137%
877-09-8	Tetrachloro-m-xylene	91%	42-137%
2051-24-3	Decachlorobiphenyl	93%	51-166%
2051-24-3	Decachlorobiphenyl	96%	51-166%

(a) Advisory control limits.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC36747
Account: TERRTMAG TerraTherm, Inc.
Project: SRSNE Southington, CT

Method: SW846 8082A	Matrix: WIPE
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
MC36747-1	BK46195.D	85	83	87	91
MC36747-2	BK46196.D	79	77	83	85
OP41958-BS	BK46194.D	90	91	93	96
OP41958-MB	BK46193.D	92	90	95	98

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	42-137%
S2 = Decachlorobiphenyl	51-166%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Attachment B

ISTR Component Decontamination
and Disposition Procedures

ISTR Component Decontamination and Disposition Procedures

All personnel performing decontamination activities must wear poly-coated Tyvek and Neoprene over gloves with Nitrile under gloves at a minimum. Personnel performing decontamination activities in the decontamination pad area must wear face shields, goggles, and heavy PVC over gloves in place of the Neoprene over gloves while using a steam cleaner/or pressure washer.

1. Following completion of the ISTD treatment period, the treatment system will be shut down, and the vapor and liquid conveyance piping and treatment equipment will be dismantled and either decontaminated with a steam cleaner prior to demobilization or staged in a rolloff for offsite disposal by others. Note that due to the staged treatment and shutoff of the wellfield, sections of the wellfield may be dismantled while others are still online.
2. Flex hoses, piping, wellheads, etc. will be drummed (or staged in a rolloff) for offsite disposal by others.
3. All steam cleaning activities must take place in a properly bermed/contained area with a sump so that collected decontamination fluids can be treated through the aboveground liquid train and/or drummed. Construction of the containment area is discussed below.
4. Following steam cleaning decontamination of the process equipment (disassembled to access all areas), filter media (demister pad, etc.), all disassembled piping and equipment will be staged on the equipment pad on poly liner and covered by a poly liner as practical until wipe sample data results are received confirming adequate decontamination.

Specifications for the Decontamination Pad

TerraTherm will construct one or more decontamination pads, or use the existing equipment pad, for field cleaning of process equipment and wellfield components.

All equipment awaiting decontamination will be stockpiled on a poly lined section of the process equipment pad.

If constructed, the decontamination pad will meet the following minimum specifications:

- The pad should be constructed in an area known or believed to be free of surface contamination.
- The frame of the pad will be constructed out of stacked layers of 2x4's with an overlay of 3 sheets of 6 mil poly liner.
- The pad shall be filled with clean water and tested for leaks.
- If possible, the pad should be constructed on a level, paved surface and should facilitate the removal of wastewater. This may be accomplished by either constructing the pad with one corner lower than the rest, or by creating a sump or pit in one corner or along one side. Any sump or pit should also be lined.
- Sawhorses, racks or 4x4 timber pads should be constructed to hold equipment up off of the poly sheets while being cleaned and should be high enough above ground to prevent equipment from being splashed.
- Water should be removed from the decontamination pad frequently.
- To the extent possible, decontamination fluids will be pumped from the pad through the TerraTherm aboveground liquid treatment system (i.e., oil water separator, bag filters,

clay and carbon vessels), which will remain online after wellfield vacuum shutdown and until decontamination of other components has been completed. Similar to thermal operations, decontamination fluids processed through the system will be discharged to the POTW. Effluent water samples will be collected post carbon on a weekly basis and analyzed for the following parameters:

- o Day 1: EPA 624 VOCs including MtBE, EPA 625 SVOCs, O&G, PCBs, TSS, and pH.
 - o Weekly thereafter: EPA 624 VOCs including MtBE, TSS and pH.
- TerraTherm's aboveground treatment system will be dismantled once other ISTR components have been cleaned and the associated liquids have been processed by the system. Cleaning fluids generated by the subsequent decontamination of the liquid treatment system components (e.g., oil water separator) will be collected, drummed, and characterized for offsite disposal.
- A smaller temporary pad should be built as a holding point for items that have been cleaned and need to be dried.
- At the completion of site activities, the decontamination pad should be broken down. If a pit or sump was used they shall be backfilled with the appropriate material

Once all equipment, piping and tools have been decontaminated, wipe samples will be collected according to the following protocol:

Wipe sampling (as defined in 40 CFR §761.123) will be performed on process equipment following steam cleaning, if applicable, at the following locations. Other locations may be sampled once the equipment has been disassembled and can be visually assessed.

