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Solvents Recovery Service of New England, Inc. Superfund Site

Southington, CT

Annual State of Compliance Report # 6

October 31, 2013 through October 31, 2014

de maximis, inc.

December 2014

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Acronyms and abbreviations used in this Annual Report and associated attachments:

1,1-DCE	1,1-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
1,2-DCA	1,2-dichloroethane
2,3,7,8-TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
ALEP	Action Level Exceedance Plan
AOC	Administrative Order on Consent
AQC	Air Quality Control System
ARARs	Applicable or Relevant and Appropriate Requirements
ATSDR	Agency for Toxic Substance and Disease Registry
B&M	Boston & Maine
BACT	Best Available Control Technology
BBL	Blasland, Bouck & Lee, Inc.
bgs	below ground surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
BTU	British Thermal Unit
°C	degrees Celsius
CA	chloroethane
CBYD	Call Before You Dig
cc	cubic centimeter
cDCE	cis-1,2-dichloroethene
CD	Consent Decree
CEMS	Continuous Emissions Monitoring System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CH_4	methane
CL&P	Connecticut Light & Power
CO_2	carbon dioxide
COCs	Constituents of Concern
CT	carbon tetrachloride
CTDEP	Connecticut Department of Environmental Protection
CTDPH	Connecticut Department of Public Health
CVOCs	Chlorinated Volatile Organic Compounds
CWA	Clean Water Act
DCE	dichloroethene
DCM	dichloromethane
DCP	Demonstration of Compliance Plan
ddms	*de maximis* Data Management Solutions
DHC	Dehalococcoides
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen

DQA	Data Quality Assessment
DQOs	Data Quality Objectives
DRE	Destruction/Removal Efficiency
DRO	Diesel Range Organics
EISB	Enhanced In-Situ Bioremediation
ELUR	Environmental Land Use Restriction
°F	degrees Fahrenheit
$Fe(OH)_3$	ferrous hydroxide
f_{oc}	fraction of solid organic carbon in soil
FS	Feasibility Study
FSP	Field Sampling Plan
PMC	Pollutant Mobility Criteria applicable to designated Class “GA” groundwater areas
GAC	granular activated carbon
GCTEOS	Groundwater Containment and Treatment Evaluation and Optimization Study
gpm	gallons per minute
GRO	Gasoline Range Organics
GWPC	Groundwater Protection Criteria
GWTF	Groundwater Treatment Facility
H	Henry’s Law Constant
H_2	hydrogen
H_2O	water
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HCl	hydrochloric acid
HCTS	Hydraulic Containment and Treatment System
HDPE	High-Density Polyethylene
HLVs	Hazard Limiting Values
HZ	Heated Zone
ID	inner diameter
IFT	interfacial tension
IMS	Interim Monitoring and Sampling
IQAT	Independent Quality Assurance Team
IRIS	Integrated Risk Information System
ISTD	In-Situ Thermal Desorption
ISTR	In-Situ Thermal Remediation
J&E	Johnson & Ettinger
K_d	soil-water partition coefficient
kg	kilogram
K_{oc}	chemical-specific organic carbon partition coefficient
LAER	Lowest Achievable Emission Rate
lbs	pounds
LNAPL	light non-aqueous phase liquid

MAROS	Monitoring and Remediation Optimization System
MASC	Maximum Allowable Stack Concentration
MCLs	Maximum Contaminant Levels
MCLG	Maximum Contaminant Level Goal
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MIBK	4-methyl-2-pentanone (methyl isobutyl ketone)
mL	milliliter
MNA	Monitored Natural Attenuation
MOA	Memorandum of Agreement
N_2	nitrogen
NA	Natural Attenuation
NAPL	non-aqueous phase liquid
ng/L	nanograms per liter
NH_4^+	ammonia
NOAA	National Oceanic and Atmospheric Administration
NO_2^-	nitrite
NO_3^-	nitrate
NSR	New Source Review
NTCRA	Non-Time-Critical Removal Action
O_2	oxygen
O&M	Operations and Maintenance
OD	outer diameter
OH^-	hydroxyl radical
OIS	On-Site Interceptor System
OMM	Operation, Maintenance and Monitoring
ONOGU	Observed NAPL in the Overburden Groundwater Unit
ORP	oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OSWER	Office of Solid Waste and Emergency Response
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCDDs	polychlorinated dibenzo-p-dioxins
PCDFs	polychlorinated dibenzofurans
PCE	tetrachloroethylene
PCR	Polymerase Chain Reaction
PEL	Permissible Exposure Limit
PFD	process flow diagram
PID	photoionization detector
PIPP	Pre-ISTR Preparation Plan
PLC	Programmable Logic Controller
POP	Project Operations Plan
ppb	parts per billion
PPE	personal protective equipment

ppm	parts per million
PSD	Prevention of Significant Deterioration
psig	pounds per square inch, gauge
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
R^2	correlation coefficient
RAOs	Response Action Objectives
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RDWP	Remedial Design Work Plan
RD/RA	Remedial Design/Remedial Action
Redox	Reduction-Oxidation
RDEC	Residential Direct Exposure Criteria
RH	Relative Humidity
RI	Remedial Investigation
ROD	Record of Decision
RSRs	Remediation Standard Regulations
SAP	Sampling and Analysis Plan
SCAP	Supplemental Containment Action Plan
SCM	Site Conceptual Model
SO_4^{2-}	sulfate
SOP	Standard Operating Procedure
SOW	Statement of Work
SPLP	Synthetic Precipitation Leaching Procedure
SRSNE	Solvents Recovery Service of New England, Inc.
SSO	Site Safety Officer
SVOCs	semi-volatile organic compounds
SWD	Southington Water Department
SWPC	Surface Water Protection Criteria
TAL	Target Analyte List
TCE	trichloroethylene
TCH	thermal conduction heating
TCLP	Toxicity Characteristic Leaching Procedure
TEFs	Toxic Equivalency Factors
TEQ	Toxic Equivalence Quotient
TEX	Toluene, Ethylbenzene and Xylenes
TSCA	Toxic Substances Control Act
TTZ	thermal treatment zone
ug/L	micrograms per liter
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UV	ultraviolet
VC	vinyl chloride

VI	Vapor Intrusion
VOC	volatile organic compound
WHO	World Health Organization

A. Introduction

On October 30, 2008, the United States Environmental Protection Agency (USEPA) lodged a Consent Decree (CD) with the United States District Court for the District of Connecticut in connection with Civil Actions No. 3:08cv1509 (SRU) and No. 3:08cv1504 (WWE). The CD was entered by the Court on March 26, 2009. The CD addresses Remedial Design/Remedial Action (RD/RA) activities for the Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site in Southington, Connecticut (Site). Appendix B to the CD is a Statement of Work (SOW) that defines the required RD/RA activities and deliverables.

Section VIII.B of the SOW requires the Settling Defendants to submit an Annual State of Compliance Report one year after lodging of the CD and annually thereafter, to USEPA for approval or modification, after reasonable opportunity for review and comment by Connecticut Department of Energy and Environmental Protection (CTDEEP). Section 62.e of the CD requires a demonstration of the amounts of the Rolling Oversight Cost Cap and the Available Balance. This ***Annual State of Compliance Report #6*** (report) has been prepared on behalf of the SRSNE Site Group, an unincorporated association of Settling Defendants to the CD, to address these CD and SOW requirements. This report documents Site activities during the period of October 31, 2013 through October 30, 2014 (the "reporting period").

As specified in SOW Section VIII.B, this report includes a comprehensive evaluation of all monitoring required by this SOW, including, but not limited to:

- compliance with the Performance Standards of the Hydraulic Containment and Treatment System and Severed Plume;
- Institutional Controls;
- construction, operation and maintenance;
- habitat restoration;
- hydraulic containment;
- the Memorandum of Agreement with Southington Water Department / Town of Southington; and
- groundwater monitoring program, including monitored natural attenuation.

Also required in the report is an assessment of the progress being made towards achieving the Performance Standards, as well as recommendations for changes to any monitoring program to address deficiencies identified during the evaluation. Proposals for reductions in monitoring, along with justifications, are provided as appropriate.

B. Background

The SRSNE Site is located on approximately 14 acres of land along Lazy Lane in Southington, Hartford County, Connecticut, approximately 15 miles southwest of the city of Hartford (Figure 1). The physical setting of the Site – including the regional geology, overburden geology, bedrock geology, hydrogeology, groundwater use and classification, drainage, and surface water use and classification – is summarized below. This information is also described in detail in prior report submittals, including the *Remedial Investigation Report* (Blasland, Bouck & Lee, Inc. [BBL] 1998) and the *Feasibility Study Report* (BBL and USEPA 2005), and the draft Remedial Design Work Plan (RDWP) (ARCADIS, April 2009).

The SRSNE Site includes portions of several properties/areas that are referred to within the RDWP consistent with terminology established in prior Site-related documents. These properties/areas include the former SRSNE Operations Area, the former Boston & Maine railroad right-of-way, the former Cianci Property, and the Town of Southington Well Field Property (Town Well Field Property). These areas are shown on Figure 2, and further described below:

- **Former SRSNE Operations Area:** The former SRSNE Operations Area comprises approximately 2.5 paved acres on a 3.7-acre lot South of Lazy Lane in the Quinnipiac River basin approximately 600 feet west of the Quinnipiac River channel. This is the area where SRSNE historically performed solvent recovery and related operations. The Operations Area is bordered on the east (downhill) by an abandoned railroad right-of-way and the former Cianci Property; to the north by commercial businesses; to the west (uphill) by private property; and to the south by private property, the Connecticut Light & Power (CL&P) electrical transmission line easement, and the Town Well Field Property.

- **Railroad Right-of-Way:** The railroad right-of-way is an approximately 50-foot wide corridor running north-south that separates the former Operations Area (to the west) from the former Cianci Property (to the east). The railroad was historically owned and operated by Boston & Maine, but is presently abandoned and the rails have been removed. CT DEP purchased the right-of-way in this area in support of extending the Farmington Canal Heritage Trail, a rails-to-trails greenway, from New Haven to the Massachusetts border (draft *Preliminary Reuse Assessment* [USEPA 2003]).

- **Former Cianci Property:** The former Cianci Property is a 10-acre parcel located immediately east of the Operations Area and railroad right-of-way. The Quinnipiac River borders the eastern edge of the former Cianci Property. Lazy Lane is to the north, and the Town Well Field Property borders the property to the south.

- **Town Well Field Property:** The Town Well Field Property consists of approximately 28 acres of undeveloped land south of the former Cianci Property and southeast of

the Operations Area. The well field is bounded to the east by the Quinnipiac River and to the south by the Quinnipiac River and Curtiss Street. The railroad right-of-way and the Delahunty Property border the western perimeter of the well field. The CL&P easement runs northwest-southeast through the northern portion of the Town Well Field Property.

Town Production Wells No. 4 and 6 are approximately 2,000 and 1,400 feet south of the SRSNE Property, respectively. The Quinnipiac River divides the area between Wells No. 4 and 6. Production Well No. 6 is accessible using dirt roads originating from Lazy Lane or Curtiss Street, while Well No. 4 is only accessible from Curtiss Street. Production Well No. 4 was installed in August 1965 and provided drinking water to the Town of Southington from July 1966 to December 1977. Production Well No. 6 was installed in April 1976 and was pumped from May through October 1978, May through July 1979, and March 1980. Both wells have been inactive since that time.

Within these areas, “the Site” includes areas where Site-related constituents have come to be present in soil (including wetland soil) and groundwater at concentrations exceeding SOW-specified cleanup levels. This includes observed and interpreted non-aqueous phase liquid- (NAPL-) containing areas, impacted soils in the Operations Area, railroad right-of-way, and Cianci Property, and areas of impacted groundwater in both the overburden and bedrock zones. These areas, shown on Figures 3A (overburden) and 3B (bedrock), are generally described as follows:

- **Overburden NAPL Area:** This is the area where NAPL has been observed or inferred to exist in overburden soils based on the findings of prior investigations. The estimated extent of the Overburden NAPL Area includes portions of the Operations Area, the railroad right-of-way, and a portion of the Cianci Property, as shown on Figure 3A. This area has been further delineated in the northwest corner of the former Operations Area as component of the pre-design investigations referenced in the RDWP.

- **Overburden Groundwater Area:** The Overburden Groundwater Area is the portion of the Site where dissolved volatile organic compounds (VOC) concentrations in the overburden aquifer exceed cleanup goals. While the overburden groundwater is typically considered in three zones (each approximately one-third of the saturated thickness), the composite extent of this area (based on *Feasibility Study Report* [BBL and USEPA 2005] data) is depicted on Figure 3A. The overburden groundwater VOC plume extends south to the Town Well Field Property. The extent of the overburden groundwater area, particularly to the east of the Quinnipiac River, is subject to further assessment and delineation as part of the investigations referenced in the RDWP.

- **Bedrock NAPL Area:** The Bedrock NAPL Area is the area where NAPL has been observed or is inferred to exist based on prior site investigations. This includes a majority of the former SRSNE Operations Area and Cianci Property, as shown on Figure 3B.

- **Bedrock Groundwater Area:** This includes the portion of the Site where dissolved VOC concentrations in the bedrock aquifer exceed groundwater cleanup goals (based on *Feasibility Study Report* [BBL and USEPA 2005] data). The bedrock groundwater VOC plume extends south into the central portion of the Town Well Field Property, represented in figures 10 and 11 in the Draft 2012 MNA report (ARCADIS, November 2012)

- **Severed Plume:** The portion of the affected groundwater zone that is outside the groundwater capture zone of the Non-Time-Critical Removal Action 1 (NTCRA 1) and NTCRA 2 extraction systems (described below), which contains Site-related constituents (primarily VOCs) above detectable levels is referred to as the severed plume. The approximate location and extent of the severed plume is shown on Figure 3A.

Other key Site features referenced include the Hydraulic Containment and Treatment System (HCTS). The HCTS consists of the on-site groundwater treatment system and the two groundwater extraction systems described as follows:

- **NTCRA 1 Groundwater Extraction System:** The NTCRA 1 groundwater extraction system ("NTCRA 1 system") is located within the NTCRA containment area on the Cianci Property east of the Operations Area (Figure 4). It consists of a steel sheet pile wall through the overburden to the top of bedrock, and 12 overburden groundwater extraction wells (RW-1 through RW-12) west (formerly upgradient) of the sheet pile wall. Groundwater is extracted from the wells to maintain hydraulic gradient reversal across the sheet pile wall. This system was installed in 1995 pursuant to Administrative Order on Consent (AOC) I-94-1045, effective October 4, 1994. Pumping from the NTCRA 1 system was initiated in July 1995.

  In December of 2009, de maximis submitted a letter to the Agencies summarizing changes to the NTCRA-1 Demonstration of Compliance Plan (DCP) as a result of the abandonment of monitoring well CPZ-9 (one of the ten NTCRA I compliance monitoring points) and decommission of recovery wells RW-5 and RW-6. Monitoring well abandonment activities at the site have been undertaken in accordance with Attachment N of the RDWP.

- **NTCRA 2 Groundwater Extraction System:** The NTCRA 2 groundwater extraction system ("NTCRA 2 system") consists of two overburden extraction wells (RW-13 and RW-14) and one bedrock extraction well (RW-1R) just north of the CL&P easement

(Figure 4). These wells were installed pursuant to AOC 1-97-1000, effective February 18, 1997, and began operating in 1999, 2007, and 2001, respectively. The NTCRA 2 system includes a groundwater extraction well in the bedrock (RW-1R) and two overburden groundwater extraction wells (RW-13 and RW-14). This extraction well cluster is located in the Town Well Field Property north of the CL&P easement.

In 2014, the average combined NTCRA 1 and NTCRA 2 groundwater extraction systems pumping rate was 37.9 gallons per minute. The capture zones created by the NTCRA 1 and 2 groundwater extraction systems are shown on Figure 3A (overburden) and Figure 3B (bedrock). The operation of the combined NTCRA 1 and NTCRA 2 systems has successfully contained the overburden and bedrock VOC plumes, creating the severed plume within the Town Well Field Property. Approximately 19,900,000 gallons of groundwater were extracted, treated and discharged during this monitoring period.

A Draft Technical Work Plan for NTCRA Supplemental Groundwater Recovery Well (RW-15) was submitted to the Agencies in June 2014. The installation of an additional recovery well will ensure that target flow (30 gpm) and the overburden target zone recovery in NCTRA 2 will continue to be maintained. The work plan was approved in July23, 2014 RW-15 has been constructed but had not yet been placed into service during this reporting period. The work also included installing a new force main valve vault, which will provide the ability to switch between 3 existing force mains during maintenance. Additional changes resulted in upgrades to the electrical system and controls, which will allow for easier maintenance of wells, and more accurate data and alarms.

On-site Groundwater Treatment System: The combined operations of the extraction systems and the treatment facility were previously referred to as the "NTCRA 1 and NTCRA 2 Groundwater Extraction and Treatment System" or "NTCRA 1/2 Groundwater System." Following entry of the CD, continued operation of the NTCRA 1/2 Groundwater System became part of the ROD-specified remedial approach for groundwater, and the system is now referred to as the HCTS (SOW Section V.A).

Groundwater extracted from the NTCRA 1 and 2 systems is treated on site with a process that was originally constructed as part of the NTCRA 1 system (Figure 4). The groundwater extracted by the NTCRA-1 and 2 containment systems is pumped directly to the groundwater treatment facility. The treatment system consists of the following unit processes: metals pretreatment, filtration, ultraviolet oxidation (UV), and granular activated carbon adsorption. Vapor phase carbon adsorption is also used to capture contaminants that volatize during treatment. The system precipitates and extracts metals, reduces suspended solids, and destroys and captures volatile organic contaminants. Treated water is discharged to the Quinnipiac River in accordance with the Revised Connecticut Department of Environmental Protection (CTDEP) Substantive

Requirements for Discharge of Pre-Treated Groundwater issued 6 November 1995. Approximately 17,657 pounds of VOCs have been removed from the groundwater since system startup.

C. Site Operational History

The SRSNE facility began operations in Southington in 1955 (ATSDR 1992). From approximately 1955 until the facility's closure in 1991, spent solvents were received from customers and distilled to remove impurities, and the recovered solvents were returned to the customer or sold to others for reuse. Based on a partial record of materials processed at the SRSNE facility (excluding pre-1967 operations files, which were destroyed in a fire), SRSNE handled in excess of 41 million gallons of waste solvents, fuels, paints, etc. Additional details regarding the operational history are provided in the *Remedial Investigation Report* (BBL 1998).

D. Regulatory Status

The SRSNE Site was added to the National Priorities List (NPL) on September 8, 1983. Since that time USEPA and the State of Connecticut have implemented a variety of enforcement, regulatory and response actions, culminating with the issuance of the Proposed Plan and Record of Decision (ROD) in September 2005. After issuing the ROD, the USEPA and SRSNE Site Group negotiated the terms of the CD.

Key regulatory milestones in the recent history of the Site, based on lists included on USEPA's project website (USEPA 2009) and in the fact sheet USEPA developed in support of the 2005 Proposed Plan (USEPA 2005b), are as follows:

Regulatory Milestone	Year
USEPA adds the Site to the NPL; SRSNE signs a consent decree with USEPA to install a groundwater recovery system and store/manage hazardous waste on site.	1983
USEPA and the State of Connecticut take enforcement action to require cleanup of the facility operations and the property.	1983-1988
USEPA initiates the Remedial Investigation for the Site, conducting three phases of investigation that are presented in a four-volume report (HNUS 1994).	1990
SRSNE operations cease.	1991
USEPA conducts a Time-Critical Removal Action to remove contaminated soils from the railroad grade drainage ditch and to remove some chemicals stored at the property to an off-site location.	1992
USEPA and the SRSNE Group enter into an Administrative Order on Consent (AOC) for Removal Action to construct and operate a pump and treat system to contain the principally contaminated overburden groundwater (the NTCRA 1 work). Other work conducted under this AOC included the construction of a mitigation wetland in the northeast corner of the	1994

Cianci Property, implementation of a full-scale phytoremediation study within the NTCRA 1 sheet pile wall, and extension of public water to three buildings adjacent to the Site.	
USEPA issues an Action Memorandum for a second NTCRA (NTCRA 2) to hydraulically contain VOC-impacted bedrock groundwater down gradient of the NTCRA 1 system.	1995
USEPA and the SRSNE Site Group enter into a second AOC for Removal Action and Remedial Investigation/Feasibility Study (RI/FS) to expand the groundwater containment system and complete site investigations. Work under this AOC resulted in the completion of the Site RI/FS, implementation of NTCRA 2, and the decontamination, demolition and removal of the remaining buildings and tanks from the Operations Area.	1996
SRSNE Site Group operates groundwater controls in the overburden and bedrock aquifers, completes remedial investigations, and conducts feasibility studies.	1996 - 2004
USEPA issues the Proposed Plan in June and holds two public meetings; the public comment period runs from June through August.	2005
USEPA issues the ROD for the Site, which describes the final remedy.	2005
SRSNE Site Group continues operation of the NTCRA 1 and 2 hydraulic containment and treatment systems	2005-2008
USEPA and SRSNE Site Group sign CD to implement the RD/RA activities.	2008
SRSNE Site Group continues operation of HCTS	2008 - present
Court enters CD; Remedial Design work initiated.	2009
Annual Report #1	2009
1st Five Year Review Report	2010
USEPA issues Remedial Design Work Plan Approval	2010
USEPA issues approval of PIPP 100% Design and RAWP	2010
Initiated Pre-ISTR Preparation Plan Construction Activities	2010
EPA, CTDEEP and SRSNE Site Group hold open house for public at Site	2010
Annual Report #2	2010
ISTR Conceptual Design Approval	2011
Approval of ISTR 100% Wellfield Design	2011
Annual Report #3	2011
Institutional Control Plan revisions based on March 2012 comments and May 2012 meeting	2012
Approval of the use of Hydrosleeve for interim sampling	2012
Approval for low flow screen length	2012
Completed delineation of extent of groundwater contamination	2012
Completed Pre-ISTR Preparation Plan Construction Activities	2012
Annual Report #4	2012
Initiated ISTR construction	2013
EPA, CTDEEP and SRSNE Site Group hold open house for public at Site	2013
Annual Report #5	2013
Approval of the 100% design ISTR Work Plan	2014
Issuance of final Memorandum of Agreement	2014
Submittal of the Supplemental Containment Action Plan	2014

ISTR initiated	2014
Approval of Technical Work Plan for NTCRA supplemental Recovery Well (RW-15)	2014

E. Selected Remedy

The overall purpose of RD/RA activities is to design and implement the selected remedial approach for the Site. The selected remedy, developed by combining components of different alternatives for source control and management of migration to obtain a comprehensive approach for Site remediation, was described in the ROD. Key elements are summarized as follows:

- Treat waste oil and solvents – where present as NAPL in the subsurface in the overburden aquifer (i.e., the Overburden NAPL Area) – using in-situ thermal treatment.

Following in-situ thermal treatment, cap the former SRSNE Operations Area. The cap will be low-permeability and multi-layered and is to be designed, constructed, and maintained to meet the requirements of Resource Conservation and Recovery Act (RCRA) Subtitle C. As described in the "Re-use of Excavated Material from Railroad Right of Way for ISTR Area Fill" memorandum (de maximis, inc., April 29, 2010), soils excavated from the Rail Road Right of Way will be incorporated as fill material in the Thermal Treatment Zone (TTZ). Excavation of soil in a specific portion of the former railroad right-of-way to a depth of 4 feet – followed by backfill to match surrounding grade –will meet the direct exposure criteria (DEC) and pollutant mobility criteria (PMC) requirements of the Connecticut Remediation Standard Regulations with the understanding that an Activity and Use Limitation (ELUR) would subsequently be established for this area.

- Excavate soils exceeding cleanup levels from certain discrete portions of the former Cianci Property. The estimated limits of soil removal on the former Cianci Property (five discrete excavation areas) are shown on Figure G-1 of the *Post-Excavation Confirmatory Sampling Plan* (Attachment G to the RDWP); these limits are subject to modification based on additional sampling proposed as part of remedial design. Provided that concentrations of polychlorinated biphenyls (PCBs) do not warrant off-site disposal, soils excavated from the former Cianci Property (and from other areas excavated outside the cap limits as part of other RD/RA activities) may be relocated to the former SRSNE Operations Area for placement beneath the cap.

- Capture and treat (on site) groundwater in both the overburden and bedrock aquifers that exceeds applicable federal drinking water standards and risk-based levels. This will be achieved through continued operation, maintenance, and modification (as needed) of the HCTS.

- Monitored natural attenuation of the groundwater plume outside the capture zones (i.e., the severed plume, shown on Figure 3A of the RDWP) that exceeds cleanup levels.

- Monitor natural degradation of constituents in the groundwater plume inside the capture zones and within the Bedrock NAPL Area (shown on Figure 3B of the RDWP).

- Implement institutional controls (i.e., Environmental Land Use Restrictions) to minimize the potential for human exposure to Site-related constituents in the subsurface soils and to prohibit activities that might affect the performance or integrity of the cap.

- Monitor groundwater and maintain the cap over the long term.

F. Performance Standards

Section IV of the SOW establishes Performance Standards for the various affected media at the SRSNE Site. It also establishes Performance Standards for other aspects of the RD/RA, including subsurface NAPL in the overburden and bedrock aquifers, performance of the multi-layer cap, hydraulic containment and treatment, the severed plume, habitat restoration, environmental monitoring, and institutional controls. These non-media-specific Performance Standards are summarized and addressed (to the extent applicable at this point in the RD/RA process) in the various task-specific work plans summarized in the RDWP.

Performance Standards for soil, wetland soil, and groundwater have been reviewed and compared to the current applicable USEPA and CTDEP standards and guidance. Based on this review, it was concluded that none of the USEPA or CTDEP criteria for Site-related constituent have been revised since the ROD was issued. However, the CTDEP has published a lower detection limit for 1,2,4-trichlorobenzene in water (0.5 micrograms per liter [ug/L] rather than the prior value of 2 ug/L). Because the detection limit is the cleanup level for groundwater (discussed below), this modification is noted on the copy of Table L-1 from the ROD that is provided as Appendix 1 to the RDWP. No other modifications were warranted to Tables L-1 or L-2 of the ROD to reflect current published guidance and standards.

The RD/RA SOW requires a soil investigation be conducted after implementation of in situ thermal treatment to re-assess the size of the area to be capped. That sampling needs to determine the background concentrations of 2,3,7,8-tetrachlorodibenzo-pdioxin,or “2,3,7,8-TCDD”, calculated as “toxic equivalents” or (TEQ), which are the sum of seventeen 2,3,7,8-substitute dioxin and furan congeners multiplied by their respective Toxic Equivalency Factors. In Table L-2 of the ROD, EPA and CTDEEP agreed that the cleanup level for 2,3,7,8-TCDD TEQ (“dioxin”) would be “the lower of the EPA policy for residential sites (0.001mg/kg) and the background concentration

which will be determined based on future field study, or another concentration consistent with the CT RSRs, but not lower than background."

Background dioxin sampling was performed in 2010, and results found very low background levels. This suggested use of a risk-based clean up level, rather than trying to meet background. Accordingly, a draft "white paper" proposing an alternative dioxin clean up level was submitted to the Agencies on September 16, 2014. The proposed 50 part per trillion soil clean up level is consistent with EPA's residential soil standard, and was also derived using the CTDEEP RSR process to determine direct exposure and leaching based criteria.

EPA's risk assessor has requested further analysis of the total risk relating to all contaminants of concern, not just dioxin, and the SRSNE Site Group will be engaging with EPA and CTDEEP to finalize the risk-based dioxin clean up level. Once a level is established, further delineation soil sampling will be conducted in support of the RCRA cap design.

G. Summary of Activities Completed This Reporting Period

A summary of activities completed during this reporting period is provided within the attached Table 1.

H. Updated Schedule

An updated project schedule is included as Attachment 1 to this report.

I. Hydraulic Containment & Treatment System Operations and Maintenance

The HCTS achieved compliance during this reporting period with the Demonstration of Compliance Requirements (see Attachment B to the SOW). Details of the operation are provided as Attachment 2 to this report.

The HCTS includes 10 groundwater extraction wells within the NTCRA 1 Containment Area and three downgradient groundwater extraction wells that were originally installed, operated and monitored as part of NTCRA 2. In addition, a fourth extraction well (RW-15) has recently been installed adjacent to the NTCRA 2 wells. In combination, the NTCRA 1- and NTCRA 2-area extraction wells are all components of the HCTS. For clarity, they are still referred to as NTCRA 1 and NTCRA 2 extraction wells to differentiate the extraction locations and operational histories.

The NTCRA 1 containment system was installed and began operating in 1995. The system includes an approximately 700-foot-long sheet pile wall that extends through the overburden to the top of bedrock, and overburden groundwater extraction wells just west of the sheet pile wall. The purpose for the NTCRA 1 system was to physically and hydraulically control the highest concentrations of dissolved VOCs in overburden groundwater migrating downgradient from the former SRSNE Operations Area. The

original NTCRA 1 system had twelve overburden extraction wells. Two wells (RW-5 and RW-6) were abandoned in 2011 during preparation for thermal treatment system construction. Groundwater extraction rates from the NTCRA 1 wells since 1995 have typically been in the range of 5 to 15 gallons per minute (gpm), combined. Groundwater pumped from the wells is treated using metals pre-treatment, ultraviolet oxidation, and carbon polish, and then discharged to the Quinnipiac River. In addition to hydraulically controlling overburden groundwater, the NTCRA 1 overburden extraction wells produce a hydraulic response in the shallow bedrock, indicating that the overburden and shallow bedrock are hydraulically connected in this area.

The NTCRA 2 system was installed to hydraulically control bedrock groundwater downgradient of the interpreted NAPL zones in overburden and bedrock. A pumping test of well RW-13 during the FS indicated that this overburden well – which is screened from the middle overburden to the top of bedrock – has a significant hydraulic influence in the shallow bedrock and even the deep bedrock. Because the overburden and bedrock are hydraulically connected in the Town Well Field Property, and the natural groundwater flow direction is upward from bedrock to overburden in that area, the NTCRA 2 system hydraulically controls overburden and bedrock groundwater. A summary of the NTCRA 2 extraction wells, is as follows.

- RW-13 began operation in July 1999 – it extracts groundwater from the middle and deep overburden with a screened interval from 35 to 75 feet bgs, and typically operates between 10 and 25 gpm.

- RW-14 began operation in October 2007 – it extracts groundwater from the middle and deep overburden with a screened interval from 31 to 71 feet bgs, and typically operates between 10 and 25 gpm.

- RW-1R began operation in September 2001 – it extracts groundwater from the shallow and deep bedrock with an open-bedrock interval from 82 to 271 feet bgs. In spite of its long open interval, well RW-1R has historically produced approximately 0.1 gpm or less.

- RW-15 was installed in October 2014 – it will also extract groundwater from the middle and deep overburden, between 30 and 72 feet bgs; initial yield tests suggest it can sustain at least 40 gpm.

The recent addition of well RW-15 provides additional pumping capacity and is expected to allow two of the three overburden NTCRA 2 extraction wells to operate continuously, even when the third well is undergoing maintenance. Groundwater pumped from the NTCRA 2 wells is also treated at the UV-OX treatment system that was constructed as part of NTCRA 1. With the exception of sporadic power outages and system maintenance, the HCTS operates nearly continuously. Weston Solutions, which operates the system, estimates that the HCTS operates over 99% of the time. The

average combined pumping rates in 2014 were approximately 31 gpm from the NTCRA 2 extraction wells.

Map views and cross-sections to demonstrate hydraulic containment in accordance with EPA guidance from January 2008 entitled *A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems* (EPA/600/R-08/003) are provided in Figures 7 through 11 of the 2014 in Attachment 3 -Groundwater Sampling and Monitored Natural Attenuation Report (ARCADIS, 2014) . These figures depict groundwater elevation contours measured on June 9, 2014), and generalized overburden and bedrock capture zone boundaries for the NTCRA 2 extraction wells, which are now part of the HCTS. The estimated capture zone boundaries are based on a combination of measured water level data, historical and recent groundwater modeling results and stagnation point calculations presented in the FS Report (BBL and USEPA, May 2005; Appendix A), and updated VOC concentration data at select monitoring wells (collected in June 2014). Groundwater flow directions based on the June 2014 data are consistent with previously derived groundwater flow directions. The figures indicate that groundwater in all five hydrostratigraphic units converges in the vicinity of the Quinnipiac River, and zones of potentiometric depression were observed in the vicinity of the hydraulic containment and treatment system (HCTS) extraction wells.

Concentrations of dissolved VOCs extracted by the NTCRA 1 system, and consequently its mass removal rate, have declined from 1995 to the present. The overall decrease indicates source zone attenuation due to continued dissolution of NAPL and degradation in the dissolved phase. Concentrations of VOCs pumped by the NTCRA 2 wells have declined steadily in recent years, similar to TVOC concentration trends observed at surrounding monitoring wells. As of July 2014, 48 of the previous 50 monthly influent samples met drinking water standards for VOCs. The only two exceptions were a detection of 6 micrograms per liter (µg/L) of TCE in 2010 and a detection of 7 µg/L of VC in 2014.

VOCs above Action Levels (the more stringent of the USEPA Maximum Contaminant Levels [MCLs] or Connecticut Class GA Groundwater Protection Criteria [GWPC]) are generally contained within the previously estimated containment boundary of the hydraulic containment and treatment system (HCTS).

In addition to the parameters required by the Demonstration of Compliance Requirements, groundwater temperature data have been collected within the sheetpile wall to provide a baseline dataset of temperature variation over time. These data are being collected pursuant to Section 5.3.3 of Appendix N of the RDWP (Monitoring Well Network Evaluation and Groundwater Monitoring Program).

J. Institutional Controls / Access Agreements

Institutional controls in the form of deed restrictions are already in place on the Operations Area and Cianci Properties that prohibit all uses except for those associated with environmental response actions, as further described in CD paragraph 26. No additional institution controls were implemented during this reporting period. In 2010, the SRSNE Site Group took control of the Voting Trusts that control the Operations Area Property and the Cianci Property, respectively, which allows the implementation of additional institutional controls on those properties when appropriate. Additional institutional controls will be implemented pursuant to the Institutional Control Plan that has been developed as required by SOW Section V.B.7. The Institutional Control Plan was revised and resubmitted in May 2013 to address comments received in December 2011 and May 2012 meeting. The revised plan includes the use of groundwater modeling to evaluate properties where future pumping may cause migration of the plume. The properties included in this "buffer zone" will be controlled with an ordinance through the local Health Department, a process that has been used by the Town of Southington in recent years. A conference call between representatives of EPA, CTDEEP, CT AG and the SRSNE Site Group on July 18, 2013 was held to discuss the IC Plan.

Access agreements were needed to conduct RD activities obtained from four (4) property owners during this reporting period. Access was granted to six properties in 2009; negotiations for access to the remaining four properties were obtained during 2010.

K. Construction, Operation and Maintenance Activities

HCTS operations and maintenance are discussed above in Section I. The draft 100% ISTR Design and Remedial Action Work Plan (RAWP) was submitted on July 9, 2013. EPA and CTDEEP provided comments on September 20 and October 1, 2013, respectively. A response to comments was provided on October 25, 2013, and a meeting with EPA and CTDEEP was held on October 30, 2013 to review the responses to comments. The draft 100% ISTR Design and Remedial Action Work Plan (RAWP) was approved on April 18, 2014.

Construction of the ISTR system was completed in April 2014, shakedown of the system commenced on March 31, 2014, and the official "Day 1" of ISTR, when phase I heaters were taken off idle and began ramping up to full power, was May 15, 2014. Phase I heaters reached full power output on May 22, 2014. Phase II heater began ramping up and phase II extraction wells were brought online during the week of July 9, 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. As of October 31, 2014, it is estimated that approximately 336,000lbs of VOC mass had been removed using ISTR.

During the week of July 28, 2014, TerraTherm collected 15 progress samples from 5 borings completed to bedrock within the Phase I area to assess the progress of ISTR within the phase I area. TerraTherm collected 33 samples from 17 different locations from October 14-21, 2014. Results from the 2nd progress sampling event have triggered confirmation sampling within the phase I area. Confirmation sampling will be performed in November 2014 and approximately 60 samples will be collected and analyzed for VOCs from 28 locations within the phase I area. Results from the sampling event will be compared to Interim NAPL Cleanup Levels to assess if ISTR has been completed within the phase I area and whether those heaters can be shutdown.

L. Habitat Restoration

No habitat restoration activities were conducted during this reporting period. A pre-remediation assessment of the types, extent and condition of existing habitats on site was conducted in June 2009 pursuant to RDWP Attachment H (Habitat Restoration Work Plan).

M. Memorandum of Agreement (MOA) with Southington Water Department / Town of Southington

A draft MOA was prepared during the Annual Report #1 reporting period as required by SOW Section V.B.3. This draft MOA was submitted for EPA review on September 16, 2009 and resubmitted based upon EPA comments on June 23, 2010. EPA provided further comments on the MOA on October 28, 2011. The revised MOA was provided for further EPA review on November 15, 2011. EPA issued the final MOA on September 15, 2014. Execution of the MOA triggered finalization and submittal of the Supplementary Containment Action Plan (SCAP). The SCAP sets forth the process the Group would undertake to enhance containment of groundwater in the event SWD re-starts pumping from the Town Well Field Property. The revised SCAP was submitted on October 13, 2014.

N. Groundwater Monitoring Program

A comprehensive groundwater monitoring program was scoped in *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Work Plan; Attachment N to the Remedial Design Work Plan [RDWP]; ARCADIS 2010). A summary of the planned sampling frequency is provided in the attached Table N-1 from the RDWP. The first comprehensive groundwater sampling event occurred during May/June 2010 which supported the first Five-Year Review, submitted in 2010. This sampling event provided

data for the draft 1st Monitored Natural Attenuation Report which was submitted in September 2010.

In accordance with *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Work Plan; Attachment N to the Remedial Design Work Plan [RDWP]; ARCADIS 2010), the 2014 comprehensive groundwater sampling event was performed in June 2014 and included sampling of groundwater at 129 monitoring wells for analysis of volatile organic compounds (VOCs), 1,4-dioxane, target analyte list (TAL) metals, and/or MNA parameters. With the exception of recently installed wells, these wells were also sampled for the full suite of potential Site-related constituents in 2010 as part of the initial "comprehensive" event. In the future, comprehensive sampling events are expected to be conducted at five-year intervals in support of the USEPA's Five-Year Review schedule. The 2014 Groundwater Sampling and Monitored Natural Attenuation Report (Attachment 3) summarizes the 2014 groundwater sampling events performed in accordance with the Work Plan, and presents the results and interpretation of data collected in support of MNA as a remedy for groundwater that contains Site related constituents of concern (COCs) at concentrations exceeding acceptable risk levels or regulatory limits. Sampling results are discussed below.

VOCs and TAL metals above Action Levels (the more stringent of the USEPA Maximum Contaminant Levels [MCLs] or Connecticut Class GA Groundwater Protection Criteria [GWPC]) are contained within the previously estimated containment boundary of the hydraulic containment and treatment system (HCTS).

Figures 2 through 6 of the draft 2014 Groundwater Sampling and Monitored Natural Attenuation Report (MNA) show the locations of former Interim Monitoring and Sampling (IMS) wells that were used to monitor the VOC plume between the completion of the RI and the issuance of the ROD. These wells have the most complete data sets and concentration trends at these wells are presented in Figures 12 through 16 of the Draft 2014 MNA Report). Middle overburden well MW-03 (Figure 13-Draft 2014 MNA Report) and shallow bedrock well MW-127C (Figure 15-Draft 2014 MNA Report) are the only monitoring wells south of the Connecticut Light & Power (CL&P) easement that contained VOC concentrations above the Interim Cleanup Levels (ICLs) before the start-up of the NTCRA 2 system, but they declined to below the ICLs following NTCRA 2 system start up. As shown on Figures 12 through 16 of the Draft 2014 MNA Report, the VOC concentration trends at the former IMS wells are generally declining or have too many samples with no detected VOCs to support trend analysis.

Monitoring of the anomalous concentration increases noted in June 2013 at certain wells in the Town Well Field property continued in 2014. Tetrachloroethene (PCE) and trichloroethene (TCE) were detected at monitoring well PZO-2M at concentrations of 8.64 micrograms per liter (µg/L) and 17.7 µg/L respectively, in the June 2014 sample. Although these concentrations are above the Action Level of 5.0 µg/L for both compounds, they represent a significant decrease from the peaks noted in the July

2013 event (90 µg/L and 360 µg/L, respectively). TCE was also detected at monitoring well MW-1003DR at a concentration of 53.8 µg/L, above the Action Level of 5 µg/L, but well below the June 2013 peak of 740 µg/L. However, benzene and PCE, which were detected above their respective Action Levels in this well in June 2013, were again below their respective Action Levels in June 2014.

Benzene was detected at monitoring well MW-1001R at a concentration of 10.6 µg/L, which exceeds the Action Level for this constituent (1 µg/L). The well was resampled in September 2014 with a similar result (11.7 µg/L benzene). This well is located in the cemetery east of Queen Street. The concentration gradients, detected COC distribution, and local groundwater flow characteristics suggest the source is unrelated to the SRSNE Site.

O. Recommendations of Changes to any Monitoring Program

The June 2014 groundwater sampling results support continued use of MNA as a remedy for COCs in Site groundwater. The MNA parameter analyte list was reviewed with respect to the value of continued monitoring of each parameter. Based on this review, the following parameters are proposed for removal from the MNA parameter analyte list for the stated reasons:

Alkalinity – alkalinity concentrations are sufficiently high (greater than 10 milligrams per liter [mg/L]) to demonstrate adequate buffering for any acids that may form during microbial activity.

Nitrate – nitrate concentrations are generally low (less than 1 mg/L) or below laboratory detection limits, indicating that nitrate is not a significant electron acceptor in Site groundwater. Other reduction-oxidation indicator parameters, including DO and dissolved iron and manganese, provide more robust information regarding Site groundwater reduction-oxidation processes.

Chloride – chloride is not a predictor of reduction-oxidation condition and therefore will not contribute to the characterization of Site groundwater reduction-oxidation processes. Groundwater chloride concentrations may differ depending on geologic strata and chloride may also be derived from runoff of salts applied to road surfaces for de-icing purposes. Chloride is a byproduct of degradation of chlorinated VOCs; however, chloride concentrations are not well correlated with concentrations of chlorinated VOCs in Site groundwater. Use of chloride concentrations at specific monitoring locations to predict chlorinated VOC degradation may over- or underestimate actual chlorinated VOC degradation. Chloride concentrations in HCTS influent water will continue to be monitored on a regular basis.

P. Groundwater Containment and Treatment Optimization Studies

No optimization studies were conducted during this reporting period.

Q. Costs Incurred this Reporting Period

Paragraph 62 of the CD sets forth "Additional Provisions Regarding Settling Defendants' Payments of U.S. Oversight Costs and State Oversight Costs." Pursuant to this paragraph, an interest bearing "Oversight Costs Payment Subaccount" of the Remedial Trust Account was established on April 27, 2009, in the amount of $5,700,000. The balance in this subaccount at the end of October 2014 was $ 5,867,289.63.
. Other defined terms in this paragraph include:

- "Rolling Oversight Cap" – defined as 15% of the total costs incurred by the Settling Defendants in performing the Work through the end of each Oversight Billing Period.
- "Available Balance" equals the Rolling Oversight Cap less the sum of all Settling Defendants prior payments for U.S Oversight Cost and State Oversight Costs.

Paragraph 62.e of the CD states that the Settling Defendants shall have the burden of calculating annually the Rolling Oversight Cap and Available Balance. The following table summarizes annually the Rolling Oversight Cap and Available Balance:

Reporting Period	Total Project Costs	Rolling Oversight Cap Amount	Oversight Costs Paid	Available Rolling Oversight Cap Amount
Annual Report #1	$1,880,301	$282,045	None paid.	
Annual Report #2	$3,446,824	$517,024	$84,290	
Annual Report #3	$4,037,109	$605,566	$30,887	
Annual Report #4	$1,421,795	$213,269	$39,939	
Annual Report #5	$3,726,911	$559,037	$18,963	
Annual Report #6	$6,618,780	$992,817	$41,320	
Totals*:	**$21,131,720**	**$3,169,758**	**$215,399**	**$2,954,359**

* Cost Revised based on Trustee expenditure updates

The total Rolling Oversight Cap amount available is: **$2,954,359**

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Tables

Table 1

Summary of Activities Completed

October 30, 2008-October 31, 2014

TABLE 1.0
Summary of Activities Completed
October 31, 2008 through October 30, 2014

Document Name / Activity	Author(s)	Date Submitted	Date Approved	Type
Final RDWP and POP	ARCADIS	11/19/2010	pending	Deliverable under SOW
Response to Comments on ISTR Conceptual Design	TerraTherm	12/3/2010	7/7/2011	Deliverable under SOW
Annual State of Compliance Report #2	de maximis	12/20/2010	pending	Deliverable under SOW
PIPP Winter Stabilization Plan	de maximis	12/30/2010	pending	Deliverable under SOW
Vapor Intrusion Technical Memorandum	EPA	10/27/2010	1/19/2011	Conditional Approval
Data Comparison - Groundwater Sampling Techniques	ARCADIS	1/4/2011	N/A	Technical Memorandum
Updates to Existing MODFLOW Groundwater Flow Model	ARCADIS	1/5/2011	N/A	Technical Memorandum
Data Comparison - Groundwater Sampling Techniques	ARCADIS	2/10/2011	N/A	Technical Memorandum
Draft Institutional Controls Plan	de maximis/ARCADIS	2/18/2011	pending	Deliverable under SOW
Comments on Response to Comments on ISTR Conceptual Design	EPA	3/2/2011	7/7/2011	EPA comments
PIPP Sheetpile Wall Extension Design	ARCADIS	3/21/2011	4/22/2011	Deliverable under SOW
Data Comparison - HydraSleeve vs. Low-Flow Groundwater Sampling Techniques	ARCADIS	3/22/2011	N/A	Technical Memorandum
Response to Comments on Response to Comments on ISTR Conceptual Design	TerraTherm	4/6/2011	7/7/2011	Deliverable under SOW
Bedrock Outcrop Study	ARCADIS	4/20/2011	N/A	Technical Memorandum
Supplementary Vapor Intrusion Technical Memorandum	ARCADIS	6/6/2011	pending	Deliverable under SOW
Bedrock Modeling Memorandum	ARCADIS	6/6/2011	N/A	Technical Memorandum
Comments on Vapor Intrusion Technical Memorandum	EPA	6/15/2011	pending	EPA comments
ISTR Conceptual Design Approval	EPA	7/7/2011	7/7/2011	Approval
Technical Memorandum - Proposed Use of Hydrasleeve Sampling	ARCADIS	7/8/2011	7/8/2011	Technical Memorandum
Approval of ISTR 100% Wellfield Design	EPA	9/23/2011	9/23/2011	EPA Approval
Comments on Draft Memorandum of Agreement with Town and Southington Water Department	EPA	10/28/2011	pending	EPA comments
Annual State of Compliance Report #3	de maximis	1/12/2012	pending	Deliverable under SOW
Screen Volume Purge vs lowflow groundwater metholds	de maximis	5/11/2011	5/21/2012	Approval
Submittal for the use of hydrosleeve during interim sampling events	de maximis	1/4/2011	6/12/2012	Approval
Annual State of Compliance Report #4	de maximis	1/3/2013	pending	Deliverable under SOW
PIPP Completion Report	ARCADIS	4/3/2013	N/A	Technical Repot
Revised Institutional Controls Plan	de maximis / ARCADIS	5/21/2013	pending	Deliverable under SOW
Revised Draft ISTR work plan and POP	TerraTherm	7/8/2013	pending	Deliverable under SOW
Comments on revised Draft ISTR Work Plan and POP	EPA/CTDEEP	9/30/2013	N/A	EPA /CTDEEP comments
Response to EPA and CTDEEP comments on revised DRAFT ISTR Work Plan and POP	de maximis	10/26/2013	pending	Deliverable under SOW
Annual State of Compliance Report #5	de maximis	3/3/2013	pending	Deliverable under SOW
Approval of In Situ Thermal Remediation Final (100%) Design	de maximis	7/10/2013	4/18/2014	Deliverable under SOW
Approval of Technical Work Plan for NTCRA Supplemental Grounwater Recovery Well (RW-15)	de maximis	6/26/2014	7/23/2014	Approval
Issuance of Final Memeorandum of Agreement	EPA	11/15/2011	9/15/2014	Deliverable under SOW
Revised Supplemental Containment Action Plan	de maximis	10/13/2014	pending	Deliverable under SOW

Table 2

N-1

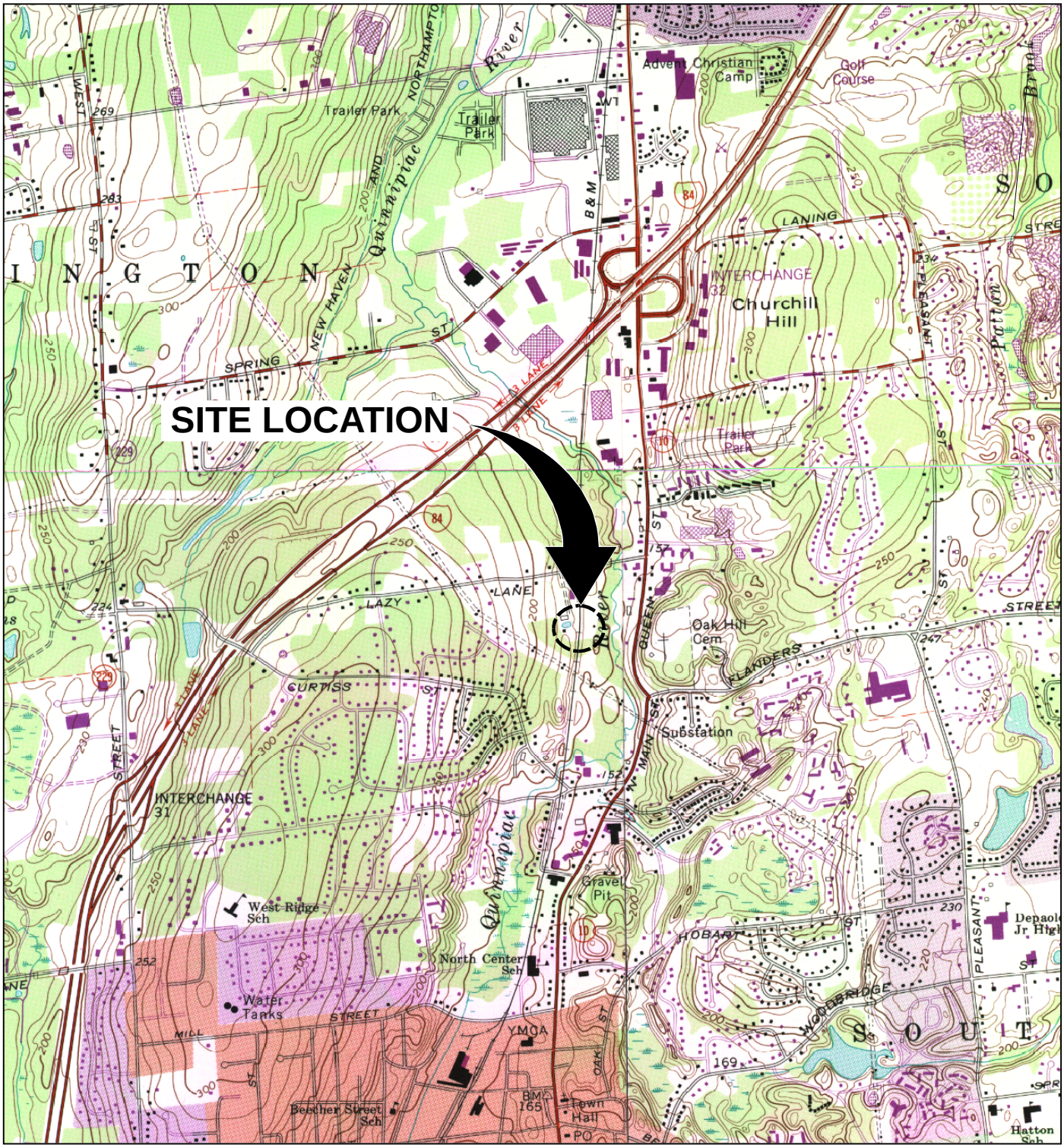
Groundwater Monitoring Network and Sampling Events

Table N-1.
Groundwater Monitoring Network and Sampling Events
SRSNE Superfund Site, Southington, CT

Well Group	# Wells	Sampling Period	Sampling Frequency	Analytical Parameters
"C" wells	81	first comprehensive event *	1 event	VOCs, alcohols, 1,4-dioxane, TAL metals, PAHs, PCBs
"R" wells	26			VOCs, alcohols, 1,4-dioxane, TAL metals, PAHs, PCBs, MNA parameters
"N" wells	10			VOCs, alcohols, 1,4-dioxane, TAL metals, PAHs, PCBs, MNA parameters
"M" wells	5			TAL metals, MNA parameters (background)
"B" wells	3			TAL metals (background)
"C" wells	81	subsequent comprehensive events	every 5 years	VOCs, 1,4-dioxane, TAL metals
"R" wells	26			VOCs, 1,4-dioxane, TAL metals, MNA parameters
"N" wells	10			VOCs, 1,4-dioxane, TAL metals, MNA parameters
"M" wells	5			TAL metals, MNA parameters
"B" wells	3			TAL metals
"R" wells	26	after first comprehensive event	annual	VOCs
			biennial	MNA parameters
"M" wells	5	after first comprehensive event	biennial	TAL metals (background)
			biennial	MNA parameters (background)
"N" wells - overburden	8	before thermal treatment	biennial	VOCs, MNA parameters
		during thermal treatment	annual	VOCs, MNA parameters
		after thermal, before equilibrium	3x / year	VOCs, MNA parameters
		after equilibrium	annual	VOCs
			biennial	MNA parameters
"N" wells - bedrock	2	before thermal treatment	annual	VOCs, MNA parameters
		during thermal treatment	annual	VOCs, MNA parameters
		after thermal, before equilibrium	3x / year	VOCs, MNA parameters
		after equilibrium	annual	VOCs
			biennial	MNA parameters
"W" wells	36	all comprehensive events	every 5 years	Water levels only - during all comprehensive events

Notes: 1) biennial = once every two years.
* - Shallow overburden wells MW-501C, MW-903S, and MW-904S will be re-sampled approximately 6 months after the first comprehensive sampling event.

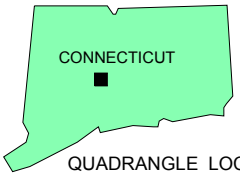
Figures



REFERENCE: SOUTHINGTON, CONN. USGS QUAD. 1968 PR 1992, MERIDEN, CONN. USGS QUAD. 1966 PR 1984, NEW BRITAIN, CONN. USGS QUAD. 1966 PR 1984, & BRISTOL, CONN. USGS QUAD 1967 PR 1984

2000' 0 2000'

APPROX. SCALE: 1" = 2000'



QUADRANGLE LOCATION

DRAFT

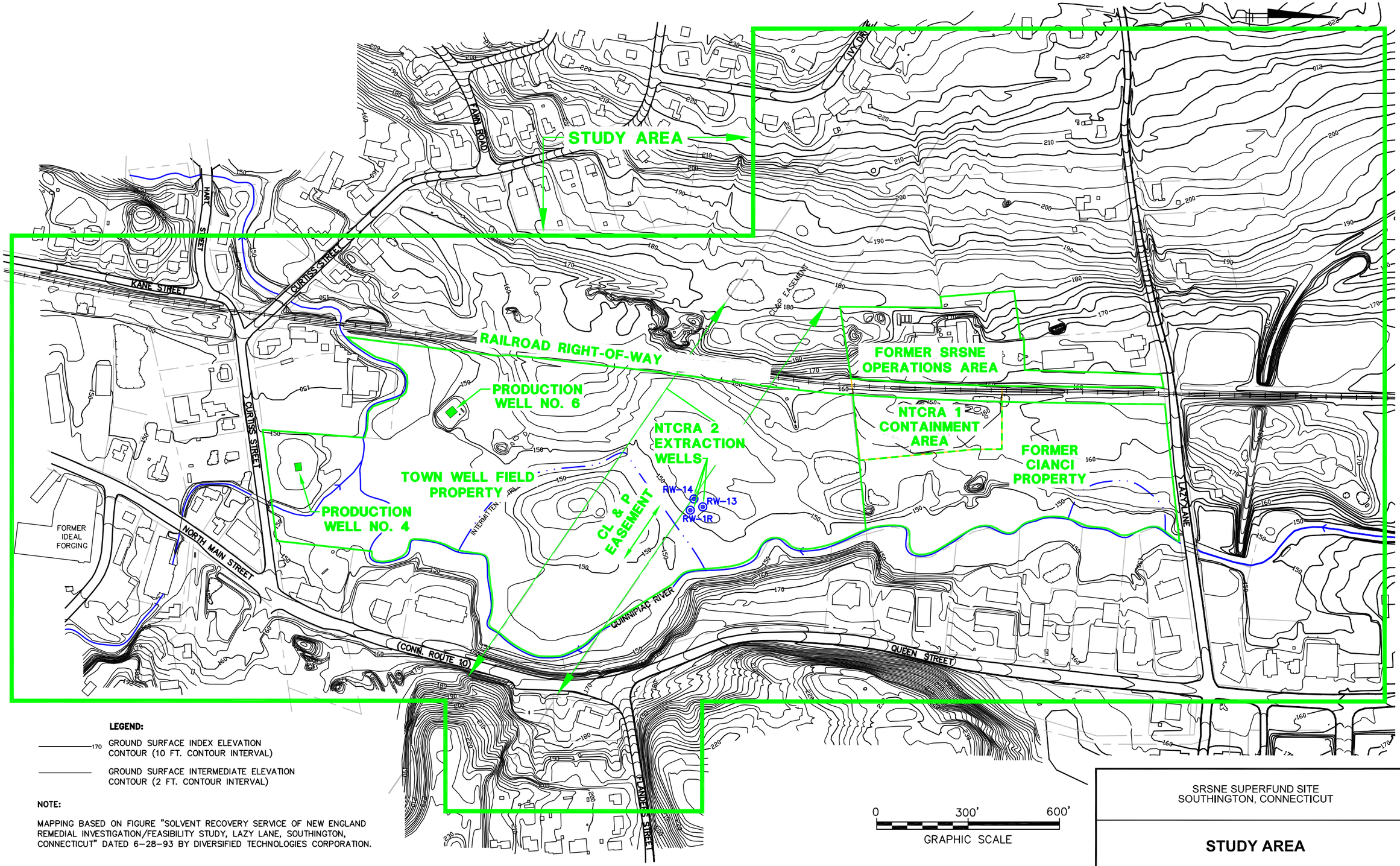
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
REMEDIAL DESIGN WORK PLAN

SITE LOCATION MAP

ARCADIS

FIGURE
1

02/27/09 SYRACUSE, NY-ENV/CAD DJH, LJP
B005463410000100001CDR\RDWP\54634N01.CDR



LEGEND:

170 GROUND SURFACE INDEX ELEVATION CONTOUR (10 FT. CONTOUR INTERVAL)

GROUND SURFACE INTERMEDIATE ELEVATION CONTOUR (2 FT. CONTOUR INTERVAL)

NOTE:

MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONNECTICUT" DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

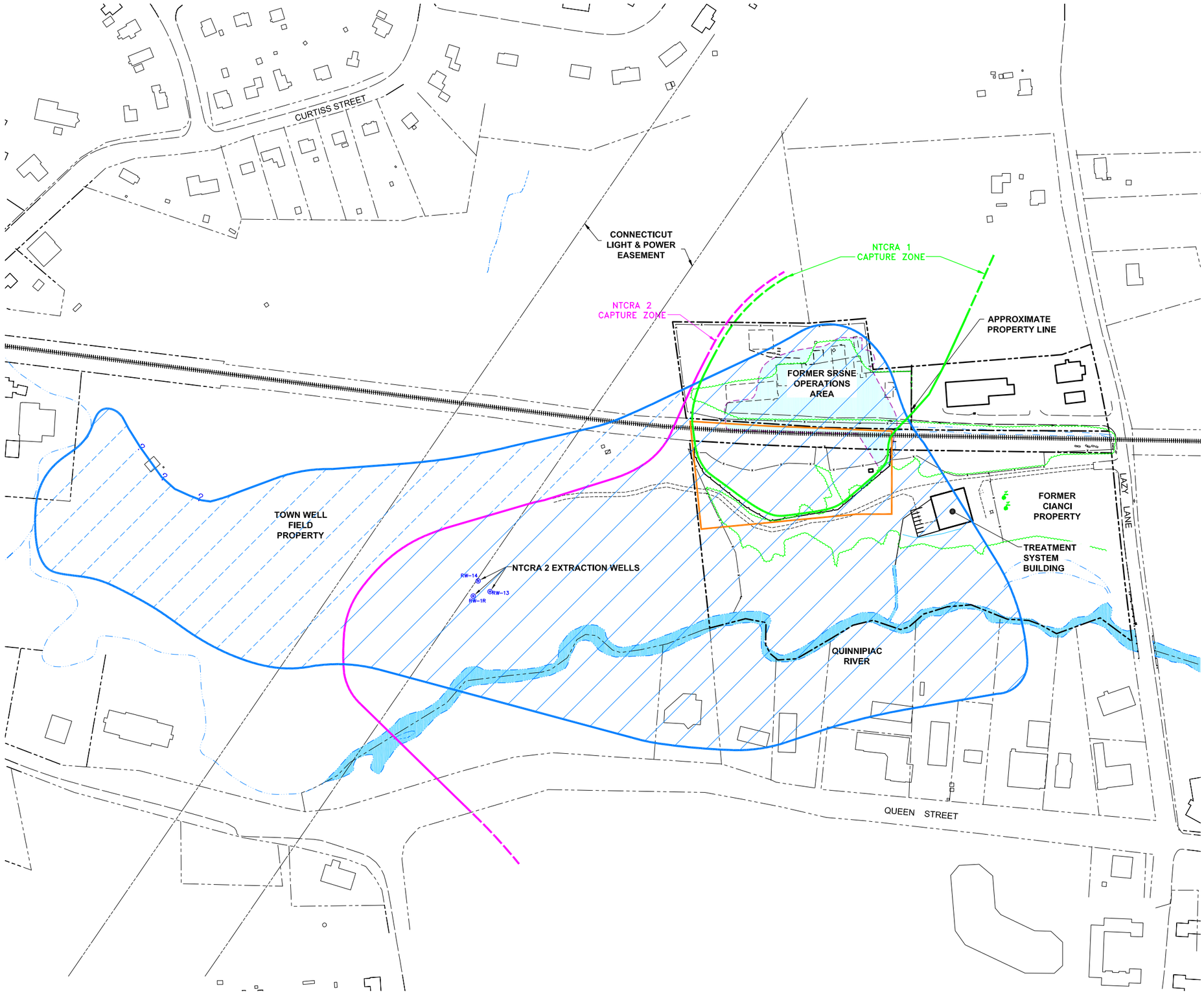
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT

STUDY AREA

ARCADIS

FIGURE 2

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER, R. BASSETT, P. LISTER PM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF
G:\ENVCAD\Manchester\ACTIB\00546340000001001054634B02.DWG LAYOUT: 2 SAVED: 12/20/2012 10:39 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/20/2012 10:40 AM BY: SMALL, BRIAN
XREFS: 54634X01 IMAGES: PROJECTNAME: ---



LEGEND:

- PROPERTY LINE
- PROPERTY LINE – ADJOINER
- BUILDING
- BUILDING – ADJOINER
- FORMER BUILDING
- RAILROAD
- ROAD
- GRAVEL ROAD
- DRAINAGE SWALE
- RIVER
- EASEMENT
- CHAINLINK FENCE
- SHEETPILE
- NTCRA 1 CONTAINMENT AREA
- OVERBURDEN GROUNDWATER AREA
- SEVERED PLUME
- OVERBURDEN NAPL AREA

NOTES:

1. BASEMAP INFORMATION OBTAINED FROM A FIGURE CREATED BY CONKLIN & SOROKA, INC., ENTITLED "TOPOGRAPHIC SURVEY" DATED 1/13/09 AT A SCALE OF 1"=50'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. THIS FIGURE PRESENTS AN OVERLAY OF THE ESTIMATED EXTENTS OF THE GROUNDWATER PLUME IN THREE MONITORED OVERBURDEN ZONES, BASED ON PLUME DELINEATION LIMITS PRESENTED IN THE MONITORED NATURAL ATTENUATION REPORT (ARCADIS 2010).

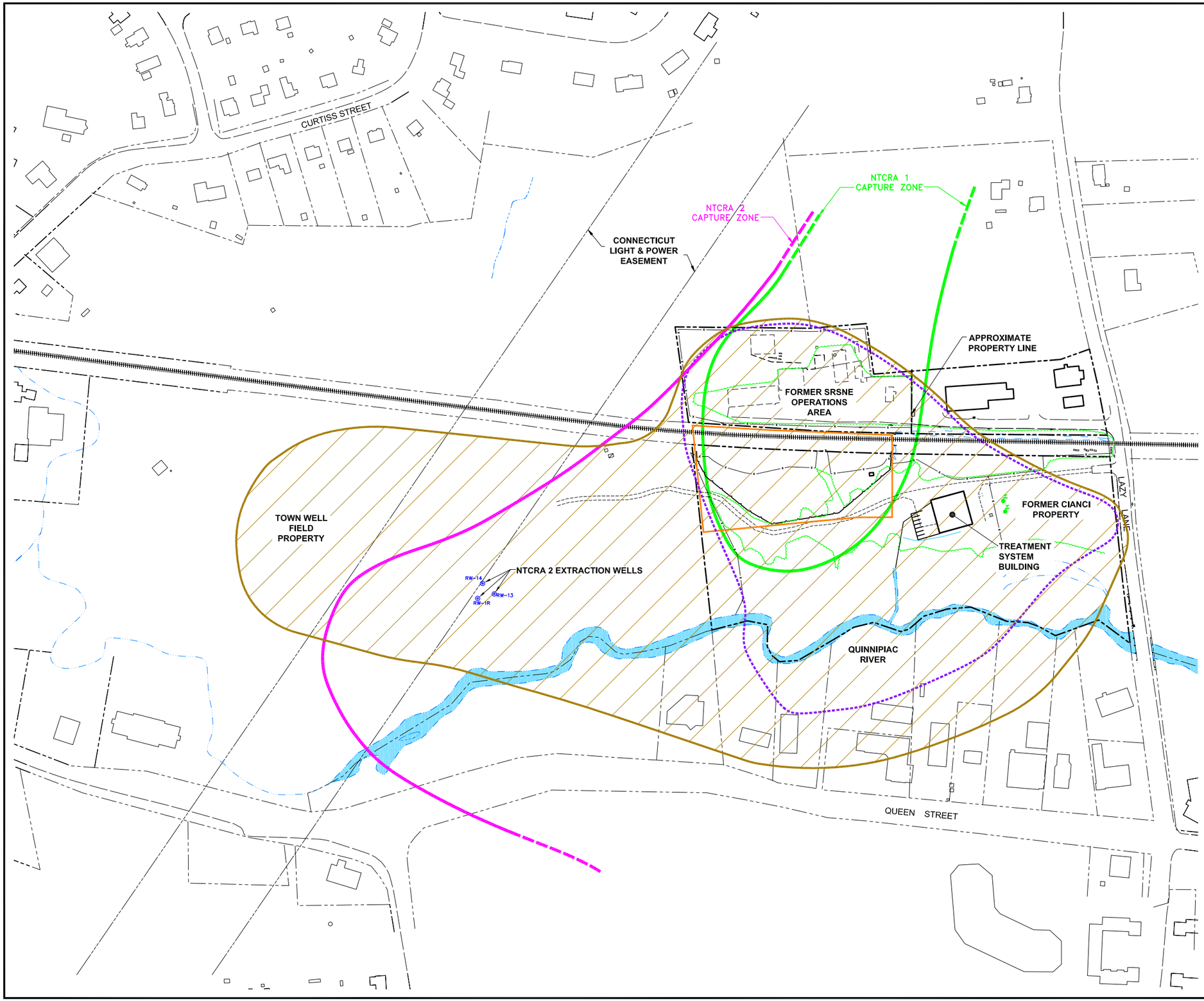
0 120' 240'
GRAPHIC SCALE

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
ANNUAL REPORT #2

ESTIMATED GROUNDWATER PLUME AND NAPL AREAS - OVERBURDEN

ARCADIS

FIGURE
3A



LEGEND:

- PROPERTY LINE
- PROPERTY LINE – ADJOINER
- BUILDING
- BUILDING – ADJOINER
- FORMER BUILDING
- RAILROAD
- ROAD
- GRAVEL ROAD
- DRAINAGE SWALE
- RIVER
- EASEMENT
- CHAINLINK FENCE
- SHEETPILE
- NTCRA 1 CONTAINMENT AREA
- BEDROCK NAPL AREA
- BEDROCK GROUNDWATER AREA

NOTES:

1. BASEMAP INFORMATION OBTAINED FROM A FIGURE CREATED BY CONKLIN & SOROKA, INC., ENTITLED "TOPOGRAPHIC SURVEY" DATED 1/13/09 AT A SCALE OF 1"=50'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. THIS FIGURE PRESENTS AN OVERLAY OF THE ESTIMATED EXTENTS OF THE GROUNDWATER PLUME IN TWO MONITORED BEDROCK ZONES, BASED ON PLUME DELINEATION LIMITS PRESENTED IN THE MONITORED NATURAL ATTENUATION REPORT (ARCADIS 2010).

0 120' 240'
GRAPHIC SCALE

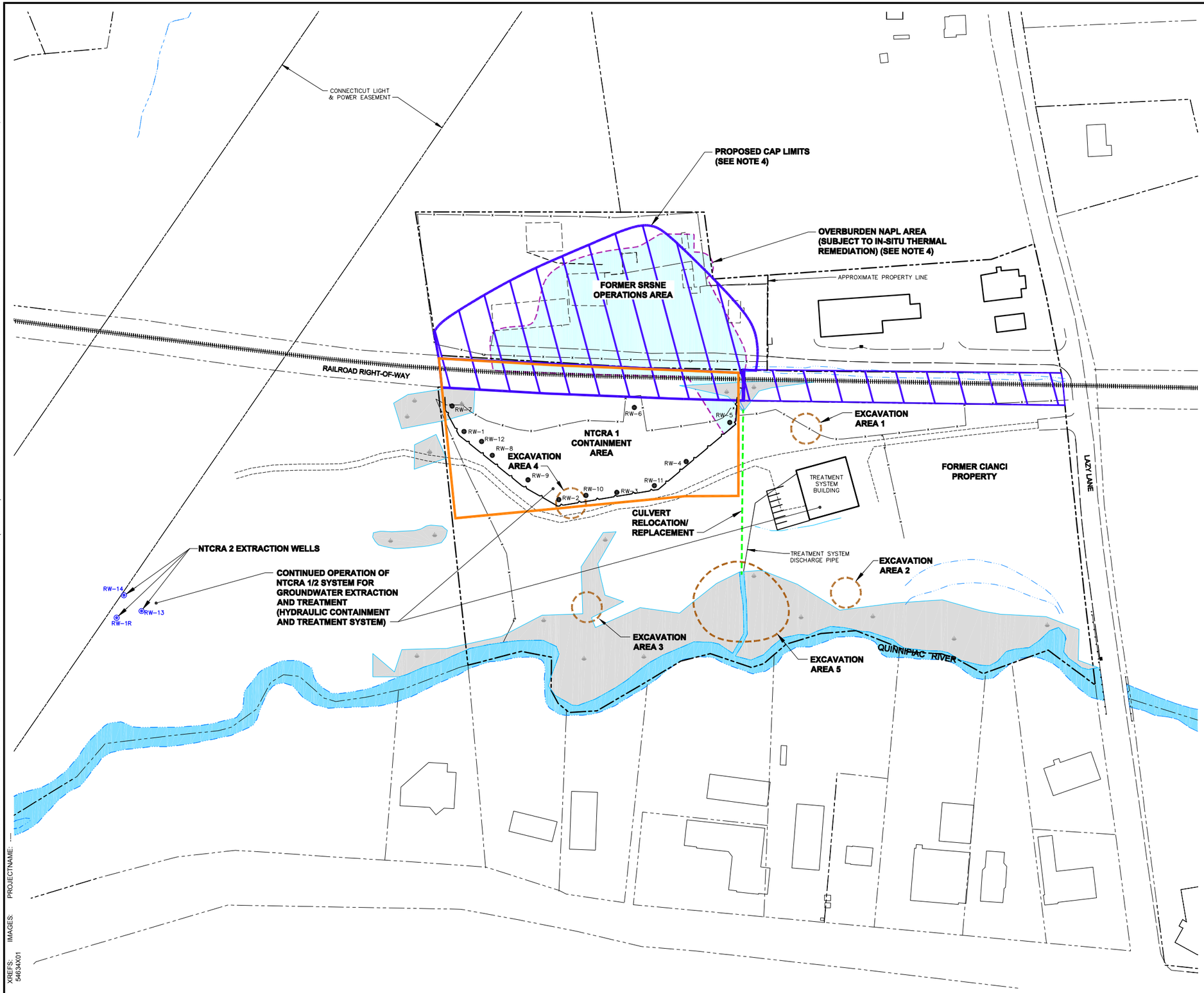
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
ANNUAL REPORT #2

ESTIMATED GROUNDWATER PLUME AND NAPL AREAS - BEDROCK

ARCADIS

FIGURE
3B

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: PGL LAF GMS LD:(Opt) PIC: G. CAMERON PM: J. HOLDEN TM: J. HOLDEN LYR: ON=*;OFF=*REF*;|CONCRETE,|FLOODPLAIN
G:\ENVCAD\SYRACUSE\ACTIB\00546340\0000\00600\DWG\RDWP\54634G03.DWG LAYOUT: 4 SAVED: 2/26/2010 1:47 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: C-LD2B-PDF-CONV PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/26/2010 1:47 PM BY: STOWELL, GARY
XREFS: 54634X01 IMAGES: PROJECTNAME: ---



LEGEND:

- PROPERTY LINE
- PROPERTY LINE – ADJOINER
- BUILDING
- BUILDING – ADJOINER
- FORMER BUILDING
- RAILROAD
- ROAD
- GRAVEL ROAD
- DRAINAGE SWALE
- RIVER
- EASEMENT
- CHAINLINK FENCE
- AREA OF DISCRETE SOIL REMOVAL ON FORMER CIANCI PROPERTY (SEE NOTE 4)
- SHEETPILE
- WETLAND
- RW-1 NTCRA 1 OVERBURDEN EXTRACTION WELL

NOTES:

1. SITE PLAN TAKEN FROM DIVERSIFIED TECHNOLOGIES CORP., 556 WASHINGTON AVE., NORTH HAVEN, CT, DATED 6/93. TOPOGRAPHY REPORTED TO HAVE BEEN DIGITIZED FROM TOWN OF SOUTHINGTON TOPOGRAPH MAPS G-7, G-8, G-9; PHOTOGRAPHY DATED NOV. 1978, SCALE: 1"=100'. PROPERTY LINES REPORTED TO HAVE BEEN DIGITIZED AND LOT NUMBERS TAKEN FROM "PROPERTY MAP, TOWN OF SOUTHINGTON" MAPS 134 & 147, SCALE: 1"=100' BY DIVERSIFIED TECHNOLOGIES CORPORATION.
2. BENCHMARK #1 IS AT ELEVATION 164.03. PK NAIL; S'LY SIDE; POLE #9049.
3. WETLAND AREAS WERE TAKEN FROM THE FINAL REMEDIAL INVESTIGATION REPORT (HNUS 1994).
4. THE LIMITS OF REMEDIAL ACTIVITIES ARE PRELIMINARY AND ARE SUBJECT TO CONFIRMATION/MODIFICATION BASED ON REMEDIAL DESIGN ACTIVITIES.

DRAFT

0 80' 160'
GRAPHIC SCALE

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
REMEDIAL DESIGN WORK PLAN

PLANNED REMEDIAL ACTIVITIES

ARCADIS

FIGURE
4

Attachments

Attachment 1

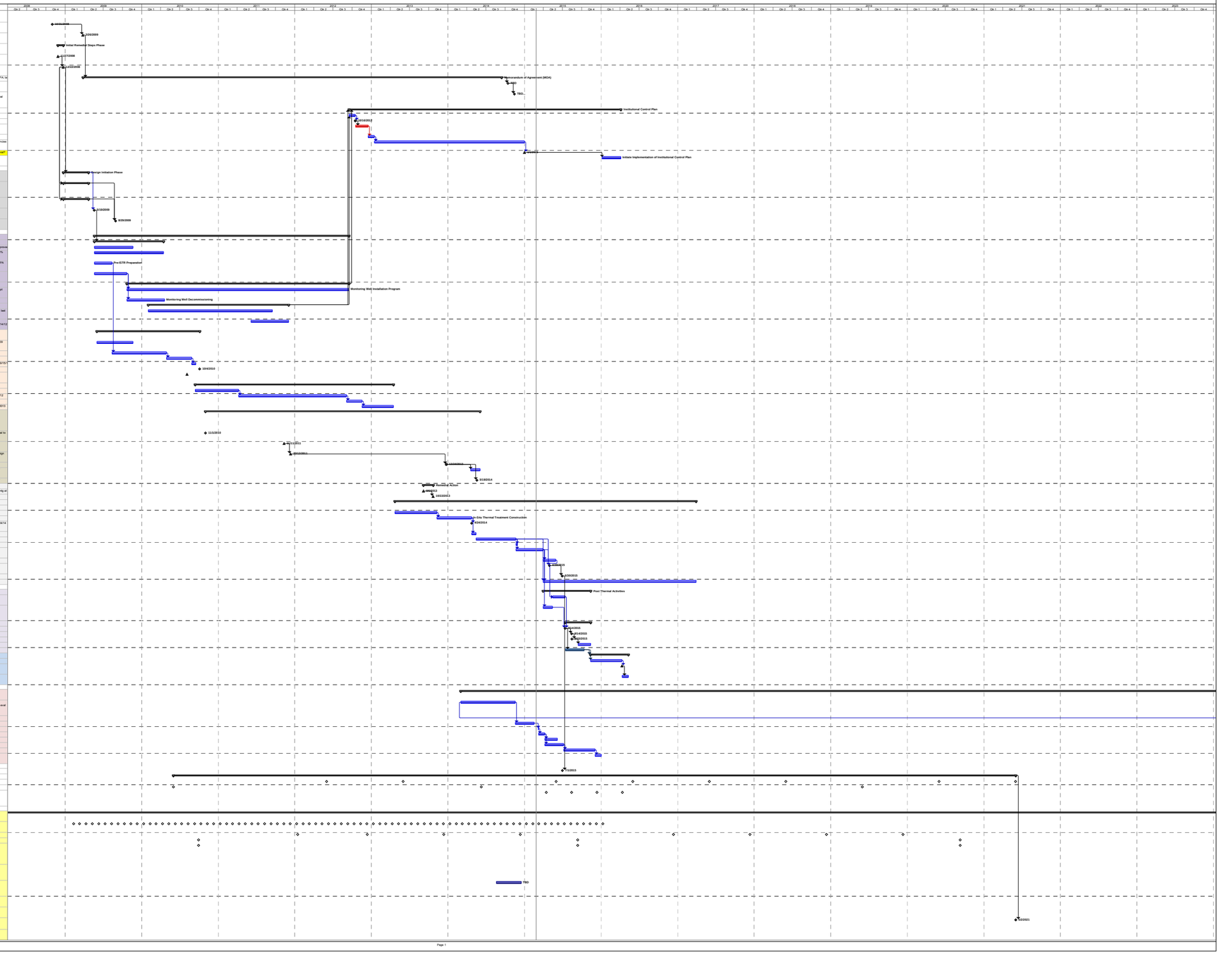
Project Schedule

de maximis, inc.

Comprehensive RD/RA Project Schedule

Figure 1

ID	Deliverables/Activity	Trigger	Time Frame	SOW Reference	Start Date	Finish Date	Duration	Predecessors	Notes/Status
1	**RDRA Schedule**				**Sun 7/5/07**	**Fri 6/28/24**	**6208 days?**		
1	**Lodging of the Consent Decree**				Fri 10/31/08	Fri 10/31/08	1 day		
2	**Entry of the CD**				Thu 3/26/09	Thu 3/26/09	1 day	1	
3	**Initial Remedial Steps Phase**	EPA Approval of Contractors		V.B	Thu 11/27/08	Mon 12/22/08	26 days		
4	**Notification of Supervising Contractor/Project Coordinator**	Lodging of the CD	Satisfied in the draft SOW.	V.B.1	Thu 11/27/08	Thu 11/27/08	1 day		
5	**Notification/Selection of a Remedial Design Contractor**	Lodging of the CD	Notification/Selection of a Remedial Design Contractor	V.B.2	Mon 12/22/08	Mon 12/22/08	1 day	4	
6	**Memorandum of Agreement (MOA)**	Entry of the CD	Within 180 days of Entry of CD	V.B.3	Fri 5/27/09	Sat 5/13/14	1887 days		2 Drafts provided to EPA, M
10	**Supplemental Containment Action Plan**	EPA Approval of MOA	Within 30 days of signed MOA.	V.B.5	Tue 10/14/14	Tue 10/14/14	1 day	9FS+30 days,6	
11	**Implementation of Supplemental Containment Action Plan (TBD)**	Upon notification by EPA, and consistent with the terms of the Memorandum of Agreement	As specified by EPA.	V.B.6	Fri 11/14/14	Fri 11/14/14	1 day	12FS+20 days	document is written; submittal pending final MOA
12	**Institutional Control Plan**	Completion of Vapor Intrusion Study	Within 30 days of completion of Vapor Intrus	V.B.7	**Sun 5/30/12**	**Mon 4/4/16**	**1207 days**	**57,54**	
13	Develop Institutional Control Plan				Sun 9/16/12	Mon 10/15/12	30 days	57	
14	Submit Institutional Control Plan				Tue 10/16/12	Tue 10/16/12	1 day	13	
15	Agency Review and Comment On Institutional Control Plan				Wed 10/17/12	Sat 12/15/12	60 days	14	
16	Revised Institutional Control Plan				Sun 12/16/12	Mon 1/14/13	30 days	15	
17	Revised Institutional Control Plan #2				Tue 1/15/13	Wed 12/31/14	716 days	16	latest version to agencies 3/2/13
18	Institutional Control Plan Approval				Thu 1/1/15	Tue 1/5/16	370 days	17	Target date for approval!
19	Initiate Implementation of Institutional Control Plan		Within ten (10) days of receipt of EPA's approval or modification of the INSTITUTIONAL CONTROL PLAN	V.B.8	Wed 1/6/16	Mon 4/4/16	65 days	18	
20									
21	**Design Initiation Phase**			V.C	Tue 12/23/08	Tue 4/21/09	120 days?	5	
22	**Remedial Design Work Plan (RDWP)**	EPA approval of RD Contractor	Within one hundred twenty (120) days of receipt of EPA's written notice of authorization to proceed	V.C.1	Tue 12/23/08	Tue 4/21/09	120 days?	5SS	
39	**Remedial Design Project Operations Plan (POP)**	EPA approval of RD Contractor.	Within 120 days of EPA approval.	V.C.2	Tue 12/23/08	Tue 4/21/09	120 days	5SS	
45	**Agency Review and Comment on Accelerated Pre Design Studies**				Tue 5/19/09	Tue 5/19/09	1 day?	21	
46	**Agency Review and Comment on Remedial Design Work Plan and POP**				Sat 8/29/09	Sat 8/29/09	1 day?	39FS+30 days,22	
47									
48	**Pre-Design Studies**				Wed 5/20/09	Sat 9/15/12	1215 days?		
49	**Accelerated Pre-Design Studies**				**Wed 5/20/09**	**Wed 4/14/10**	**330 days**	**45**	
50	Overburden NAPL Delineation Study			V.C.1.a	Wed 5/20/09	Thu 11/19/09	184 days		23 11/19/09 to EPA, approve
51	Habitat Restoration Study			V.C.1.b	Wed 5/20/09	Wed 4/14/10	330 days		30 qst included with 100% PIPP design
52	Pre-ISTR Preparation				Wed 5/20/09	Tue 8/11/09	84 days		36 PIPP approved by EPA 8/11/09
53	Groundwater Monitoring Well Network Evaluation			V.C.1.m	Wed 5/20/09	Wed 10/21/09	155 days		37 submitted 10/21/09
54	**Groundwater Pre-design Studies**				**Thu 10/22/09**	**Sat 9/15/12**	**1060 days**		
55	Monitoring Well Installation Program			IV.B.5.a	Thu 10/22/09	Sat 9/15/12	1060 days		53 last well installed Sept 2012
56	Monitoring Well Decommissioning			IV.B.5.a	Thu 10/22/09	Mon 4/19/10	180 days		53
57	**Vapor Intrusion Study**			V.C.1.k	**Mon 2/1/10**	**Fri 1/22/13**	**670 days?**		
58	Follow-up Groundwater Sampling Round	6 Months Following Initial Sampling Event			Mon 2/1/10	Thu 9/15/11	592 days?		4 rounds conducted, last Sept 2011
59	Vapor Intrusion Study				Mon 6/6/11	Fri 12/2/11	180 days		Last memo 12/2/11; Approved by EPA 5/14/12
60	**Pre-ISTR Detailed Design (PIPP)**	EPA approval or modification of Conceptual Design.	Within 90 days of notice by EPA.	V.E.1	Mon 6/1/09	Mon 10/4/10	491 days		
61	NAPL Delineation Investigation Report				Mon 6/1/09	Thu 11/19/09	172 days		qst submitted 11/19/09
62	Pre-ISTR Design Report			V.E.1.h,j	Wed 8/12/09	Wed 4/28/10	260 days	52	
63	USEPA Review and Conditional Approval			V.E.1.i	Thu 4/29/10	Thu 8/26/10	120 days	62	
64	Response to Final Comments				Fri 8/27/10	Wed 9/15/10	20 days	63	response submitted 9/15/1
65	Final "For Construction" Drawings				Mon 10/4/10	Mon 10/4/10	1 day		
66	**Technical Information Meeting**	Submittal of 100% Design.		V.E.2	Thu 8/5/10	Thu 8/5/10	1 day		estimated date
67	**PIPP Construction Activities**				**Mon 9/13/10**	**Mon 4/15/13**	**946 days**		
68	Initial PIPP Work				Mon 9/13/10	Thu 4/7/11	207 days		
69	Break For Fiber Optic Relocation				Fri 4/8/11	Mon 9/3/12	315 days		68 wdoc completed 8/1/12
70	Complete PIPP Work				Tue 9/4/12	Fri 11/16/12	74 days	69	
71	PIPP Completion Report				Sat 11/17/12	Mon 4/15/13	150 days		70 Rpt submitted April 2013
72	**ISTR Design Process**	EPA approval or modification of RD Work Plan.	Within 120 days of EPA approval that remedial pre-design studies to be conducted as described in the RD Work Plan are complete.	V.D.1	Mon 11/1/10	Mon 8/2/14	1310 days?		
73	"75%" Design Package (including ISTR-related RDWP studies)			V.C.1.b,d,e V.D.1.a	Mon 11/1/10	Mon 7/18/11	260 days		Initial design submittal to EPA July 2011
74	Technical Information Meeting			V.D.3	Fri 11/11/11	Fri 11/11/11	1 day		estimated date
75	Rounds of Submittals and EPA Review/Comment				Mon 12/12/11	Mon 12/23/13	743 days	74FS+30 days	Upload Revised Design 12/23/13
76	USEPA Review, Comments, Responses				Tue 12/24/13	Fri 4/18/14	116 days		75 approved 4/18/14
77	Final Design Reports Submitted, including O&M Plan, RA POP, ERP				Sat 4/19/14	Mon 6/2/14	45 days		76 Date of TT uploads?
78	Technical Information Meeting				Mon 5/19/14	Mon 5/19/14	1 day?	75FS+30 days	confirm actual date?
79	**Remedial Action**	EPA approval or modification of the Fin	Within 120 days of notice by EPA.	VI	Fri 9/6/13	Tue 10/22/13	47 days		
80	Pre-construction Conference(s)	EPA approval or modification of Final C	Within 30 days of notice by EPA.	VI.C	Fri 9/6/13	Fri 9/6/13	1 day		date of EPA/DEP mtg at
81	Pre-construction Public Meeting(s)	EPA approval or modification of Final C	Within 45 days of notice by EPA.	VI.D	Tue 10/22/13	Tue 10/22/13	1 day	80FS+45 days	9/7/13
82	**ISTR**	**EPA approval or modification of Fin**	**Within 60 days of notice by EPA.**	VI.E	**Tue 4/23/13**	**Wed 3/29/17**	**1437 days?**		
83	Meetings During Construction	Start of Construction	Weekly during construction	VI.F	Tue 4/23/13	Tue 4/23/13	1 day?	84SS	
84	Wellfield Installation				Tue 4/23/13	Fri 1/16/15	200 days		
85	In-Situ Thermal Treatment Construction				Sat 1/19/13	Wed 4/23/14	185 days	84	
86	Thermal Final Construction Inspection	Within 60 days of notice by Settling Defendants.		VI.G	Thu 4/24/14	Thu 4/24/14	1 day?		85 EPA/DEP on site 4/24/14
87	Shakedown/Testing				Thu 4/24/14	Wed 5/14/14	21 days	85	
88	Implementation of Thermal Treatment				Thu 5/15/14	Fri 11/21/14	190 edays		Start 5/15/14
89	Soil Sampling and Data Evaluation				Fri 11/21/14	Fri 11/28/14	8 days	88	
90	Additional Operation of Thermal Treatment System (if required)				Fri 11/21/14	Mon 3/30/15	130 days	88	
91	Demobilize				Tue 3/31/15	Fri 5/29/15	60 days	90	
92	Submit Construction Completion Report	Within 30 days of Final Construction Inspection.	Within 30 Days	VI.H	Thu 4/30/15	Thu 4/30/15	1 day?	90FS+30 days,89FS+30 days	
93	Agency Approval of Completion Report				Tue 6/30/15	Tue 6/30/15	1 day?	92FS+60 days	
94	Time to Achieve Equilibrium				Tue 3/31/15	Wed 3/29/17	730 days	88,90	
95									
96	**Post Thermal Activities**				Tue 3/31/15	Thu 11/12/15	227 days?		
97	Soil Investigation (SIP)	After In-Situ Thermal to re-assess the size of the area to be capped		V.C.i	Fri 5/15/15	Mon 7/13/15	60 days	91FS-15 days	
98	Vapor Control System Evaluation	After In-Situ Thermal to determine whether the vapor control system is needed below the cap.		V.C.j	Tue 3/31/15	Thu 5/14/15	45 days	90	
99	**Soil & RCRA C Cap Design**				**Tue 7/14/15**	**Thu 12/31/15**	**122 days?**		
100	Draft Design Package				Tue 7/14/15	Tue 7/14/15	1 day?	97,98	
101	Technical Information Meeting				Fri 8/14/15	Fri 8/14/15	1 day?	100FS+30 days	
102	Agency Review/Comments				Sat 8/15/15	Sun 9/13/15	30 days	101	
103	Address Comments and Finalize Design				Mon 9/14/15	Thu 11/12/15	60 days	102	
104	Contractor Procurement				Wed 7/15/15	Mon 10/12/15	90 days	100	
105	**Soil & RCRA C Cap Construction**				**Thu 12/3/15**	**Tue 5/30/16**	**181 days**	**104**	
106	Field Construction				Thu 11/12/15	Sat 4/9/16	150 days	104FS-30 days	
107	Final Construction Inspection	Settling Defendants conclude construction complete.	Within 60 days of notice by Settling Defendants.	VI.G	Sun 4/10/16	Sun 4/10/16	1 day	106	
108	Prepare/ Submit Construction Completion Report				Mon 4/11/16	Tue 5/10/16	30 days	107	
109									
110	**Groundwater Containment & Treatment Evaluation & Optimization Study (GCTEOS)**			V.C.4	**Mon 3/2/15**	**Thu 6/27/24**	**3770 days?**		
111	Optimization Studies	Need to upgrade system due to parts limitations, possible need to address in cap design	As directed by the EPA, or proposed by the Settling Defendants, no less frequently than every 10 years	V.C.6	Mon 3/2/15	Mon 11/17/14	200 days		reflects timing of constructed wetland eval
112	Additional Optimization Study(ies) (TBD)			V.C.6	**Thu 2/29/24**	**Thu 6/27/24**	**120 days**	**11555+3650 days**	
113	Draft Design for HCTS Modifications				Tue 11/18/14	Sun 2/15/15	90 days	111	
114	Technical Information Meeting				Sun 3/8/15	Sun 3/8/15	1 day?	113FS+20 days	
115	Agency Review/Comments				Mon 3/9/15	Tue 4/7/15	30 days	114	
116	Address Comments and Finalize Design				Wed 4/8/15	Sat 6/6/15	60 days	115	
117	Contractor Procurement				Wed 4/8/15	Mon 7/6/15	90 days	115	
118	HCTS Modifications				Tue 7/7/15	Thu 12/3/15	150 days	117	
119	Prepare/ Submit Construction Completion Report				Fri 12/4/15	Sat 12/5/15	30 days	118	
120									
121	**Commence Operation and Maintenance**	EPA approval or modification of Constr	Immediately upon notice by EPA.	VI.J	Wed 7/1/15	Wed 7/1/15	1 day	93	
122	**Compliance Monitoring (CM)**			VI.B	Tue 6/1/10	Tue 6/1/21	4019 days		
123	**Annual Groundwater Sampling Event**				**Wed 6/1/11**	**Tue 6/1/21**	**3654 days**		
133	**"Comprehensive" Sampling Events**				**Tue 6/1/10**	**Sat 6/1/30**	**7305 days**		
137	**Sampling "N" Wells during Equilibrium Period (events outside eui period coincide with annual)**				**Wed 6/2/10**	**Tue 6/2/15**	**364 days**		
142									
143	**Compliance Reporting**			VIII	Sun 7/1/07	Fri 6/28/24	6205 days?		
144	**Monthly Progress Reports**	Lodging of the CD.	On the 10th day following lodging and monthly thereafter.	VIII.A	**Tue 2/10/09**	**Sun 1/10/16**	**2526 days**		
229	**Annual State of Compliance Reports**	One Year After the Lodging of the CJ	Annually	VIII.B	**Thu 4/15/10**	**Thu 12/12/19**	**3529 days**		
241	**Five Year Review Reports**	Five Years after the date of the Revi	Every Five years	VIII.D	**Wed 6/29/11**	**Thu 9/10/20**	**3425 days**		
245	**Compliance Monitoring (CM) Work Plan Evaluation(s) (part of 5-year reviews)**	No less frequently than once after implementation of the excavation and soil treatment, and long-term groundwater, containment and treatment systems.	As part of the five-year reviews.	VIII.B.3	**Wed 6/29/16**	**Thu 9/10/20**	**3425 days**		
249	**Interim Remedial Action Report**	EPA determination that long-term groundwater containment and treatment system is operational and functional.	Within 90 days of notice by EPA.	VIII.C	Fri 6/28/24	Fri 6/28/24	1 day	110	
250	**Determination of Background Metals in Groundwater (TBD)**	Compliance with Interim Cleanup Levels for Groundwater.	No sooner than 365 days prior to submittal of Demonstration of Compliance Report.	VIII.E	Wed 8/22/14	Tue 12/16/14	119 days		TBD
251	**Demonstration of Compliance Report (TBD)**	Compliance with cleanup levels	As demonstrated by Settling Defendants.	VIII.F	Sun 7/1/07	Sun 7/1/07	1 day?		
252	**Risk Assessment**			IV.A.1	Sun 7/1/07	Sun 7/1/07	1 day		
253	**Site Closure (TBD)**				Wed 6/2/21	Wed 6/2/21	1 day?	122	
254	**Summary of Cost Information (TBD)**	Compliance with cleanup levels	As demonstrated by Settling Defendants.	VIII.G	Sun 7/1/07	Sun 7/1/07	1 day?		