Anticipated Locations of Wipe Sample Points

1. Moisture Separator – Two samples will be collected, one from the demister pad and the second from the bottom of the separator.
2. Thermal Oxidizer – One sample has been collected at the inlet to the oxidizer; and a second sample was collected from the scrubber sump. Due to the refractory lining of the oxidizer and piping, steam cleaning was not performed prior to sample collection. Data results for both samples were below 10 µg/100 cm². Data results are included as an attachment to the decontamination plan.
3. Heat Exchanger – One sample will be collected on the surface of the heat exchanger that was exposed to the exhaust stream of the thermal oxidizer. Should results of this sample exceed regulatory thresholds, an additional sample will be collected on the heat exchanger as well as one sample within the downstream process piping and the inlet of the scrubber. Due to the refractory lining of the oxidizer and piping, steam cleaning will not be performed prior to sample collection.
4. Oil Water Separators – Two samples will be collected: one from the high water mark that may have been subject to LNAPL, and the second from the bottom of the vessel that may have been exposed to DNAPL.
5. Vapor Chiller - One sample will be collected from the inlet.
6. Moisture Separators – Two samples will be collected: one from the demister pad and the second from the bottom of the separator.
7. Duct Heater – One sample will be collected from the inlet to the heater.
8. Carbon Vessels – One sample will be collected from the inlet to the liquid and vapor carbon vessels.

PCB Wipe Sampling Procedure

Wipe sampling follows the procedures in the US EPA's PCB spill cleanup guidance.¹ The lab will provide a 4 oz. soil jar with 5 mL of hexane inside the jar along with the 1" x 1" gauze. They will also provide one 10 cm x 10 cm wipe cardboard template (applicable for flat surfaces to show a 100 cm² area).

1. While wearing a new/clean pair of Nitrile (or other suitable) gloves, remove the cap from the sampling vial.
2. Remove the gauze from the sampling vial (the gauze will be pre-soaked with hexane).
3. Immediately begin applying the gauze using a gloved hand and, applying pressure, wipe the marked area completely twice, from left to right and then from top to bottom.
4. Let the gauze air dry.



5. Fold the dry gauze (sampled side inward) and return it to the sample vial.
6. Cap the sample vial.
7. Remove and discard the gloves.
8. Label the vial and fill out sampling details on the sampling forms.
9. Fill out chain of custody forms and prepare the sample for storage and shipping. Samples should be stored on ice until picked up by the laboratory courier or shipped on ice overnight to the laboratory for analysis.

Equipment and Material Disposition

The following list identifies system components and other materials that are to be scrapped and/or disposed): Estimated disposal quantities were provided under separate cover.

- Carbon steel pipe, including horizontal VEW pipe, fiberglass, fittings, etc. from the wellfield will be scrapped and/or disposed. It is our current belief that all materials in the wellfield will be disposed (i.e., nothing salvageable).
- 10,000 lbs of vapor carbon currently online to be vacuumed out for disposal (prior profile/analytical to be used).

¹ WIPE SAMPLING AND DOUBLE WASH/RINSE CLEANUP AS RECOMMENDED BY THE ENVIRONMENTAL PROTECTION AGENCY PCB SPILL CLEANUP POLICY, April 18, 1991. Available online: <http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/wipe-samp.pdf> (link current as of 10/26/12)

- 1,100 lbs of liquid carbon and 2,000 lbs of clay currently online to be vacuumed out for disposal (prior profile/analytical to be used).
- Flex hoses to be decontaminated to the extent practical and drummed for disposal.
- PPE used to date and during decontamination activities that comes in contact with site fluids will be drummed for disposal.
- Decontamination fluids will be processed through the TerraTherm water treatment train described above and discharged to the POTW.

The following list identifies wellfield components that have not come into contact with vapor or liquid process streams and are planned to be disposed of as regular construction wastes:

- Pipe insulation not in contact with site fluids to be discarded in roll off (expected to be approximately one dumpster)
- General construction debris not in contact with site fluids such as plywood, lumber, unused cement bags, etc. (expected to be less than one dumpster)

At this time, we are unable to estimate the total volume of grossly contaminated waste that will be generated as components will need to be inspected as the ISTD system is disassembled. As indicated above, we have provided under separate cover, estimates for waste resulting from dismantling of the wellfield.

Heaters and liners will be removed from the wells and visually inspected for any signs of corrosion or possible contact to site contaminants. Due to the high operating temperatures of the heaters (~1300 F) and liners and the protection from site contaminants by the heater can, no further decontamination will be performed unless visual inspection suggests otherwise. Depending on the number of potentially impacted heaters/liners, decontamination via steam cleaning or sand blasting will be performed. Exact method of decontamination will not be determined until the number of potentially impacted materials can be identified. If less than approximately 10% of the total material is impacted, material will be staged in rolloffs for later disposal by others.

Wipe Sample Results

Results of wipe samples will be compared with the decontamination standard for unrestricted use of less than or equal to 10 micrograms PCBs per 100 square centimeters ($\leq 10 \mu\text{g}/100 \text{ cm}^2$). Should results exceed the unrestricted use standard, the subject equipment may be subject to further decontamination by steam cleaner (with subsequent re-sampling), or the Self-Implementing Decontamination Procedures documented in Section (c) of §761.79. Alternately, should subject equipment or piping be selected for disposal at a recycling facility, the facility will conform to the requirements in §761.72 and wipe test samples will be collected to confirm that results are $\leq 10 \mu\text{g}/100 \text{ cm}^2$.