Attachment 2

Hydraulic Containment and Treatment System, Annual Demonstration of Compliance Report No. 6, October 31, 2013 through October 30, 2014

DRAFT

Hydraulic Containment and Treatment System Annual Demonstration of Compliance Report No. 6

31 October 2013 Through 30 October 2014

Solvents Recovery Service of New England, Inc.
Superfund Site
Southington, Connecticut

Prepared for:
SRSNE PRP Group

Prepared by:
WESTON SOLUTIONS, INC.
Suite 3B
124 Hebron Avenue
Glastonbury, CT 06033
(860) 368-3200

19 DECEMBER 2014

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FIGURES
(Concluded)

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Figure 14B Hydrographs of PZR-2DR and MW-704DR – 31 Oct. 2013 through 30 Oct. 2014

1. INTRODUCTION

This Demonstration of Compliance Report (DCR) was prepared by Weston Solutions, Inc. (WESTON®) on behalf of the Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site PRP Group. The DCR documents the effectiveness of the Non-Time-Critical Removal Action No. 1 and 2 (NTCRA-1 and NTCRA-2) hydraulic containment and treatment system at the SRSNE Site in Southington, Connecticut, based on data collected during the period of 31 October 2013 through 30 October 2014. The data presented in this DCR were obtained in accordance with the United States Environmental Protection Agency (EPA) approved Demonstration of Compliance Plans (DCP) for NTCRA-1 and NTCRA-2 (BBL, June 1995 and November 1999), respectively. The data acquisition schedule, reporting, and evaluation requirements for this and future DCRs were described in these DCPs.

This is the sixth annual DCR to be issued after lodging of the consent decree and submitted in accordance with the Remedial Design/Remedial Action (RD/RA) Statement of Work (SOW). This DCR follows 60 previously submitted DCRs prepared initially on a quarterly basis and changed to annual submissions in 2003.

1.1 NTCRA-1 BACKGROUND

The NTCRA-1 hydraulic containment system is installed in the containment area (Figure 1A), which was defined in the NTCRA-1 SOW. The containment system originally included an array of 12 overburden groundwater extraction wells (RW-1 through RW-12) and a downgradient barrier (steel sheet piling) that hydraulically and physically contains overburden groundwater entering the containment area from the SRSNE operations area.

The pre-design investigation results and the designs of the hydraulic barrier wall, extraction wells, and treatment system are described in detail in the NTCRA-1 *100% Groundwater Containment and Treatment System Design Report* (*100% Design Report*, BBL, January 1994). The NTCRA-1 system was constructed between February and July 1995 and brought online in accordance with the EPA-approved schedule on 19 July 1995.

The NTCRA-1 hydraulic containment and monitoring network remained as originally constructed until November 2009 when select recovery wells, monitoring wells, and piezometers were abandoned in accordance with the Monitoring Well Network Evaluation, included as Attachment N to the *Remedial Design Work Plan* (Arcadis, April 2009). EPA was notified that the abandoned wells and piezometers would be removed from the NTCRA-1 monitoring program and DCP on 1 November 2009 (WESTON, December 2009). The second annual DCR (31 October 2009 to 30 October 2010) summarizes the recovery wells, monitoring wells, and piezometers abandoned under this program and the rationale for abandonment of each well. As indicated in the second annual DCR, all monitoring wells and piezometers were abandoned in November and December 2009, with exception to former recovery wells RW-5 and RW-6. These recovery wells were permanently taken out of service in November 2009, but not abandoned until December 2010.

As a result of the recovery well abandonment activities discussed above, the NTCRA-1 containment system now consists of ten overburden groundwater extraction wells (RW-1 through RW-4, and RW-7 through RW-12).

1.2 NTRCA-2 BACKGROUND

The NTCRA-2 hydraulic containment system is installed south of the NTCRA-1 containment area (Figure 1A), as defined in the NTCRA-2 SOW. The NTCRA-2 containment area encompasses the majority of the northern portion of the Town of Southington well field property and includes the shallow and deep bedrock, extending to a depth of 100 feet (ft) below the top of bedrock in the northern portion of this property (Figure 1A). Further upgradient (north), the NTCRA-2 containment area extends over 170 ft below the top of bedrock and over 200 ft below ground surface (BBL, November 1999).

The NTCRA-2 hydraulic containment system initially included two groundwater extraction wells (RW-13 and RW-1R) that, in combination with the NTCRA-1 containment system, contain bedrock groundwater migrating from the SRSNE operations area (Figure 1A). The design of the overburden and bedrock extraction wells RW-13 and RW-1R, respectively, are described in the NTCRA-2 *100% Design Report* (BBL, November 1999). Overburden recovery well RW-13 has been on-line since 14 July 1999, and bedrock recovery well RW-1R has been operating since 5 September 2001.

A third groundwater extraction well (RW-14) was added to the NTCRA-2 well field (Figure 1A) to further enhance long-term hydraulic containment of the overburden and bedrock groundwater in the NTCRA-2 well field. The design of the additional overburden extraction well is described in the RW-14 *Completion Report* (WESTON, November 2007). This overburden recovery well has been operating since 24 September 2007.

A fourth groundwater extraction well (RW-15) is planned to be added to the NCTRA-2 well field to provide additional redundancy and ensure NCTRA-2 performance objectives can be achieved with one NTCRA-2 overburden recovery well out of service in the future. The location and design of the additional overburden extraction well is described in the *Revised Draft Technical Work Plan* (WESTON, July 2014). This overburden recovery well was constructed during this reporting period, but was not placed into operation in early November 2014.

1.3 GROUNDWATER TREATMENT SYSTEM

The groundwater extracted by the NTCRA-1 and 2 containment systems is pumped directly to the groundwater treatment facility (Figure 1A). The treatment system consists of the following unit processes: influent equalization, metals pretreatment, filtration, ultraviolet oxidation (UV), and granular activated carbon adsorption. Vapor phase carbon adsorption is also used to capture contaminants that volatize during treatment. The system precipitates and extracts metals, reduces suspended solids, and destroys and captures volatile organic contaminants. Treated water is discharged to the Quinnipiac River in accordance with the Connecticut Department of Environmental Protection (CTDEP) *Revised Substantive Requirements for Discharge of Pre-Treated Groundwater* issued 6 November 1995.

1.4 REPORT ORGANIZATION

Section 2 of this report summarizes the acquisition and evaluation of field data used to verify the effectiveness of the hydraulic containment and treatment system, and Section 3 provides an overview of operations and maintenance (O&M) activities conducted at the site during this O&M period.

2. DATA ACQUISITION AND RESULTS

The data required to demonstrate the effectiveness of the hydraulic containment and treatment system were obtained in the form of hydraulic head measurements from wells and piezometers installed in the area of the containment system, flow measurements from the extraction well array, treatment system flow rates, and analytical results.

2.1 NTCRA-1 CONTAINMENT SYSTEM MONITORING

The satisfactory performance of the NTCRA-1 containment system is verified through two reversal-of-gradient tests that determine whether groundwater flow is controlled by the system. These tests are demonstrated by comparing hydraulic head measurements at several monitoring locations. The specific wells and piezometers used for these comparisons are discussed in Subsections 2.1.1 and 2.1.2. The gradient tests are:

- **Reversal of Gradient Test No. 1 (RGT-1)**: Confirms that overburden groundwater east and downgradient of the operations area is flowing in the direction of the groundwater extraction wells.

- **Reversal of Gradient Test No. 2 (RGT-2)**: Confirms that overburden groundwater flow is reversed and maintained in the direction of the groundwater extraction wells within the area enclosed by the hydraulic divide installed adjacent to the hydraulic containment system. RGT-2 is more crucial to a demonstration of compliance as it requires that overburden groundwater elevations within the barrier are at least 0.3 ft lower than those outside the wall in NTCRA-1.

2.1.1 RGT-1 Results

To confirm that overburden groundwater east and downgradient of the operations area and within the containment area is flowing in the direction of the groundwater extraction wells, hydraulic head measurements were collected at the following overburden wells/piezometers located in the vicinity of the groundwater containment system:

- Extraction Wells RW-1 through RW-4 and RW-7 through RW-12
- Monitoring Wells MW-415, MWL-304, MWL-305, MWL-307, and MWL-308

Overburden groundwater elevations were also measured at the following wells to assess the hydraulic response in the area between the hydraulic barrier wall and the Quinnipiac River:

- MWL-302, MWL-306, MWL-309, MWL-311, and TW-7A.

Monthly overburden hydraulic head data measured at the specified wells and compliance monitoring points from 31 October 2013 through 30 October 2014 are presented in Table 1. The resulting groundwater contour maps are presented as Figures 1A through 12A. The contours indicate the horizontal hydraulic gradient between the SRSNE operations area and the extraction wells was eastward toward the extraction wells, fulfilling RGT-1.

The vertical hydraulic gradient between the overburden and bedrock in the vicinity of the hydraulic containment system is also evaluated to confirm satisfactory recovery well operation. Groundwater elevations were compared between bedrock well (MW-416) and the adjacent overburden well (MWL-307) on the same dates. This comparison indicates that the vertical component of the hydraulic gradient between the bedrock and the overburden was generally downward from the overburden to the bedrock within the containment area.

Hydraulic head data is also compared at overburden compliance piezometers CPZ-1, CPZ-3, CPZ-5, CPZ-7, and CPZ-9 and adjacent bedrock piezometers CPZ-1R, CPZ-3R, CPZ-5R, CPZ-7R, and CPZ-9R. Monitoring indicates that the gradient was generally upward from the bedrock to the overburden in the vicinity of the pumping wells and the hydraulic barrier wall throughout the period covered by this DCR.

2.1.2 RGT-2 Results

To confirm that groundwater flow is reversed and maintained in the direction of the groundwater extraction wells, hydraulic head measurements were collected weekly at eight fully penetrating overburden compliance piezometers (CPZ-1 2A, 3, 4A, 5, 6, 7, and 8). Compliance piezometers (CPZ-9 and 10) were removed from RGT-2 because CPZ-9 was abandoned in December 2009. As stated in the DCP, the hydraulic gradient is considered reversed and inward across the hydraulic barrier wall when the hydraulic head data measured at each compliance piezometer located inside the hydraulic barrier wall (CPZ-1, CPZ-3, CPZ-5 and CPZ-7) is at least 0.3 ft lower than the head measured at the corresponding compliance piezometer located outside the hydraulic barrier wall (CPZ-2A, CPZ-4A, CPZ-6, and CPZ-8, respectively).

Based on weekly hydraulic head measurements, the required 0.3 ft head differential was achieved in all four pairs (CPZ-1/CPZ-2A, CPZ-3/CPZ-4A, CPZ-5/CPZ-6, and CPZ-7/CPZ-8) for 30 of the 52 weekly monitoring rounds during the monitoring period. Compliance piezometer pairs CPZ-5/CPZ-6 and CPZ-7/CPZ-8 met the 0.3 ft head differential during the entire monitoring period. Compliance piezometer pairs CPZ-1/2A and CPZ-3/CPZ-4A did not achieve the required 0.3-ft differential on 9 and 22 weekly gauging rounds, respectively, during the monitoring period. Table 5 provides a summary of RGT-2 test results and highlights the weeks the required head differential was not maintained between CPZ-1/2A and CPZ-3/4A. The cause of the loss of hydraulic gradient reversal at these two compliance pairs is believed to be a result of excessively dry site conditions due to low precipitation, and a substantial localized elevation decrease in the overburden water table outside of the sheet pile wall. In addition, both compliance piezometers on the inside of the hydraulic barrier wall have poor hydraulic connectivity to the adjacent recovery wells.

Both the nearby recovery wells and Piezometers CPZ-1 and CPZ-3 have undergone redevelopment to improve hydraulic gradient reversal and hydraulic connectivity during previous periods when hydraulic gradient reversal standards were not met. These previous activities were not successful in improving hydraulic connectivity and hydraulic gradient reversal, but additional redevelopment work will be scheduled if this issue continues to persist.

To verify the continuity of gradient reversal, daily hydraulic head measurements are also recorded by a data logger at compliance piezometers CPZ-5 and CPZ-6. These measurements are collected in 8-hour intervals or three times a day. These measurements demonstrated compliance for the entire monitoring period. A hydrograph of the data logger measurements from compliance pair CPZ-5 and CPZ-6 is presented as Figure 13 for the monitoring period.

A summary of NTCRA-1 non-compliance occurrences between 31 October 2013 and 30 October 2014 is presented below, along with an explanation of the cause and corrective measures taken in response to the non-compliance issue.

NTCRA-1 – Non-Compliance Summary – 31 October 2013 to 30 October 2014		
Date & No. of Days	**Cause**	**Corrective Actions**
6-16 November 2013 (11 days)	Hydraulic Gradient Reversal between compliance piezometers CPZ-3/4A not maintained	No corrective action. Root cause is believed to be a result of excessively dry site conditions due to low precipitation, and a substantial localized elevation decrease in the overburden water table outside of the sheet pile wall.
26-29 November 2013 (4 days)	Hydraulic Gradient Reversal between compliance piezometers CPZ-3/4A not maintained	No corrective action. Root cause is believed to be a result of excessively dry site conditions due to low precipitation, and a substantial localized elevation decrease in the overburden water table outside of the sheet pile wall.
24 June to 31 August 2014 (69 days)	Hydraulic Gradient Reversal between compliance piezometers CPZ-3/4A not maintained	No corrective action. Root cause is believed to be a result of excessively dry site conditions due to low precipitation, and a substantial localized elevation decrease in the overburden water table outside of the sheet pile wall.
1 September to 30 October 2014 (60 days)	Hydraulic Gradient Reversal between compliance piezometers CPZ-1/2A and CPZ-3/4A not maintained	No corrective action. Root cause is believed to be a result of excessively dry site conditions due to low precipitation, and a substantial localized elevation decrease in the overburden water table outside of the sheet pile wall.

2.2 NTCRA-2 CONTAINMENT SYSTEM MONITORING

The satisfactory performance of the NTCRA-2 hydraulic containment system is verified through two containment tests that compare hydraulic head measurements in NTCRA-2. The specific locations used for hydraulic head comparisons are presented in Subsections 2.2.1 and 2.2.2. The containment tests are:

- **Containment Test Part 1 (CT-1)**: Confirms that within the NTCRA-2 containment area, bedrock groundwater east and downgradient of the operations area is flowing in the direction of the hydraulic containment system.

- **Containment Test Part 2 (CT-2)**: Confirms that bedrock groundwater flow downgradient of the NTCRA-2 extraction system within the containment area is reversed and maintained in the direction of the hydraulic containment system.

2.2.1 CT-1 Results

To confirm that VOC-impacted bedrock groundwater east and downgradient of the operations area and within the containment area is flowing in the direction of the extraction wells, hydraulic head measurements were obtained at the following pairs of wells/piezometers located upgradient of the hydraulic containment system:

- Shallow bedrock – MW-704R and MW-121A
- Deep Bedrock – MW-704DR and MW-705DR

The hydraulic gradient is considered to be towards the extraction wells when the hydraulic head measured at the shallow (MW-704R) and deep (MW-704DR) bedrock monitoring wells, located adjacent to extraction wells RW-13, RW-1R, and RW-14, is lower than hydraulic head measurements at wells MW-121A and MW-705DR, respectively.

Monthly rounds of hydraulic head data measurements collected from 31 October 2013 to 30 October 2014 are presented in Table 1. The resulting contour maps for shallow bedrock and deep bedrock monitoring wells and piezometers are presented as contours on Figures 1B through 12B and Figures 1C through 12C, respectively. The contours indicate that groundwater flow in the shallow and deep bedrock is inward toward the NTCRA-2 extraction wells, fulfilling Containment Test Requirement No.1.

2.2.2 CT-2 Results

To confirm that bedrock groundwater flow downgradient of the extraction system within the containment area is reversed and maintained in the direction of the extraction wells, hydraulic head measurements were obtained at the following locations:

- Shallow bedrock – MW-704R, MW-204A, PZR-2R, and PZR-4R
- Deep Bedrock – MW-704DR, PZR-2DR, and PZR-4DR

The hydraulic gradient is considered reversed and inward toward the containment area when the hydraulic head measured at the shallow and deep bedrock monitoring wells MW-704R and MW-704DR, which are located adjacent to extraction wells RW-13, RW-1R, and RW-14, is lower than the hydraulic head measurements at the remaining shallow and deep bedrock monitoring wells and piezometers listed above. Measurements taken at these locations are presented in Table 1 and as groundwater contours in Figures 1B through 12B and 1C through 12C.

To verify the continuity of gradient reversal, daily hydraulic head measurements are recorded via a data logger at the following locations:

- Shallow bedrock – MW-704R and PZR-2R
- Deep Bedrock – MW-704DR and PZR-2DR

Daily hydraulic head measurements recorded via data loggers installed in NTCRA-2 compliance pairs MW-704R and PZR-2R (shallow bedrock) and MW-704DR and PZR-2DR (deep bedrock) indicated that the NTCRA-2 containment system met CT-2 for the entire monitoring period. There were no periods when gradient reversal was not maintained.

Hydrographs of the data logger measurements obtained for shallow and deep bedrock compliance points between 31 October 2013 and 30 October 2014 are included as Figures 14A and 14B, respectively.

2.3 TREATMENT SYSTEM MONITORING

HCTS influent and effluent flow measurements and laboratory analytical data were obtained during the monitoring period. The flow and analytical data are presented and discussed in Subsections 2.3.1 and 2.3.2, respectively.

2.3.1 HCTS Influent and Effluent Flow Data

The influent and effluent flow rates of the groundwater treatment system were each recorded continuously using an in-line totalizing flow meter and strip chart recorder. The NTCRA-1 and NTCRA-2 recovery wells ran continuously throughout the monitoring period, with the exception of minor shutdowns during maintenance, individual recovery well failures, or HCTS alarm shutdowns. NTCRA-2 recovery wells RW-13&14 were redeveloped twice in January and October 2014 to maintain drawdown and groundwater hydraulic control during the monitoring period.

Approximately 19,900,000 gallons of groundwater were extracted, treated, and discharged during the monitoring period. Refer to Table 2 for a summary of influent and effluent flow rates and totals. Throughout the period covered in this report, the system treated and discharged an average of 37.9 gallons per minute.

2.3.2 HCTS Influent and Effluent Analytical Data

Samples of groundwater treatment system influent and effluent were collected twice per month and analyzed for metals, VOCs, alcohols and total suspended solids. For the process effluent, the first round each month was also analyzed for total PCBs. Once every quarter, additional effluent samples were collected and tested for dioxins/furans. Analytical results from the influent and effluent sampling are summarized in Tables 3 and 4, respectively. In Table 4, the effluent sampling results are compared with the discharge limits established by the CTDEP in the Substantive Requirements for Discharge, dated 6 November 1995. As shown in Table 4, the treatment system effluent water quality was below discharge limits for the monitoring period.

In addition to the analyses discussed previously, effluent samples were collected and submitted for acute and chronic toxicity analysis in January, April, July, and October 2014. The submitted effluent samples passed the acute and chronic toxicity test for both Daphnia Pulex and fathead minnows.

Process influent and effluent sampling for 1,4-dioxane was monitored quarterly during the monitoring period to collect additional data concerning this compound. Currently, no discharge limit exists for 1,4-dioxane. Quarterly sample results for the year are presented below.

SRSNE - 1,4-Dioxane Sampling Summary		
Date	**Influent (ppb)**	**Effluent (ppb)**
7-Jan-14	35.0	22.0
1-Apr-14	37.5	15.0
8-Jul-14	47.2	6.7
1-Oct-14	51.0	18.0

3. HYDRAULIC CONTAINMENT AND TREATMENT SYSTEM (HCTS) OPERATIONS AND MAINTENANCE SUMMARY

The HCTS O&M summary is divided into two sections. Subsection 3.1 highlights the major O&M related activities performed between 31 October 2013 and 30 October 2014, and Subsection 3.2 discusses O&M issues that are on-going or anticipated during the future activities at the site.

3.1 OPERATIONS AND MAINTENANCE SUMMARY

The following briefly describes highlighted HCTS operations and maintenance activities or capital improvements conducted during the reporting period.

1. **November 2013 – NTCRA-2 Improvements**: It was agreed to with Group representatives to move forward with improvements to the NTCRA-2 recovery well system. The improvements would add one additional NTCRA-2 overburden recovery well (RW-15) to ensure target flows could be maintained with one well out of service. Upgrades would be made to the NTCRA-2 forcemain to expand its capacity and allow for improved maintenance. Specific activities are further discussed in this section of the report.

2. **November 2013 – NTCRA-2 Forcemain Cleaning**: It was determined that the NTCRA-2 forcemain was restricting flow from the NTCRA-2 recovery wells. The existing forcemain construction is not equipped with cleanouts. Cleaning was performed from the end of the line at RW-13 and the treatment plant building. The overall forcemain is approximately 1,300 Linear Feet (LF). The November cleaning activities were only able to clean approximately 250 ft from each end. However the partial cleaning was successful in reducing the head loss and maintaining target NTCRA-2 flow. As part of the NTCRA-2 improvements discussed above, one of the two spare forcemains will be placed into service and cleanouts will be added as part of the work.

3. **November 2013 – SCADA Computer Upgrade**: The existing Supervisory Control and Data Acquisition (SCADA) computer had reached the end of its useful life. This computer is employed to control the operation of the HCTS system. The SCADA computer and control software was replaced

4. **December 2013 – NTCRA-2 Buried Electrical Service Modifications**: The NTCRA-2 improvements would require installation of a new valve vault in the NTCRA-2 area, which would allow a second or future third forcemain to be placed in service between this new vault and the treatment plant building. In order to perform this work, the NTCRA-2 Electrical Service would require to be relocated out of the work area. Approximately 200 LF of a new buried electrical service installed in 3-inch PVC conduit was installed with access points on each end to enable the vault work to be performed.

5. **January 2014 – NTCRA-2 (RW-13 & 14) Well Redevelopment**: Both NTCRA-2 Recovery wells were redeveloped during the month of January. Well RW-13 was redeveloped on 15 and 16 January, and RW-14 was redeveloped on 17 and 20 January.

6. **January 2014 – Treatment Building NTCRA-2 Manifold Construction**: WESTON constructed the manifold at the treatment building to accept flow from all three NTCRA-2 forcemains. Only one of the two spare forcemains is anticipated to be placed into service, but the valve manifold was constructed to accept flow from all three forcemains for the future.

7. **January 2014 – Sand Filter Airlift pump Replacement**: The sand filter had several alarms in December 2013 and early January 2014. The airlift was removed from the sand filter and found to be worn, with holes in the riser pipe. A new air lift was ordered and subsequently installed in late January to address this issue.

8. **February & March 2014 – NTCRA-1 Hermit Data Logger (CPZ-5&6)**: The data logger stopped operating during the month of February. This issue was not discovered until the data logger was downloaded at the end of the month. It was confirmed that the battery was no longer operating. A replacement battery for the data logger was installed in early March to restore the data logger operation to normal.

9. **March & April 2014 – NTCRA-2 Recovery Well Valve Vault Installation**: During this period, WESTON installed the new NTCRA-2 Recovery Well Valve Vault. The major tasks performed were: excavation of the three forcemains, installation of the new valve manifold and forcemain cleanouts, and placement of the reinforced concrete vault. During this activity, the existing forcemain was also cleaned to eliminate the flow restriction. When this work was completed in early April, two of the three forcemains could be placed into service between the vault and the treatment plant building, and the new service to the proposed new Recovery Well (RW-15) was extended towards the new recovery well.

10. **May 2014 – NTCRA-2 Electrical/Alarm Service Upgrade**: In order to support the addition of a new recovery well, the electrical service to the NTCRA-2 well field required upgrades. During the month of May 2014, WESTON installed a second electrical feed in a spare 3-inch-diameter PVC conduit between the treatment building and the recently constructed valve vault. We also constructed a new 3-inch PVC conduit and installed both the existing and second new service between the valve vault electrical junction box and NTCRA-2 control center. Additional work will be required at both the treatment plant area and NCTRA-2 control center to complete the electrical service improvements prior to placing the new recovery well in service.

11. **May-July 2014 – RW15 Technical Work Plan**: A draft Technical Work Plan was submitted for design, installation, and testing of the proposed new NTCRA-2 Overburden Recovery Well (RW-15) to EPA in late May 2014. Comments were

received, and a revised plan was submitted and approved in late July 2014, allowing for construction of the new recovery well to proceed.

12. **August 2014 – Recovery Well RW-15 Pilot Hole**: The pilot boring for the proposed new recovery well was performed in August. During pilot boring work, samples were collected and analysis was performed for design of the new recovery well.

13. **August 2014 – Recovery Well RW 14 Flowmeter Replacement**: During regular inspections, WESTON confirmed that the flow meter at this recovery well stopped working. To restore operation to normal, the flow meter was replaced with a new unit.

14. **September 2014 – NTCRA-2 Electrical Service Upgrade**: In September, the NTCRA-2 electrical service modifications were completed. This work included installation of a second NTCRA-2 electrical service disconnect at both the building and the control panel cluster adjacent to the wells. As part of this work, Recovery Well RW-1R power was relocated to the second electrical service feed along with the proposed new recovery well (RW-15).

15. **September 2014 – Gravity Pipe Cleaning**: In order to maintain acceptable treatment system hydraulic throughput, WESTON cleaned the metals precipitation gravity piping. All gravity piping between the clarifier feed tank and sand filter was cleaned during each event.

16. **September 2014 – Equalization Tank and Oxidation Feed Tank Mixer Cleaning**: The water levels in each tank were lowered and their respective mixers cleaned as part of scheduled preventive maintenance to ensure continued satisfactory operation.

17. **September 2014 – Clarifier Feed, Flash Mix and Flocculation Tanks and Mixer Cleaning**: Each tank was dewatered and manways removed to gain access to the tanks and mixers. Settled solids and scale were removed from both the tanks and mixers. Approximately one drum of solids was removed from the three tanks during the maintenance event.

18. **September 2014 – Sludge Transfer Pump P-900**: The sludge transfer pump was leaking at the unions on the pump suction and discharge line. New unions were purchased and installed on the pump to stop the leaks.

19. **September 2014 – NTCRA-2 and Combined Influent Line and Flow Meter cleaning**: Excessive pressure drop was observed across the NTCRA-2 flow meter. The flow meter was removed and cleaned to reduce the head loss. While the flow meter was removed, all in-plant NTCRA-2 influent piping as well as the combined influent piping between the NTCRA-1/2 junction and the equalization tank, including the combined HCTS influent flow meter, were also cleaned.

20. **October 2014 – Recovery Well RW-15**: The new recovery well was installed and developed in October. The forcemain between the new NTCRA-2 valve vault was also installed and tested.

21. **October 2014 – NTCRA-2 Recovery Well Development**: Both existing NTCRA-2 recovery wells (RW-13 &14) were redeveloped during the month of October. RW-14 was redeveloped between 1 and 3 October. RW-13 was redeveloped between 6 and 8 October.

22. **Ultraviolet Oxidation System**: The following summarizes the major maintenance performed on the UV Equipment during the monitoring period:

    - Three (3) UV lamps were replaced during the reporting period. All lamps were removed or replaced due to failure, excessive amperage draw, or excessive hours.

    - Two (2) quartz tubes were replaced during the reporting period.

During the monitoring period, no additional UV reactor circuits failed. At the end of this monitoring period, UV-1 has 8 of 12 functional reactor circuits, and UV- 2 has 6 of 12 functional circuits.

3.2 FUTURE HCTS OPERATIONS AND MAINTENANCE ACTION ITEMS

WESTON will continue to evaluate the overall HCTS and make recommendations for process improvements or modifications in the coming year. These recommendations will be summarized in the monthly O&M HCTS report submissions. The following improvements are planned or being considered during the next DCR period.

- Because of the excessive time out of compliance, NTCRA-1 Compliance Piezometers have not demonstrated hydraulic gradient reversal. WESTON will redevelop both CPZ-1 and CPZ-3 to try and improve hydraulic connectivity to nearby recovery wells. This has been attempted in the past, but will be performed again in response to the extended period compliance was not maintained. If this activity is not successful, Recovery Wells RW-7 and RW-12 will be redeveloped to try to improve hydraulic gradient reversal between CPZ-1/2A and CPZ-3/4A.

- In November 2014, construction will be completed for Recovery Well RW-15 and placed into service. A completion report will be prepared for RW-15 following placement of the recovery well into service.

- Installation of a magnetic-type flow meter for the NTCRA-2 influent will be performed to eliminate excessive fouling concerns and maintenance.

Hydraulic Head Measurements End of Month Gauging

DRAFT

Measuring Location	Location Elevation	26-Nov-13		27-Dec-13		28-Jan-14		26-Feb-14	
		Depth to Water	*Water Elevation*	*Depth to Water*	*Water Elevation*	*Depth to Water*	*Water Elevation*	*Depth to Water*	*Water Elevation*
CPZ-1	159.64	12.90	146.74	11.18	148.46	10.03	149.61	10.57	149.07
CPZ-1R	161.12	7.99	153.13	5.15	155.97	2.95	158.17	3.11	158.01
CPZ-2	158.64	9.98	148.66	7.80	150.84	5.68	152.96	5.78	152.86
CPZ-2A	158.82	9.82	149.00	7.58	151.24	5.33	153.49	5.38	153.44
CPZ-2R	160.97	7.87	153.10	5.04	155.93	0.71	160.26	2.58	158.39
CPZ-3	159.21	12.81	146.40	12.96	146.25	10.99	148.22	11.41	147.80
CPZ-3R	160.70	11.52	149.18	10.18	150.52	8.21	152.49	8.88	151.82
CPZ-4	158.80	12.93	145.87	9.65	149.15	8.82	149.98	8.88	149.92
CPZ-4A	159.44	12.79	146.65	10.64	148.80	9.38	150.06	9.59	149.85
CPZ-4R	158.76	10.31	148.45	8.72	150.04	6.56	152.20	7.15	151.61
CPZ-5	158.68	19.11	139.57	18.21	140.47	18.24	140.44	18.12	140.56
CPZ-5R	158.30	14.51	143.79	13.73	144.57	13.84	144.46	13.28	145.02
CPZ-6	154.48	6.29	148.19	4.93	149.55	5.43	149.05	4.81	149.67
CPZ-6A	158.05	9.82	148.23	8.45	149.60	8.89	149.16	8.20	149.85
CPZ-6R	154.39	8.32	146.07	6.75	147.64	6.70	147.69	6.36	148.03
CPZ-7	159.40	12.70	146.70	12.56	146.84	12.88	146.52	12.38	147.02
CPZ-7R	158.58	6.88	151.70	5.51	153.07	3.89	154.69	4.24	154.34
CPZ-8	160.11	7.18	152.93	6.23	153.88	6.41	153.70	6.09	154.02
CPZ-8R	160.62	8.96	151.66	7.68	152.94	7.48	153.14	7.36	153.26
CPZ-10	163.44	7.58	155.86	6.31	157.13	6.22	157.22	6.15	157.29
CPZ-10R	162.98	6.90	156.08	4.52	158.46	2.98	160.00	3.73	159.25
MW-121A	152.96	8.28	144.68	6.82	146.14	6.49	146.47	6.40	146.56
MW-125A	157.87	4.35	153.52	3.30	154.57	3.20	154.67	3.08	154.79
MW-125C	156.30	9.86	146.44	8.78	147.52	8.56	147.74	8.50	147.80
MW-204A	150.78	6.38	144.40	4.89	145.89	4.97	145.81	4.75	146.03
MW-415	160.75	10.03	150.72	8.98	151.77	8.60	152.15	8.11	152.64
MW-416	159.98	12.22	147.76	11.47	148.51	10.66	149.32	10.63	149.35
MW-704D	150.98	7.18	143.80	5.71	145.27	5.75	145.23	5.61	145.37
MW-704M	152.34	9.30	143.04	7.78	144.56	7.90	144.44	7.69	144.65
MW-704R	153.23	10.87	142.36	9.23	144.00	9.06	144.17	8.45	144.78
MW-704DR	152.84	61.60	91.24	59.99	92.85	60.58	92.26	53.88	98.96
MW-705DR	160.99	7.35	153.64	5.98	155.01	4.42	156.57	4.90	156.09
MWL-302	161.60	8.11	153.49	7.38	154.22	7.44	154.16	7.45	154.15
MWL-304	159.90	12.14	147.76	11.40	148.50	10.71	149.19	10.41	149.49
MWL-305	159.01	9.31	149.70	9.36	149.65	9.04	149.97	8.58	150.43
MWL-306	155.39	7.21	148.18	4.95	150.44	6.22	149.17	4.35	151.04
MWL-307	159.14	8.62	150.52	7.56	151.58	7.11	152.03	6.73	152.41
MWL-308	158.63	8.67	149.96	6.25	152.38	6.27	152.36	5.55	153.08
MWL-309	155.20	6.14	149.06	3.80	151.40	4.63	150.57	3.18	152.02
MWL-311	157.33	11.46	145.87	6.15	151.18	6.79	150.54	6.51	150.82
P-5A	157.61	11.68	145.93	10.37	147.24	10.30	147.31	10.10	147.51
P-5B	158.39	6.78	151.61	5.04	153.35	5.96	152.43	4.81	153.58
P-6	153.78	7.36	146.42	5.92	147.86	6.16	147.62	5.67	148.11
PZR-2R	153.78	8.92	144.86	7.61	146.17	7.33	146.45	7.38	146.40
PZR-2DR	154.67	9.81	144.86	8.58	146.09	8.26	146.41	8.32	146.35
PZR-4R	153.72	8.69	145.03	7.18	146.54	6.62	147.10	6.81	146.91
PZR-4DR	152.73	4.75	147.98	3.25	149.48	1.30	151.43	1.72	151.01
RW-1	157.61	19.88	137.73	18.04	139.57	16.55	141.06	18.12	139.49
RW-2	156.49	21.50	134.99	22.20	134.29	21.55	134.94	21.16	135.33
RW-3	157.35	17.44	139.91	18.07	139.28	16.95	140.40	16.26	141.09
RW-4	158.21	16.18	142.03	15.13	143.08	15.26	142.95	15.82	142.39
RW-7	157.09	17.46	139.63	17.26	139.83	17.55	139.54	17.04	140.05
RW-8	156.95	19.04	137.91	18.10	138.85	17.29	139.66	18.27	138.68
RW-9	156.72	18.28	138.44	18.36	138.36	17.57	139.15	17.34	139.38
RW-10	156.13	17.96	138.17	17.97	138.16	17.70	138.43	18.22	137.91
RW-11	157.82	17.49	140.33	16.88	140.94	17.88	139.94	17.90	139.92
RW-12	158.36	20.55	137.81	20.92	137.44	20.41	137.95	21.91	136.45
RW-13	151.64	55.30	96.34	46.03	105.61	38.51	113.13	37.27	114.37
RW-14	151.71	14.02	137.69	12.38	139.33	10.08	141.63	9.88	141.83
RW-1R	149.77	73.30	76.47	73.65	76.12	72.36	77.41	72.06	77.71
TW-7A	158.72	7.81	150.91	6.70	152.02	7.09	151.63	6.55	152.17
MW-702DR	181.38	24.09	157.29	20.14	161.24	21.16	160.22	20.10	161.28
P-8A	181.26	24.23	157.03	20.11	161.15	21.10	160.16	20.08	161.18
MW-707D	156.09	10.49	145.60	9.56	146.53	9.51	146.58	9.37	146.72
MW-707R	156.01	10.90	145.11	9.70	146.31	9.61	146.40	9.31	146.70
MW-707DR	156.80	11.95	144.85	10.74	146.06	10.48	146.32	10.41	146.39
PZ-02D	154.14	8.96	145.18	7.68	146.46	7.54	146.60	7.45	146.69
PZ-O2M	154.77	9.43	145.34	8.18	146.59	8.04	146.73	7.98	146.79
MW-3	153.79	8.24	145.55	7.38	146.41	7.24	146.55	7.09	146.70
MW-708R	224.95	76.60	148.35	76.41	148.54	76.50	148.45	76.38	148.57
MW-708DR	224.19	77.01	147.18	76.90	147.29	77.12	147.07	76.50	147.69
PZ-906DR	155.85	3.71	152.14	3.45	152.40	3.47	152.38	3.39	152.46

Hydraulic Head Measurements End of Month Gauging

DRAFT

[redacted]

Measuring Location	Location Elevation	24-Mar-14		28-Apr-14		28-May-14		27-Jun-14	
		Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
CPZ-1	159.64	8.85	150.79	7.39	152.25	7.26	152.38	7.54	152.10
CPZ-1R	161.12	2.98	158.14	2.96	158.16	2.94	158.18	2.99	158.13
CPZ-2	158.64	4.46	154.18	3.45	155.19	3.56	155.08	6.09	152.55
CPZ-2A	158.82	4.09	154.73	3.03	155.79	3.15	155.67	5.71	153.11
CPZ-2R	160.97	0.32	160.65	0.40	160.57	1.78	159.19	2.73	158.24
CPZ-3	159.21	10.77	148.44	10.01	149.20	9.12	150.09	9.94	149.27
CPZ-3R	160.70	7.10	153.60	5.31	155.39	5.13	155.57	7.61	153.09
CPZ-4	158.80	7.28	151.52	6.21	152.59	6.90	151.90	9.68	149.12
CPZ-4A	159.44	8.51	150.93	7.70	151.74	7.97	151.47	9.92	149.52
CPZ-4R	158.76	5.85	152.91	4.76	154.00	4.86	153.90	6.90	151.86
CPZ-5	158.68	18.34	140.34	16.75	141.93	16.88	141.80	17.40	141.28
CPZ-5R	158.30	12.86	145.44	10.15	148.15	10.26	148.04	12.33	145.97
CPZ-6	154.48	4.34	150.14	3.80	150.68	4.16	150.32	5.24	149.24
CPZ-6A	158.05	7.78	150.27	7.23	150.82	7.42	150.63	8.81	149.24
CPZ-6R	154.39	5.55	148.84	4.96	149.43	5.06	149.33	6.57	147.82
CPZ-7	159.40	11.77	147.63	10.82	148.58	10.96	148.44	11.59	147.81
CPZ-7R	158.58	2.47	156.11	0.51	158.07	0.65	157.93	3.22	155.36
CPZ-8	160.11	6.02	154.09	5.82	154.29	5.88	154.23	6.21	153.90
CPZ-8R	160.62	6.99	153.63	6.51	154.11	6.73	153.89	7.62	153.00
CPZ-10	163.44	6.13	157.31	6.04	157.40	6.01	157.43	6.13	157.31
CPZ-10R	162.98	2.13	160.85	1.58	161.40	1.75	161.23	3.90	159.08
MW-121A	152.96	5.63	147.33	5.10	147.86	4.83	148.13	6.49	146.47
MW-125A	157.87	2.78	155.09	2.32	155.55	2.02	155.85	3.32	154.55
MW-125C	156.30	7.95	148.35	7.02	149.28	7.31	148.99	8.28	148.02
MW-204A	150.78	4.02	146.76	3.58	147.20	3.42	147.36	4.62	146.16
MW-415	160.75	7.51	153.24	4.38	156.37	4.12	156.63	6.01	154.74
MW-416	159.98	9.77	150.21	7.48	152.50	7.19	152.79	8.22	151.76
MW-704D	150.98	4.84	146.14	4.31	146.67	4.26	146.72	5.64	145.34
MW-704M	152.34	5.71	146.63	6.40	145.94	6.38	145.96	7.77	144.57
MW-704R	153.23	7.01	146.22	7.57	145.66	7.58	145.65	8.98	144.25
MW-704DR	152.84	49.21	103.63	64.30	88.54	63.96	88.88	63.88	88.96
MW-705DR	160.99	3.96	157.03	2.78	158.21	2.72	158.27	4.53	156.46
MWL-302	161.60	7.26	154.34	7.09	154.51	7.15	154.45	7.27	154.33
MWL-304	159.90	9.79	150.11	6.22	153.68	5.85	154.05	8.09	151.81
MWL-305	159.01	7.49	151.52	4.38	154.63	4.72	154.29	6.47	152.54
MWL-306	155.39	4.19	151.20	3.75	151.64	4.77	150.62	7.29	148.10
MWL-307	159.14	6.87	152.27	3.01	156.13	2.85	156.29	4.71	154.43
MWL-308	158.63	5.04	153.59	2.73	155.90	2.70	155.93	4.22	154.41
MWL-309	155.20	3.40	151.80	3.20	152.00	4.11	151.09	7.34	147.86
MWL-311	157.33	5.23	152.10	5.01	152.32	5.69	151.64	8.20	149.13
P-5A	157.61	9.52	148.09	8.60	149.01	8.86	148.75	10.10	147.51
P-5B	158.39	4.68	153.71	4.53	153.86	4.89	153.50	6.34	152.05
P-6	153.78	5.00	148.78	4.42	149.36	4.52	149.26	5.80	147.98
PZR-2R	153.78	6.73	147.05	6.28	147.50	6.32	147.46	7.60	146.18
PZR-2DR	154.67	7.78	146.89	7.21	147.46	7.37	147.30	8.61	146.06
PZR-4R	153.72	5.93	147.79	5.30	148.42	5.12	148.60	7.03	146.69
PZR-4DR	152.73	0.70	152.03	0.00	152.73	0.00	152.73	1.68	151.05
RW-1	157.61	16.44	141.17	21.70	135.91	15.56	142.05	20.06	137.55
RW-2	156.49	22.32	134.17	22.50	133.99	22.61	133.88	21.16	135.33
RW-3	157.35	19.65	137.70	18.89	138.46	20.42	136.93	17.09	140.26
RW-4	158.21	15.64	142.57	15.68	142.53	18.48	139.73	15.08	143.13
RW-7	157.09	14.83	142.26	15.66	141.43	15.35	141.74	17.01	140.08
RW-8	156.95	20.31	136.64	18.96	137.99	19.82	137.13	17.77	139.18
RW-9	156.72	18.93	137.79	18.68	138.04	19.21	137.51	19.02	137.70
RW-10	156.13	18.79	137.34	20.10	136.03	20.18	135.95	18.94	137.19
RW-11	157.82	16.54	141.28	18.80	139.02	18.54	139.28	19.02	138.80
RW-12	158.36	23.82	134.54	22.21	136.15	22.58	135.78	21.04	137.32
RW-13	151.64	31.75	119.89	43.72	107.92	42.09	109.55	42.20	109.44
RW-14	151.71	10.36	141.35	9.51	142.20	9.80	141.91	11.60	140.11
RW-1R	149.77	68.88	80.89	73.04	76.73	72.92	76.85	72.80	76.97
TW-7A	158.72	6.31	152.41	5.95	152.77	5.97	152.75	6.75	151.97
MW-702DR	181.38	12.00	169.38	11.75	169.63	12.48	168.90	19.62	161.76
P-8A	181.26	11.75	169.51	11.60	169.66	11.63	169.63	19.70	161.56
MW-707D	156.09	8.91	147.18	8.52	147.57	8.44	147.65	9.48	146.61
MW-707R	156.01	8.90	147.11	8.42	147.59	8.30	147.71	9.66	146.35
MW-707DR	156.80	9.74	147.06	9.38	147.42	9.45	147.35	10.72	146.08
PZ-02D	154.14	6.90	147.24	6.42	147.72	6.32	147.82	7.73	146.41
PZ-O2M	154.77	7.44	147.33	6.91	147.86	7.02	147.75	8.22	146.55
MW-3	153.79	6.68	147.11	6.28	147.51	6.18	147.61	7.31	146.48
MW-708R	224.95	75.92	149.03	74.80	150.15	74.82	150.13	74.90	150.05
MW-708DR	224.19	75.67	148.52	74.56	149.63	74.60	149.59	74.68	149.51
PZ-906DR	155.85	3.13	152.72	2.92	152.93	2.87	152.98	3.42	152.43

[redacted]

Measuring Location	Location Elevation	28-Jul-14		26-Aug-14		29-Sep-14		28-Oct-14	
		Depth to Water	*Water Elevation*	*Depth to Water*	*Water Elevation*	*Depth to Water*	*Water Elevation*	*Depth to Water*	*Water Elevation*
CPZ-1	159.64	9.71	149.93	10.42	149.22	9.90	149.74	9.77	149.87
CPZ-1R	161.12	4.96	156.16	6.58	154.54	7.53	153.59	7.21	153.91
CPZ-2	158.64	7.48	151.16	8.68	149.96	9.79	148.85	9.42	149.22
CPZ-2A	158.82	7.13	151.69	8.50	150.32	9.61	149.21	9.22	149.60
CPZ-2R	160.97	4.88	156.09	6.52	154.45	7.42	153.55	7.18	153.79
CPZ-3	159.21	10.68	148.53	10.73	148.48	10.82	148.39	10.76	148.45
CPZ-3R	160.70	9.36	151.34	9.82	150.88	10.41	150.29	10.28	150.42
CPZ-4	158.80	10.75	148.05	11.90	146.90	13.04	145.76	12.66	146.14
CPZ-4A	159.44	10.84	148.60	11.88	147.56	12.70	146.74	12.38	147.06
CPZ-4R	158.76	8.12	150.64	9.25	149.51	9.85	148.91	9.65	149.11
CPZ-5	158.68	17.41	141.27	17.66	141.02	17.81	140.87	17.84	140.84
CPZ-5R	158.30	13.01	145.29	13.20	145.10	13.70	144.60	13.18	145.12
CPZ-6	154.48	5.50	148.98	6.16	148.32	6.77	147.71	6.08	148.40
CPZ-6A	158.05	8.91	149.14	9.62	148.43	9.99	148.06	9.37	148.68
CPZ-6R	154.39	7.09	147.30	7.92	146.47	8.36	146.03	7.91	146.48
CPZ-7	159.40	12.98	146.42	11.99	147.41	12.86	146.54	12.22	147.18
CPZ-7R	158.58	4.85	153.73	5.47	153.11	6.17	152.41	5.75	152.83
CPZ-8	160.11	6.28	153.83	6.41	153.70	6.80	153.31	5.80	154.31
CPZ-8R	160.62	7.88	152.74	8.18	152.44	8.79	151.83	7.95	152.67
CPZ-10	163.44	6.30	157.14	6.61	156.83	7.39	156.05	6.32	157.12
CPZ-10R	162.98	4.94	158.04	5.72	157.26	6.71	156.27	5.59	157.39
MW-121A	152.96	6.92	146.04	7.88	145.08	8.37	144.59	7.97	144.99
MW-125A	157.87	3.78	154.09	3.89	153.98	4.35	153.52	3.01	154.86
MW-125C	156.30	9.08	147.22	9.11	147.19	9.59	146.71	9.05	147.25
MW-204A	150.78	5.00	145.78	5.97	144.81	6.36	144.42	5.95	144.83
MW-415	160.75	7.37	153.38	7.71	153.04	8.72	152.03	8.18	152.57
MW-416	159.98	10.19	149.79	10.38	149.60	11.09	148.89	10.92	149.06
MW-704D	150.98	6.02	144.96	6.97	144.01	7.26	143.72	6.99	143.99
MW-704M	152.34	8.01	144.33	8.90	143.44	9.20	143.14	8.91	143.43
MW-704R	153.23	9.09	144.14	10.04	143.19	10.56	142.67	10.16	143.07
MW-704DR	152.84	64.02	88.82	64.74	88.10	65.49	87.35	65.56	87.28
MW-705DR	160.99	5.42	155.57	6.27	154.72	6.97	154.02	6.60	154.39
MWL-302	161.60	7.31	154.29	7.41	154.19	7.75	153.85	6.97	154.63
MWL-304	159.90	9.42	150.48	9.80	150.10	10.91	148.99	10.41	149.49
MWL-305	159.01	7.66	151.35	7.69	151.32	8.88	150.13	8.04	150.97
MWL-306	155.39	7.48	147.91	7.86	147.53	8.32	147.07	2.60	152.79
MWL-307	159.14	5.99	153.15	6.42	152.72	7.30	151.84	6.96	152.18
MWL-308	158.63	5.42	153.21	5.70	152.93	7.52	151.11	5.93	152.70
MWL-309	155.20	8.98	146.22	10.02	145.18	12.16	143.04	3.84	151.36
MWL-311	157.33	8.97	148.36	10.08	147.25	12.30	145.03	10.03	147.30
P-5A	157.61	10.78	146.83	11.11	146.50	11.39	146.22	11.08	146.53
P-5B	158.39	6.32	152.07	6.55	151.84	6.78	151.61	5.30	153.09
P-6	153.78	6.13	147.65	6.91	146.87	7.31	146.47	7.01	146.77
PZR-2R	153.78	7.97	145.81	8.67	145.11	9.01	144.77	8.57	145.21
PZR-2DR	154.67	8.92	145.75	9.48	145.19	10.01	144.66	9.59	145.08
PZR-4R	153.72	7.68	146.04	8.42	145.30	8.90	144.82	8.34	145.38
PZR-4DR	152.73	2.64	150.09	3.62	149.11	4.25	148.48	4.03	148.70
RW-1	157.61	18.50	139.11	17.44	140.17	17.96	139.65	17.66	139.95
RW-2	156.49	19.88	136.61	21.88	134.61	21.44	135.05	21.77	134.72
RW-3	157.35	18.08	139.27	19.04	138.31	17.86	139.49	18.27	139.08
RW-4	158.21	16.16	142.05	16.26	141.95	18.02	140.19	15.80	142.41
RW-7	157.09	17.96	139.13	17.16	139.93	17.13	139.96	16.96	140.13
RW-8	156.95	18.40	138.55	18.09	138.86	17.96	138.99	19.04	137.91
RW-9	156.72	19.06	137.66	17.47	139.25	18.77	137.95	18.86	137.86
RW-10	156.13	17.04	139.09	19.08	137.05	19.12	137.01	19.64	136.49
RW-11	157.82	18.44	139.38	17.97	139.85	17.90	139.92	19.51	138.31
RW-12	158.36	20.03	138.33	20.04	138.32	18.77	139.59	20.56	137.80
RW-13	151.64	41.09	110.55	50.10	101.54	49.93	101.71	33.55	118.09
RW-14	151.71	11.86	139.85	16.60	135.11	16.01	135.70	10.91	140.80
RW-1R	149.77	73.24	76.53	73.64	76.13	73.11	76.66	73.20	76.57
TW-7A	158.72	6.75	151.97	7.18	151.54	7.70	151.02	6.58	152.14
MW-702DR	181.38	21.48	159.90	21.51	159.87	21.60	159.78	20.51	160.87
P-8A	181.26	19.62	161.64	19.86	161.40	19.94	161.32	19.80	161.46
MW-707D	156.09	9.75	146.34	10.31	145.78	10.62	145.47	10.25	145.84
MW-707R	156.01	10.00	146.01	10.65	145.36	11.04	144.97	10.60	145.41
MW-707DR	156.80	11.14	145.66	11.78	145.02	12.12	144.68	11.70	145.10
PZ-02D	154.14	8.10	146.04	8.80	145.34	9.12	145.02	8.65	145.49
PZ-O2M	154.77	8.60	146.17	9.28	145.49	9.63	145.14	9.19	145.58
MW-3	153.79	7.59	146.20	8.18	145.61	9.91	143.88	8.07	145.72
MW-708R	224.95	75.96	148.99	75.98	148.97	76.03	148.92	76.00	148.95
MW-708DR	224.19	75.70	148.49	75.77	148.42	75.88	148.31	75.70	148.49
PZ-906DR	155.85	5.68	150.17	5.70	150.15	5.82	150.03	6.02	149.83

TABLE 2

31 October 2013 through 30 October 2014

Influent and Effluent GWCT System Flow Data Summary

Date	Influent Flow Summary (NCTRA 1 and 2 Combined)			NCTRA-1 Flow Summary	NCTRA-2 Flow Summary			Effluent Flow Summary (NTCRA 1 and 2 Combined)		
	Total Cumulative Flow (gallons)	*Total Flow Since Previous (gallons)*	*Avg. Rate Since Prev. (GPM)*	*Avg. Rate Since Prev. (GPM)*	*Total Cumulative Flow (gallons)*	*Total Flow Since Previous (gallons)*	*Avg. Rate Since Prev. (GPM)*	*Total Cumulative Flow (gallons)*	*Total Flow Since Previous (gallons)*	*Avg. Rate Since Prev. (GPM)*
10/30/2013	248,297,000	1,567,000	36.3	2.9	128,933,560	1,440,900	33.4	263,426,000	1,626,000	37.6
11/30/2013	249,920,000	1,623,000	36.4	2.1	130,461,560	1,528,000	34.2	265,112,000	1,686,000	37.8
12/31/2013	251,416,000	1,496,000	33.5	2.5	131,844,360	1,382,800	31.0	266,660,000	1,548,000	34.7
1/31/2014	252,861,000	1,445,000	32.4	3.4	133,139,360	1,295,000	29.0	268,148,000	1,488,000	33.3
2/28/2014	254,303,000	1,442,000	35.8	2.6	134,476,160	1,336,800	33.2	269,645,000	1,497,000	37.1
3/31/2014	255,856,000	1,553,000	34.8	3.2	135,886,260	1,410,100	31.6	271,251,000	1,606,000	36.0
4/30/2014	257,565,000	1,709,000	39.6	7.8	137,256,360	1,370,100	31.7	273,020,000	1,769,000	40.9
5/30/2014	259,410,000	1,845,000	42.7	11.3	138,611,360	1,355,000	31.4	274,931,000	1,911,000	44.2
6/30/2014	261,158,000	1,748,000	39.2	6.9	140,051,260	1,439,900	32.3	276,756,000	1,825,000	40.9
7/31/2014	262,762,000	1,604,000	35.9	4.8	141,442,260	1,391,000	31.2	278,420,000	1,664,000	37.3
8/29/2014	264,390,000	1,628,000	39.0	3.0	142,945,240	1,502,980	36.0	280,097,000	1,677,000	40.2
9/30/2014	266,002,000	1,612,000	35.0	2.8	144,429,060	1,483,820	32.2	281,751,000	1,654,000	35.9
10/30/2014	267,545,000	1,543,000	35.7	2.5	145,864,160	1,435,100	33.2	283,326,000	1,575,000	36.5
Yearly Averages [1]			**36.6**	**4.4**			**32.2**			**37.9**
Cumulative Totals:	**267,545,000**	**19,248,000**			**145,864,160**	**16,930,600**		**283,326,000**	**19,900,000**	

Notes:

1: The average yearly flows are calculated by dividing the total cumulative annual flow by the duration in minutes.

Table 3

November 2013

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	11/8/2013	**11/21/2013**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.001
Tetrachloroethene (mg/L)	<0.01	<0.001
Toluene (mg/L)	0.56	0.005
Ethylbenzene (mg/L)	0.12	0.001
Xylenes, Total (mg/L)	0.1	<0.001
Vinyl chloride (mg/L)	0.16	0.004
1,1-Dichloroethene (mg/L)	<0.01	<0.001
Tetrahydrofuran (mg/L)	<0.50	<0.050
1,2-Dichloroethene[1] (mg/L)	0.09	0.002
1,2-Dichloroethane (mg/L)	<0.01	<0.001
1,1,1-Trichloroethane (mg/L)	<0.01	<0.001
1,1,2-Trichloroethane (mg/L)	<0.01	<0.001
Methylene chloride (mg/L)	<0.01	0.001
Styrene (mg/L)	<0.01	<0.001
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.050
Total VOCs[2]	**1.03**	**0.013**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	9.64	3.67
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

December 2013

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	12/3/2013	**12/18/2013**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	0.001	<0.001
Tetrachloroethene (mg/L)	<0.001	<0.001
Toluene (mg/L)	0.053	0.006
Ethylbenzene (mg/L)	0.008	0.001
Xylenes, Total (mg/L)	0.009	0.001
Vinyl chloride (mg/L)	0.037	0.004
1,1-Dichloroethene (mg/L)	<0.001	<0.001
Tetrahydrofuran (mg/L)	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	0.017	0.002
1,2-Dichloroethane (mg/L)	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	<0.001	<0.001
1,1,2-Trichloroethane (mg/L)	<0.001	<0.001
Methylene chloride (mg/L)	0.001	<0.001
Styrene (mg/L)	<0.001	<0.001
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.050	<0.050
Total VOCs[2]	**0.126**	**0.014**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	3.81	7.28
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

January 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	1/7/2014	**1/23/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	0.001	<0.01
Tetrachloroethene (mg/L)	<0.001	<0.01
Toluene (mg/L)	0.177	1.26
Ethylbenzene (mg/L)	0.054	0.41
Xylenes, Total (mg/L)	0.042	0.32
Vinyl chloride (mg/L)	0.072	0.41
1,1-Dichloroethene (mg/L)	<0.001	<0.01
Tetrahydrofuran (mg/L)	<0.050	<0.50
1,2-Dichloroethene[1] (mg/L)	0.039	0.26
1,2-Dichloroethane (mg/L)	<0.001	<0.01
1,1,1-Trichloroethane (mg/L)	0.001	<0.01
1,1,2-Trichloroethane (mg/L)	<0.001	<0.01
Methylene chloride (mg/L)	0.002	0.02
Styrene (mg/L)	<0.001	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.050	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.050	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.050	<0.50
Total VOCs[2]	**0.39**	**2.68**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	0.03
Iron, Total (mg/L)	1.49	6.78
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

February 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	2/6/2014	**2/20/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.01
Tetrachloroethene (mg/L)	<0.01	<0.01
Toluene (mg/L)	0.83	0.50
Ethylbenzene (mg/L)	0.24	0.15
Xylenes, Total (mg/L)	0.16	0.11
Vinyl chloride (mg/L)	0.29	0.13
1,1-Dichloroethene (mg/L)	<0.01	<0.01
Tetrahydrofuran (mg/L)	<0.50	<0.50
1,2-Dichloroethene[1] (mg/L)	0.19	0.11
1,2-Dichloroethane (mg/L)	<0.01	<0.01
1,1,1-Trichloroethane (mg/L)	<0.01	<0.01
1,1,2-Trichloroethane (mg/L)	<0.01	<0.01
Methylene chloride (mg/L)	0.06	<0.01
Styrene (mg/L)	<0.01	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.50
Total VOCs[2]	**1.77**	**1.00**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	4.74	15.5
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

March 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	3/6/2014	**3/20/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.001	<0.01
Tetrachloroethene (mg/L)	<0.001	<0.01
Toluene (mg/L)	0.017	1.27
Ethylbenzene (mg/L)	0.004	0.39
Xylenes, Total (mg/L)	0.002	0.26
Vinyl chloride (mg/L)	0.006	0.39
1,1-Dichloroethene (mg/L)	<0.001	<0.01
Tetrahydrofuran (mg/L)	<0.050	<0.50
1,2-Dichloroethene[1] (mg/L)	0.004	0.35
1,2-Dichloroethane (mg/L)	<0.001	<0.01
1,1,1-Trichloroethane (mg/L)	<0.001	<0.01
1,1,2-Trichloroethane (mg/L)	<0.001	<0.01
Methylene chloride (mg/L)	<0.001	0.03
Styrene (mg/L)	<0.001	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.050	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.050	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.050	<0.50
Total VOCs[2]	**0.03**	**2.69**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	0.31	10.5
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

April 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	4/1/2014	**4/16/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	0.008	<0.01
Tetrachloroethene (mg/L)	0.001	<0.01
Toluene (mg/L)	0.094	0.07
Ethylbenzene (mg/L)	<0.001	0.02
Xylenes, Total (mg/L)	0.030	0.01
Vinyl chloride (mg/L)	0.153	0.03
1,1-Dichloroethene (mg/L)	<0.001	<0.01
Tetrahydrofuran (mg/L)	<0.050	<0.50
1,2-Dichloroethene[1] (mg/L)	0.110	0.03
1,2-Dichloroethane (mg/L)	<0.001	<0.01
1,1,1-Trichloroethane (mg/L)	0.003	<0.01
1,1,2-Trichloroethane (mg/L)	<0.001	<0.01
Methylene chloride (mg/L)	0.002	<0.01
Styrene (mg/L)	<0.001	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.050	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.050	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.050	<0.50
Total VOCs[2]	**0.40**	**0.16**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	11.7	1.49
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

May 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	5/1/2014	5/14/2014
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.001
Tetrachloroethene (mg/L)	<0.01	<0.001
Toluene (mg/L)	0.33	0.060
Ethylbenzene (mg/L)	0.08	0.002
Xylenes, Total (mg/L)	0.13	0.011
Vinyl chloride (mg/L)	0.26	0.040
1,1-Dichloroethene (mg/L)	<0.01	<0.001
Tetrahydrofuran (mg/L)	<0.50	<0.050
1,2-Dichloroethene[1] (mg/L)	0.20	0.100
1,2-Dichloroethane (mg/L)	<0.01	<0.001
1,1,1-Trichloroethane (mg/L)	<0.01	0.004
1,1,2-Trichloroethane (mg/L)	<0.01	<0.001
Methylene chloride (mg/L)	<0.01	0.002
Styrene (mg/L)	<0.01	<0.001
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.050
Total VOCs[2]	**1.00**	**0.22**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	7.1	7.72
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

June 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	6/5/2014	6/19/2014
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.01
Tetrachloroethene (mg/L)	<0.01	<0.01
Toluene (mg/L)	1.74	0.85
Ethylbenzene (mg/L)	0.36	0.19
Xylenes, Total (mg/L)	0.28	0.14
Vinyl chloride (mg/L)	0.99	0.56
1,1-Dichloroethene (mg/L)	<0.01	<0.01
Tetrahydrofuran (mg/L)	<0.50	<0.50
1,2-Dichloroethene[1] (mg/L)	0.83	<0.01
1,2-Dichloroethane (mg/L)	<0.01	<0.01
1,1,1-Trichloroethane (mg/L)	0.02	0.02
1,1,2-Trichloroethane (mg/L)	<0.01	<0.01
Methylene chloride (mg/L)	0.07	<0.01
Styrene (mg/L)	<0.01	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.50
Total VOCs[2]	**4.29**	**1.76**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	6.45	1.88
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

July 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	7/8/2014	**7/24/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.01
Tetrachloroethene (mg/L)	<0.01	<0.01
Toluene (mg/L)	1.09	0.90
Ethylbenzene (mg/L)	0.25	0.11
Xylenes, Total (mg/L)	0.23	0.18
Vinyl chloride (mg/L)	0.41	0.28
1,1-Dichloroethene (mg/L)	<0.01	<0.01
Tetrahydrofuran (mg/L)	<0.50	<0.50
1,2-Dichloroethene[1] (mg/L)	0.76	0.31
1,2-Dichloroethane (mg/L)	<0.01	<0.01
1,1,1-Trichloroethane (mg/L)	0.02	<0.01
1,1,2-Trichloroethane (mg/L)	<0.01	<0.01
Methylene chloride (mg/L)	0.04	0.36
Styrene (mg/L)	<0.01	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.50
Total VOCs[2]	**2.80**	**2.14**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	12.3	6.88
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

August 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	8/5/2014	**8/18/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.01
Tetrachloroethene (mg/L)	<0.01	<0.01
Toluene (mg/L)	0.07	0.72
Ethylbenzene (mg/L)	<0.01	0.13
Xylenes, Total (mg/L)	<0.01	0.12
Vinyl chloride (mg/L)	0.05	0.23
1,1-Dichloroethene (mg/L)	<0.01	<0.01
Tetrahydrofuran (mg/L)	<0.50	<0.50
1,2-Dichloroethene[1] (mg/L)	0.04	0.20
1,2-Dichloroethane (mg/L)	<0.01	<0.01
1,1,1-Trichloroethane (mg/L)	<0.01	<0.01
1,1,2-Trichloroethane (mg/L)	<0.01	<0.01
Methylene chloride (mg/L)	0.09	<0.01
Styrene (mg/L)	<0.01	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.50
Total VOCs[2]	**0.25**	**1.40**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	<0.01
Iron, Total (mg/L)	4.31	0.77
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

September 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	9/4/2014	9/18/2014
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.01
Tetrachloroethene (mg/L)	<0.01	<0.01
Toluene (mg/L)	0.41	0.14
Ethylbenzene (mg/L)	0.38	0.04
Xylenes, Total (mg/L)	0.32	0.02
Vinyl chloride (mg/L)	0.22	0.08
1,1-Dichloroethene (mg/L)	<0.01	<0.01
Tetrahydrofuran (mg/L)	<0.50	<0.50
1,2-Dichloroethene[1] (mg/L)	0.43	0.06
1,2-Dichloroethane (mg/L)	<0.01	<0.01
1,1,1-Trichloroethane (mg/L)	<0.01	<0.01
1,1,2-Trichloroethane (mg/L)	<0.01	<0.01
Methylene chloride (mg/L)	0.01	<0.01
Styrene (mg/L)	<0.01	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.50
Total VOCs[2]	**1.77**	**0.34**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	0.02
Iron, Total (mg/L)	3.75	3.30
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	<0.05

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

Table 3

October 2014

SRSNE HCTS - Influent Results

Parameter/ Concentration (mg/L)	Sample Dates	
	10/1/2014	**10/13/2014**
A. ORGANIC PARAMETERS		
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	<0.01	<0.01
Tetrachloroethene (mg/L)	<0.01	<0.01
Toluene (mg/L)	1.06	1.05
Ethylbenzene (mg/L)	0.30	0.26
Xylenes, Total (mg/L)	0.21	0.21
Vinyl chloride (mg/L)	0.54	0.29
1,1-Dichloroethene (mg/L)	<0.01	<0.01
Tetrahydrofuran (mg/L)	<0.50	<0.50
1,2-Dichloroethene[1] (mg/L)	0.33	0.32
1,2-Dichloroethane (mg/L)	<0.01	<0.01
1,1,1-Trichloroethane (mg/L)	<0.01	<0.01
1,1,2-Trichloroethane (mg/L)	<0.01	<0.01
Methylene chloride (mg/L)	<0.01	0.04
Styrene (mg/L)	<0.01	<0.01
Alcohols		
Ethanol (mg/L)	<5.0	<5.0
Methanol (mg/L)	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	<5.0	<5.0
Ketones		
Acetone (mg/L)	<0.50	<0.50
2-Butanone (Methyl Ethyl Ketone) (mg/L)	<0.50	<0.50
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	<0.50	<0.50
Total VOCs[2]	**2.44**	**2.17**
B. INORGANIC PARAMETERS		
Metals		
Copper, Total (mg/L)	<0.01	0.02
Iron, Total (mg/L)	3.26	3.28
Lead, Total (mg/L)	<0.005	<0.005
Nickel, Total (mg/L)	<0.05	<0.05
Zinc, Total (mg/L)	<0.05	0.13

NOTES:

mg/L = Milligrams per liter unless otherwise noted.

[1] = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

[2] = Total VOCs is the total sum of detected compounds (mg/l)

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		11/8/2013	11/21/2013
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.013	0.023
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	<0.001	<0.001
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	<0.001	0.002
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.013**	**0.025**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.06 g/day	<0.01 mg/l or <2.06 g/day
Iron, Total (mg/l)	**5.0**	0.16	0.27
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.03 g/day	<0.005 mg/l or <1.03 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <10.29 g/day	<0.05 mg/l or <10.29 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.86	6.87
Total Suspended Solids (mg/L)	**30**	<1	2
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		12/3/2013	12/18/2013
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.024	0.025
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	<0.001	<0.001
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	0.002	<0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.026**	**0.025**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <1.89 g/day	<0.01 mg/l or< 1.89 g/day
Iron, Total (mg/l)	**5.0**	0.18	0.23
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <0.95 g/day	<0.005 mg/l or <0.95 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <9.45 g/day	<0.05 mg/l or <9.45 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.83	6.77
Total Suspended Solids (mg/L)	**30**	2	2
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		1/7/2014	1/23/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.024	0.024
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	<0.001	<0.001
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	<0.001	<0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.024**	**0.024**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <1.82 g/day	0.01 mg/l or 1.82 g/day
Iron, Total (mg/l)	**5.0**	0.10	0.15
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <0.91 g/day	<0.005 mg/l or <0.91 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <9.08 g/day	<0.05 mg/l or <9.08 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.80	6.68
Total Suspended Solids (mg/L)	**30**	<1	<1
Dioxins (pg/L)	**NL**	<36	NS
Furans (pg/L)	**NL**	<51	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		2/6/2014	2/20/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.033	0.028
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	<0.001	<0.001
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	<0.001	<0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.033**	**0.028**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.02 g/day	<0.01 mg/l or <2.02 g/day
Iron, Total (mg/l)	**5.0**	<0.05	0.11
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.01 g/day	<0.005 mg/l or <1.01 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <10.12 g/day	<0.05 mg/l or <10.12 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.82	6.66
Total Suspended Solids (mg/L)	**30**	<1	1
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		3/6/2014	3/20/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.028	0.034
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	<0.001	<0.001
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	<0.001	<0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.028**	**0.034**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <1.96 g/day	<0.01 mg/l or <1.96 g/day
Iron, Total (mg/l)	**5.0**	0.10	0.15
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <0.98 g/day	<0.005 mg/l or <0.98 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <9.8 g/day	<0.05 mg/l or <9.8 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.89	6.87
Total Suspended Solids (mg/L)	**30**	3	3
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		4/1/2014	4/16/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.034	0.034
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.001	0.001
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	0.001	<0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.036**	**0.035**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.23 g/day	<0.01 mg/l or <2.23 g/day
Iron, Total (mg/l)	**5.0**	0.06	0.45
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.12 g/day	<0.005 mg/l or <1.12 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <11.16 g/day	<0.05 mg/l or <11.16 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	7.16	7.13
Total Suspended Solids (mg/L)	**30**	1	1
Dioxins (pg/L)	**NL**	<36	NS
Furans (pg/L)	**NL**	<51	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		5/1/2014	5/14/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.028	0.040
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.001	0.002
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	<0.001	0.002
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.029**	**0.044**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.41 g/day	<0.01 mg/l or <2.41 g/day
Iron, Total (mg/l)	**5.0**	0.09	0.11
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.21 g/day	<0.005 mg/l or <1.21 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <12.06 g/day	<0.05 mg/l or <12.06 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	7.13	6.93
Total Suspended Solids (mg/L)	**30**	<1	2
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		6/5/2014	6/19/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	0.002
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	0.003
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.031	<0.001
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.002	0.002
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	<0.001	0.005
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.033**	**0.012**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.23 g/day	<0.01 mg/l or <2.23 g/day
Iron, Total (mg/l)	**5.0**	0.11	0.15
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.11 g/day	<0.005 mg/l or <1.11 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <11.14 g/day	<0.05 mg/l or <11.14 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.79	6.70
Total Suspended Solids (mg/L)	**30**	<1	1
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		7/8/2014	7/24/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.062	0.060
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.003	0.002
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	0.003	0.002
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.068**	**0.064**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.03 g/day	<0.01 mg/l or <4.06 g/day
Iron, Total (mg/l)	**5.0**	0.21	0.21
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.02 g/day	<0.005 mg/l or <1.02 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <10.16 g/day	<0.05 mg/l or <10.16 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	7.24	7.12
Total Suspended Solids (mg/L)	**30**	<1	2
Dioxins (pg/L)	**NL**	<36	NS
Furans (pg/L)	**NL**	<51	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		8/5/2014	8/18/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.081	0.061
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.002	0.002
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	0.002	<0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.085**	**0.063**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <2.19 g/day	<0.01 mg/l or <2.19 g/day
Iron, Total (mg/l)	**5.0**	0.07	0.09
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <1.09 g/day	<0.005 mg/l or <1.09 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <10.94 g/day	<0.05 mg/l or <10.94 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	7.04	7.14
Total Suspended Solids (mg/L)	**30**	<1	<1
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		9/4/2014	9/18/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.061	0.059
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.002	0.002
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	0.002	0.002
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.065**	**0.063**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <1.96 g/day	0.01 mg/l or 1.96 g/day
Iron, Total (mg/l)	**5.0**	0.12	0.09
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <0.98 g/day	<0.005 mg/l or <0.98 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <9.78 g/day	<0.05 mg/l or <9.78 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	7.02	6.99
Total Suspended Solids (mg/L)	**30**	<1	<1
Dioxins (pg/L)	**NL**	NS	NS
Furans (pg/L)	**NL**	NS	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

SRSNE HCTS - Effluent Results

Parameter/ Concentration (mg/L)	Substantive Requirement Discharge Limits	Sample Dates	
		10/1/2014	10/13/2014
A. ORGANIC PARAMETERS			
Volatile Organic Compounds	*(mg/L)*	*(mg/L)*	*(mg/L)*
Trichloroethene (mg/L)	**0.973**	<0.001	<0.001
Tetrachloroethene (mg/L)	**0.106**	<0.001	<0.001
Toluene (mg/L)	**4.000**	<0.001	<0.001
Ethylbenzene (mg/L)	**1.000**	<0.001	<0.001
Xylenes, Total (mg/L)	**0.500**	<0.001	<0.001
Vinyl chloride (mg/L)	**4.500**	<0.001	<0.001
1,1-Dichloroethene (mg/L)	**0.058**	<0.001	<0.001
Tetrahydrofuran (mg/L)	**0.500**	<0.050	<0.050
1,2-Dichloroethene[1] (mg/L)	**5.000**	0.053	0.042
1,2-Dichloroethane (mg/L)	**0.250**	<0.001	<0.001
1,1,1-Trichloroethane (mg/L)	**4.000**	0.002	0.002
1,1,2-Trichloroethane (mg/L)	**0.250**	<0.001	<0.001
Methylene chloride (mg/L)	**15.000**	0.001	0.001
Styrene (mg/L)	**0.500**	<0.001	<0.001
Alcohols			
Ethanol (mg/L)	**20.0**	<5.0	<5.0
Methanol (mg/L)	**10.0**	<5.0	<5.0
2-Butanol (sec-Butanol) (mg/L)	**30.0**	<5.0	<5.0
2-Propanol (Isopropanol) (mg/L)	**10.0**	<5.0	<5.0
Ketones			
Acetone (mg/L)	**35.0**	<0.050	<0.050
2-Butanone (Methyl Ethyl Ketone) (mg/L)	**10.0**	<0.050	<0.050
4-Methyl-2-pentanone (Methyl Isobutyl Ketone) (mg/L)	**2.0**	<0.050	<0.050
Total VOCs[2]		**0.056**	**0.045**
B. INORGANIC PARAMETERS			
Metals	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*	*(mg/L) or (g/day)*
Copper, Total (g/day)[3]	**15.8 g/day**	<0.01 mg/l or <1.99 g/day	<0.01 mg/l or <1.99 g/day
Iron, Total (mg/l)	**5.0**	0.14	0.07
Lead, Total (g/day)[3]	**3.2 g/day**	<0.005 mg/l or <0.99 g/day	<0.005 mg/l or <0.99 g/day
Nickel, Total (mg/l)	**0.5**	<0.05	<0.05
Zinc, Total (g/day)[3]	**40.3 g/day**	<0.05 mg/l or <9.94 g/day	<0.05 mg/l or <9.94 g/day
OTHER			
Hydrogen Peroxide (mg/L)	**1.0**	<0.2	<0.2
Total PCBs (µg/L)	**NL**	<1	NS
pH (s.u.)	**6.0 - 9.0 s.u.**	6.96	6.98
Total Suspended Solids (mg/L)	**30**	<1	<1
Dioxins (pg/L)	**NL**	<36	NS
Furans (pg/L)	**NL**	<51	NS

NOTES:

1 = 1,2-Dichloroethene represents total cis and trans 1,2-Dichloroethene.

2 = Total VOCs is the total sum of detected compounds (mg/l)

3 = Inorganic results reported in grams per day are based on average monthly effluent flow

NL = no limit specified.

NS = not sampled (total PCBs analysis required monthly; dioxin/furan analysis required quarterly).

mg/L = Milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

g/day = grams per day

s.u. = Standard pH units

TABLE 5

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31 October 2013 through 30 October 2014

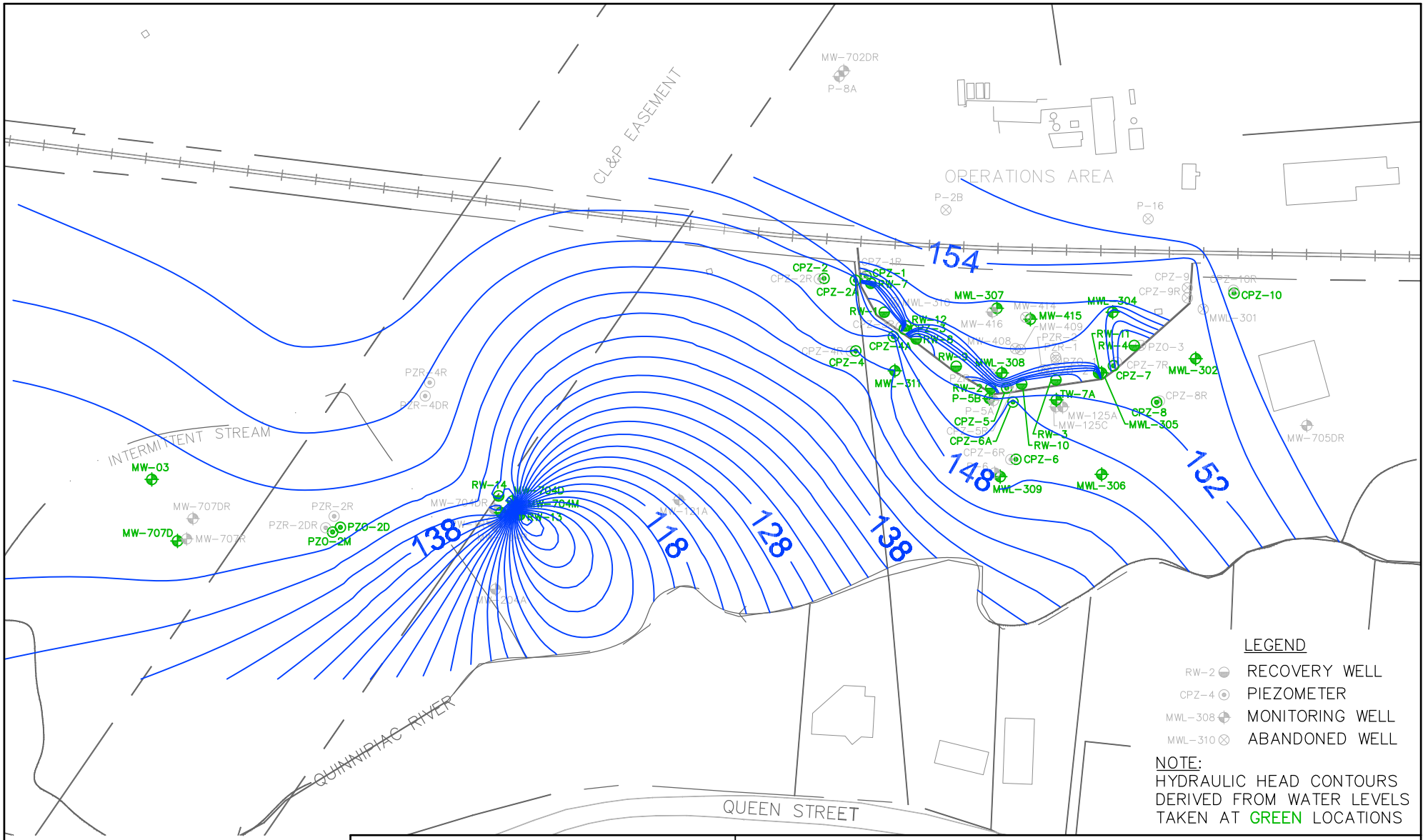
Weekly NTCRA-1 Compliance Piezometer Pair Summary

Date	CPZ-1/CPZ-2A	CPZ-3/CPZ-4A	CPZ-5/CPZ-6	CPZ-7/CPZ-8
01-Nov-13	1.64	0.39	7.90	6.13
06-Nov-13	1.92	0.15	7.83	6.13
11-Nov-13	1.87	0.04	7.79	6.60
18-Nov-13	2.06	0.31	7.85	6.46
26-Nov-13	2.26	0.25	8.62	6.23
02-Dec-13	2.47	0.98	8.77	7.20
11-Dec-13	2.53	1.01	8.81	7.15
16-Dec-13	2.58	1.06	8.92	7.21
27-Dec-13	2.78	2.55	9.08	7.04
06-Jan-14	3.27	2.05	8.84	6.36
13-Jan-14	3.30	2.26	9.80	7.90
23-Jan-14	3.31	2.23	9.51	7.60
28-Jan-14	3.88	1.84	8.61	7.18
03-Feb-14	4.03	1.84	8.56	7.09
11-Feb-14	3.15	2.14	9.09	7.29
20-Feb-14	3.28	1.62	8.76	7.37
26-Feb-14	4.37	2.05	9.11	7.00
04-Mar-14	4.11	2.00	8.98	7.00
11-Mar-14	3.99	1.40	9.27	6.72
18-Mar-14	3.84	1.75	9.31	6.81
24-Mar-14	3.94	2.49	9.80	6.46
01-Apr-14	4.11	3.11	10.25	8.18
07-Apr-14	3.64	2.71	9.34	6.34
16-Apr-14	3.56	2.26	7.49	6.75
22-Apr-14	3.71	2.40	9.69	6.29
28-Apr-14	3.54	2.54	8.75	5.71
06-May-14	3.81	2.64	9.20	5.92
12-May-14	3.65	1.89	8.53	6.15
21-May-14	3.64	1.65	8.17	5.34
28-May-14	3.29	1.38	8.52	5.79
03-Jun-14	2.86	0.92	8.92	5.92
10-Jun-14	2.45	0.44	8.87	6.29
18-Jun-14	1.87	0.50	8.05	5.45
27-Jun-14	1.01	0.25	7.96	6.09
01-Jul-14	0.94	-0.43	8.58	5.71
10-Jul-14	1.38	-0.08	8.17	6.16
14-Jul-14	1.68	-0.14	7.58	6.21
21-Jul-14	1.64	-0.11	7.96	6.47
28-Jul-14	1.76	0.07	7.71	7.41
04-Aug-14	1.20	-0.65	7.84	6.31
11-Aug-14	1.18	-0.58	7.02	6.15
18-Aug-14	1.15	-0.64	8.28	6.49
26-Aug-14	1.10	-0.92	7.30	6.29
01-Sep-14	0.16	-1.17	7.63	6.39
11-Sep-14	0.00	-1.22	6.79	6.53
18-Sep-14	-0.01	-1.19	6.85	6.62
25-Sep-14	-0.34	-1.51	7.08	7.14
29-Sep-14	-0.53	-1.65	6.84	6.77
06-Oct-14	-1.42	-1.54	7.82	7.11
12-Oct-14	-0.47	-1.55	7.69	7.17
20-Oct-14	-0.43	-1.38	7.90	6.75
28-Oct-14	-0.27	-1.39	7.56	7.13

Highlighted Cells - are weeks that the 0.30-foot hydraulic gradient reversal standard for a specific Compliance Piezometer Pair was not maintained during weekly gauging.

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS NOVEMBER 26, 2013

SRSNE
SOUTHINGTON, CONNECTICUT

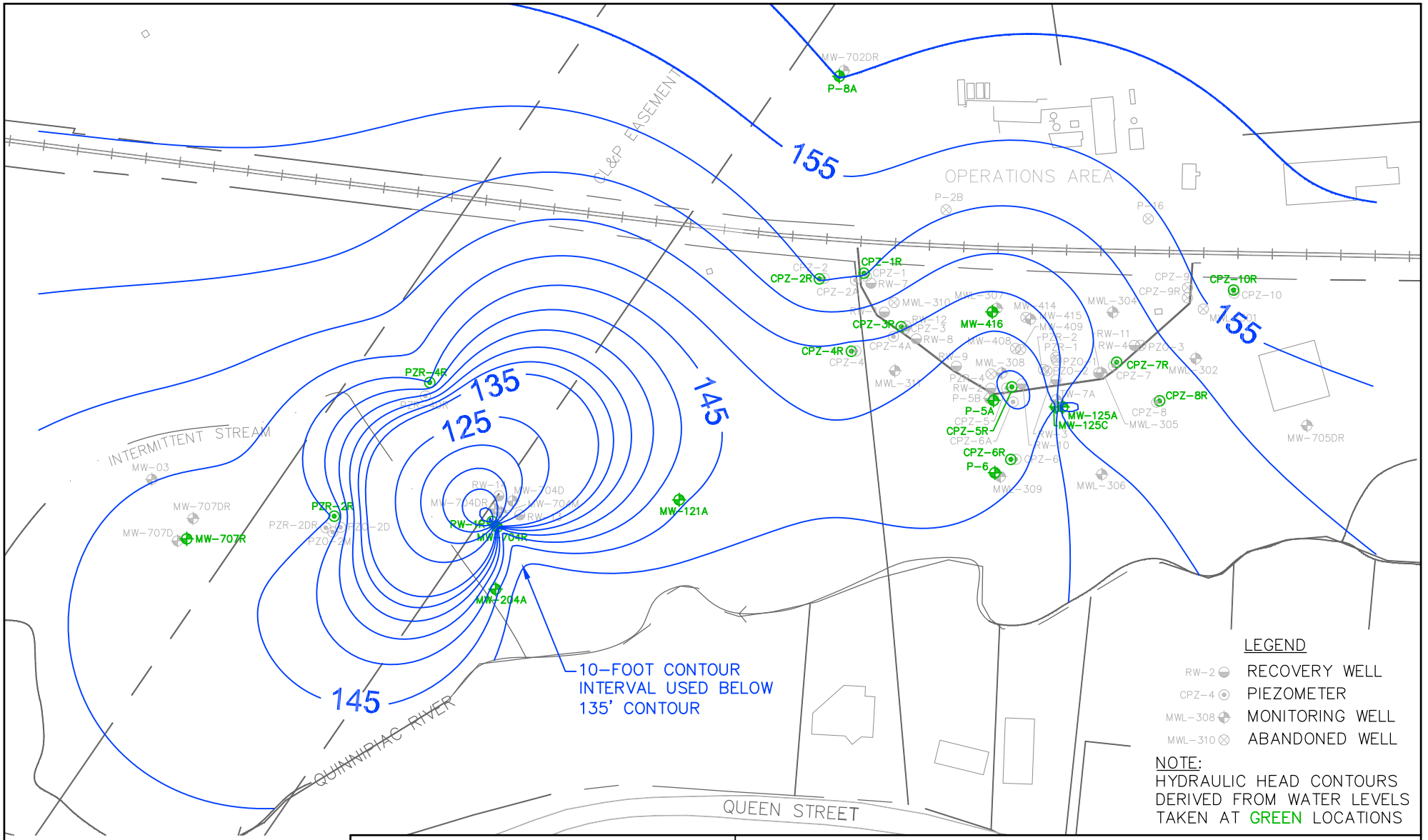
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CONCORD NEW HAMPSHIRE

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SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS NOVEMBER 26, 2013

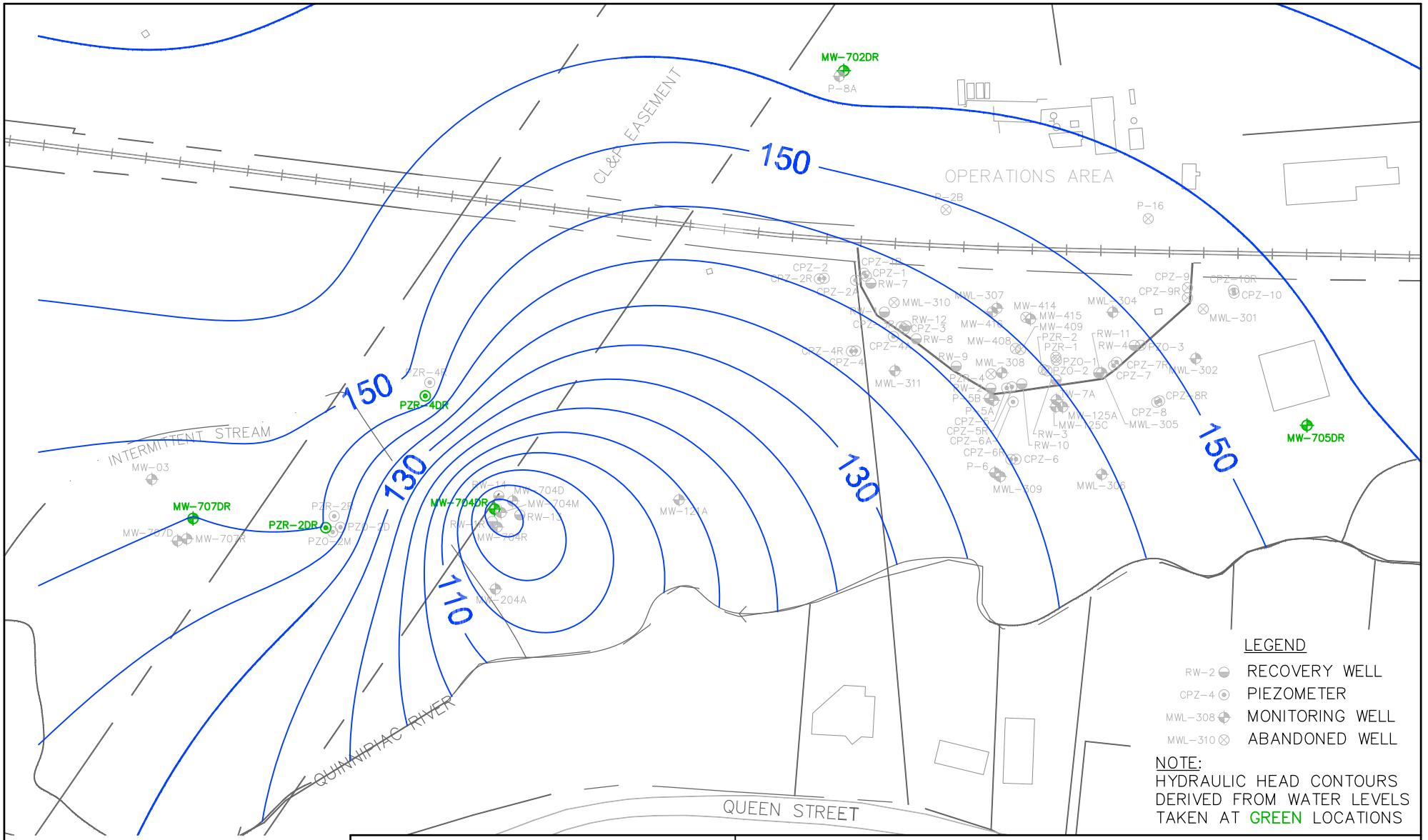
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SOUTHINGTON, CONNECTICUT

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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS NOVEMBER 26, 2013