Attachment C

Preliminary Demobilization Schedule

TerraTherm, Inc.		Weekly Projected Demobilization Schedule				Solvents Recovery Superfund Site, Southington, CT	
	Monday 9-Mar-15	Tuesday 10-Mar-15	Wednesday 11-Mar-15	Thursday 12-Mar-15	Friday 13-Mar-15	Saturday 14-Mar-15	Sunday 15-Mar-15
TerraTherm Personnel	Eddie Andino Benny Hardy Derek LaRosee	Eddie Andino Benny Hardy Derek LaRosee Andy Craig	Eddie Andino Benny Hardy Derek LaRosee Andy Craig Patrick Wood Anthony Caravella	Eddie Andino Benny Hardy Derek LaRosee Andy Craig	Eddie Andino Benny Hardy Derek LaRosee	Eddie Andino Benny Hardy Derek LaRosee	
Subcontractors							
Rental Equipment							
Deliveries							
Outbound Shipments							
Other (include unusual noises)							
Site Activities	pull heaters/liners in WC inventory and crate	remove ground wires (WC) remove TC (WC) inventory and crate	remove TC (WC) inventory and crate	remove jumpers (P2) stage material for shipping SCR and ground cable terminated vapor carbon offsite for disposal	remove jumpers (P2) stage material for shipping	operations (cool down)	
	Monday 16-Mar-15	Tuesday 17-Mar-15	Wednesday 18-Mar-15	Thursday 19-Mar-15	Friday 20-Mar-15	Saturday 21-Mar-15	Sunday 22-Mar-15
TerraTherm Personnel	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Derek LaRosee	Eddie Andino Derek LaRosee	
Subcontractors				ADT			
Rental Equipment							
Deliveries							
Outbound Shipments	Rental generator	Pipe, cable, clean water tank			water softener shed misc. spare parts		
Other (include unusual noises)							
Site Activities	SCR and switchboard cables disconnected	SCR and switchboard cables disconnected heater removal	site organization	pull heaters (P1)		operations (cool down)	
	Monday 23-Mar-15	Tuesday 24-Mar-15	Wednesday 25-Mar-15	Thursday 26-Mar-15	Friday 27-Mar-15	Saturday 28-Mar-15	Sunday 29-Mar-15
TerraTherm Personnel	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Benny Hardy Billy Ray Sallis Dustin Webster		
Subcontractors							
Rental Equipment							
Deliveries							
Outbound Shipments					Truck????		
Other (include unusual noises)							
Site Activities	pull heaters/liners remove manifold	pull heaters/liners remove manifold	pull heaters/liners remove manifold	pull heaters/liners remove manifold	pull heaters/liners remove manifold	operations (cool down)	
	Monday 30-Mar-15	Tuesday 31-Mar-15	Wednesday 1-Apr-15	Thursday 2-Apr-15	Friday 3-Apr-15	Saturday 4-Apr-15	Sunday 5-Apr-15
TerraTherm Personnel	Benny Hardy Craig LaRosee Robert Stoll Billy Ray Dustin Webster	Benny Hardy Craig LaRosee Robert Stoll Billy Ray Dustin Webster	Benny Hardy Craig LaRosee Robert Stoll	Benny Hardy Craig LaRosee Billy Ray Robert Stoll	Benny Hardy Derek LaRosee Billy Ray Robert Stoll		
Subcontractors							
Rental Equipment							
Deliveries							
Outbound Shipments	20 ft conex				Truck???		
Other (include unusual noises)							
Site Activities	pull pieces of equipment offline/decon manifold piping remove pipe stands dismantle oxidizer/scrubber	pull pieces of equipment offline/decon manifold piping remove pipe stands dismantle oxidizer/scrubber	wipe samples manifold piping remove pipe stands dismantle oxidizer/scrubber	remove wellfield cable manifold piping remove pipe stands dismantle oxidizer/scrubber	remove wellfield cable manifold piping remove pipe stands dismantle oxidizer/scrubber		
	Monday 6-Apr-15	Tuesday 7-Apr-15	Wednesday 8-Apr-15	Thursday 9-Apr-15	Friday 10-Apr-15	Saturday 11-Apr-15	Sunday 12-Apr-15
TerraTherm Personnel	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Derek LaRosee Robert Stoll		
Subcontractors		crane					
Rental Equipment			chiller oxidizer/scrubber		select equipment (slated for other sites)		
Deliveries							
Noises							
Other							
Site Activities	remove wellfield cable remove stickups	remove wellfield cable remove stickups	remove wellfield cable remove stickups	remove wellfield cable remove stickups	remove wellfield cable remove stickups		
	Monday 13-Apr-15	Tuesday 14-Apr-15	Wednesday 15-Apr-15	Thursday 16-Apr-15	Friday 17-Apr-15	Saturday 18-Apr-15	Sunday 19-Apr-15
TerraTherm Personnel	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee		
Subcontractors	ADT	ADT	ADT	ADT	ADT		
Rental Equipment							
Deliveries							
Noises							
Other							
Site Activities	remove wellfield cable decon process equipment remove stickups	remove wellfield cable decon process equipment remove stickups	decon process equipment remove stickups	decon process equipment remove stickups	decon process equipment remove stickups		
	Monday 20-Apr-15	Tuesday 21-Apr-15	Wednesday 22-Apr-15	Thursday 23-Apr-15	Friday 24-Apr-15	Saturday 25-Apr-15	Sunday 26-Apr-15
TerraTherm Personnel	TBD	TBD	TBD	TBD	TBD		
Subcontractors	ADT	ADT	ADT	ADT	ADT		
Rental Equipment							
Deliveries					Truck		
Outbound Shipments							
Other (include unusual noises)							
Site Activities	wipe samples decon process equipment remove stickups	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities		
	Monday 27-Apr-15	Tuesday 28-Apr-15	Wednesday 29-Apr-15	Thursday 30-Apr-15	Friday 1-May-15	Saturday 2-May-15	Sunday 3-May-15
TerraTherm Personnel	TBD	TBD	TBD	TBD	TBD		
Subcontractors	ADT electrician	ADT	ADT	ADT	ADT		
Rental Equipment	transformers				lull, forklift, manlift		
Deliveries							
Outbound Shipments					Truck		
Other (include unusual noises)							
Site Activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities		