SRSNE
SOUTHINGTON, CONNECTICUT

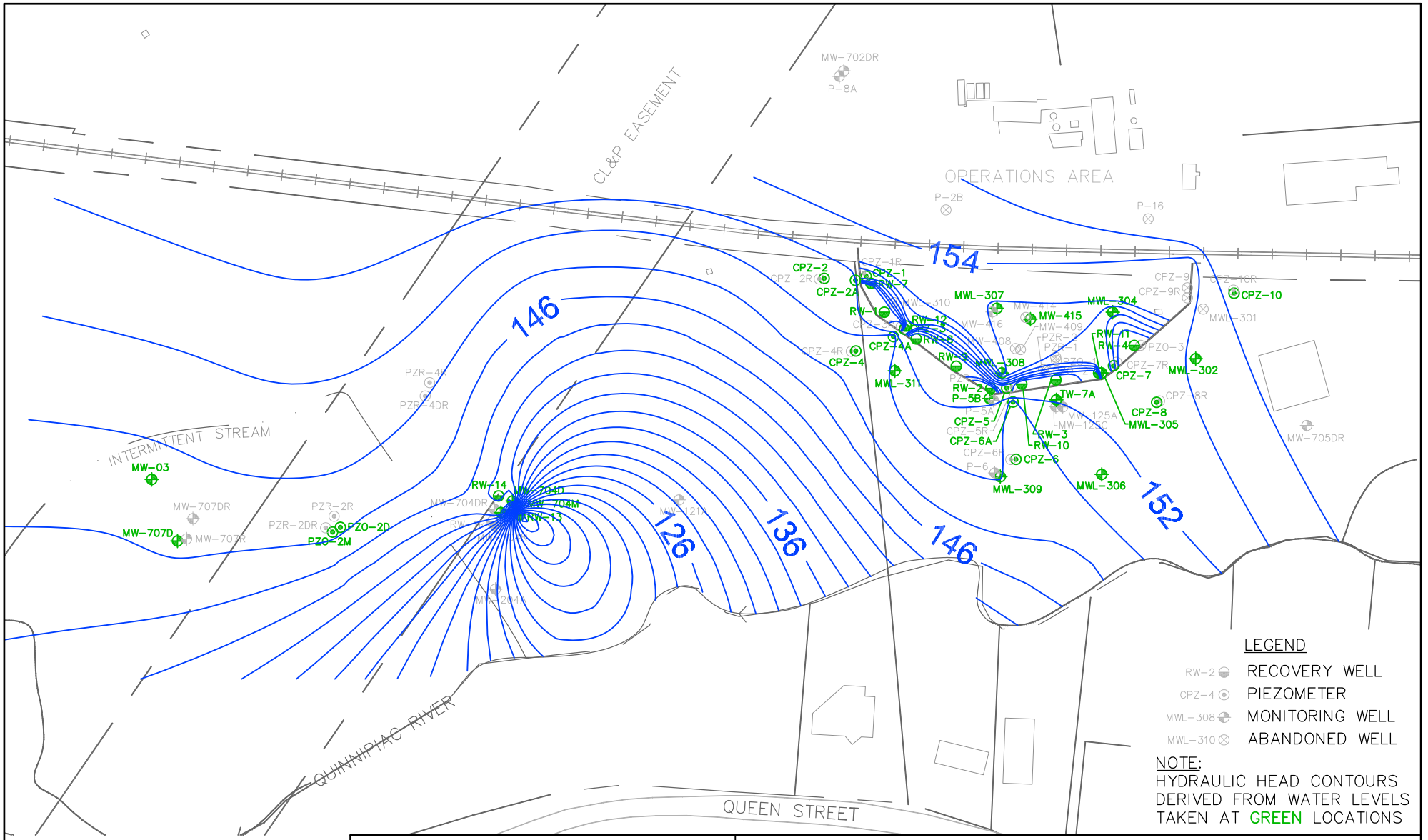
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OVERBURDEN HYDRAULIC HEAD CONTOURS DECEMBER 27, 2013

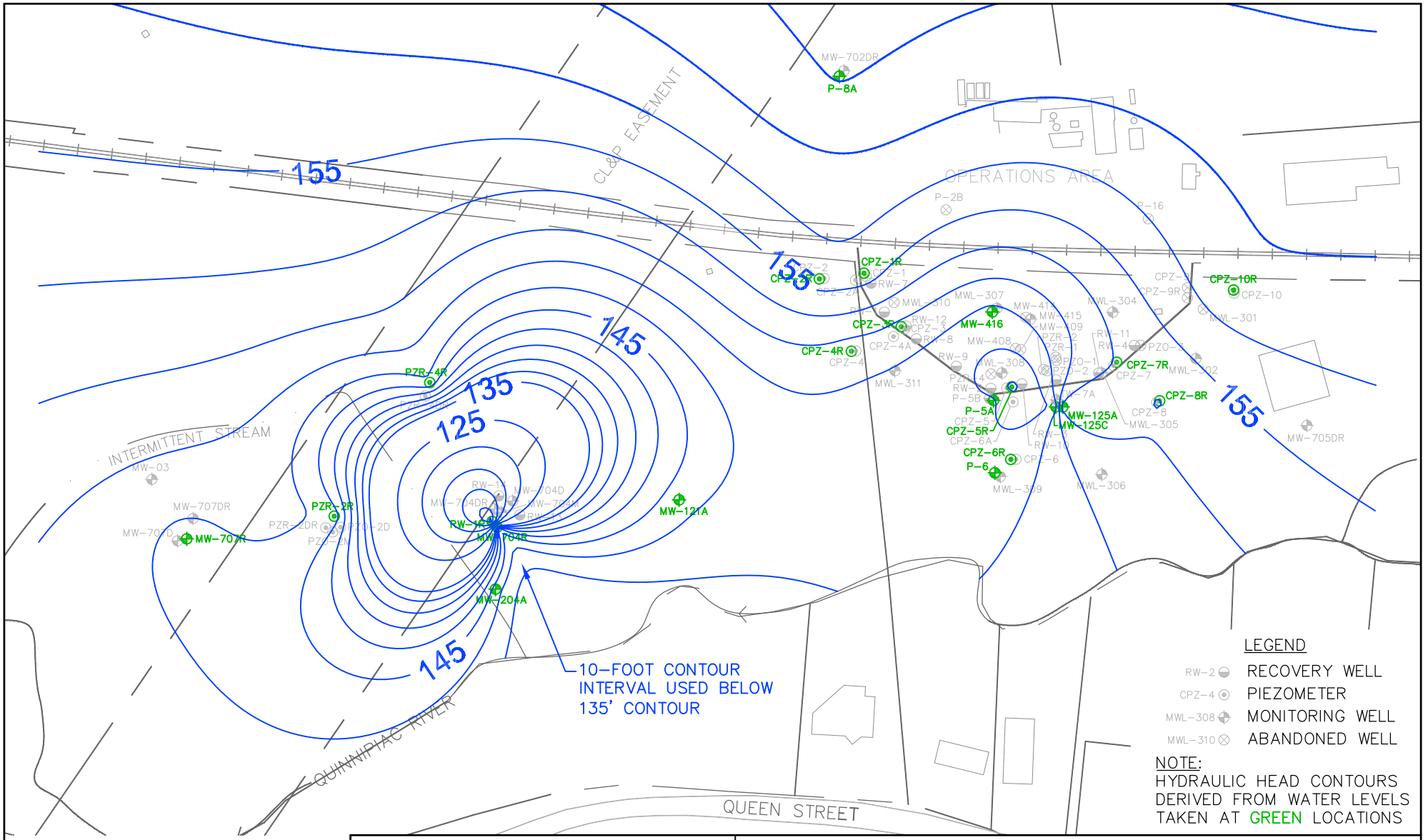
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SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS DECEMBER 27, 2013

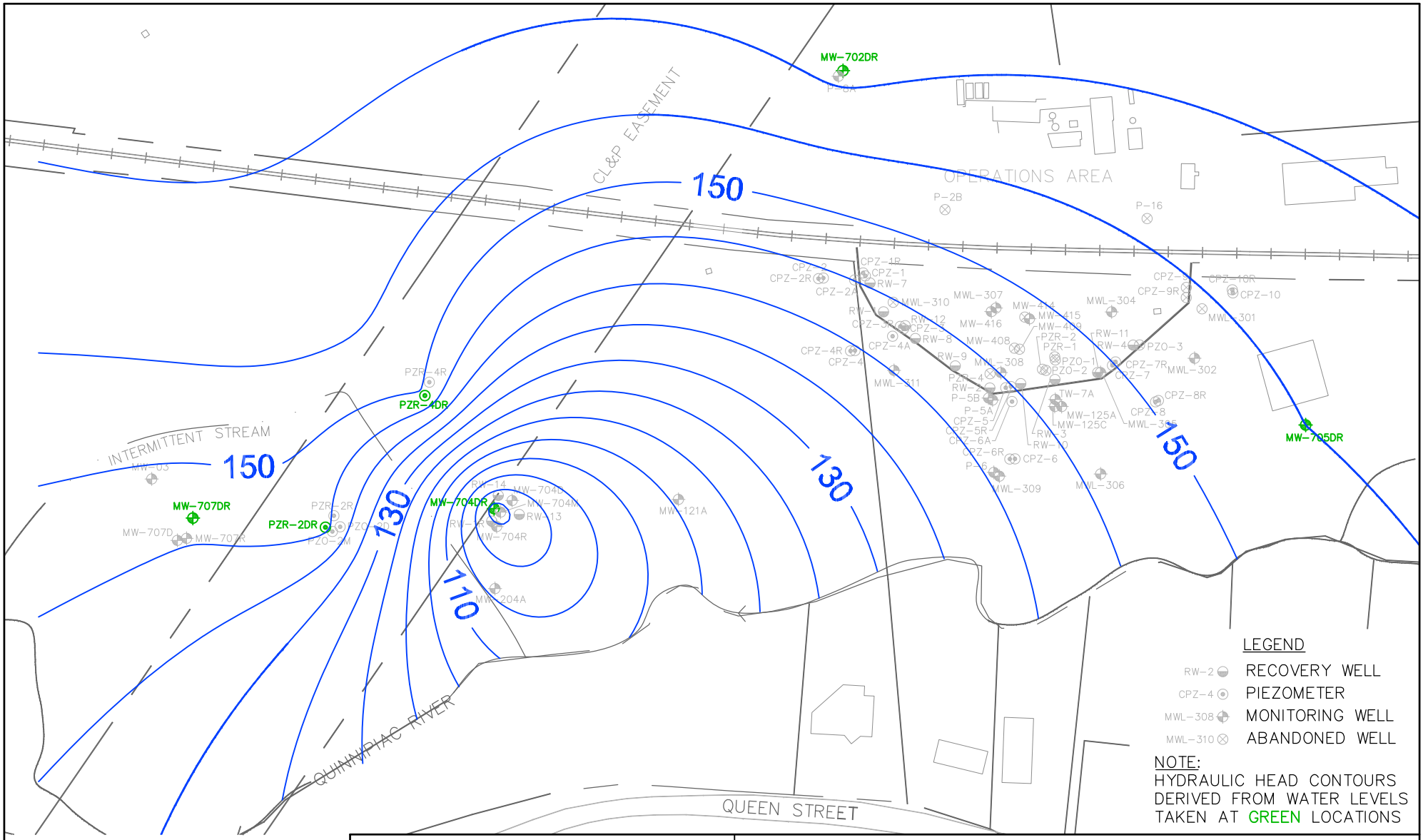
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SOUTHINGTON, CONNECTICUT

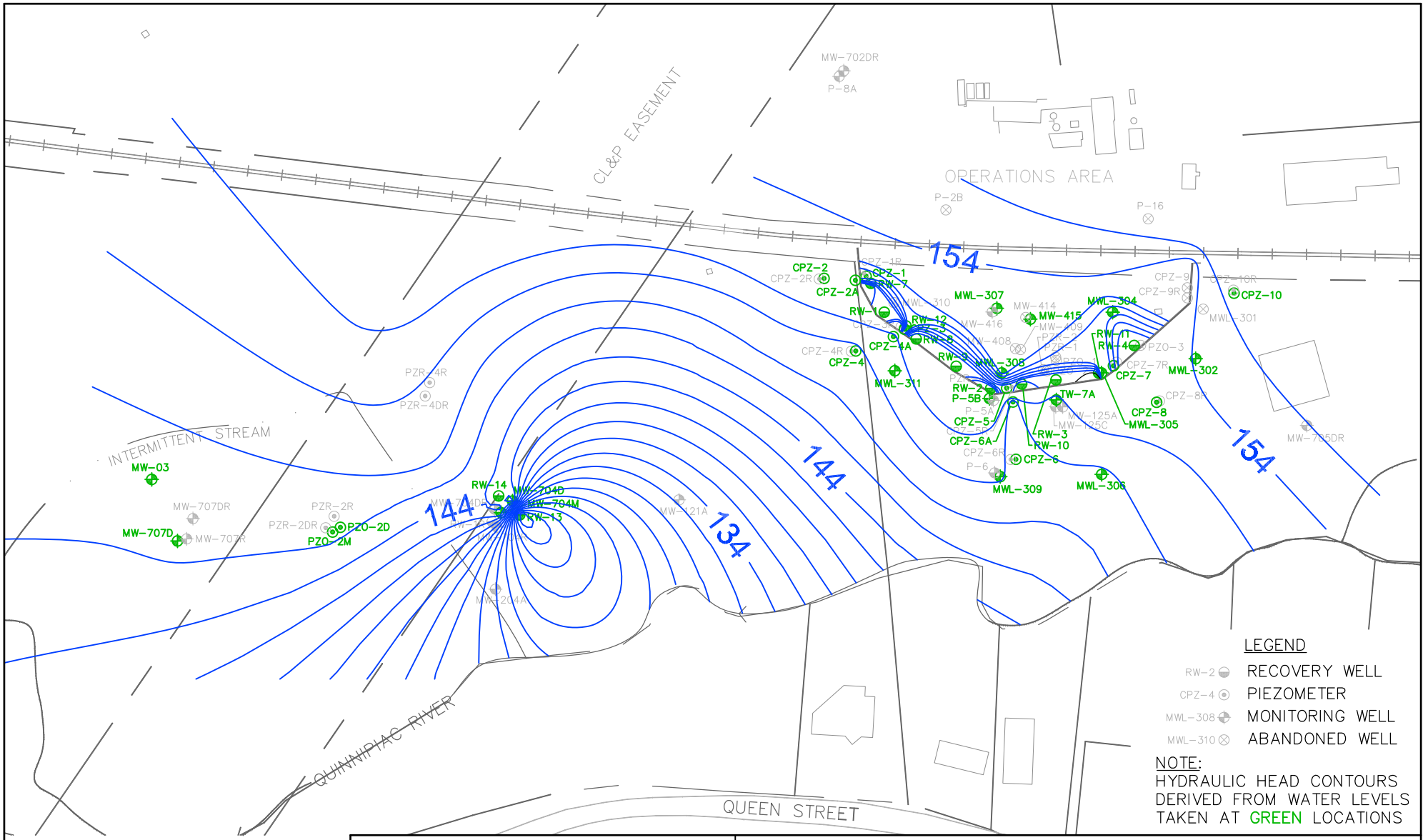
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OVERBURDEN HYDRAULIC HEAD CONTOURS JANUARY 28, 2014

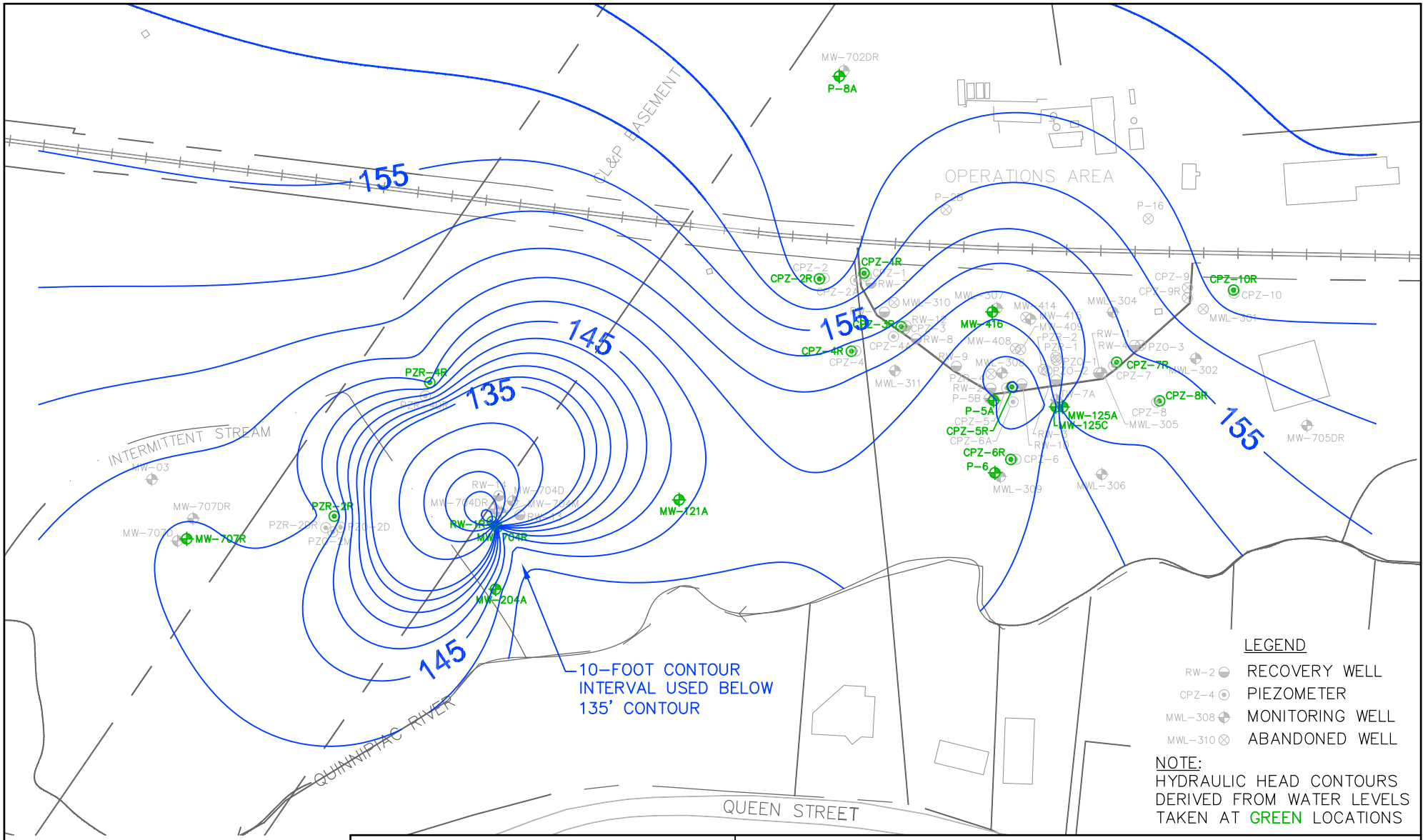
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS JANUARY 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

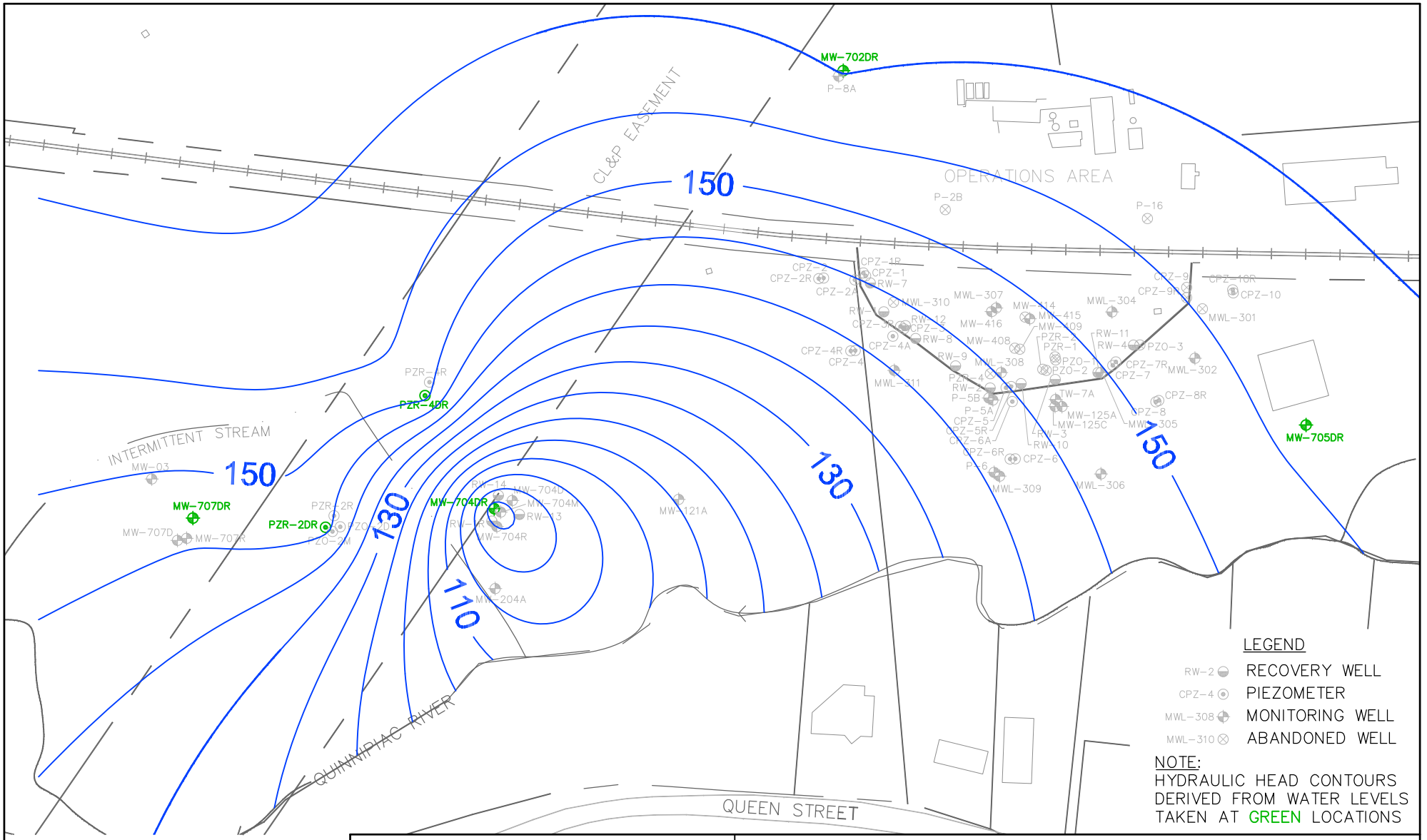
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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS JANUARY 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

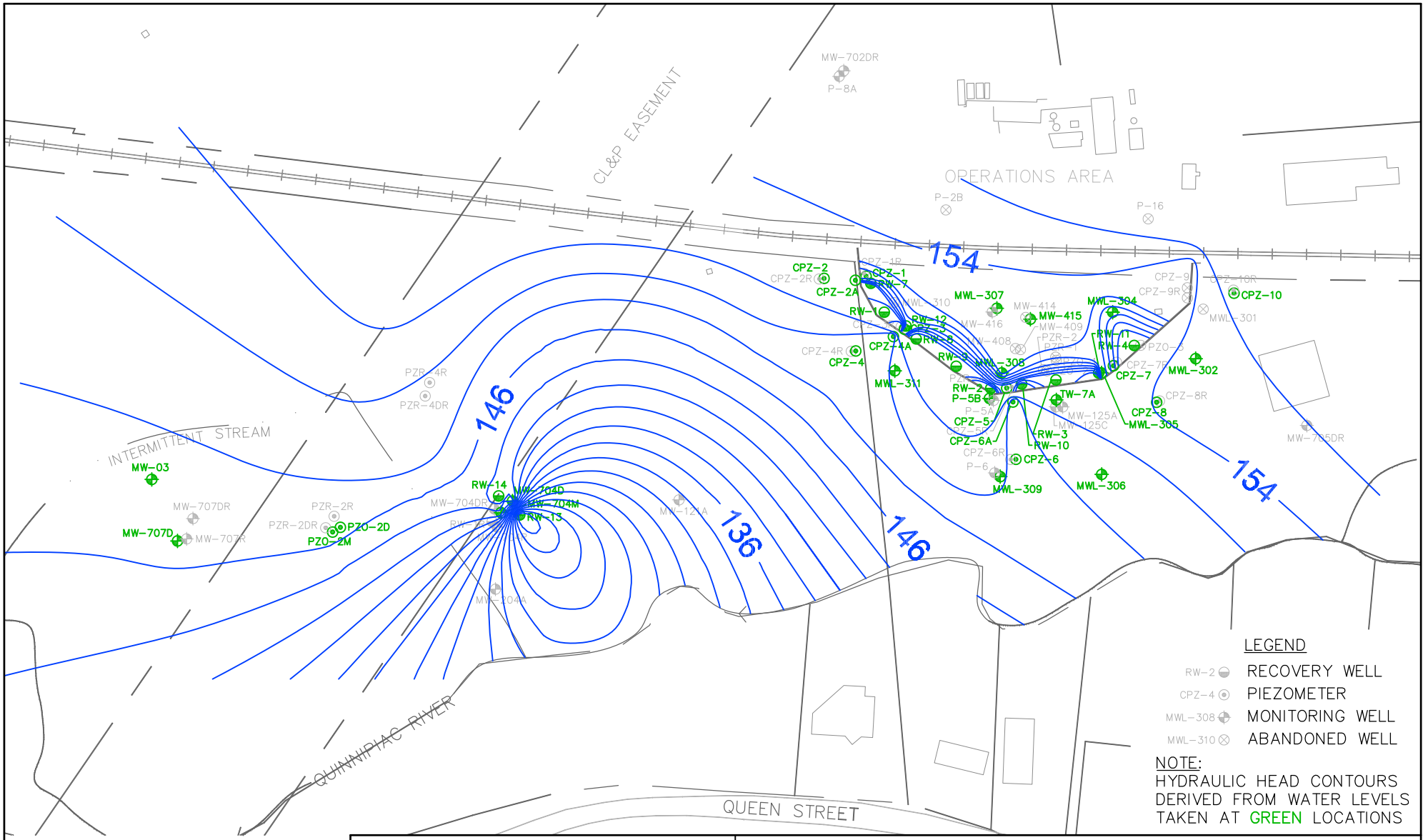
WESTON SOLUTIONS

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GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS FEBRUARY 26, 2014

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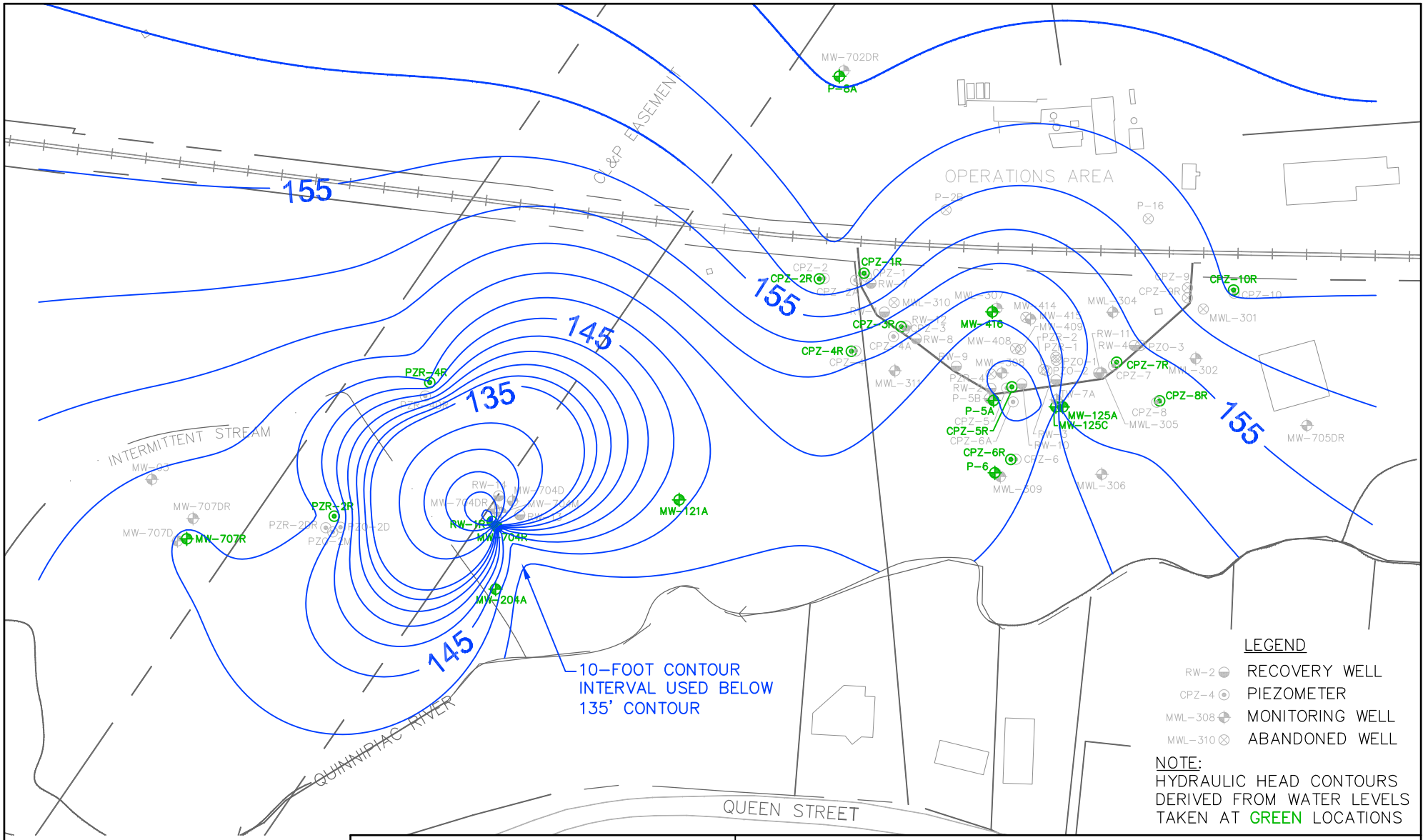
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS FEBRUARY 26, 2014

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SOUTHINGTON, CONNECTICUT

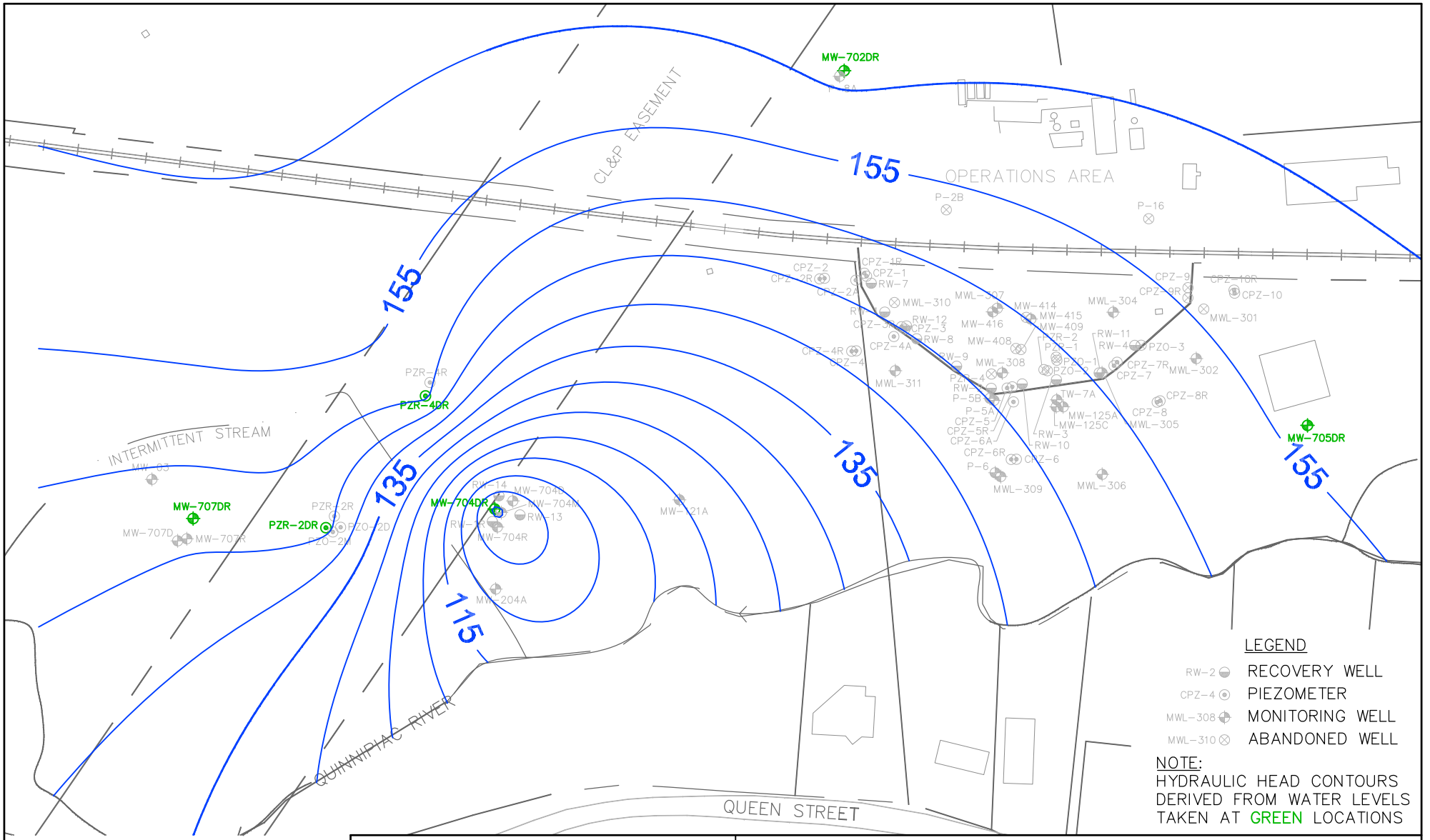
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS FEBRUARY 26, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

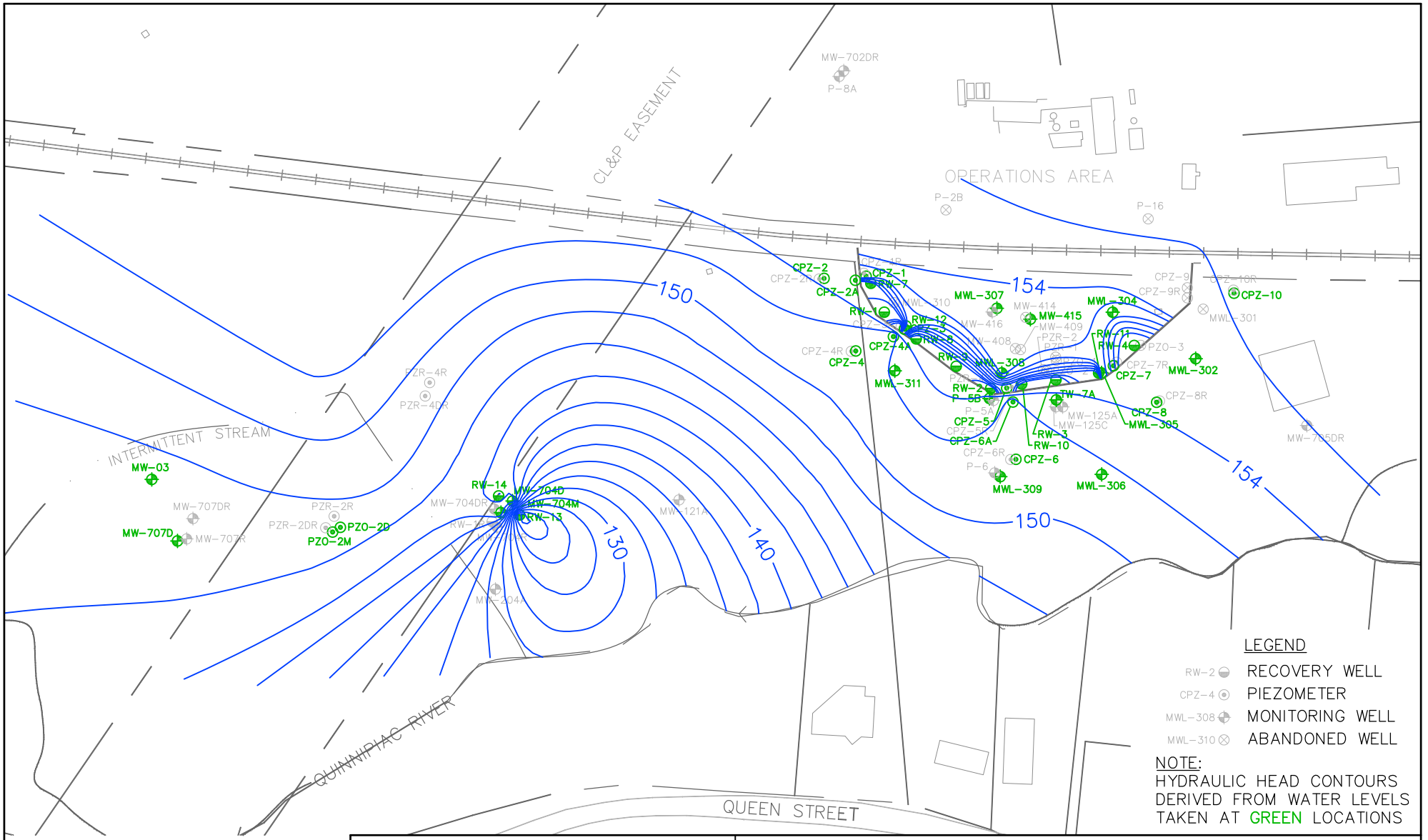
WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS MARCH 24, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

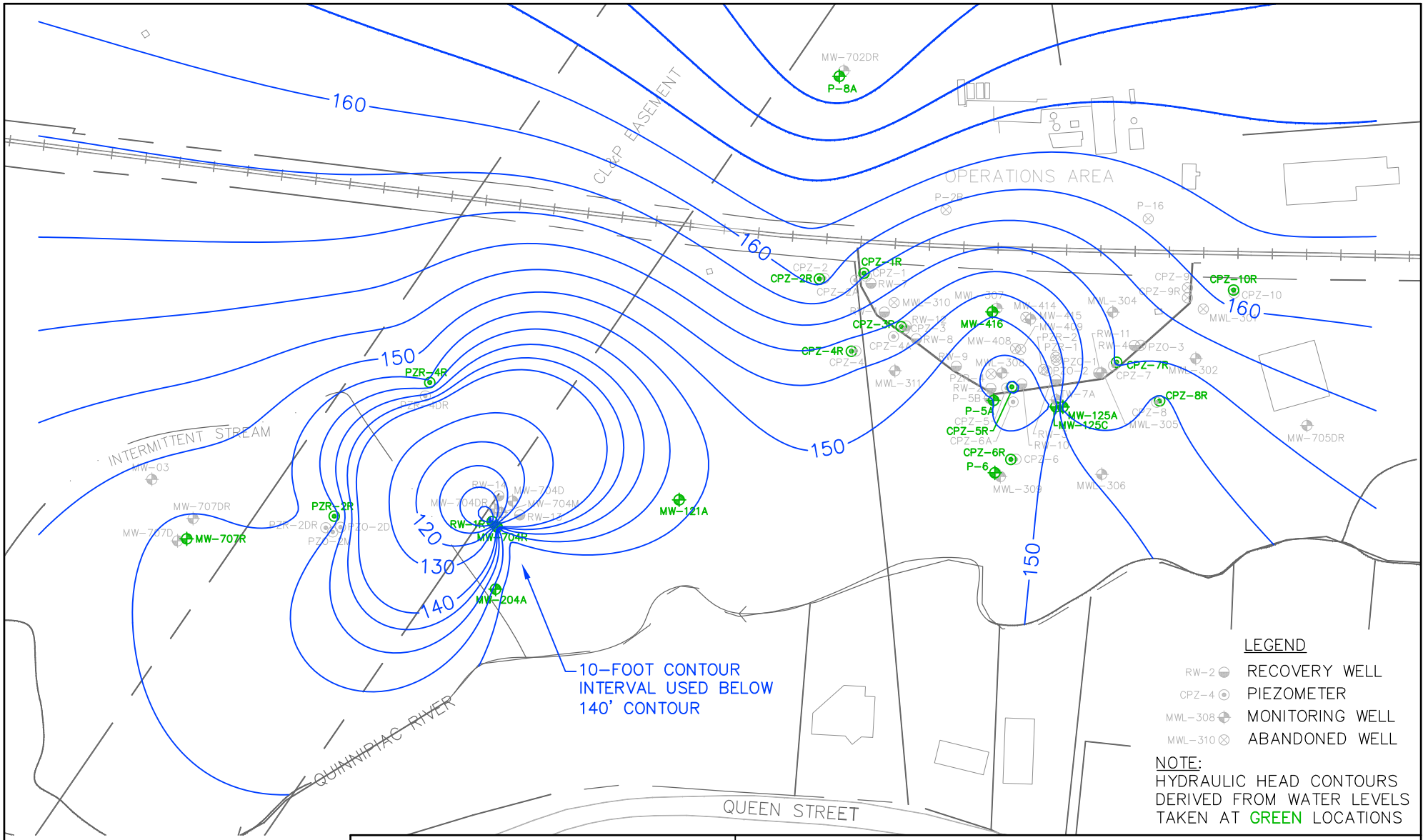
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CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS MARCH 24, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

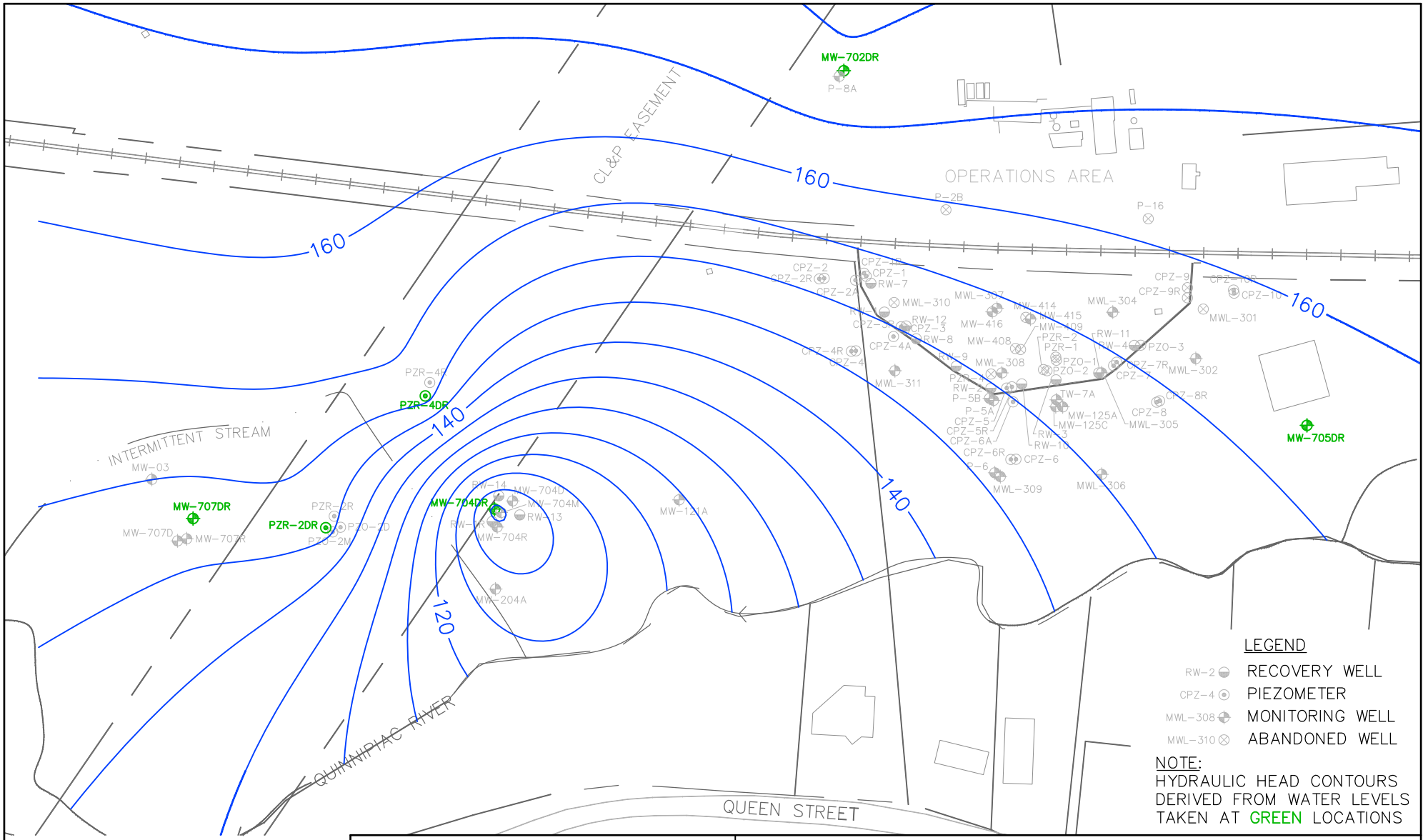
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CONCORD NEW HAMPSHIRE

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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS MARCH 24, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

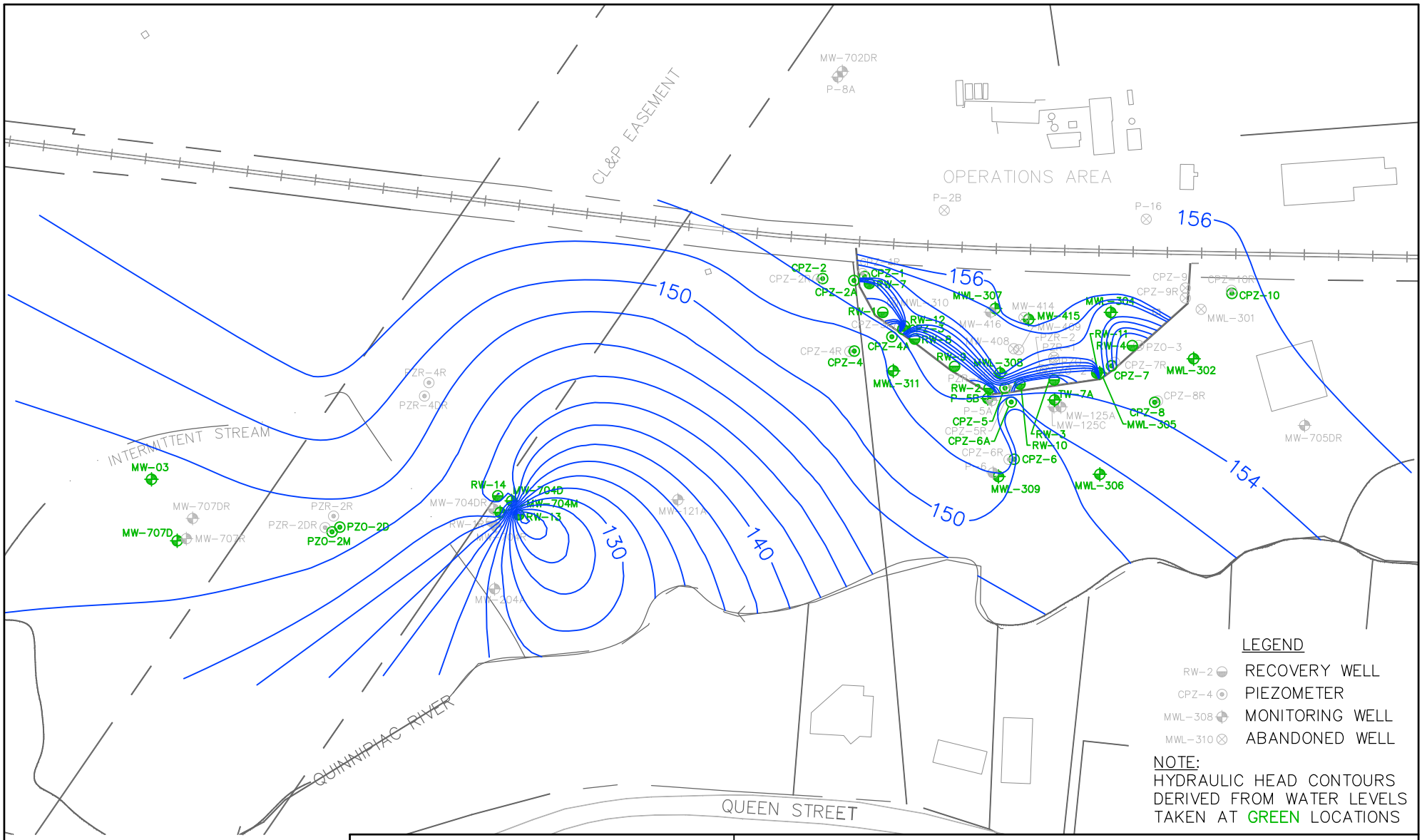
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CONCORD NEW HAMPSHIRE