Attachment D

Estimated Material Quantities for
Disposal

Estimated Volume and Weight of Wellfield Materials to be Disposed

Material	Quantities and Dimensions				Airspace Volume (CY) ¹	Weight (ton)
Fiberglass Pipe	Qty (LF)	Area (sq ft)	Wt (lb/LF)			
4"	1867	0.111	2.64		7.68	2.46
6"	1647	0.25	3.35		15.25	2.76
8"	771	0.444	4.85		12.68	1.87
12"	40	1	9.73		1.48	0.19
HEWs	Qty (LF)	Area (sq ft)	Wt (lb/LF)			
3" Sch. 40 SS, slotted	260	0.0625	7.5		0.60	0.98
Wellfield Steel	Qty (#)	Length each (ft)	Wt (lb/LF)	Area (sq ft)		
2" stickup	826	5	3.656	0.0278	4.25	7.55
3" heater cans	607	3	7.58	0.0625	4.22	6.90
Tee assembly	Qty (#)	~Wt (each) (lb)	~Vol (cu ft, each)			
	607	15	0.5		11.24	4.55
Hoses	Qty (#)	Wt/hose (lb)	LF/hose	Area (sq ft)		
2"	607	6	6	0.0278	3.75	1.82
Subtotal:					61.14	29.09
Contingency (%):					30	30
Total:					79.48	37.81
# of Rolloffs at 20CY each:					4	
# of Rolloffs at 17 tons each ² :						3

Notes:

1. Volume estimates represent the airspace occupied by the material in a disposal container, not the physical volume of the material itself.
2. Assumes all materials can be commingled for disposal purposes.
3. Quantities are based on the following numbers of wellfield items:
 - 607 - 3" heater cans
 - 607 - 2" Vapor extraction well risers
 - 99 - 2" Temperature and Pressure Monitoring Points (TMPs)
 - 120 - 2" Pressure Monitoring Points (PMPs)

Attachment E

PCB Wipe Sampling SOG

PCB Wipe Sampling

1. PURPOSE AND APPLICABILITY

The purpose of this Standard Operating Guideline (SOG) is to ensure that TerraTherm, Inc. (TerraTherm) follows a consistent program in the performance of Polychlorinated Biphenyls (PCB) wipe sampling, when such sampling is required. This SOG is specifically intended for collecting wipe samples from location(s) along the thermal treatment system equipment train (after demobilization/decontamination, or if equipment is otherwise removed/disposed from the site) and analyzing the samples for PCBs.

TerraTherm may be responsible for verifying the cleanliness of treatment equipment, after exposure to PCBs and subsequent decontamination procedures. The project-specific Work Plan, Sampling and Analytical Plan (SAP), and/or Quality Assurance Project Plan (QAPP) will outline specific approved sampling locations for wipe samples. This SOG applies to all major TerraTherm projects where PCBs are present in the target treatment zone, and to personnel responsible for performing or overseeing sampling activities. All work must be done in accordance with the project-specific Work Plan, SAP, and/or QAPP procedures.

Sampling locations will vary from project to project, based on many factors including: the type of equipment used, whether the potentially contaminated surfaces are porous or non-porous, or whether the equipment is to be re-used at another job site or disposed/recycled. In general, PCBs will accumulate as dense non-aqueous phase liquids (DNAPLs) or deposits at any condensation step in the treatment process. Typical areas where elevated residual PCB levels typically are detected include the oil/water separator, heat exchangers, moisture knockout tanks, vapor or liquid piping, blowers, etc. Again, the anticipated location of potential PCB exposure in the treatment system equipment train will depend on the specific treatment system configuration.

In general, wipe samples are collected by wiping a 100 square centimeter (cm²) surface using a special PCB wipe test kit provided by a laboratory. Analysis of the wipe samples for total PCBs will be performed by a certified laboratory, following EPA method 8082 (reports PCB aroclors) or EPA 680 (PCB homologs), or other method as defined in the SAP/QAPP. Total PCB concentration must be less than 10 µg/wipe (10 µg/100cm²) for unrestricted re-use of equipment per §761.123.

This SOG outlines the methodology of such sampling to help ensure consistency from one project to the next and to ensure that sampling is performed in accordance with industry standard methods. It is recognized, however, that project specific goals may differ, and that sampling methodologies may change accordingly to some degree. It is the ultimate responsibility of the Project Manager to ensure that the site-specific wipe sampling plan meets both corporate and client requirements prior to sample submittal to the laboratory for analysis.

2. RESPONSIBILITY

The Site Supervisor will conduct inspections of the sampling procedures established by this SOG. The purpose of the inspection is to verify that the procedures and the requirements of this SOG are being followed. Any deviations or inadequacies that are identified during the inspection will be documented and immediately corrected.

PCB Wipe Sampling

While the Project Manager is ultimately responsible for this work, he/she will often delegate the task of laboratory coordination to the Data Quality Discipline Lead or Project Chemist. In this case, the Data Quality Discipline Lead and/or Project Chemist will coordinate the sampling event with the laboratory and the field team, and assist with evaluating the results of the wipe tests.

3. REQUIRED MATERIALS

- PCB wipe test kit (example shown in Figure 1), as provided by the certified analytical laboratory, containing:
 - Sterile gauze pads (typically 3"x3");
 - Hexane (enough for approximately 5 ml per wipe, contained in small container with minimal headspace if pads are not pre-moistened); and,
 - Unpreserved sample jars to contain the gauze after wiping.
- Insulated cooler for sample transport;
- Ice or blue ice packs for sample preservation after collection; and,
- Laboratory Chain of Custody form.

4. METHOD

4.1. Health and Safety Considerations

Hexane is used to moisten the gauze for wiping surfaces. This solvent is a flammable liquid and vapor. Care should be taken to conduct wipe sampling in a well-ventilated area away from any ignition sources. Hexane is given a National Fire Protection Agency (NFPA) health rating of "2", meaning that the substance is moderately toxic or hazardous material. Nitrile gloves should be worn when handling this chemical, and care should be taken to avoid breathing vapors. See the attached Safety Data Sheet for hexane in Attachment 1.

4.2. Sample Collection

Wipe samples shall be collected using materials provided by a certified analytical laboratory. The following procedure will be followed:

- Provide access to the area to be sampled (open access hole/port, if sample is collected from inside a pipe, blower, small tank etc.).
- Don a fresh pair of Nitrile gloves. Do this for each sample collected to prevent cross contamination.
- Open one sterile gauze pad or remove a pre-soaked pad from the sample jar (Note that some laboratories will provide gauze pads pre-soaked in hexane in sample jars [best to only be used immediately after preparation], while some laboratories will provide sterile gauze pads and a separate jar of hexane).
- If the gauze pad is not already provided pre-soaked, moisten the pad with approximately 5 mL of hexane. Kits may come with a pipet to facilitate wetting the gauze. If no pipet is present, pads may be

PCB Wipe Sampling

moistened by inverting the jar of hexane onto the pad until approximately 5 mL of hexane has been absorbed.

- o Note: Re-cap the vial of hexane immediately after wetting the gauze. Do not leave the cap off of the hexane vial between samples, as hexane will evaporate very quickly.
- Immediately wipe the selected 100 cm² area (as defined in the project-specific Work Plan, SAP, and/or QAPP), applying pressure to the surface being wiped. 100 cm² approximately corresponds to a 16 in² area, or an area 4 inches by 4 inches wide. Note that the standard size of a gauze pad used for this work is 3 inches by 3 inches; thus, you are only wiping an area slightly larger than the wipe itself. If desired, to aid in estimating the wipe area, the lab or office may provide a stencil showing the 100cm² size. It is not recommended to physically mark the wipe area, as those materials (e.g. Sharpie) may interfere with the PCB analysis. If the surface is easily accessible, wiping may be done using a gloved hand. If the surface is less accessible, some type of accessory (e.g., extension pole) may be used to reach the surface (e.g., bottom of tank). *Please note that all TerraTherm policies regarding confined space entry apply - refer to the site-specific HASP.*
 - o Do NOT wipe a larger area greater than 100 cm² (4" x 4") unless specifically instructed by the Project Manager (e.g. for a composite sample).
- Let the gauze air dry in a protected, ventilated area.
- Fold the dry gauze (sampled side inward) and return it to the sample vial. Cap the sample vial.
- Remove and discard the Nitrile gloves.
- Label the vial and fill out sampling details on the chain of custody form.
- Place the appropriate Quality Assurance/Quality Control (QA/QC) samples in the cooler, as required by the project-specific Work Plan, SAP, QAPP, and/or the Project Manager.
- Best sample collection practices dictate that samples should be placed in a cooler and kept cold at 4°C; however, if samples are to be analyzed soon (i.e. within the same day), the cold storage requirements may be relaxed as long as sample integrity is maintained.¹
- Samples should be shipped overnight via FedEx/UPS, hand delivered to the laboratory, or picked up by laboratory courier.

4.3. Decontamination

Decontamination is not applicable since a new sterile gauze pad and new aliquot of hexane is used for each sample. Care should be taken to don a new pair of nitrile gloves for each sample, as to prevent cross-contamination between locations.

¹ Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup, EPA-560/5-86-0174, May 1986.

PCB Wipe Sampling

4.4. Quality Assurance/Quality Control (QA/QC) Samples

QA/QC samples may include field duplicates (two separate wipe samples collected side by side at the same location on the same piece of equipment) or field blanks (a gauze pad soaked in hexane, but not wiped, then placed in the sample jar). Refer to the project-specific Work Plan, SAP and/or QAPP procedures for more information about project-specific QA/QC samples.