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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS APRIL 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

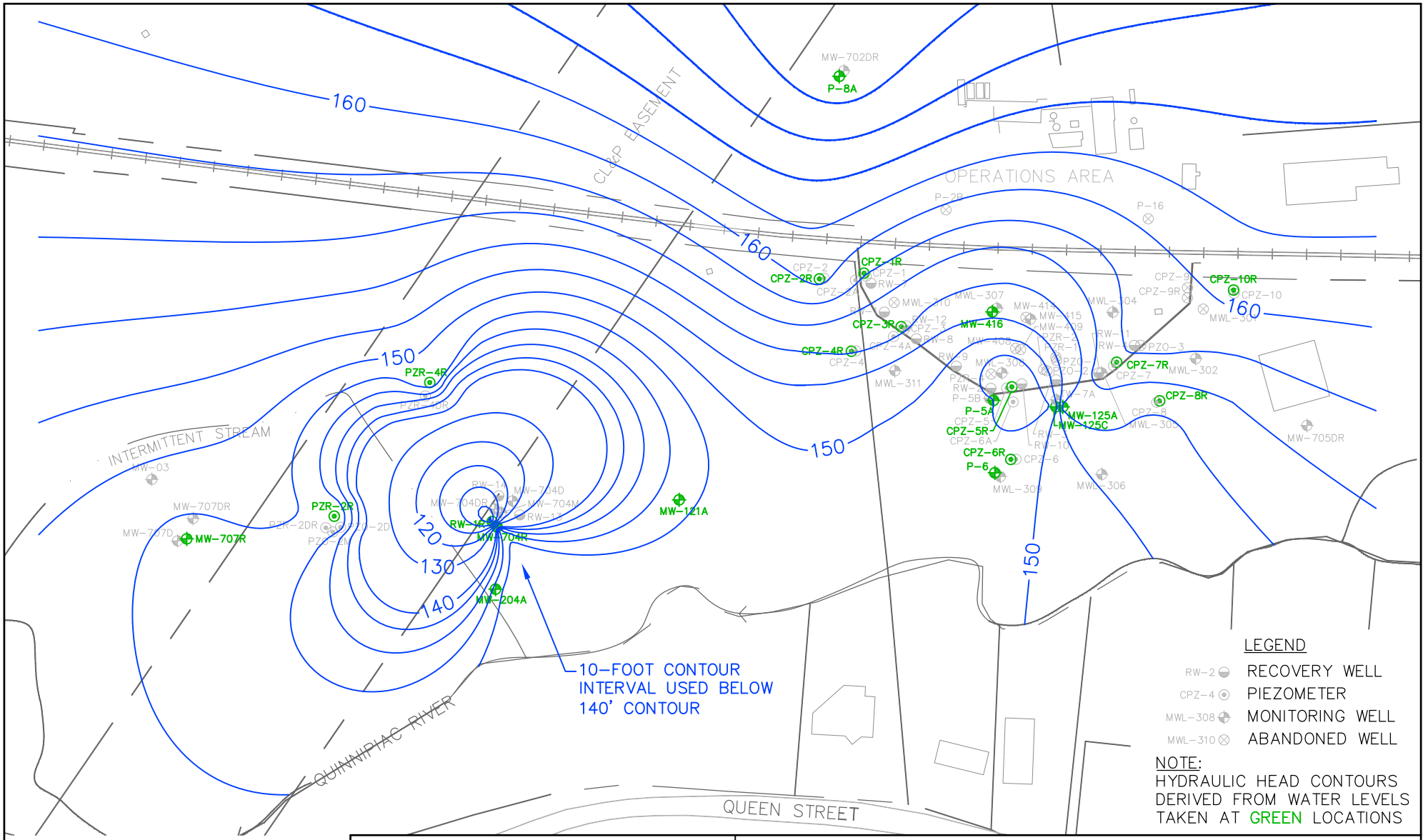
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS APRIL 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

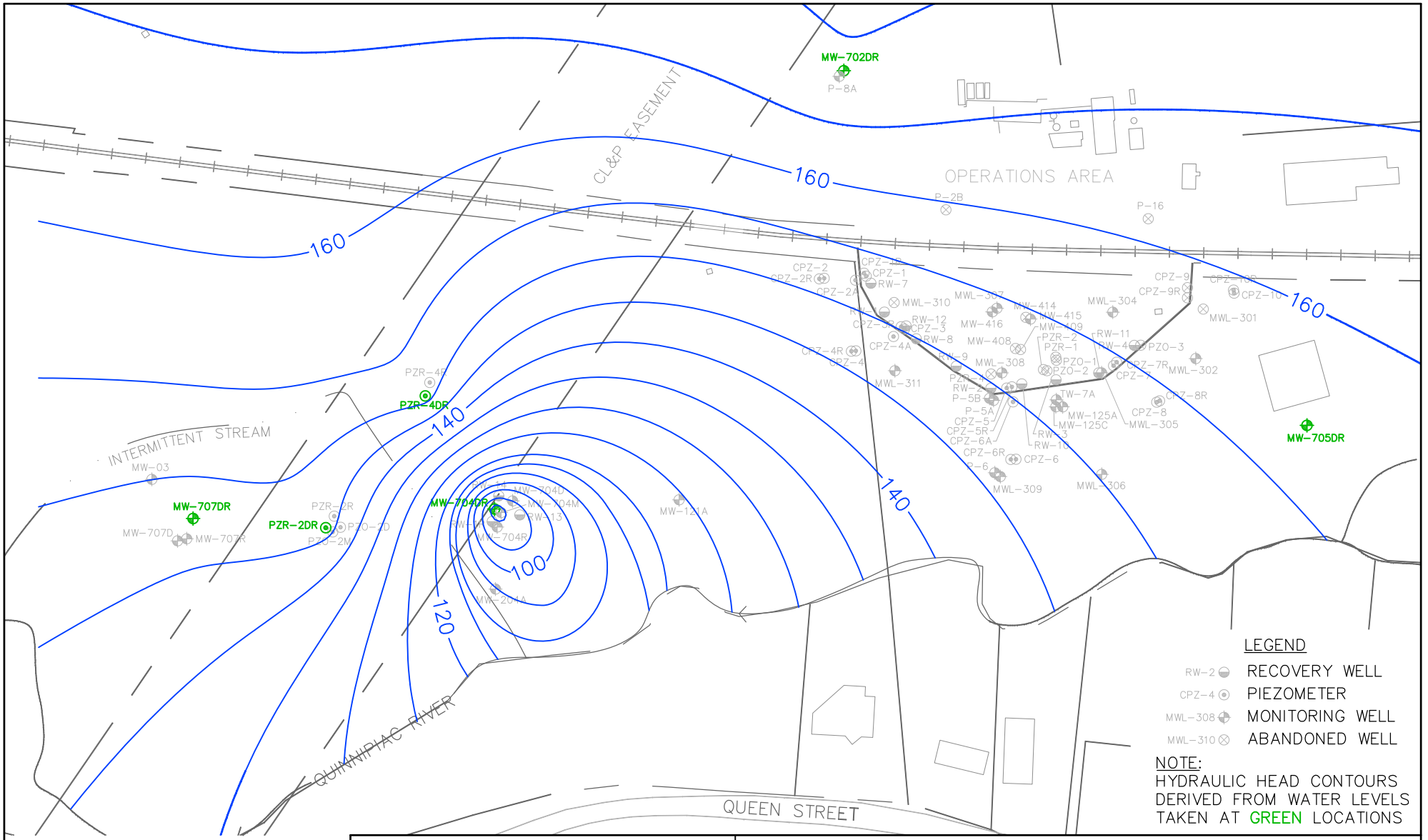
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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS APRIL 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

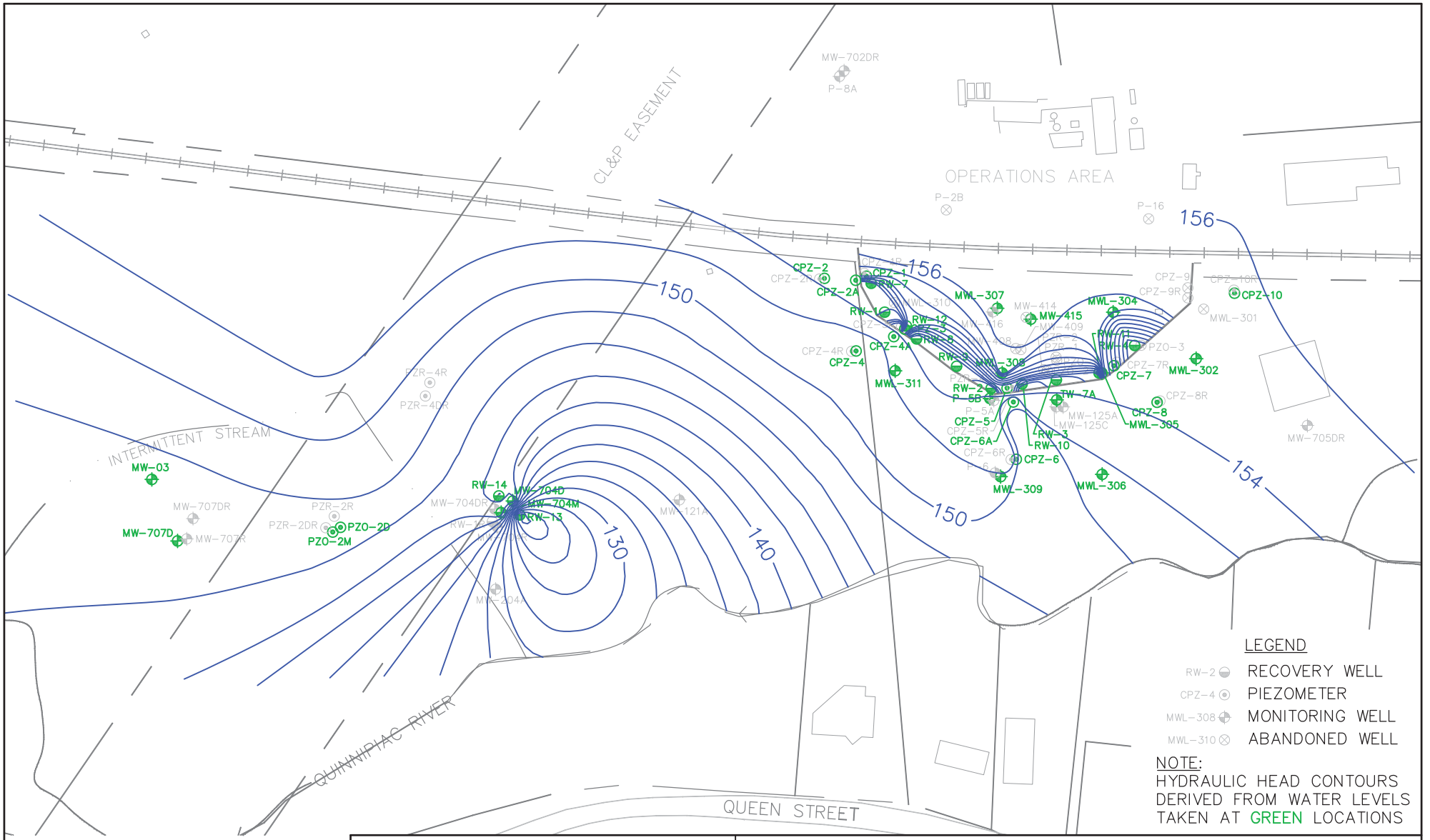
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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS MAY 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

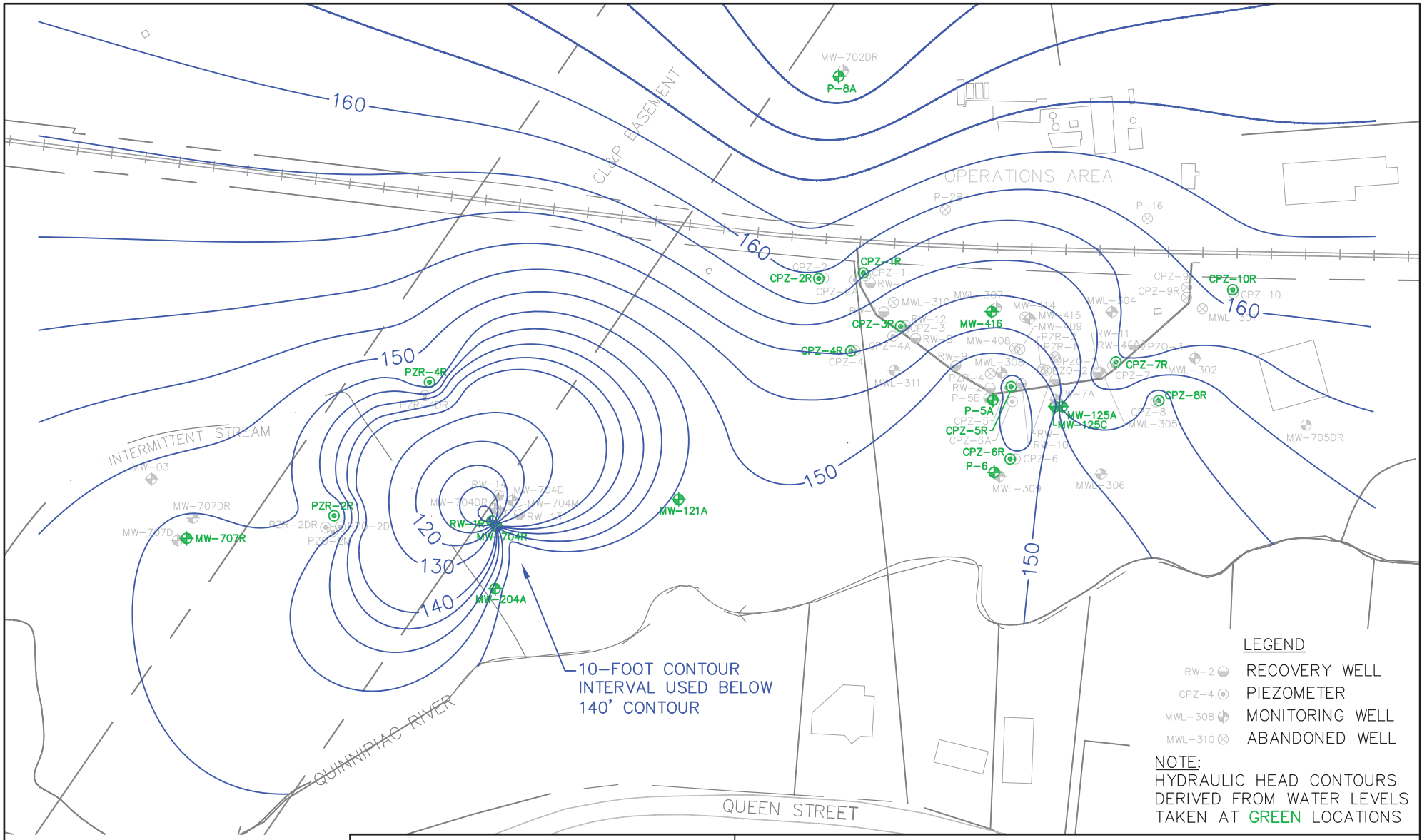
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CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS MAY 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

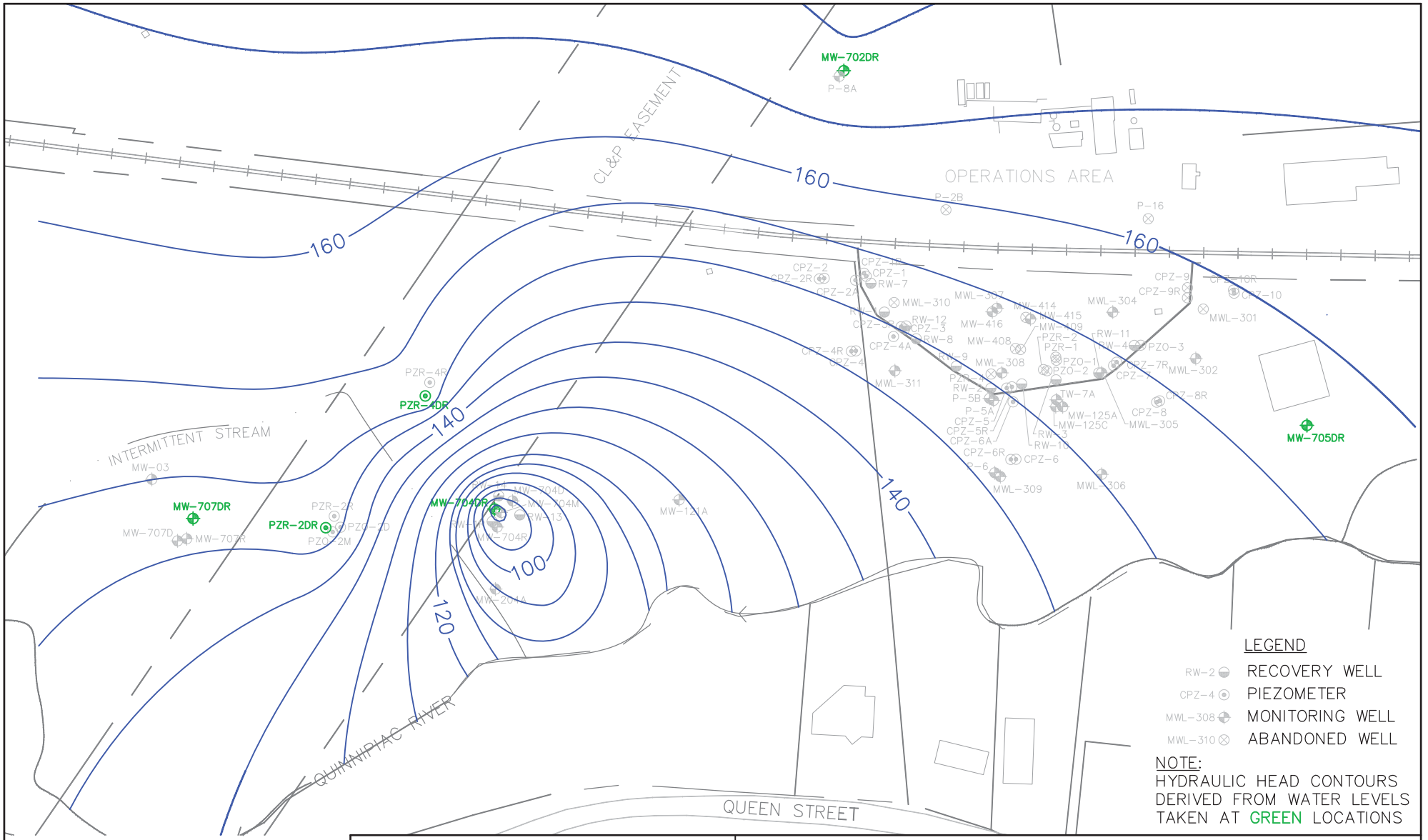
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS MAY 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

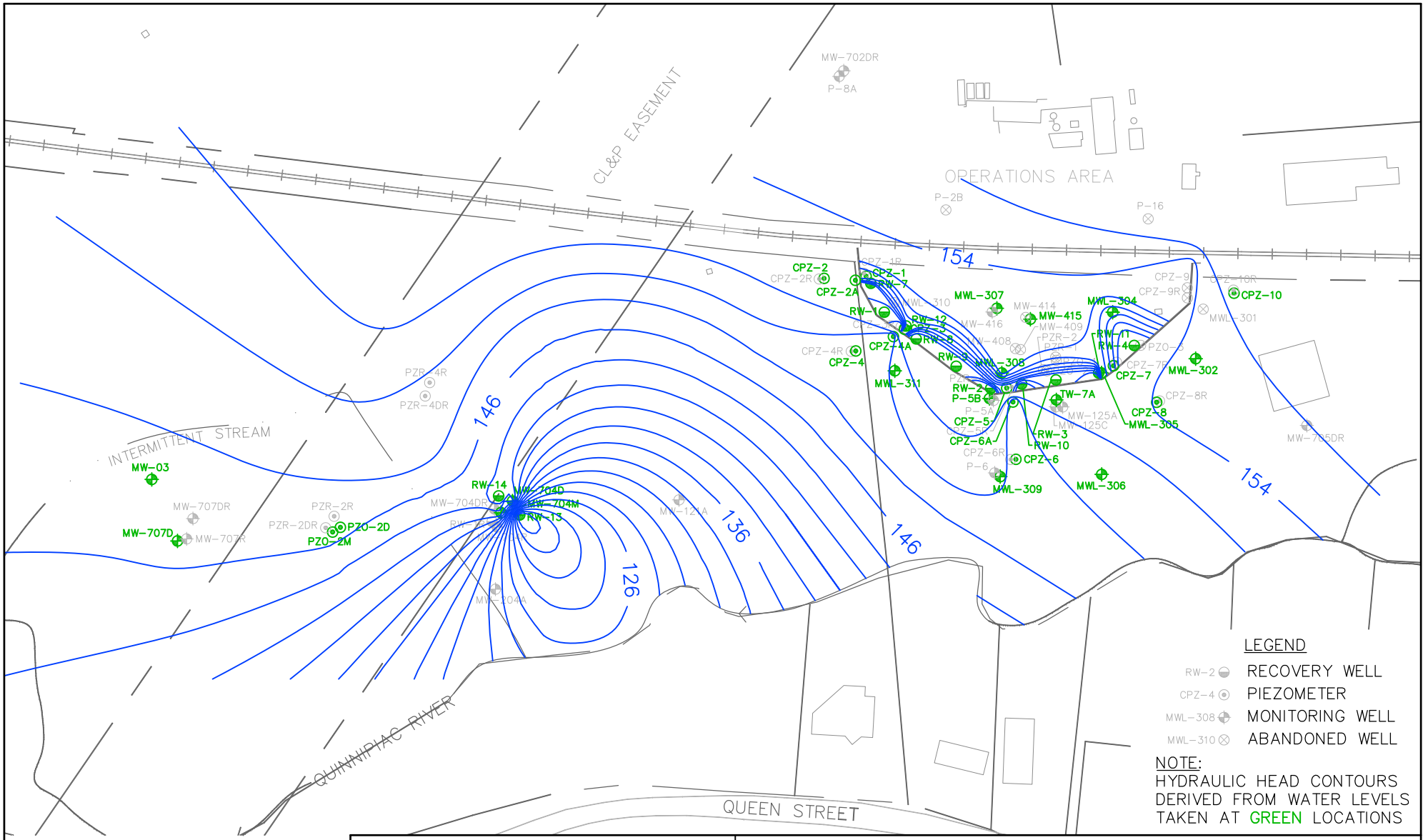
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OVERBURDEN HYDRAULIC HEAD CONTOURS JUNE 27, 2014

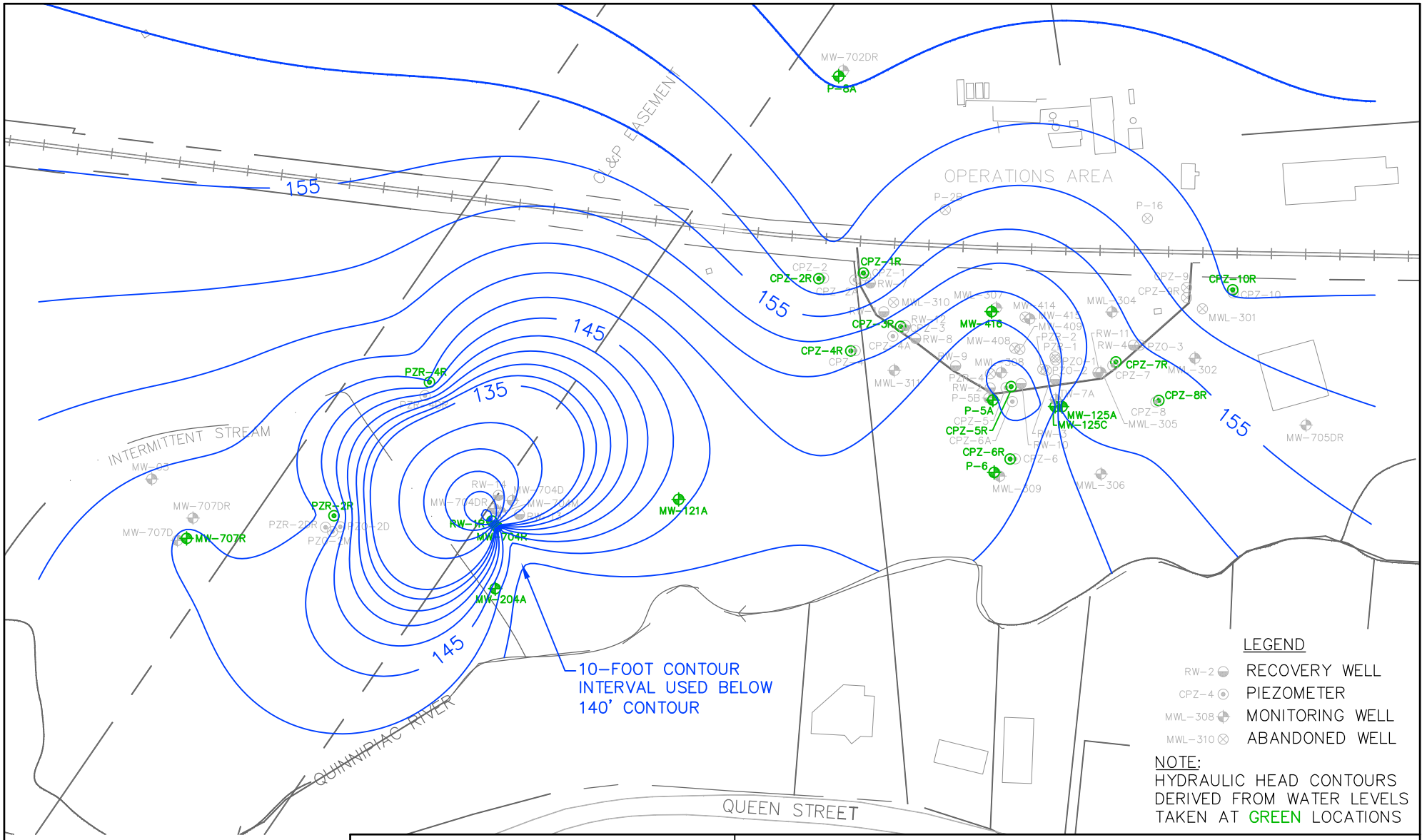
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SOUTHINGTON, CONNECTICUT

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS JUNE 27, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

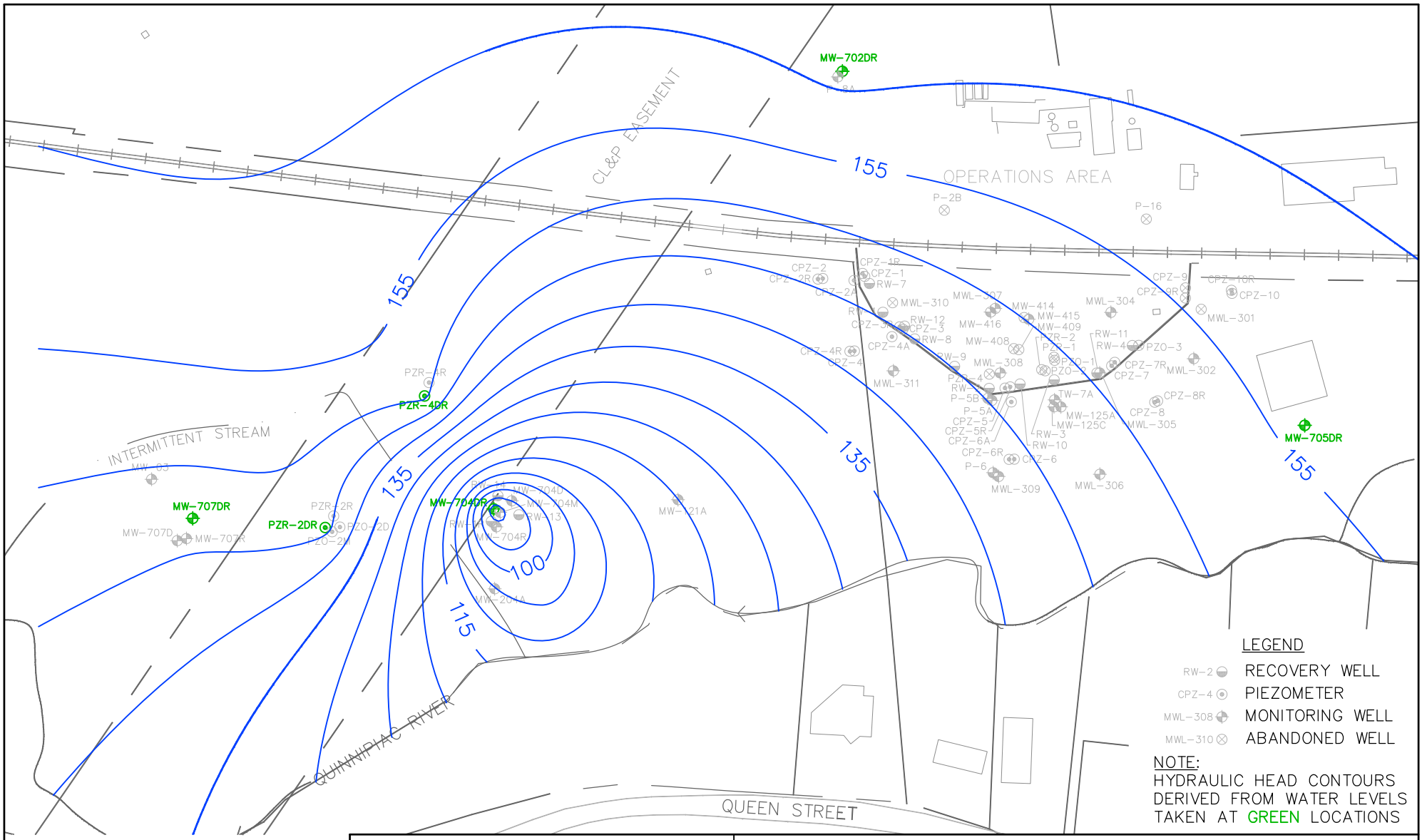
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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS JUNE 27, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

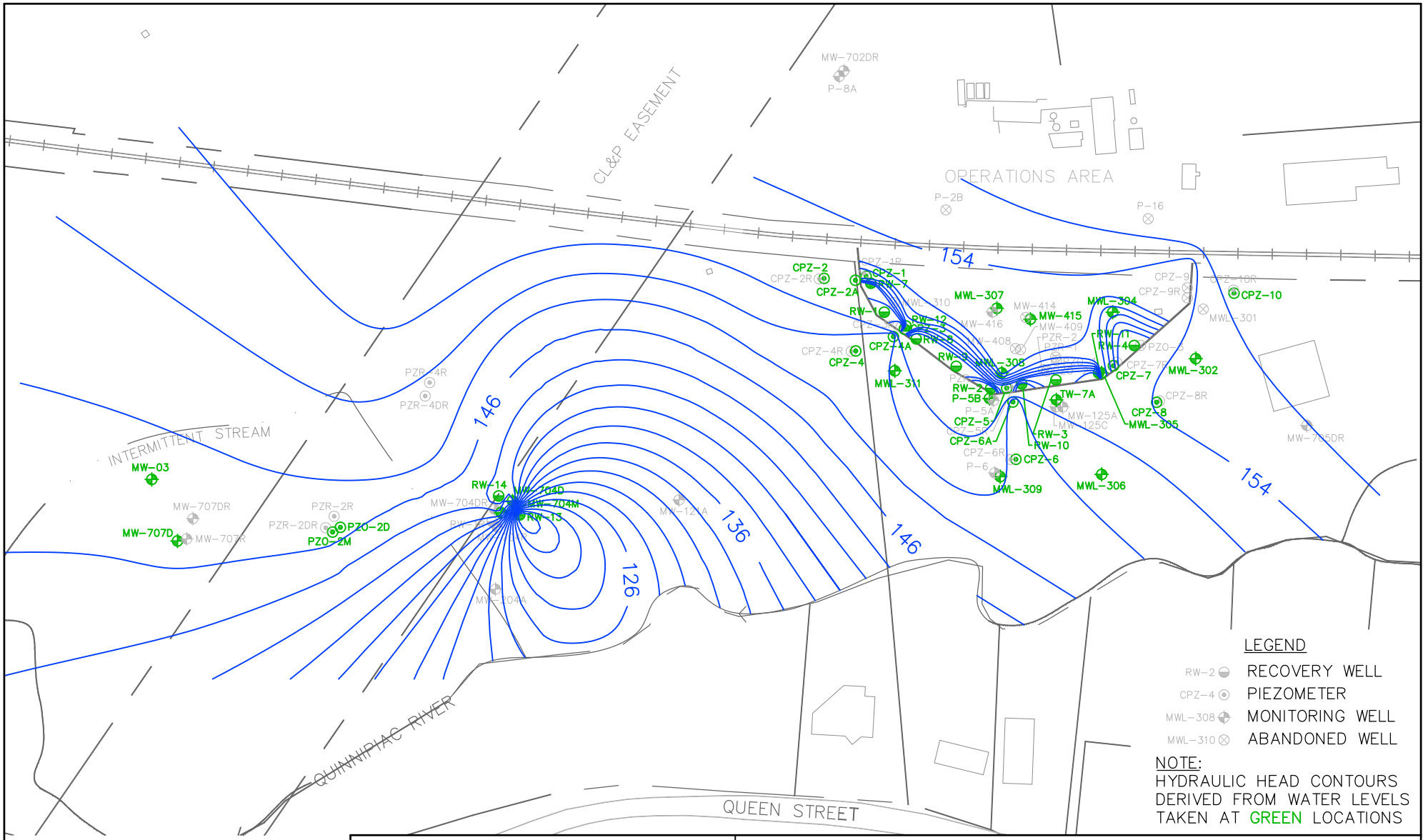
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CONCORD NEW HAMPSHIRE

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LEGEND

- RW-2 RECOVERY WELL
- CPZ-4 PIEZOMETER
- MWL-308 MONITORING WELL
- MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE
200 100 0 100 200
APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS JULY 28, 2014

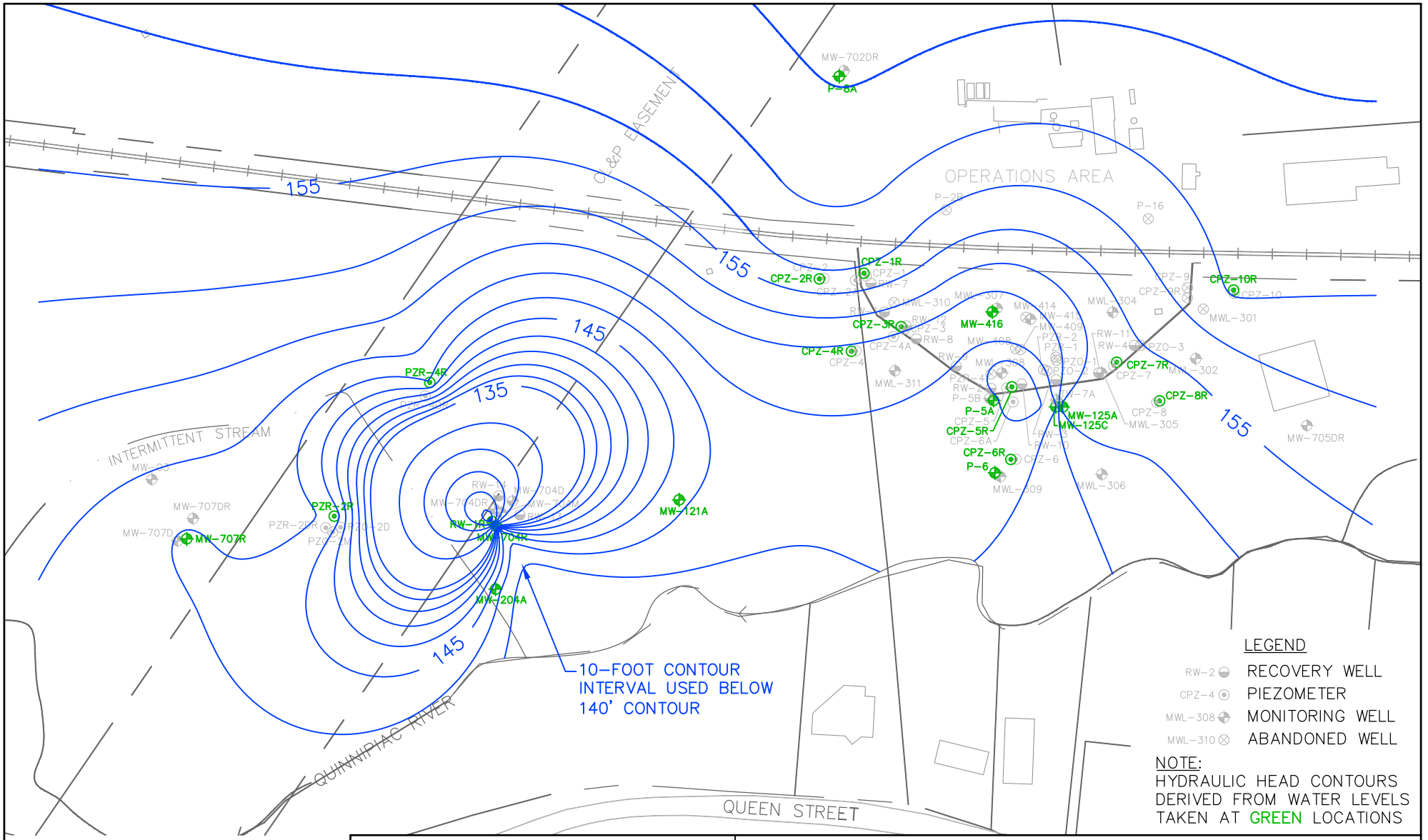
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SOUTHINGTON, CONNECTICUT

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS JULY28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

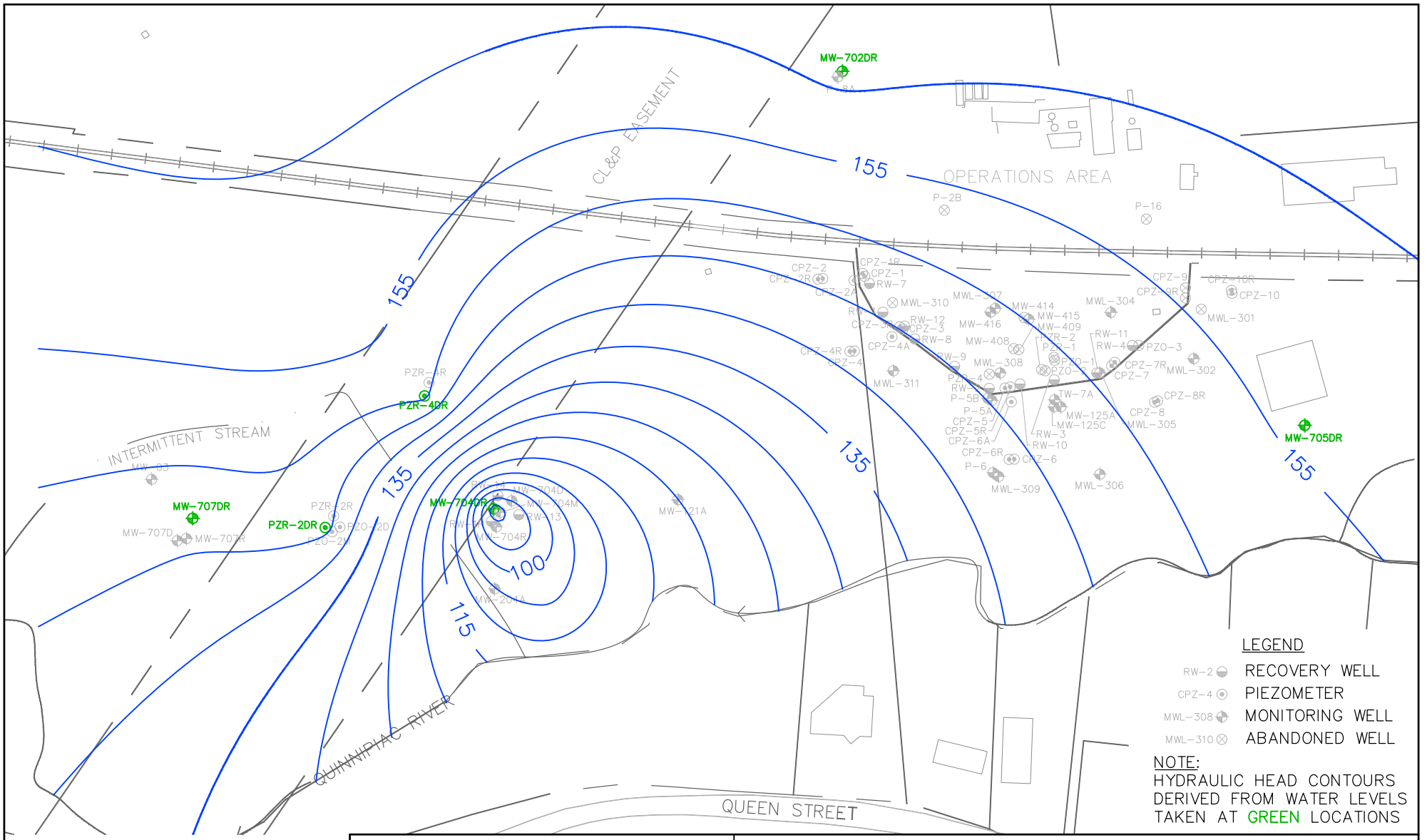
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS JULY 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

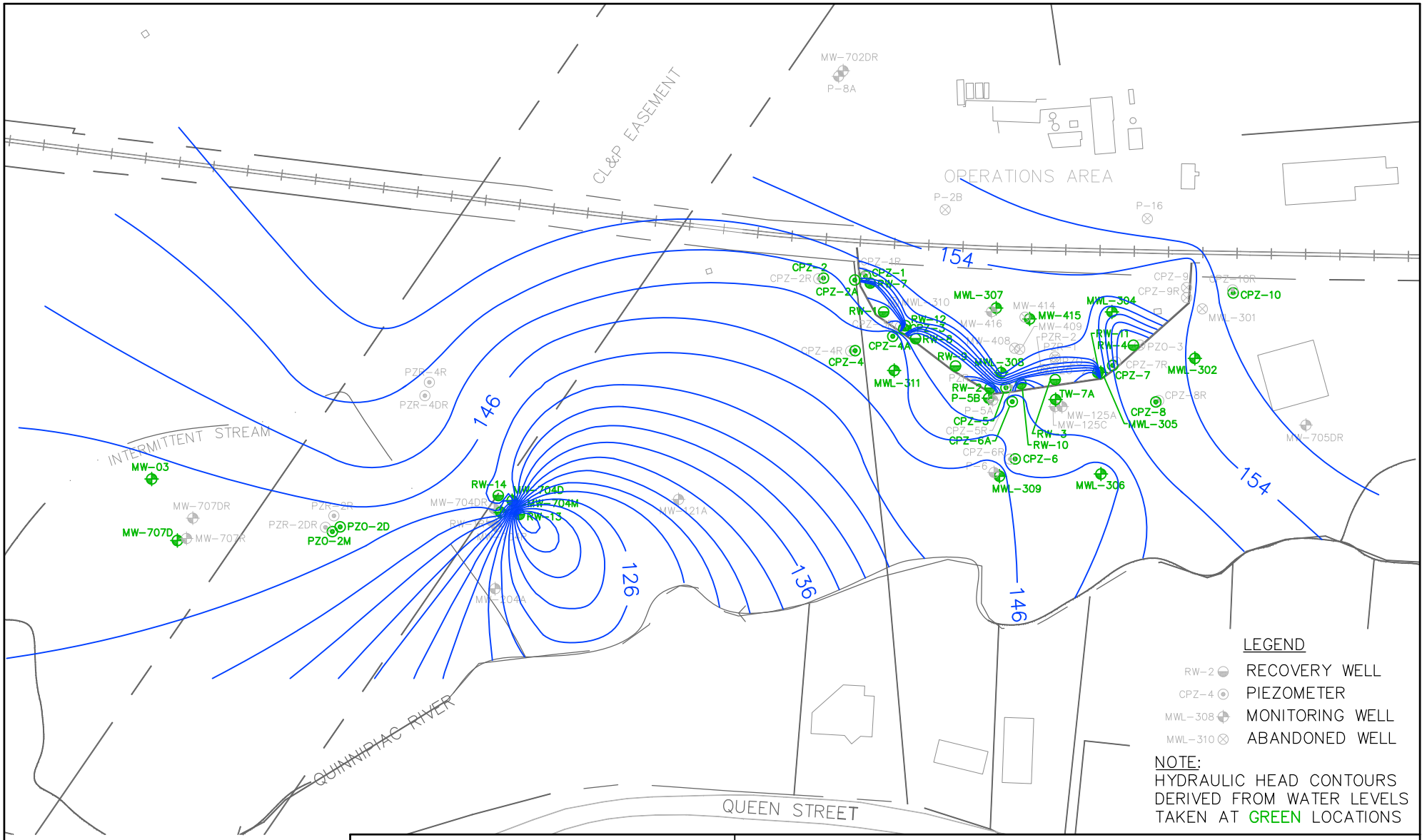
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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS AUGUST 26, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