5. SAMPLE RELATED FORMS

Laboratory Chain of Custody (COC) form.

6. REFERENCES

Wipe Sampling and Double Wash/Rinse Cleanup as Recommended by the Environmental Protection Agency PCB Spill Cleanup Policy, Dated June 23, 1987 (Revised and Clarified on April 18, 1991). Available online here: <http://www.epa.gov/osw/hazard/tsd/pcbs/pubs/wipe-samp.pdf> (last accessed January 17, 2014)

40 CFR Part 761—Polychlorinated Bi-Phenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions. Subpart M—Determining a PCB Concentration for Purposes of Abandonment or Disposal of Natural Gas Pipeline: Selecting Sample Sites, Collecting Surface Samples, and Analyzing Standard PCB Wipe Samples. Available online here: <http://www.epa.gov/osw/hazard/tsd/pcbs/pubs/2005-761.pdf> (last accessed January 17, 2014)

Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup, EPA-560/5-86-0174, May 1986. Available online here: <http://www.epa.gov/osw/hazard/tsd/pcbs/pubs/gridsampling.pdf> (last accessed January 17, 2014)



TERRATHERM

No. SOG-SA-105

PCB Wipe Sampling

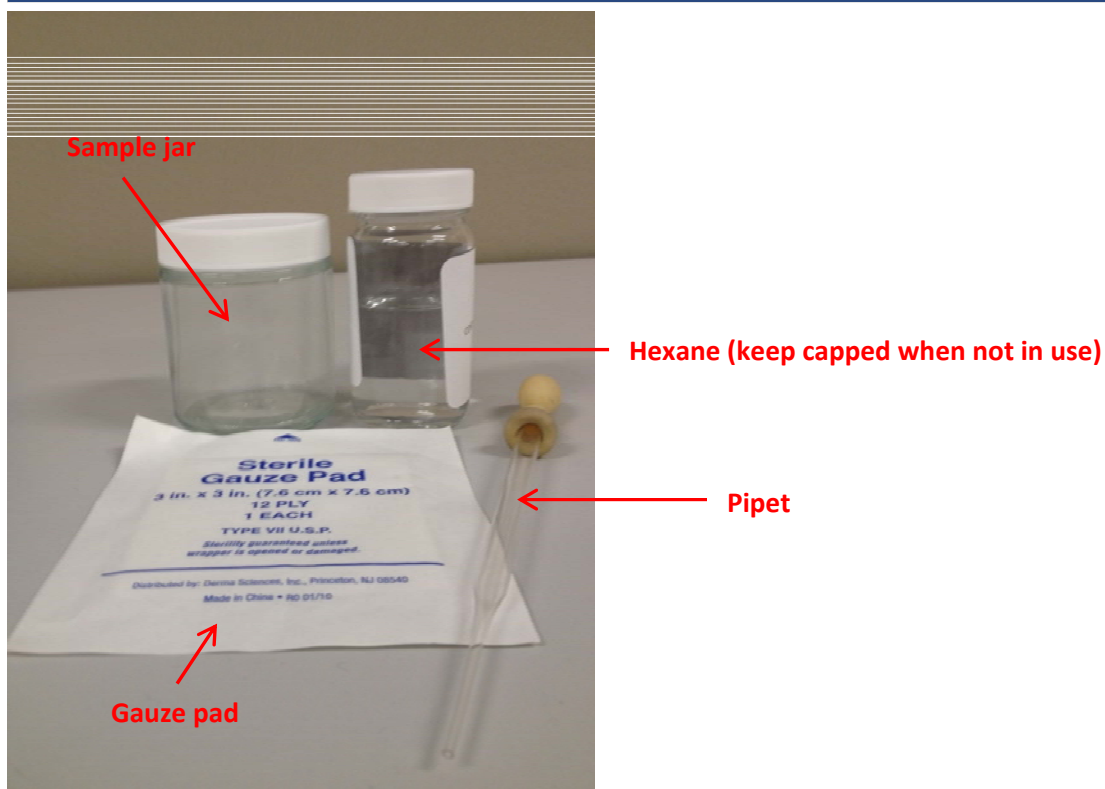


Figure 1. Typical PCB wipe sampling kit components



TERRATHERM

No. SOG-SA-105

PCB Wipe Sampling

Attachment 1. Hexane Safety Data Sheet (SDS)

Material Safety Data Sheet

Version 5.0

Revision Date 04/24/2012

Print Date 01/17/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hexane

Product Number : 296090

Brand : Sigma-Aldrich

Supplier : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation
Product Safety - Americas Region
1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant, Teratogen

Target Organs

Peripheral nervous system., Kidney, Testes.

GHS Classification

Flammable liquids (Category 2)

Skin irritation (Category 2)

Eye irritation (Category 2B)

Reproductive toxicity (Category 2)

Specific target organ toxicity - single exposure (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Aspiration hazard (Category 1)

Acute aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315 + H320

Causes skin and eye irritation.

H336

May cause drowsiness or dizziness.

H361

Suspected of damaging fertility or the unborn child.

H371

May cause damage to organs.

H401

Toxic to aquatic life.