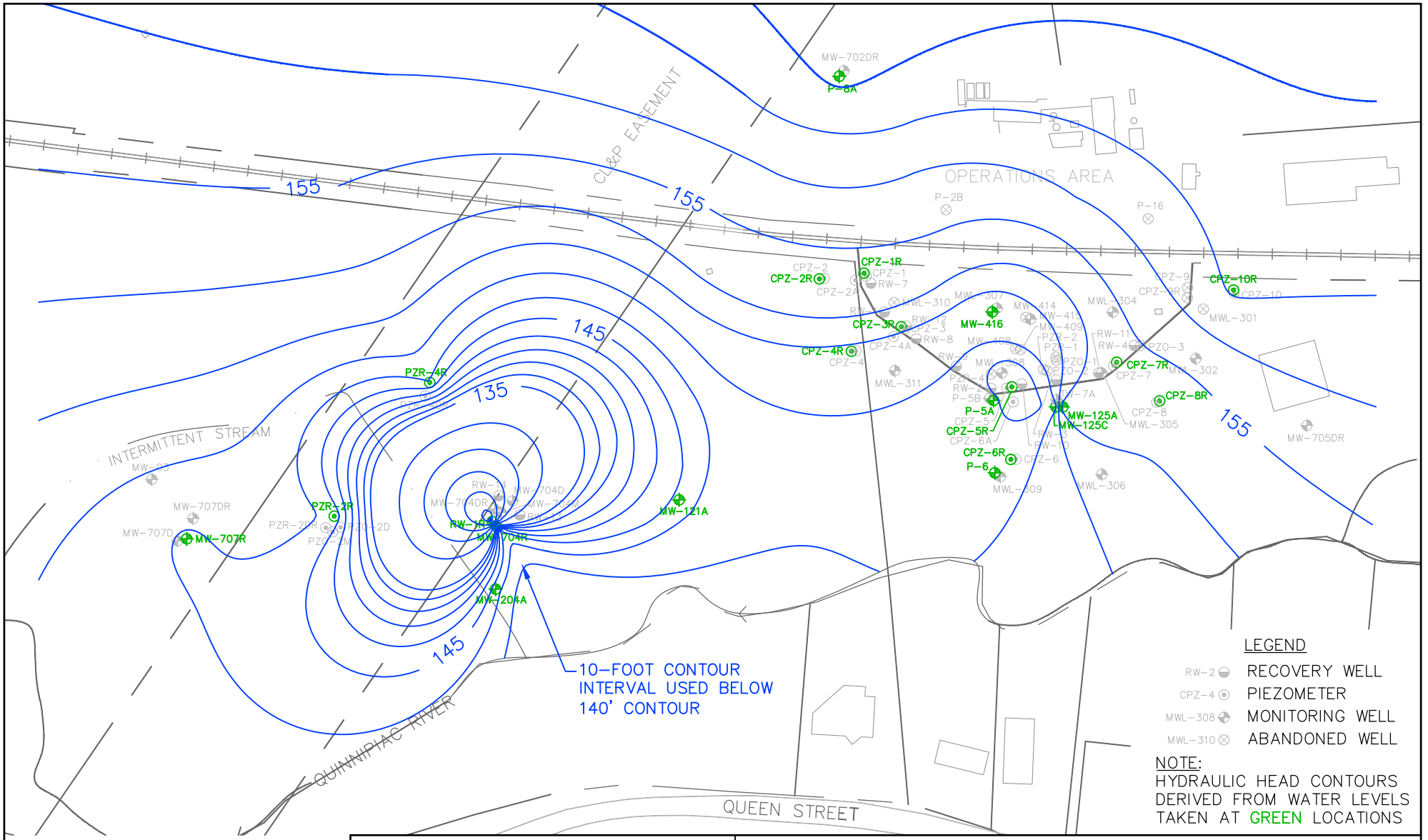
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CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS AUGUST 26, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

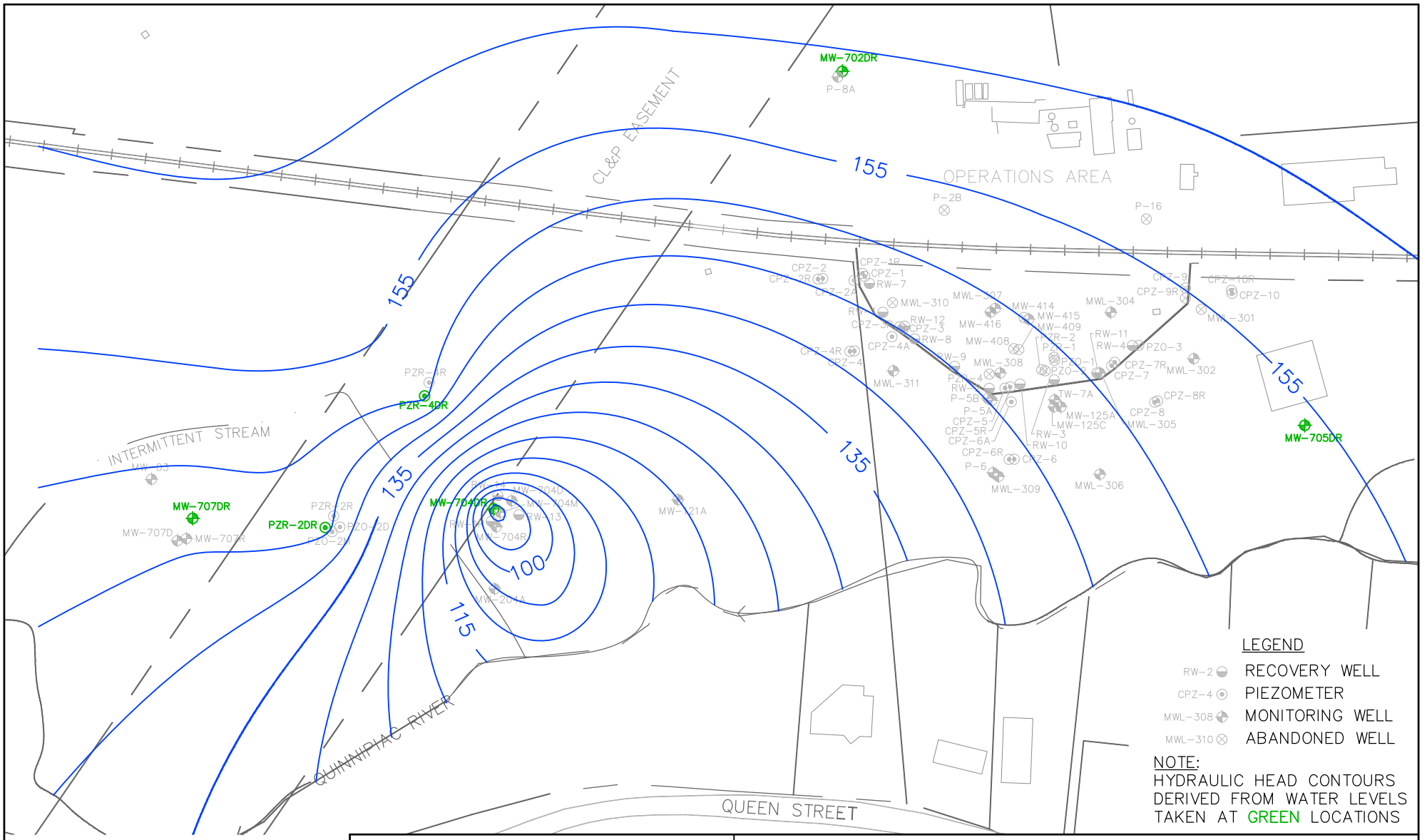
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GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS AUGUST 26, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

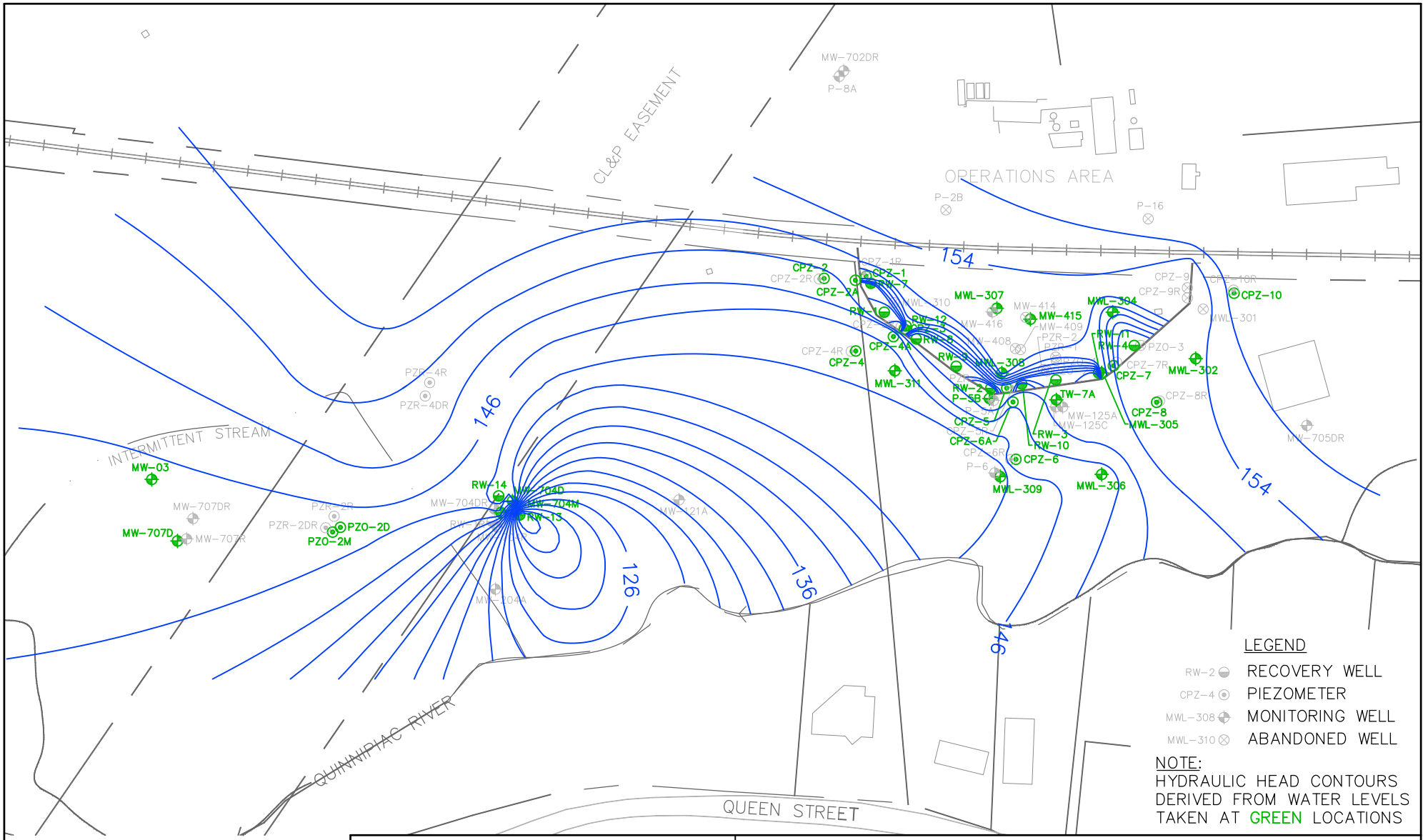
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CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS SEPTEMBER 29, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

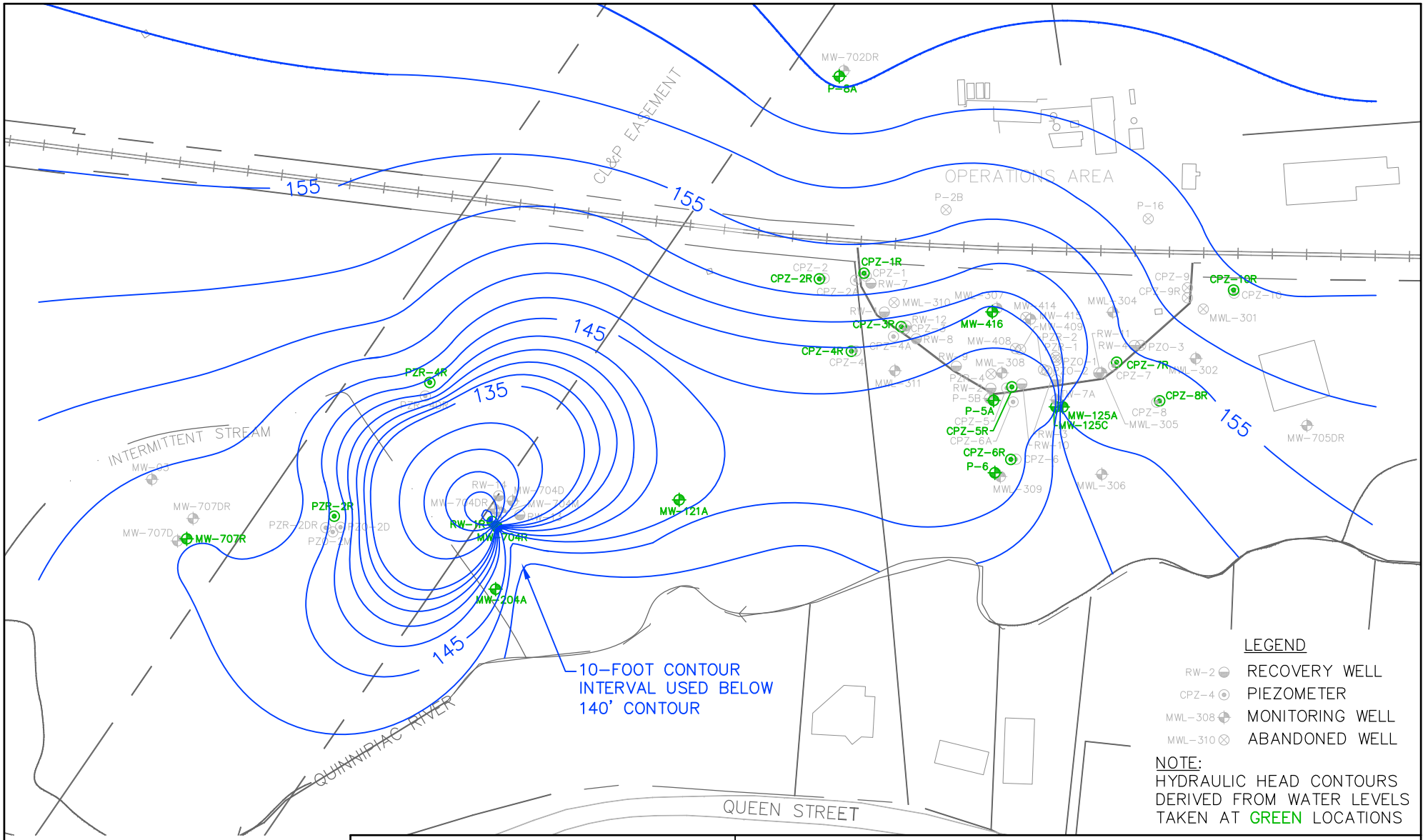
WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

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APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS SEPTEMBER 29, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

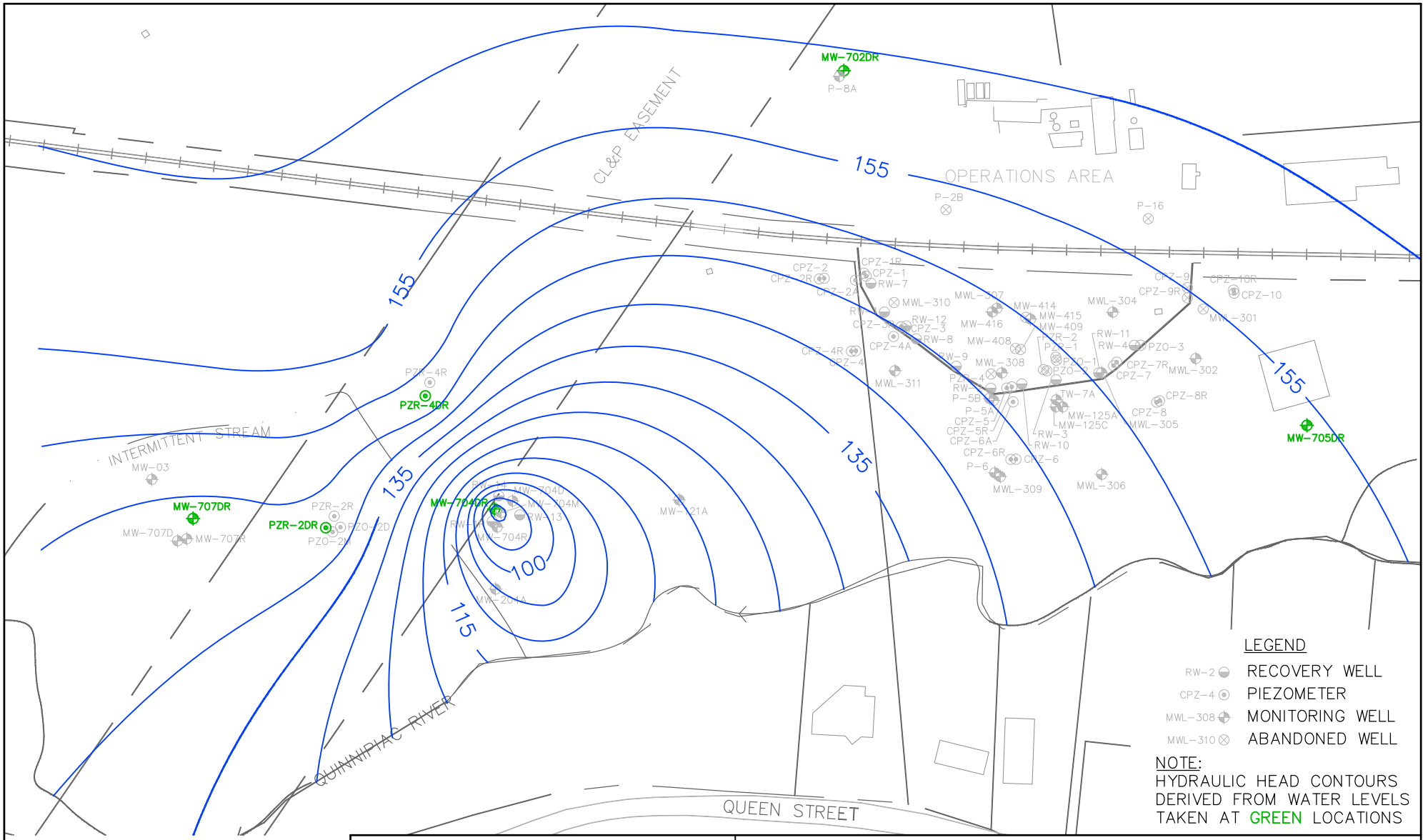
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LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS SEPTEMBER 29, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

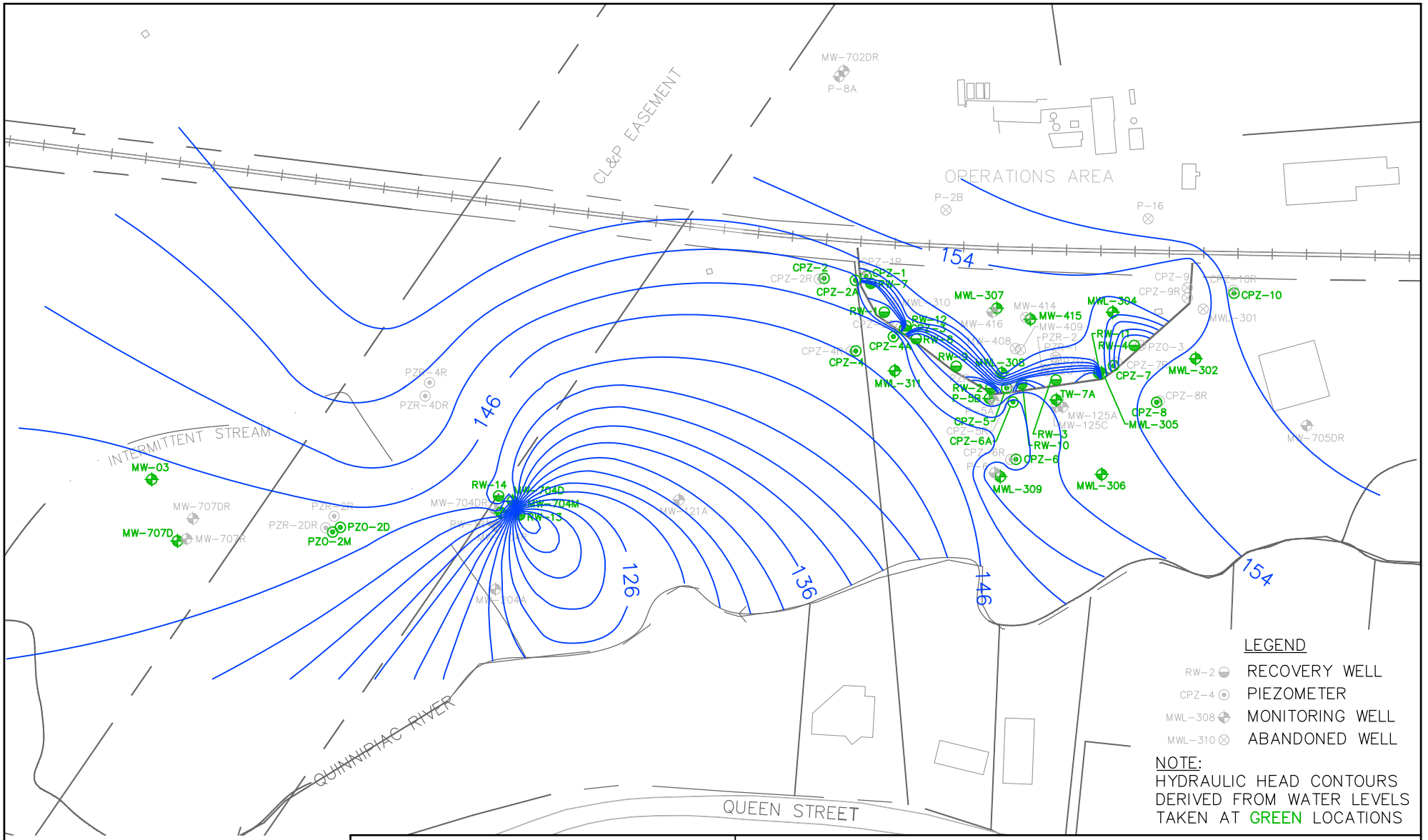
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LEGEND

RW-2 RECOVERY WELL
CPZ-4 PIEZOMETER
MWL-308 MONITORING WELL
MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE
200 100 0 100 200
APPROXIMATE SCALE IN FEET

OVERBURDEN HYDRAULIC HEAD CONTOURS OCTOBER 28, 2014

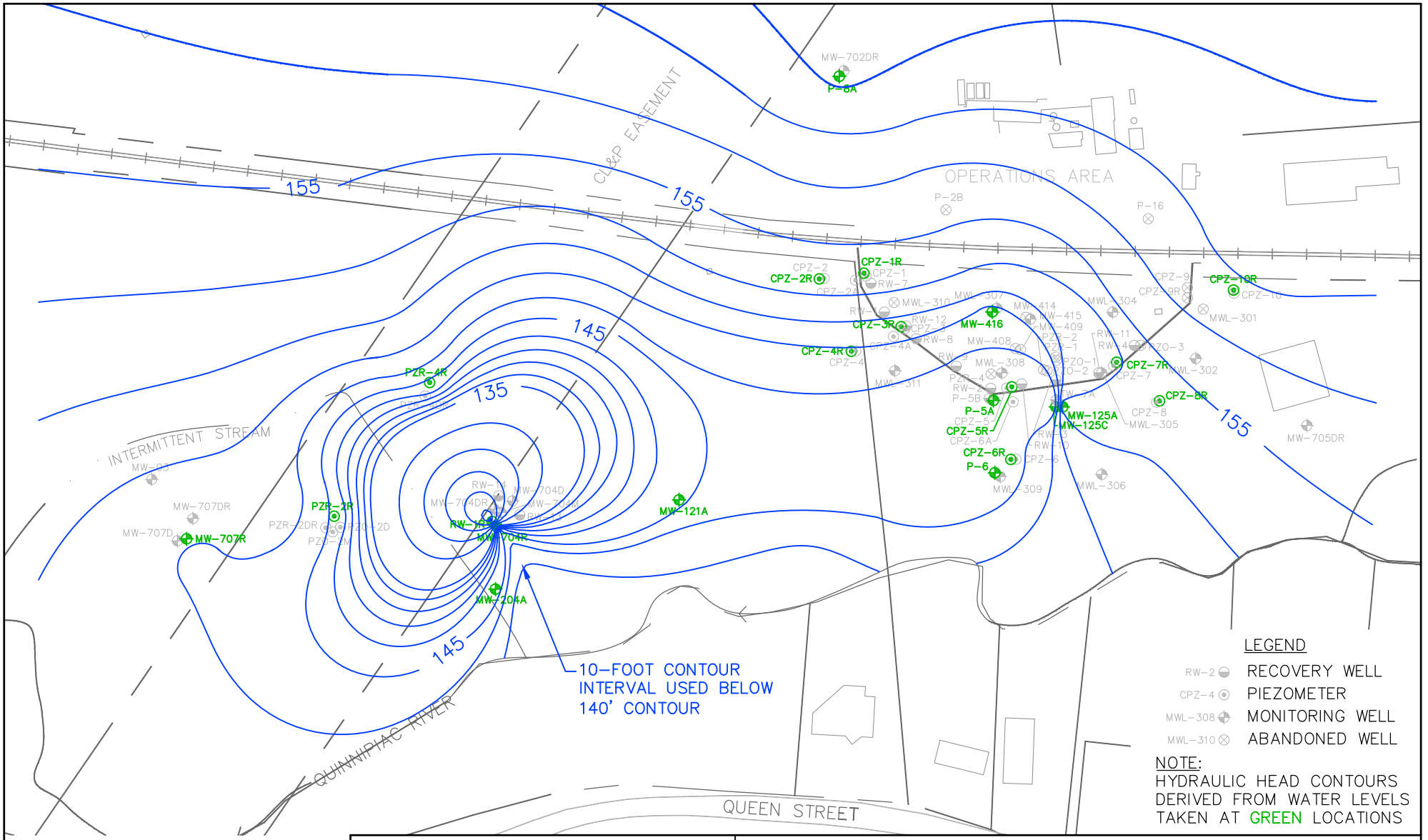
SRSNE
SOUTHINGTON, CONNECTICUT

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

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GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

SHALLOW BEDROCK HYDRAULIC HEAD CONTOURS OCTOBER 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

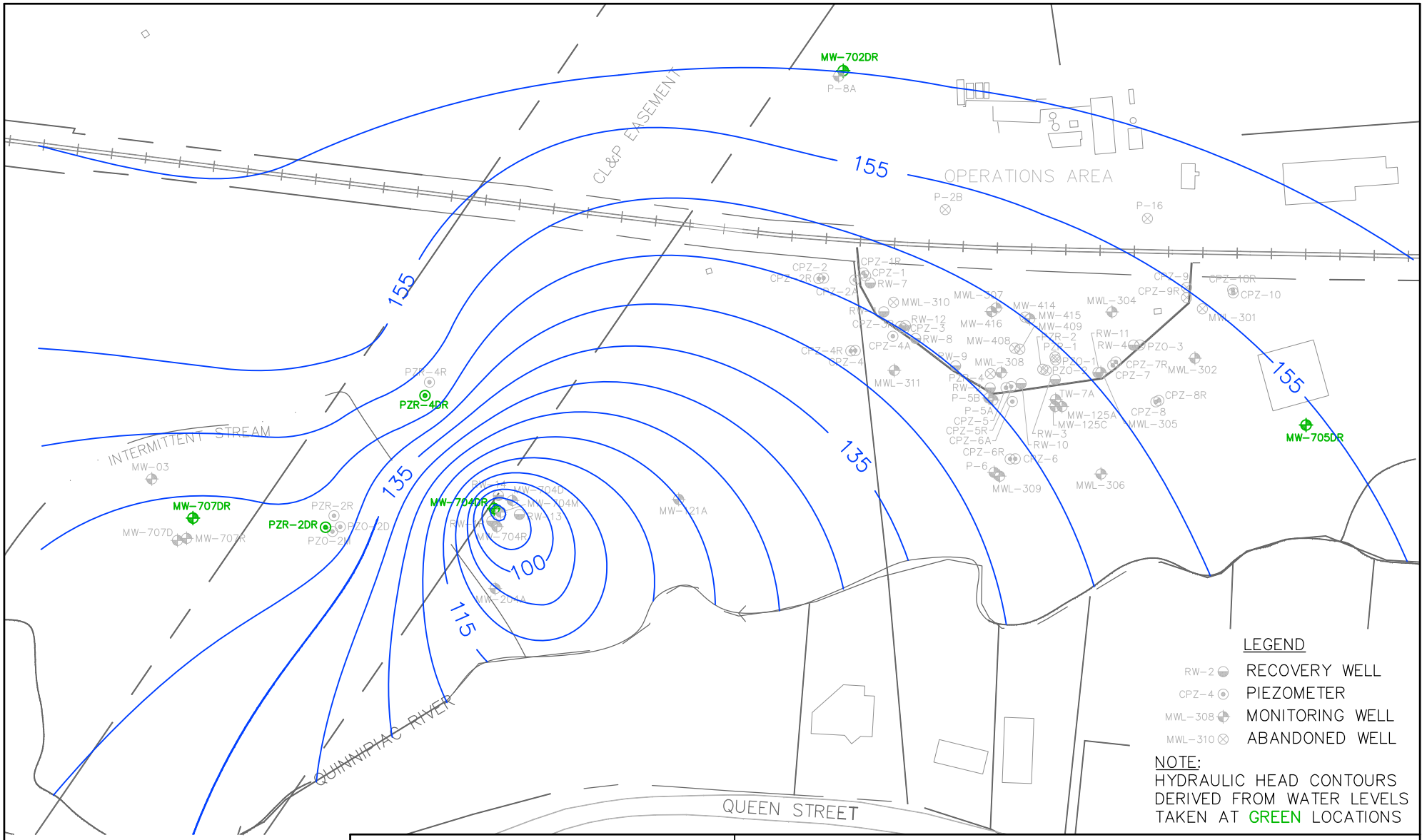
WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
TAC	NOV 2014			13056.001.019
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
		AS SHOWN		12B

M:\Design\DWG\SRSNE\Oct 28 2014\deep bedrock.dwg, Layout1, 11/25/2014 12:12:39 PM, girardeb, 1:1

DRAFT



LEGEND

RW-2 RECOVERY WELL

CPZ-4 PIEZOMETER

MWL-308 MONITORING WELL

MWL-310 ABANDONED WELL

NOTE:
HYDRAULIC HEAD CONTOURS DERIVED FROM WATER LEVELS TAKEN AT GREEN LOCATIONS

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

DEEP BEDROCK HYDRAULIC HEAD CONTOURS OCTOBER 28, 2014

SRSNE
SOUTHINGTON, CONNECTICUT

WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
TAC	NOV 2014			13056.001.019
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
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FIGURE 13

31 Oct. 2013 through 30 Oct. 2014

Hydraulic Gradient Between CPZ-05 and CPZ-06
NTCRA-1 Overburdern Compliance Pair

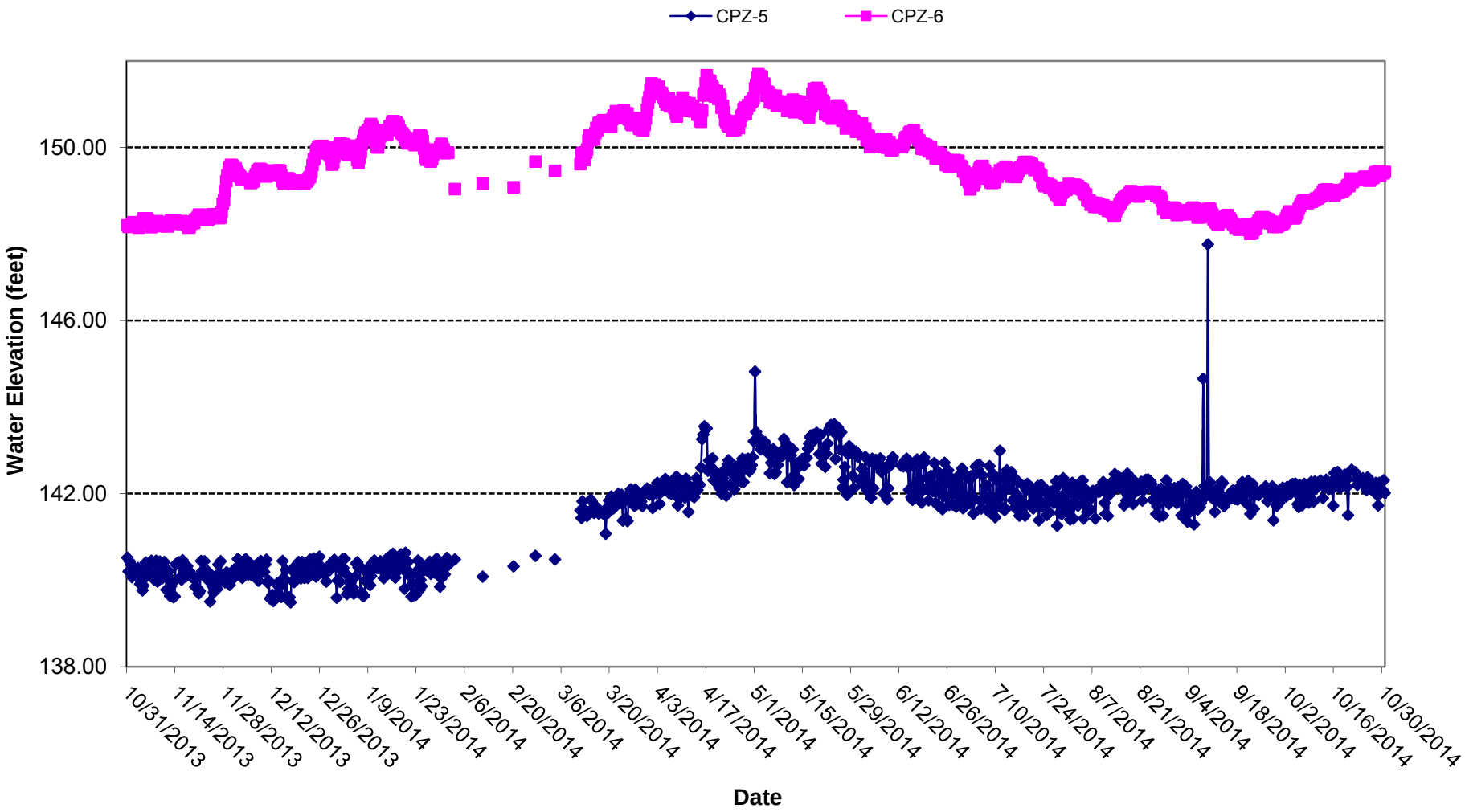


FIGURE 14A

31 Oct. 2013 through 30 Oct. 2014

Hydraulic Gradient Between MW-704R and PZR-2R
NTCRA-2 Shallow Bedrock Compliance Pair

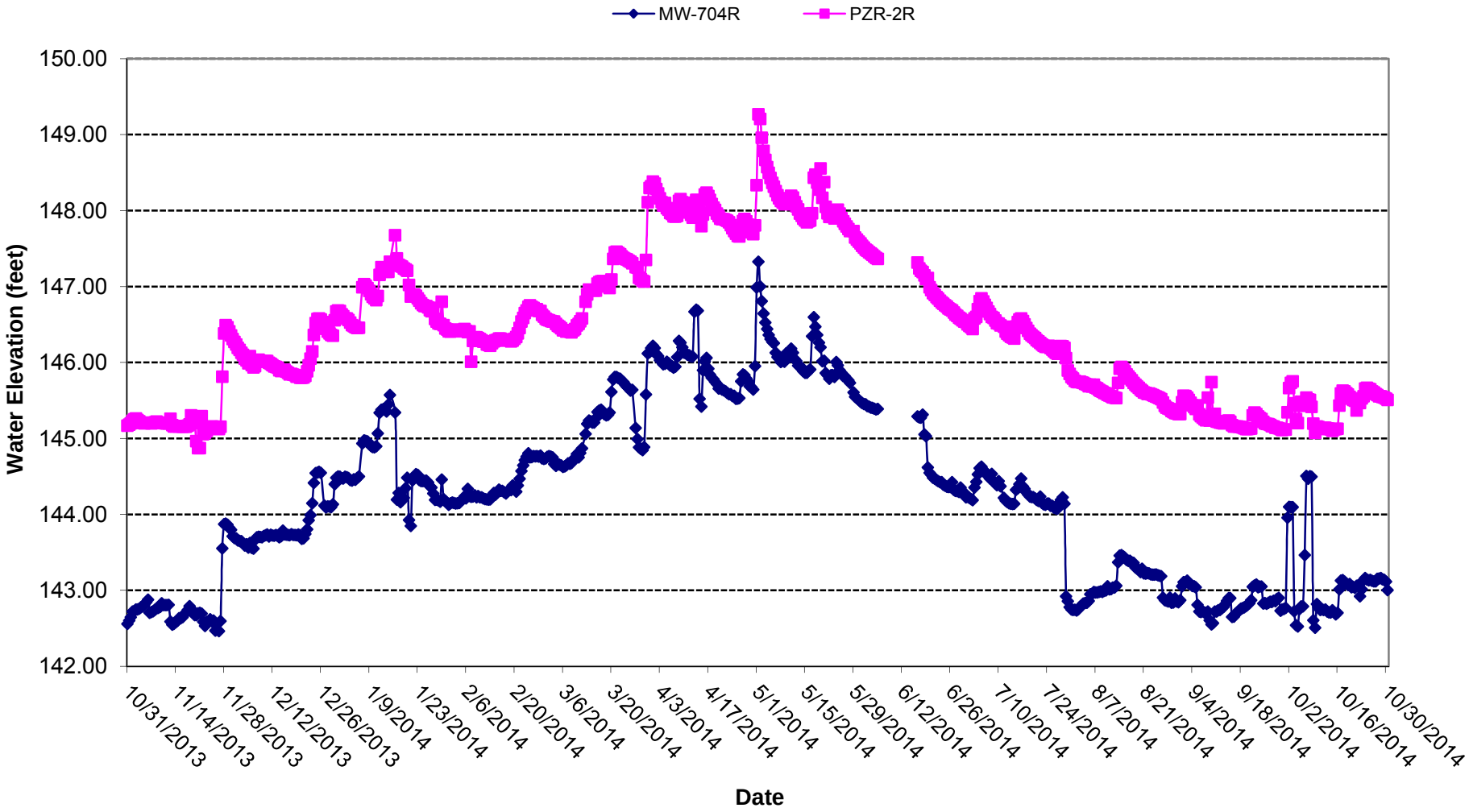
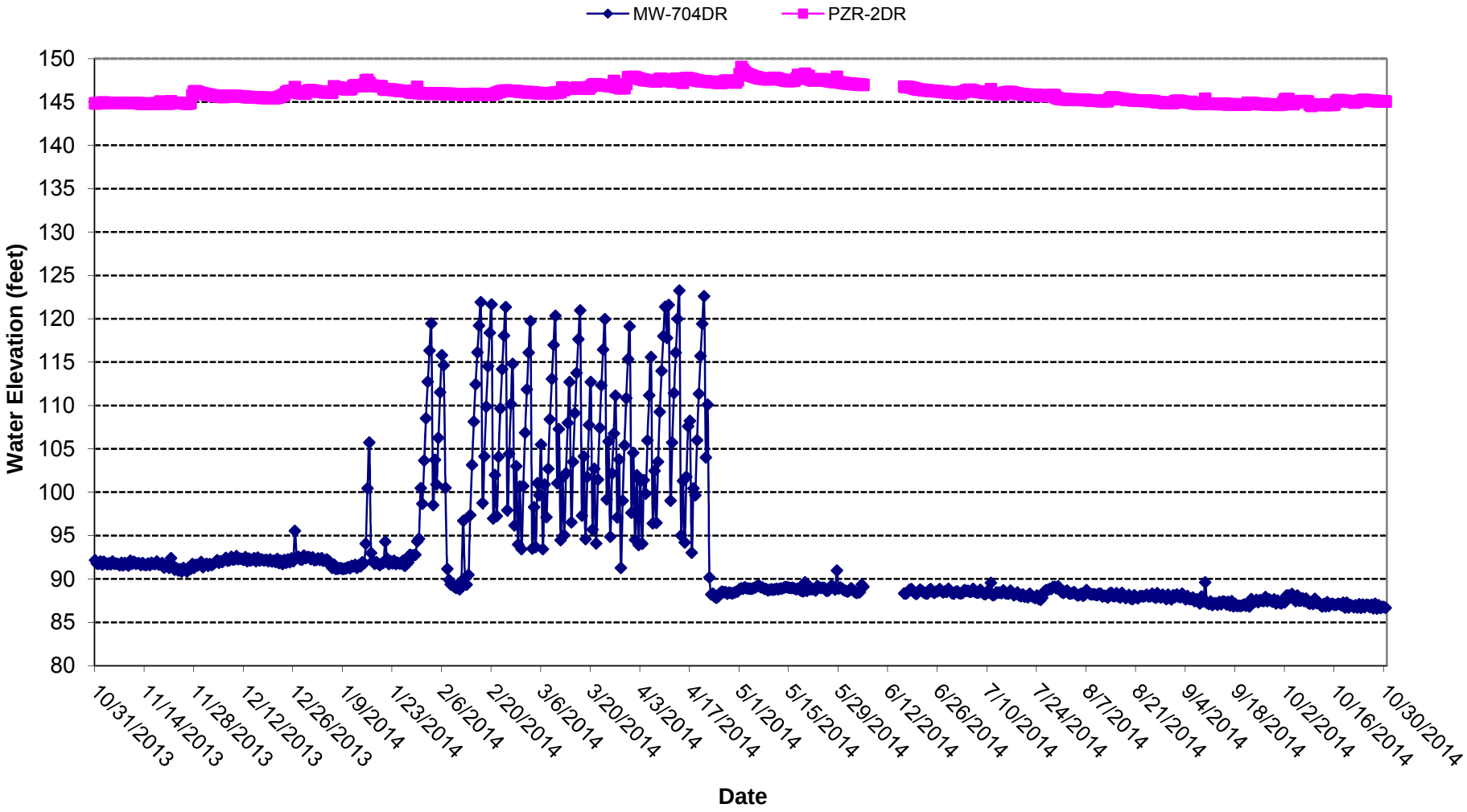


FIGURE 14B

31 Oct. 2013 through 30 Oct. 2014

Hydraulic Gradient Between MW-704DR and PZR-2DR
NTCRA-2 Deep Bedrock Compliance Pair



Attachment 3

2014 Groundwater Sampling and Monitored Natural Attenuation Report

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SRSNE Site Group

2014 Groundwater Sampling and Monitored Natural Attenuation Report

Solvents Recovery Service of New England, Inc.
(SRSNE) Superfund Site
Southington, Connecticut

September 2014

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Disclaimer: *This document is a DRAFT document prepared by the Settling Defendants under a government Consent Decree. This document has not undergone formal review by the EPA and CT DEEP. The opinions, findings, and conclusions, expressed are those of the author and not those of the U.S. Environmental Protection Agency or the CT Department of Energy and Environmental Protection.*

2014 Groundwater Sampling and Monitored Natural Attenuation Report

Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

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SRSNE Site Group

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B0054634.0001.02200

Date:
September 2014

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Executive Summary

This *2014 Groundwater Sampling and Monitored Natural Attenuation Report* (MNA Report) was prepared to address certain requirements of the Statement of Work (SOW) for the Remedial Design/Remedial Action (RD/RA) activities at the Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site in Southington, Connecticut (Site). Specifically, this report summarizes the 2014 comprehensive groundwater sampling event performed in accordance with the *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Work Plan; Attachment N to the Remedial Design Work Plan [RDWP]; ARCADIS 2010b), and presents the results and interpretation of data collected in support of MNA as a remedy for groundwater that contains Site-related constituents of concern (COCs) at concentrations above risk levels or regulatory limits. Monitored natural attenuation is a component of the overall remedial strategy for Site groundwater as described in the United States Environmental Protection Agency's (USEPA's) 2005 Record of Decision (ROD) for the Site.

In accordance with the Work Plan, the 2014 comprehensive groundwater sampling event was performed in June 2014 and included sampling of groundwater at 129 monitoring wells for analysis of volatile organic compounds (VOCs), 1,4-dioxane, target analyte list (TAL) metals, and/or MNA parameters. With the exception of recently installed wells, these wells were also sampled for the full suite of potential Site-related constituents in 2010 as part of the initial "comprehensive" event (ARCADIS 2010a). Henceforth, "comprehensive" sampling events are expected to be conducted at five-year intervals in support of the USEPA's Five-Year Review schedule.

The June 2014 results indicate that:

- VOCs and TAL metals above Action Levels (the more stringent of the USEPA Maximum Contaminant Levels [MCLs] or Connecticut Class GA Groundwater Protection Criteria [GWPC]) are contained within the previously estimated containment boundary of the hydraulic containment and treatment system (HCTS).

- Tetrachloroethene (PCE) and trichloroethene (TCE) were detected at monitoring well PZO-2M at concentrations of 8.64 micrograms per liter (μg/L) and 17.7 μg/L, respectively, in the June 2014 sample. Although these concentrations are above the Action Level of 5.0 μg/L for both compounds, they represent a significant decrease from the June 2013

event (79 μg/L and 250 μg/L, respectively). PCE was first detected above the Action Level at this well in June 2013, while TCE was first detected above the Action Level in June 2012.

- TCE was also detected at monitoring well MW-1003DR at a concentration above the Action Level of 5 μg/L. However, benzene and PCE, which were detected above their respective Action Levels in this well in June 2013, were again below their respective Action Levels in June 2014.

- Benzene was detected at monitoring well MW-1001R at a concentration of 10.6 μg/L, which exceeds the Action Level for this constituent (1 μg/L). The well was resampled in September 2014 with a similar result (11.7 μg/L benzene). This well is located in the cemetery east of Queen Street. The concentration gradients, detected COC distribution, and local groundwater flow characteristics suggest the source is unrelated to the SRSNE Site.