Precautionary statement(s)

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P281 Use personal protective equipment as required.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.

HMIS Classification

Health hazard: 2
Chronic Health Hazard: *
Flammability: 3
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 3
Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Ingestion May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : n-Hexane
Formula : C₆H₁₄
Molecular Weight : 86.18 g/mol

Component		Concentration
n-Hexane		
CAS-No.	110-54-3	-
EC-No.	203-777-6	
Index-No.	601-037-00-0	

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Flash back possible over considerable distance. Container explosion may occur under fire conditions. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
n-Hexane	110-54-3	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Central Nervous System impairment Eye irritation Peripheral neuropathy Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption			
		TWA	50 ppm 180 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	500 ppm 1,800 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	The value in mg/m ³ is approximate.			
		TWA	50 ppm 180 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Immersion protection

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: > 480 min

Material tested: Camatril® (Aldrich Z677442, Size M)

Splash protection

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm

Break through time: > 30 min

Material tested: Dermatril® P (Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	colourless

Safety data

pH	7.0
Melting point/freezing point	Melting point/range: -95 °C (-139 °F)
Boiling point	69 °C (156 °F)
Flash point	-26.0 °C (-14.8 °F) - closed cup
Ignition temperature	234 °C (453 °F)
Autoignition temperature	234.0 °C (453.2 °F)
Lower explosion limit	1.2 %(V)

Upper explosion limit	7.7 %(V)
Vapour pressure	341.3 hPa (256.0 mmHg) at 37.7 °C (99.9 °F) 176.0 hPa (132.0 mmHg) at 20.0 °C (68.0 °F)
Density	0.659 g/mL at 25 °C (77 °F)
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: 3.90 - 4.11
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	15.8

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Exposure to moisture may affect product quality.

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to avoid

Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

LD50 Oral - rat - 25,000 mg/kg

Inhalation LC50

LC50 Inhalation - rat - 4 h - 48000 ppm

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

Carcinogenicity - rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic Effects: Testicular tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Suspected human reproductive toxicant Suspected of damaging fertility.

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Ingestion - May cause damage to organs through prolonged or repeated exposure. - Nervous system

Aspiration hazard

May be fatal if swallowed and enters airways.

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Ingestion	May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

Prolonged or repeated contact with skin may cause: defatting, Dermatitis, Contact with eyes can cause: Redness, Blurred vision, Provokes tears., Effects due to ingestion may include: Gastrointestinal discomfort, Central nervous system depression, Lung irritation, chest pain, pulmonary edema, giddiness, slowed reaction time, slurred speech, Headache, Dizziness, Drowsiness, Unconsciousness

Synergistic effects

no data available

Additional Information

RTECS: MN9275000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 2.5 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3,878.00 mg/l - 48 h
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 12,840.00 mg/l - 3 h EC50 - SKELETOMA - 0.30 mg/l - 8 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

UN number: 1208 Class: 3 Packing group: II
Proper shipping name: Hexanes
Reportable Quantity (RQ): 5000 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN number: 1208 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: HEXANES
Marine pollutant: No

IATA

UN number: 1208 Class: 3 Packing group: II
Proper shipping name: Hexanes

15. REGULATORY INFORMATION**OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant, Teratogen

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

New Jersey Right To Know Components

n-Hexane

CAS-No.
110-54-3

Revision Date
2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

Copyright 2012 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

 TerraTherm, Inc. 151 Suffolk Lane Gardner, MA 01440 978.343.1200			
Guidance #	SOG-SA-105	Revision #	0
Review #1	Alyson Fortune	Review #2	Devon Phelan
Effective Date	January 2014	Approved By:	

TerraTherm, Inc.		Weekly Projected Demobilization Schedule				Solvents Recovery Superfund Site, Southington, CT	
	Monday 9-Mar-15	Tuesday 10-Mar-15	Wednesday 11-Mar-15	Thursday 12-Mar-15	Friday 13-Mar-15	Saturday 14-Mar-15	Sunday 15-Mar-15
TerraTherm Personnel	Eddie Andino Benny Hardy Derek LaRosee	Eddie Andino Benny Hardy Derek LaRosee Andy Craig	Eddie Andino Benny Hardy Derek LaRosee Andy Craig Patrick Wood Anthony Caravella	Eddie Andino Benny Hardy Derek LaRosee Andy Craig	Eddie Andino Benny Hardy Derek LaRosee	Eddie Andino Benny Hardy Derek LaRosee	
Subcontractors							
Rental Equipment							
Deliveries							
Outbound Shipments							
Other (include unusual noises)							
Site Activities	pull heaters/lines in WC inventory and crate	remove ground wires (WC) remove TC (WC) inventory and crate	remove TC (WC) inventory and crate	remove jumpers (P2) stage material for shipping SCR and ground cable terminated vapor carbon offsite for disposal	remove jumpers (P2) stage material for shipping	operations (cool down)	
	Monday 16-Mar-15	Tuesday 17-Mar-15	Wednesday 18-Mar-15	Thursday 19-Mar-15	Friday 20-Mar-15	Saturday 21-Mar-15	Sunday 22-Mar-15
TerraTherm Personnel	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Andy Craig Derek LaRosee	Eddie Andino Derek LaRosee	Eddie Andino Derek LaRosee	
Subcontractors				ADT			
Rental Equipment							
Deliveries							
Outbound Shipments	Rental generator	Pipe, cable, clean water tank			water softener shed misc. spare parts		
Other (include unusual noises)							
Site Activities	SCR and switchboard cables disconnected	SCR and switchboard cables disconnected heater removal	site organization	pull heaters (P1)		operations (cool down)	
	Monday 23-Mar-15	Tuesday 24-Mar-15	Wednesday 25-Mar-15	Thursday 26-Mar-15	Friday 27-Mar-15	Saturday 28-Mar-15	Sunday 29-Mar-15
TerraTherm Personnel	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Eddie Andino Benny Hardy Craig Billy Ray Sallis Dustin Webster	Benny Hardy Billy Ray Sallis Dustin Webster		
Subcontractors							
Rental Equipment							
Deliveries							
Outbound Shipments					Truck????		
Other (include unusual noises)							
Site Activities	pull heaters/liners remove manifold remove pipe stands	pull heaters/liners remove manifold remove pipe stands	pull heaters/liners remove manifold remove pipe stands	pull heaters/liners remove manifold remove pipe stands	pull heaters/liners remove manifold remove pipe stands	operations (cool down)	
	Monday 30-Mar-15	Tuesday 31-Mar-15	Wednesday 1-Apr-15	Thursday 2-Apr-15	Friday 3-Apr-15	Saturday 4-Apr-15	Sunday 5-Apr-15
TerraTherm Personnel	Benny Hardy Craig LaRosee Robert Stoll Billy Ray Dustin Webster	Benny Hardy Craig LaRosee Robert Stoll Billy Ray Dustin Webster	Benny Hardy Craig LaRosee Billy Ray Robert Stoll	Benny Hardy Craig LaRosee Billy Ray Robert Stoll	Benny Hardy Derek LaRosee Billy Ray Robert Stoll		
Subcontractors							
Rental Equipment							
Deliveries							
Outbound Shipments					Truck???		
Other (include unusual noises)							
Site Activities	pull pieces of equipment offline/decon remove heater boxes manifold piping remove pipe stands dismantle oxidizer/scrubber	decon select equipment remove heater boxes manifold piping remove pipe stands dismantle oxidizer/scrubber	wipe samples remove heater boxes manifold piping remove pipe stands dismantle oxidizer/scrubber	remove heater boxes remove wellfield cable manifold piping remove pipe stands dismantle oxidizer/scrubber	remove heater boxes remove wellfield cable manifold piping remove pipe stands dismantle oxidizer/scrubber		
	Monday 6-Apr-15	Tuesday 7-Apr-15	Wednesday 8-Apr-15	Thursday 9-Apr-15	Friday 10-Apr-15	Saturday 11-Apr-15	Sunday 12-Apr-15
TerraTherm Personnel	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Craig Derek LaRosee Robert Stoll	Eddie Andino Benny Hardy Derek LaRosee Robert Stoll		
Subcontractors	crane ADT	ADT	ADT	ADT	ADT		
Rental Equipment			chiller oxidizer/scrubber		select equipment (slated for other sites)		
Deliveries							
Noises							
Other							
Site Activities	remove wellfield cable remove stickups	remove wellfield cable remove stickups	remove wellfield cable remove stickups	remove wellfield cable remove stickups	remove wellfield cable remove stickups		
	Monday 13-Apr-15	Tuesday 14-Apr-15	Wednesday 15-Apr-15	Thursday 16-Apr-15	Friday 17-Apr-15	Saturday 18-Apr-15	Sunday 19-Apr-15
TerraTherm Personnel	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee	Eddie Andino Benny Hardy Craig Derek LaRosee		
Subcontractors	ADT	ADT	ADT	ADT	ADT		
Rental Equipment							
Deliveries							
Noises							
Other							
Site Activities	remove wellfield cable decon process equipment remove stickups	remove wellfield cable decon process equipment remove stickups	decon process equipment remove stickups	decon process equipment remove stickups	decon process equipment remove stickups		
	Monday 20-Apr-15	Tuesday 21-Apr-15	Wednesday 22-Apr-15	Thursday 23-Apr-15	Friday 24-Apr-15	Saturday 25-Apr-15	Sunday 26-Apr-15
TerraTherm Personnel	TBD	TBD	TBD	TBD	TBD		
Subcontractors	ADT	ADT	ADT	ADT	ADT		
Rental Equipment							
Deliveries					Truck		
Outbound Shipments							
Other (include unusual noises)							
Site Activities	wipe samples decon process equipment remove stickups	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities		
	Monday 27-Apr-15	Tuesday 28-Apr-15	Wednesday 29-Apr-15	Thursday 30-Apr-15	Friday 1-May-15	Saturday 2-May-15	Sunday 3-May-15
TerraTherm Personnel	TBD	TBD	TBD	TBD	TBD		
Subcontractors	ADT electrician	ADT	ADT	ADT	ADT		
Rental Equipment	transformers				lull, forklift, manlift		
Deliveries							
Outbound Shipments					Truck		
Other (include unusual noises)							
Site Activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities	remove stickups misc. site grading/restoration activities		