This MNA Report fulfills the requirement set forth in Section VII.A.2 of the SOW and the reporting approach outlined in the MNA Plan that was presented as Attachment L to the RDWP (ARCADIS 2009). This MNA Report presents results of an evaluation of the effectiveness of MNA as a remedial measure for COCs in groundwater in the Site. As an extension of the prior evaluations (presented in the 2010 through 2013 MNA Reports; ARCADIS 2010a, ARCADIS 2011b, ARCADIS 2012b and ARCADIS 2013, respectively), this evaluation considers groundwater monitoring results from the June 2014 annual groundwater monitoring event for VOCs, 1,4-dioxane, TAL metals and MNA parameters at a subset of monitoring wells; evaluation of current concentration trends for total VOCs in groundwater at select monitoring locations; estimates of bulk attenuation rates for total VOCs in groundwater; and presentation of HCTS COC mass extraction rates with time. Results of these evaluations indicated:

- Detected concentrations of VOCs above Action Levels are contained within the previously estimated containment boundary of the HCTS.

- Groundwater total VOC concentrations are generally declining or stable throughout the Site groundwater COC plume.

- Estimated bulk VOC attenuation rates were comparable to attenuation rates for individual COCs presented in the *Feasibility Study* (FS) (Blasland, Bouck & Lee, Inc. [BBL] and USEPA 2005).

- Compliance monitoring data from the HCTS indicate generally decreasing mass, consistent with the generally declining groundwater COC concentration trends.

These results support continued use of MNA as a remedy for COCs in Site groundwater. The MNA parameter analyte list was reviewed with respect to the value of continued monitoring of each parameter. Based on this review, the following parameters are proposed for removal from the MNA parameter analyte list for the stated reasons:

- Alkalinity – alkalinity concentrations are sufficiently high (greater than 10 milligrams per liter [mg/L]) to demonstrate adequate buffering for any acids that may form during microbial activity.

- Nitrate – nitrate concentrations are generally low (less than 1 mg/L) or below laboratory detection limits, indicating that nitrate is not a significant electron acceptor in Site groundwater. Other reduction-oxidation indicator parameters, including dissolved oxygen (DO) and dissolved iron and manganese, provide more robust information regarding Site groundwater reduction-oxidation processes.

- Chloride – chloride is not a predictor of reduction-oxidation condition and therefore will not contribute to the characterization of Site groundwater reduction-oxidation processes. Groundwater chloride concentrations may differ depending on geologic strata and chloride may also be derived from runoff of salts applied to road surfaces for de-icing purposes. Chloride is a byproduct of degradation of chlorinated VOCs; however, chloride concentrations are not well correlated with concentrations of chlorinated VOCs in Site groundwater. Use of chloride concentrations at specific monitoring locations to predict chlorinated VOC degradation may greatly over- or underestimate actual chlorinated VOC degradation. Chloride concentrations in HCTS influent water will continue to be monitored on a regular basis.

ARCADIS

1. Introduction

1.1 Purpose

This *2014 Groundwater Sampling and Monitored Natural Attenuation Report* (MNA Report) was prepared on behalf of the Solvents Recovery Service of New England, Inc. (SRSNE) Site Group, an unincorporated association of Settling Defendants to a Consent Decree (CD), to address certain requirements of the Statement of Work (SOW) for the Remedial Design/Remedial Action (RD/RA) at the SRSNE Superfund Site in Southington, Connecticut (Site) (Figure 1). The CD was lodged on October 30, 2008 with 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 was entered by the Court on March 26, 2009.

This MNA Report presents the results and evaluation of data collected during the June 2014 comprehensive groundwater monitoring event conducted in accordance with the *Remedial Design Work Plan* (RDWP) and the *MNA Plan* (Attachment L to the RDWP [ARCADIS 2010c]), and in fulfillment of the requirements of the SOW (Section IV.B.5.c).

Section VII.A.2 of the SOW requires the submittal of annual MNA Reports as part of the Annual State of Compliance Reports. Monitored natural attenuation is a component of the overall remedial strategy set forth for the Site in the Record of Decision (ROD) (United States Environmental Protection Agency [USEPA] 2005) for groundwater containing Site-related constituents of concern (COCs) at concentrations exceeding acceptable risk levels or regulatory limits.

1.2 Scope

In accordance with the *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Work Plan; Attachment N to the RDWP [ARCADIS 2010b]), the 2014 comprehensive groundwater sampling event was performed in June 2014 and included sampling of groundwater from 83 “C”, 29 “R”, 10 “N”, 4 “M”, and 3 “B”-designated monitoring wells. As further described in Section 3.1, the letter designations generally pertain to the locations, monitoring scope, and sampling frequency of monitoring wells. Having been sampled for a full suite of potential Site-related parameters in 2010, the analytical suite for these wells in 2014 included only volatile organic compounds (VOCs), 1,4-dioxane, target analyte list (TAL) metals, and/or MNA parameters, as indicated in the Work Plan for each well designation.

Monitored natural attenuation refers to the reliance on natural attenuation (NA) processes, within the context of a carefully controlled and monitored site cleanup approach, to achieve site-specific remediation objectives within a time frame that is reasonable compared to that offered by more active methods. Natural attenuation is the reduction in mass or concentration of COCs in groundwater over time or distance from the source of the impact due to naturally occurring processes. Attenuation processes include non-destructive physical processes (e.g., advection, dilution, dispersion, volatilization, dissolution, and sorption) and destructive chemical and biological processes.

The MNA remedy at the Site applies to the groundwater and non-aqueous phase liquid (NAPL) and addresses the following areas of the Site, in accordance with the SOW:

- Groundwater and saturated glacial deposits (gravel, sand, silt and clay) in the "Overburden Groundwater" unit that contain COC concentrations above acceptable risk levels or regulatory criteria; and

- Groundwater and fractured rock in the "Bedrock Groundwater" unit that contain COC concentrations above acceptable risk levels or regulatory criteria.

COCs in overburden and bedrock groundwater are monitored as part of the MNA remedy. The Site COCs include VOCs such as chlorinated ethenes and ethanes, ketones, and aromatic compounds; TAL metals; polycyclic aromatic hydrocarbons (PAHs), 1,4-dioxane; polychlorinated biphenyls (PCBs) and alcohols. While the initial comprehensive sampling event (2010) included analyses for all of these COCs, the Work Plan does not include analyses for PAHs, PCBs, and alcohols during subsequent comprehensive groundwater monitoring events.

In addition to monitoring COC concentrations, the MNA Plan specifies long-term monitoring of a suite of geochemical parameters ("MNA parameters") to confirm geochemical evidence of NA and to verify that biochemical processes continue to support COC degradation in Site groundwater. The MNA parameters monitored at the Site include anions (sulfate, chloride, nitrate, nitrite), total organic carbon (TOC), iron (ferric, ferrous), divalent manganese, light hydrocarbons (methane, ethane, ethene), dissolved oxygen (DO), oxidation/reduction potential (ORP), pH, alkalinity, and temperature.

1.3 Document Organization

The remainder of this MNA Report is organized into the following sections:

- **Section 2 – Comprehensive Groundwater Sampling Event – 2014:** summarizes the groundwater sampling activities performed in June 2014 and presents the results.
- **Section 3 – MNA Background:** describes the MNA performance monitoring program at the Site, including the Site conceptual model, MNA remedy, and performance standards.
- **Section 4 – Performance Monitoring:** describes the MNA performance monitoring program at the Site, including monitoring locations, parameters, frequency and objectives.
- **Section 5 – MNA Evaluation:** evaluates Site data based on results from the June 2014 comprehensive sampling event, and discusses the analysis of performance monitoring data, including the data quality assessment process, data interpretation approach, and statistical procedures.
- **Section 6 – Summary:** presents a summary of conclusions from the MNA evaluation and provides recommendations for action.
- **Section 7 – References:** lists the references cited within this MNA Report.

2. Comprehensive Groundwater Sampling Event – 2014

2.1 Scope of Work

The 2014 comprehensive groundwater sampling event was conducted to satisfy the requirements of SOW Section IV.B.5.c (comprehensive sampling events across the entire plume for five-year reviews). Groundwater samples were obtained from the following well groups and analyzed for the parameters specified below.

Well Group	Analytical Parameters
"C" Wells	VOCs 1,4-Dioxane TAL Metals
"R" Wells "N" Wells	VOCs 1,4-Dioxane TAL Metals MNA parameters
"M" Wells	TAL Metals (background) MNA parameters (background)
"B" Wells	TAL Metals (background)

The "C" wells are intended to be sampled during each of the comprehensive events (i.e., every five years). "R" wells are sampled routinely for VOCs (annually) and MNA parameters (every two years, or "biennially"). "N" wells are located between the railroad right-of-way and the Non-Time-Critical Removal Action (NTCRA) 1 sheet pile wall (i.e., within the NTCRA 1 Containment Area) and are sampled for VOCs and MNA parameters at various frequencies throughout the remediation phase of the project. "M" wells are background wells that are sampled annually for TAL Metals and biennially for MNA parameters, while the "B" wells are additional background wells that are sampled annually for TAL Metals only. Sampling frequencies for each well group were summarized in Table N-1 of the Work Plan.

Water-level measurements were collected from the well groups listed above, 34 "W" wells and 3 stream gauge points (SG-1, SG-2 and SG-3), which are used for water level measurements only. The well locations and measuring point elevations are summarized in Table 1. Site plans depicting the current monitoring well network in all five hydrostratigraphic zones are included as Figures 2 through 6.

Groundwater gauging data were used to calculate groundwater elevations (Table 2) at each monitoring well. The groundwater elevation data were then used to create groundwater elevation contour maps for each of the five hydrostratigraphic zones. The resulting contour maps for the shallow, middle and deep overburden, and shallow and deep bedrock, are presented on Figures 7 through 11, respectively.

2.2 Summary of Field Activities

The 2014 comprehensive groundwater sampling event was conducted June 9-13, 2014, and included sampling of 129 monitoring wells. Low-flow sampling methods consistent with those outlined in the *Summary of Initial (2010) Comprehensive Groundwater Sampling Event* (ARCADIS 2011a) were used at 74 of the 129 monitoring wells. HydraSleeves™ were used to collect samples from 54 of the 129 wells. The use of HydraSleeve™ sampling as part of the comprehensive event is a modification to the Work Plan that was proposed in a letter to the USEPA dated May 23, 2014, and subsequently approved by the USEPA in a letter dated May 23, 2014. Other modifications to the scope of the 2014 comprehensive event (relative to the scope presented in the Work Plan) that were proposed in the May 23, 2014 letter and approved by the USEPA included:

- Seven wells that have been installed as part of the investigation and delineation process – but that were not specifically contemplated at the time the monitoring program was established – were added to this event. This includes 3 wells that have been added as "C" wells (MW-910S, MW-1001M and MW-1001R) and 4 as "R" wells (MW-1002R, MW-1002DR, MW-1003R and MW-1003DR).

- Two wells originally included as "W" wells have been (or are slated to be) decommissioned since the RDWP was approved. Recovery well RW-6 was decommissioned in April 2011, because it was located near the thermal treatment area. Monitoring well CW-4-75 was found to be destroyed in July 2013 and is slated to be decommissioned.

- The Field Sampling Plan (FSP; Attachment B to the *Remedial Design Project Operations Plan* [ARCADIS 2012a]) called for an expanded purging approach (i.e., using the "purge plus" method) for wells with screened intervals greater than 10 feet in length. Based on the approach described in the FSP (Standard Operating Procedure [SOP] B-1-10-B), the "purge plus" method would apply to 48 of the wells to be sampled as

part of the 2014 Comprehensive sampling event. However, considering use of the HydraSleeve™ method for some of the wells, the findings of a comparative evaluation described in memoranda dated January 4 and February 9, 2011 (conditionally approved by the USEPA in a letter dated July 12, 2012), and the location of the wells with respect to the plume boundary, only two wells (MW-1001R and MW-710DR) were sampled using the "purge plus" method.

Groundwater samples were submitted to Alpha Analytical (Alpha) of Westborough, Massachusetts, for analysis of VOCs and TAL Metals, and to Microseeps, Inc. of Pittsburgh, Pennsylvania, for analysis of MNA parameters. A tabular summary of the sampling event is provided below:

SOW Section	Well Group	# of Wells Intended			# of Wells Sampled			Analytical Parameters
		LF	HS	Bail	LF	HS	Bail	
IV.B.5.c	"C"	51	32	0	51	32	0	VOCs 1,4-Dioxane TAL Metals
	"R"	17	13	0	17	12	0	VOCs 1,4-Dioxane TAL Metals MNA Parameters
	"N"	0	10	0	0	10	0	
	"M"	5	0	0	4	0	0	TAL Metals MNA Parameters
	"B"	3	0	0	2	0	1	TAL Metals
	Totals:	131			129			

LF – Wells sampled using low-flow method
HS – Wells sampled using HydraSleeve™ samplers

In total, 129 monitoring wells were sampled as part of the 2014 monitoring event. Of these, 54 were sampled using HydraSleeve™ samplers, 74 were sampled using low-flow methods and one was sampled with a bailer.

Deviations from the intended scope were based on the following:

- "R" monitoring well CPZ-8R was not sampled due to the presence of dense non-aqueous phase liquid (DNAPL) in this bedrock well.
- "M" monitoring well MW-901D was not sampled due to insufficient water in this overburden well (i.e., dry) at the time of sampling.

- "B" monitoring well MW-209B was sampled with a bailer due to insufficient water for low-flow sampling.

Monitoring well locations in each of the five hydrostratigraphic zones are shown on Figures 2 through 6. Field sampling forms and equipment calibration logs from the sampling event are included in Appendices A and B, respectively.

2.3 Results

Groundwater analytical results from the June 2014 comprehensive groundwater monitoring event are provided in Tables 3 and 4 for VOCs and metals, respectively. Table 5 provides a comparison of historical groundwater metals concentrations to results for 2014 samples and Table 6 summarizes results for MNA parameters. Groundwater data were validated consistent with the procedures outlined in the *Quality Assurance Project Plan* (QAPP; ARCADIS 2014; Attachment C to the RD Project Operations Plan [POP]), though only a portion of the data were fully validated. As outlined in the May 23, 2014 letter and approved by the USEPA, only VOC and 1,4-dioxane data supporting the 36 wells located in the downgradient plume fringe were fully validated. Data for all other parameter groups and well locations were subject to a higher level review, which included, but was not limited to, obvious errors such as dilution factors, impact of documented laboratory contamination, misidentification of analytes and/or sample locations, missing analyses, and errors in data reporting. Qualifiers were applied to all data (full data validation and reduced review) and are reflected in Tables 3 through 6.

2.3.1 Groundwater Elevations

A synoptic groundwater elevation measurement round was conducted on June 9, 2014. The groundwater elevation data were used to develop groundwater elevation contour maps for each of the five hydrostratigraphic units, as shown on Figures 7 through 11. Groundwater flow directions based on the June 2014 data are consistent with previously derived groundwater flow directions. These maps indicate that groundwater in all five hydrostratigraphic units converges in the vicinity of the Quinnipiac River, and zones of potentiometric depression were observed in the vicinity of the hydraulic containment and treatment system (HCTS) extraction wells.

2.3.2 VOCs

Groundwater VOC concentrations from the June 2014 comprehensive groundwater monitoring event are provided in Table 3. Groundwater VOC concentrations were compared against USEPA Maximum Contaminant Levels (MCLs) and Connecticut Class GA Groundwater Protection Criteria (GWPC), with the lower of the two criteria, referred to as the "Action Level", used as the criterion for the comparison for each VOC. The Action Levels are based on drinking water standards. Groundwater VOC concentrations that exceeded their respective Action Levels are highlighted in Table 3. For comparison, the Interim Cleanup Levels (ICLs) specified in Table L-1 of the ROD (USEPA 2005) are also listed in Table 3. Concentrations of VOCs greater than Action Levels are contained within the previously estimated capture zone boundary of the HCTS.

Tetrachloroethene (PCE) and trichloroethene (TCE) were detected at monitoring well PZO-2M (located near the NTCRA 2 capture zone boundary) at concentrations of 8.64 micrograms per liter (μg/L) and 17.7 μg/L, respectively, in the June 2014 sample. Though these concentrations are above the Action Level of 5.0 μg/L for both compounds, they represent a significant decrease from the June 2013 event (79 μg/L and 250 μg/L, respectively).

TCE, PCE, and benzene were also detected above their respective Action Levels in well MW-1003DR (located near the NTCRA 2 capture zone boundary) at the time of the 2013 sampling event. TCE was again detected above the Action Level of 5 μg/L in this well in 2014. However, benzene and PCE were below their respective Action Levels in June 2014.

As noted in the 2013 MNA Report, total VOC concentrations at shallow bedrock monitoring well P-11A increased notably between 2011 (583 μg/L) and 2012 (approximately 26,400 μg/L), then decreased to approximately 8,200 μg/L in June 2013. This well is located at the downgradient edge of the bedrock NAPL zone delineated during the Remedial Investigation (RI; Blasland, Bouck & Lee, Inc. [BBL] June 1998), and within the HCTS capture zone. The total VOC concentration in this well increased slightly from 8,200 μg/L in June 2013 to approximately 9,460 μg/L in June 2014. VOC concentrations at this well will continue to be monitored as part of future sampling events.

VOC Plume Delineation

Data from the 2014 comprehensive groundwater monitoring event were used to update the VOC plume maps, originally presented in the *Summary of Initial (2010) Comprehensive Groundwater Sampling Event* (ARCADIS 2011a), for each of the five hydrostratigraphic units. Using the approach that was initially presented in the RI (BBL June 1998), groundwater VOC results were used to derive VOC regulatory exceedance ratios by dividing detected concentrations of VOCs by the lower of the MCL (federal standard) or GWPC (state standard), which are the Applicable or Relevant and Appropriate Requirements (ARARs)-based "Action Levels"; these generally represent drinking water standards. An exceedance ratio value greater than 1.0 indicates that the detected VOC concentration exceeded the Action Level. Exceedance ratio values less than 1.0 indicate that the detected VOC concentrations were less than the Action Levels. The highest (and in some cases, the two highest) VOC exceedance ratio(s) for each well, and the specific compound associated with each ratio, are summarized for each hydrostratigraphic unit on Figures 12 through 16. These regulatory exceedance ratios were used to delineate groundwater with VOCs above MCLs or GWPCs, as shown by the light green contour lines on Figures 12 through 16.

As noted in Table 3 and on Figure 15, the June 2014 groundwater sample from shallow bedrock well MW-1001R had a reported benzene concentration of 10.6 μg/L, above the Action Level of 1.0 μg/L; other VOCs were also reported at low concentrations below their Action Levels. The two previous samples obtained from this well in February and April 2012 did not contain any detectible benzene, and no VOCs above Action Levels. The source of the VOCs detected at well MW-1001R has not been determined, but it is unlikely that they are related to the SRSNE site. Only one other shallow bedrock well east of Quinnipiac River had a benzene detection above the Action Level; 3.4 μg/L benzene was reported at well P-101A, which is adjacent to the river. Benzene concentrations at intervening wells were non-detectible or below the Action Level, indicating a concentration gradient reversal. Benzene was not detected at any of the deep overburden or deep bedrock wells east of the river in June 2014. As detailed in the Final RI Report (BBL June 1998), the concentration gradient reversal indicates that the benzene at well MW-1001R is not related to the SRSNE plume. The monitoring wells within the interpreted SRSNE-related plume east of the river contain predominantly TCE, with little or no benzene. In contrast, TCE was detected in only one of the three samples from MW-1001R, and at a concentration below 1 μg/L. Thus, the VOC concentration ratio at well MW-1001R does not match that of the SRSNE-

related plume. Particle tracking results using the regional MODFLOW model indicate that the groundwater at well MW-1001R is migrating from the north-northeast, from the general vicinity of a gasoline station at the intersection of Lazy Lane and Queen Street, and another nearby potential VOC source area identified as the former R.P. Olson & Son Company site in the RI (BBL June 1998).

On September 16, 2014, monitoring well MW-1001R was re-sampled to confirm the VOCs reported in the June 2014 sample. VOC data from the September sample (Table 3) were consistent with the June data, supporting the likelihood of a non-Site-related source.

2.3.3 TAL Metals

Groundwater concentrations of TAL metals during the June 2014 comprehensive groundwater monitoring event are summarized in Table 4. Groundwater TAL metals concentrations were compared against the Action Levels (i.e., the lower of the MCLs and GWPCs). ICLs have not yet been developed for metals in groundwater because they are a function of background concentrations, which are to be established in the future based on background sampling performed through that time. Concentrations of metals that exceeded their respective MCLs or GWPC are highlighted in Table 4. TAL metals that were reported above MCLs or GWPC at one or more sampling locations include antimony (Sb), arsenic (As), barium (Ba), chromium (Cr), cobalt (Co), manganese (Mn) and vanadium (V).

Groundwater monitoring locations with TAL metals concentrations that exceeded MCLs or GWPC are shown for each of the five hydrostratigraphic units on Figures 17 through 21. As shown, manganese is the primary metal that exceeded MCLs or GWPC in groundwater. Total and dissolved manganese concentrations are generally similar, indicating that manganese is primarily present in the dissolved phase as divalent manganese [Mn(II)]. Exceedances for other metals are sporadic and are not indicative of a plume of elevated metals concentrations in groundwater.

Concentrations of metals in groundwater from the June 2014 comprehensive groundwater monitoring event were compared with historic groundwater metals concentrations (Table 5). With the exception of manganese at several locations and barium at well P-101B, elevated concentrations of metals detected historically in groundwater were generally not detected at concentrations above MCLs or GWPC in the 2014 groundwater samples.

Historic groundwater samples were analyzed for total metals, and the elevated metals concentrations in those samples may have been caused by the inadvertent entrainment of aquifer solids in the groundwater sample during sample collection. As described in Attachment B to the RD POP (ARCADIS 2009), monitoring wells were inspected and redeveloped prior to the May–June 2010 comprehensive groundwater sampling event. Well redevelopment was conducted to remove sediments that may have accumulated in well casings. Therefore, concentrations of metals in groundwater samples collected since 2010 likely are more representative of true groundwater metals concentrations than historic (i.e., pre-2010) groundwater metals concentrations.

2.3.4 MNA Parameters

Concentrations and distributions of electron acceptors, electron donors, and byproducts of microbially mediated reactions are evaluated to verify the types of geochemical and biodegradation processes active in Site groundwater. Concentrations of MNA parameters during the June 2014 comprehensive groundwater monitoring event are provided in Table 6 and shown on Figures 22 through 26. In general, MNA parameter concentrations in June 2014 were similar to MNA parameter concentrations for the 2010 comprehensive sampling event (ARCADIS 2010a).

2.3.5 1,4-Dioxane

Groundwater concentrations of 1,4-dioxane during the June 2014 comprehensive groundwater monitoring event are summarized in Table 7. Groundwater 1,4-dioxane concentrations were compared against the previously established Action Level of 20 μg/L, which is based on an August 13, 2007 letter from the Connecticut Department of Energy and Environmental Protection (CT DEEP). Absent an established CT DEEP criterion, this value is based on the Connecticut Department of Public Health (CT DPH) drinking water standard. Of the 122 monitoring wells analyzed for this constituent, 36 had groundwater 1,4-dioxane concentrations above the Site-specific Action Level.

3. MNA Background

An MNA remedy requires a strong scientific basis supported by appropriate monitoring. When properly employed, MNA is an effective remedy – based on thorough analysis of site-specific data – to understand, monitor, predict, and document COC transport and NA processes.

3.1 Site Conceptual Model

For any MNA remedy to succeed, it is important to understand the Site Conceptual Model (SCM). The SCM combines available site information into a comprehensive picture of the nature and extent of the COCs and the processes controlling their transport and fate in the environment. The level of site characterization necessary to support a comprehensive evaluation of MNA can be more detailed than that needed to support active remediation.

The SCM, including information regarding the Site operational history, regulatory status, geology, hydrogeology, and surface water hydrology, and the distribution and mass of COCs in Site groundwater, including delineation of NAPL zones and dissolved-phase groundwater plume, and VOC mass estimates, is provided in Section 2 of the RDWP (ARCADIS 2009) and fulfills the requirements set forth in the SOW, Section V.C.1.I.

The MNA conceptual model for the Site may be described in terms of source condition, dissolved plume stability, and MNA processes, and is summarized as follows:

Source Condition: The source of groundwater-quality impacts was extensively characterized during the RI (BBL 1998) and Feasibility Study (FS; BBL and USEPA 2005), and consists of zones containing NAPL in overburden and bedrock. The NAPL zones in overburden soils and bedrock contain mixtures of dissolved NAPL-related chlorinated ethenes, ethanes and methanes, as well as aromatic hydrocarbons, ketones, phthalates, ethers, furan, and alcohols. These NAPL zones are currently hydraulically contained by the NTCRA 1 sheet-pile wall and overburden groundwater extraction wells and the NTCRA 2 overburden and bedrock extraction wells. Upon entry of the CD, the NTCRA 1 and NTCRA 2 systems became known as the HCTS. The NAPL zones have formed a dissolved-phase chemical plume that has been severed by the HCTS. The portion of the former VOC plume downgradient of the HCTS capture zone has attenuated to below Action Levels. The Overburden NAPL zone contains the majority of the Site VOCs, and is currently being treated with

in situ thermal remediation to remove the vast majority of these VOCs, resulting in a greatly diminished source upgradient of the NTCRA 1 sheet-pile wall.

Dissolved Plume Stability: The dissolved-phase chemical plumes in overburden and bedrock groundwater are generally stable or shrinking due to the combination of hydraulic containment and active *in situ* biodegradation processes in groundwater within the capture zone of the HCTS. *In situ* biodegradation processes within the capture zone of the HCTS were characterized as "robust" in the FS (BBL and USEPA 2005). The dissolved-phase plume in overburden and bedrock groundwater in the severed portion of the plume, beyond the capture zone of the HCTS, have attenuated to below Action Levels due to the combination of hydraulic containment of the higher concentration portions of the dissolved-phase chemical plume and NA processes. Total dissolved-phase VOC concentration trends in groundwater within the HCTS containment boundary and the severed plume indicate statistically significantly decreasing concentration trends.

NA Processes: Natural attenuation processes that have contributed to plume stabilization and shrinkage within the overburden and bedrock include *in situ* abiotic and biodegradation reactions, sorption to aquifer solids, flow path mixing, and matrix diffusion. Reductive dechlorination is a prominent removal mechanism that continues to operate at the Site, as evidenced by the production of cis-1,2-dichloroethene (cDCE), vinyl chloride (VC), 1,1-dichloroethane (1,1-DCA), ethene, ethane, and chloride, which are dechlorination (i.e., "breakdown") products of PCE, TCE, and 1,1,1-trichloroethane (TCA). There are also anaerobic oxidation reactions occurring that remove cDCE, VC, and ethene by oxidation to carbon dioxide (CO_2).

3.2 Selection of MNA Remedy

As a result of the demonstrated efficacy of NA for treating COCs in Site groundwater, MNA was included as a component of several remedial alternatives evaluated in the FS (BBL and USEPA 2005). Based on evaluations presented in the FS, the USEPA selected MNA as a component of the remedial approach for the Site.

The ROD for the Site was issued by the USEPA in September 2005 (USEPA 2005). The selected remedy consists of MNA of the groundwater plume, including:

- Groundwater outside the capture zone of the HCTS until groundwater cleanup levels are achieved;

- Groundwater within the capture zone of the HCTS until groundwater cleanup levels are achieved; and

- Groundwater in the NAPL area of the overburden and bedrock aquifers, until groundwater cleanup levels are achieved.

3.3 Identified Data Gaps

The SOW identified two data gaps associated with implementing the MNA remedy component at the Site. The identified data gaps and the strategies used for addressing them are as follows:

- *Incomplete plume delineation in the severed plume*. This data gap has been addressed by the installation and sampling of additional groundwater monitoring wells near the eastern edge of the severed plume, east of the Quinnipiac River and in the Connecticut Light & Power (CL&P) easement as presented in the *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Attachment N to the RDWP) and subsequent discussions with USEPA. In addition to the new plume delineation wells installed prior to the start of the May–June 2010 comprehensive groundwater sampling (including MW-903S, MW-903M, MW-903D, MW-903R, PZ-903DR, MW-904S, MW-904D, MW-906M, MW-906D, MW-906R, PZ-906DR, and MW-910S), three other well clusters (MW-1001M/MW-1001R, MW-1002DR/MW-1002R and MW-1003DR/MW-1003R) have been installed to address this data gap.

- *Long-term monitoring data demonstrating the effectiveness of MNA as a remedy component.* This data gap is being addressed through the preparation, submittal, approval, and implementation of the MNA Plan.

3.4 Objectives of MNA Performance Monitoring

The MNA Plan, in conjunction with the *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Attachment N to the RDWP), describes the monitoring and analysis steps required to meet the following objectives of MNA performance monitoring, as specified in Section VII.A.1 of the SOW:

- Complete the delineation of COCs in groundwater in three dimensions;
- Assess the temporal and spatial variations in groundwater chemistry and geochemistry;
- Assess the progress in meeting the long-term remedial goal of groundwater restoration throughout the Site to its natural quality; and
- Evaluate the effectiveness of institutional controls.

Based on the results of MNA performance monitoring, decisions related to the MNA program, described in detail in the MNA Plan, may include:

- Continuation of the performance monitoring program without change.
- Continuation of the performance monitoring program with action.
- Modification of the institutional controls.

3.5 Performance Standards

The remedial action will be implemented in compliance with ARARs identified in the ROD (USEPA 2005). These requirements include compliance with performance standards for the affected groundwater, soil and wetland soil, and for NAPL that is present in the subsurface in the overburden and bedrock. The following subsections discuss performance standards applicable to MNA and the means for demonstrating compliance with these standards.

3.5.1 MNA-Related Performance Standards

Performance standards pertaining to MNA at the Site, as set forth in the SOW, are described in detail in the MNA Plan for Groundwater, NAPL outside of the Overburden NAPL Area, and the Severed Plume.

3.5.2 Demonstration of Compliance Report

As specified in Section VIII.G of the SOW, a Demonstration of Compliance Report will be prepared in accordance with the evaluation procedures defined in 40 Code of Federal Regulations (CFR) Section 264.97 when groundwater COC concentrations have remained below the ICLs for three consecutive years as outlined in 40 CFR Section 264.96(c). If the USEPA, after reasonable

opportunity for review and comment by the CT DEEP, approves the Demonstration of Compliance Report and agrees that the ICLs have been achieved, a risk assessment of residual groundwater conditions will be performed.

4. MNA Performance Monitoring

4.1 Introduction

The MNA Plan specified the performance monitoring program for Site groundwater as it relates to the MNA component of the remedy, while Section IV.B.5 of the SOW set forth requirements for an environmental monitoring program to be implemented to evaluate the performance of the HCTS and the overall effectiveness of the Site remedy, including the MNA component. These groundwater MNA monitoring requirements were summarized in the MNA Plan.

The following subsections describe the MNA program monitoring locations, monitoring frequency, monitoring parameters, and data quality objectives (DQOs) designed to meet the environmental monitoring program requirements set forth in Section IV.B.5 of the SOW. Groundwater monitoring is conducted to monitor changes in groundwater COC concentrations, changes in plume size and shape, and the effectiveness of NA processes in reducing concentrations of COCs in groundwater. Groundwater samples from June 2014 were collected in accordance with the monitoring frequency outlined in the MNA Plan.

4.2 Groundwater Performance Monitoring Locations

Groundwater performance monitoring locations were chosen to provide robust, three-dimensional coverage of COCs in overburden and bedrock groundwater at the Site, with monitoring well cluster locations providing vertical assessment of COC concentrations and groundwater geochemistry. Monitoring locations were identified in the *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Attachment N to the RDWP) and are shown on Figures 2 through 6 of this MNA Report.

In accordance with the SOW, selected MNA monitoring locations include upgradient (background) sampling locations, in-plume sampling locations (HCTS capture zones and severed plume), side-gradient sampling locations outside of plume areas, and downgradient locations. Monitoring locations are designated by well groups (e.g., “N”) to define the purpose of each sampling location. Well group designations that are relevant to MNA monitoring are summarized in the MNA Plan and shown on Figures 2 through 6. They are also summarized above in Section 2.1.

4.3 MNA Monitoring Parameters

The primary classes of data included in the MNA monitoring program are: Site-specific groundwater COCs; groundwater MNA parameters; groundwater hydraulic information; and HCTS COC mass removal estimates. Each of these primary data classes is described below.

Site-specific COCs are the chemical constituents that were identified during Site investigations and risk assessment and are required to be addressed by the response actions set forth in the ROD (USEPA 2005). Site-specific COCs for groundwater include selected VOCs, 1,4-dioxane, TAL metals, PAHs, and PCBs. Consistent with the Work Plan, PAHs and PCBs are not currently included in the groundwater monitoring program.

Groundwater MNA parameters were selected to confirm dominant biotransformation processes, evaluate the potential for continued transformation of COCs, and identify zones of dominant geochemical conditions. These parameters include: iron (ferric and ferrous), divalent manganese, light hydrocarbons (methane, ethane, ethane), alkalinity, chloride, nitrate–nitrogen, nitrite–nitrogen, pH, sulfate and TOC. In addition to laboratory-analyzed MNA parameters, the following MNA parameters are collected as field measurements: pH, DO, ORP, and temperature.

The hydraulic parameter of interest is groundwater elevation (equivalent to hydraulic head). Groundwater elevations are characterized in all five groundwater depth zones (see Figures 7 through 11), and provide a basis to assess the horizontal and vertical components of hydraulic gradients that control three-dimensional migration of COCs.

Estimates of groundwater COC mass removal from the HCTS, obtained as part of the compliance monitoring program for the HCTS operations, are used to evaluate potential trends in COC mass removal from the HCTS and can be used to evaluate future efficacy of groundwater remedies, including MNA.

4.4 Monitoring Frequency

Monitoring frequencies were designed to meet requirements of the environmental monitoring program set forth in Section IV.B.5 of the SOW and are summarized in the MNA Plan. Detailed monitoring frequency information is provided in the *Monitoring Well Network Evaluation and Groundwater Monitoring Program* (Attachment N to the RDWP). Any proposed changes to

the long-term monitoring program will be submitted as part of the Annual State of Compliance Report(s).

4.5 MNA Monitoring Objectives

The MNA performance monitoring program set forth in the MNA Plan was designed to evaluate the MNA monitoring objectives listed below (USEPA 1999; USEPA 2004) and described in detail in the MNA Plan.

- Provide timely warning of potential impact to receptors.
- Detect changes in plume size/concentration.
- Determine temporal variability of data.
- Detect changes in geochemistry that warn of potential changes in COC attenuation.
- Yield data necessary to reliably evaluate progress toward COC reduction objectives.

4.6 Data Quality Objectives

The DQO process is a systematic planning tool based on the scientific method that is used to establish criteria for data quality and to develop data collection designs (USEPA 1994). The DQOs for the data described in this MNA Report are provided in the QAPP (ARCADIS 2014).

5. MNA Evaluation

This section evaluates the effectiveness of the MNA program based on the data collected to date. Data analysis, interpretation and reporting methods were completed in accordance with the following regulatory guidance documents:

- *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (USEPA 1998)
- *Use of Monitored Natural Attenuation at Superfund, Resource Conservation and Recovery Act (RCRA) Corrective Action, and Underground Storage Tank Sites* (USEPA 1999)
- *Performance Monitoring of MNA Remedies for VOCs in Ground Water* (USEPA 2004)

In general, data interpretation included:

- Placing the MNA performance monitoring data in the context of time, location, sampling and analytical methods.
- Applying appropriate statistical tests to detect changes and trends in COC concentrations, and attainment of remedial objectives.

These data interpretation methods and results are presented in the following sections.

5.1 Total VOC Concentration Trends

Data collected during previous sampling events (RI and Interim Monitoring Sampling [IMS] events) and presented in the MNA Plan and the 2010-2013 MNA reports indicate an overall decline in groundwater concentrations with time, supporting the selection of MNA as a remedial measure for COCs in groundwater at the Site. This section builds upon results of the previous MNA evaluations discussed in detail in the MNA Plan and the four preceding MNA reports (2010 through 2013). Included in this section are a discussion of concentration trends for total VOCs in groundwater at select monitoring locations, estimates of bulk attenuation rates for total VOCs in groundwater at locations with decreasing concentration trends, and presentation of COC mass extraction rates and cumulative mass removal for the HCTS.

5.1.1 Trend Analysis

The final IMS Report (BBL 2005) compared groundwater VOC concentrations reported in the RI with concentrations measured at 25 IMS locations during the April 2005 (final) IMS event. Trend analyses were updated using total VOC concentration data collected at 21of the 25 original IMS monitoring locations (within the NTCRA 2 portion of the HCTS, the severed plume, and the interior of the VOC plume) during the RI, IMS program, and annual groundwater sampling events (2010 through 2014). Two of the original IMS monitoring locations, CW-B-77 and MW-205A, have been converted to "W" wells, MW-204 was abandoned in 2009, and CW-4-75 was destroyed and is slated to be decommissioned; therefore, these wells are no longer included in the trend analysis. Trend analysis results are summarized in Table 8. Results of the 2014 trend analyses are similar to the results of the trend analyses conducted in 2010 through 2013, which indicated that most of the IMS monitoring locations have statistically significant decreasing total VOC concentration trends.

Graphs of groundwater total VOC concentrations with time were updated for each of the 21 monitoring locations included in the trend analysis (Figures 27 through 31). As shown on these figures, total VOC concentrations are generally declining or stable at all groundwater depth intervals, consistent with previous results.

Non-parametric Mann-Kendall and Sen's slope trend analyses and parametric linear regression trend analyses were conducted to evaluate trend direction and statistical significance of the groundwater total VOC concentration trends at the Site. The Mann-Kendall test provides a yes/no determination for the existence of a slope that is significantly different from zero, while the Sen's slope test provides an estimate of the value for the slope. The linear regression test estimates the slope and confidence level and quantifies how well the data correlate to the estimated trend line. Trend analyses were conducted with natural log (ln) normalized total VOC concentrations using all three test methods for all sampling locations.

A 90% confidence level, with a corresponding p-value less than or equal to 0.10, was used to determine statistical significance for the trend analyses. Mann-Kendall and linear regression trend results with p-values greater than 0.10 were not considered to be statistically significant; however, trend direction was noted in Table 8. The trend direction was defined as decreasing if total VOC concentrations decreased with time (negative slope), and increasing if

total VOC concentrations increased with time (positive slope). For the linear regression analysis, the correlation coefficient, or R^2, is a measure of how well the linear regression fits the data. Values close to 1 are considered to be a good fit, while R^2 values close to 0 are considered to be a poor fit.

Results of the trend analyses indicate significant decreasing total VOC concentration trends at 17 of the 21 monitoring locations based on results of the Mann-Kendall and/or the linear regression tests. The Sen's slope test indicates that 15 of the 21 monitoring locations show significant decreasing total VOC concentration trends.

Monitoring wells sampled in June 2014 that indicate statistically significant decreasing total VOC concentration trends with linear regression and/or Mann-Kendall analysis include P-13, MWL-312, P-101C, MW-03, MW-205B, P-101B, MW-127B, MW-501B, MW-204B, MW-502, MW-704D, MW-127C, MW-128, MW-204A, MW-501A, MW-704DR, and MW-706DR (Table 8).

At monitoring well P-11A, results do not indicate a statistically significant concentration trend with linear regression, Mann-Kendall, or Sen's slope analyses. A decreasing trend had previously been shown at this location; however, the total VOC concentration in June 2012 (26,400 μg/L) was higher than previous results. Although the total VOC concentration decreased in June 2013 (8,237.7 μg/L), it increased slightly in 2014 (9,461.4 μg/L) and continues to be elevated compared to concentrations measured in groundwater samples collected prior to January 1995. This well is located near the center of the shallow bedrock regulatory VOC plume above Action Levels, and well within the HCTS capture zone (Figure 15).

At monitoring wells MW-707D and MW-703DR, results do not indicate a statistically significant concentration trend with linear regression, Mann-Kendall, or Sen's slope analyses. However, at both of these monitoring locations the majority of sampling results are non-detect – 53% of results at MW-707D and 76% of results at MW-703DR. Results from these two monitoring wells from the 2014 sampling event indicate that concentrations of total VOCs are less than 0.5 μg/L.

Previously at MW-706DR, Mann-Kendall and Sen's slope tests indicated no significant trend and the linear regression analysis indicated a statistically insignificant decreasing concentration trend. With the addition of 2014 sampling results, the linear regression analysis indicates a statistically significant decreasing concentration trend, while Mann-Kendall results indicate

a decreasing trend that is not statistically significant, and Sen's slope results continue to indicate no significant trend. Taken together, these results suggest improving conditions, although the historically consistent and relatively high VOC concentrations at this location potentially indicate the presence of DNAPL in the vicinity of this deep bedrock monitoring location.

Only one location, MW-707DR, indicates a significant increasing total VOC concentration trend based on the Mann-Kendall and linear regression analyses. This is consistent with the total VOC concentration trend results in 2010, 2011, 2012, and 2013 at this location. However, based on the addition of 2014 data, the Sen's slope analysis shows no trend. The maximum total VOC concentration measured at MW-707DR was 18 μg/L (April 2000) and 32% of the historical samples have been below detection for all VOC constituents, indicating generally low concentrations of VOCs in groundwater at this location. The total VOC concentration measured at MW-707DR in June 2014 was 2.481 μg/L. This total VOC concentration is the lowest concentration measured above the detection limit. Linear regression, Mann-Kendall, and Sen's slope trend tests were also performed for the subset of data beginning in April 2004, to exclude the previous monitoring events in which VOC constituents were below detection. Based on data collected between April 2004 and June 2014, linear regression and Mann-Kendall analyses indicate decreasing concentration trends; however these trends are not statistically significant. These results suggest that total VOC concentrations at this location are stable to decreasing over the past approximately 10 years.

5.1.2 Total VOC Attenuation Rate

Results from the linear regression and Sen's slope analyses were used to estimate attenuation rates for total VOCs in groundwater at the Site. Attenuation rates were calculated in accordance with the USEPA guidance document on determining first-order attenuation rate constants for MNA studies (USEPA 2002). Following this guidance, the natural log of total VOC concentrations in groundwater versus time was plotted and a best-fit linear regression line was generated for total VOC concentrations over time. For monitoring locations where statistically significant decreasing trends were observed, the slope of the best-fit line was used to estimate an attenuation rate. Slopes derived from the Sen's slope test were also used to estimate attenuation rates. The slope of the linear regression line and the slope from the Sen's slope test provide estimates of the total VOC attenuation rate constant (k_{point}) in groundwater at the respective monitoring locations.

$$k_{point} = [slope\ of\ best\text{-}fit\ regression\ line]$$

The half-life ($t_{1/2}$) for total VOC concentrations in groundwater was estimated for each sampling location from the equation:

$$t_{1/2} = 0.693 / k_{point}$$

where: 0.693 is the negative of the natural log of 0.5 (half of the starting total VOC concentration).

Estimated half-life values for total VOCs in groundwater range from 610 to 10,105 days (1.7 to 27.7 years) based on linear regression results and from 592 to 3,164 days (1.6 to 8.7 years) based on Sen's slope results. The maximum estimated attenuation half-life from linear regression analyses was estimated for VOCs in groundwater at monitoring well MW-706DR. As discussed above, the decreasing trend at this monitoring location just became significant with the addition of 2014 sampling data, and total VOC concentrations at this well are elevated with respect to other monitoring locations. The second-highest attenuation half-life calculated based on linear regression analyses is 2,966 days (8.1 years). These estimated half-life values for total VOC concentrations compare well with literature values of attenuation rates presented for individual compounds in Appendix H of the FS (BBL and USEPA 2005) and indicate that overall COC concentrations in groundwater are attenuating.

5.2 Estimate of COC Mass Flux in Groundwater

As part of the compliance monitoring program, COC mass extraction rates and cumulative mass removal are monitored for the HCTS. With the exception of the severed plume and incidental discharge to surface water, the HCTS captures the entire dissolved phase groundwater COC plume at the Site. Therefore, the HCTS COC mass extraction rates and cumulative mass extraction data represent the total mass flux for the dissolved phase COC groundwater plume and can be used to monitor changes in groundwater total dissolved-phase COC mass flux with time.

Total VOC mass extraction rates and cumulative mass extraction for the HCTS for the July 1995 to July 2014 time period are shown on Figure 32. Mass extraction rates are in units of pounds per day and the cumulative mass extraction is pounds. The total mass of VOCs removed by the HCTS between system startup in 1995 and July 2014 is approximately 17,657 pounds. VOC

mass extraction rates have ranged between about 0.01 to 10 pounds per day and are generally decreasing with time while groundwater extraction rates have increased with time. Average daily VOC mass extraction and groundwater pumping rates for three time periods are summarized in the table below. The results tabulated below – and shown on Figure 32 – are dominated by the lass flux from the former NTCRA 1 extraction wells, which are immediately west of the NTCRA 1 sheet pile wall (Figure 2); however, these results are also consistent with total VOC influent concentration trends at the former NTCRA 2 extraction wells (RW-13, RW-14 and RW-1R), which demonstrate statistically significant declining influent VOC concentrations with time (Figure 33).

Time Period	Average Groundwater Extraction Rate (gallons per minute)	Average VOC Mass Extraction Rate (pounds per day)
July 1995 – December 1999	19.23	4.70
January 2000 – December 2010	27.8	1.91
January 2011 – June 2014	32.1	1.15

The mass of COCs removed via the HCTS is small compared with the estimated mass removal that is occurring via *in situ* degradation. As described in detail in the FS (BBL and USEPA 2005) and summarized in the MNA Plan (ARCADIS November 2010), the quantity of TCE and degradation products being biodegraded *in situ* was calculated to be approximately 17,000 to 41,000 pounds per year within the NTCRA 1 area alone. In comparison, the VOC mass extraction rates by the HCTS have ranged from approximately 200 to 3,800 pounds per year.

The VOC mass extraction data will continue to be collected as part of the HCTS compliance monitoring program and will be periodically evaluated as part of the MNA performance monitoring program.

5.3 Distribution of VOCs in NAPL and Groundwater

An assessment of the distribution of select VOCs in NAPL and groundwater samples was conducted as part of the 2010 comprehensive MNA report to gain insight into how VOC distributions in NAPL and Site groundwater varied by location and with time. This assessment was repeated based on VOC

results from the 2014 comprehensive groundwater monitoring event. VOCs evaluated in the assessment included:

- chlorinated ethenes (PCE, TCE, cDCE, 1,1-dichloroethene [1,1-DCE], and VC);
- chlorinated ethanes (TCA, 1,1-DCA, and chloroethane [CA]);
- ketones (2-butanone [MEK], 4-methyl-2-pentanone [MIBK], and acetone);
- toluene, ethylbenzene, and xylenes (TEX); and
- methylene chloride, styrene, tetrahydrofuran (THF), and 1,4-dioxane.

Data used for assessment of distribution of VOCs in NAPL and in groundwater in close proximity to NAPL were presented in the 2010 comprehensive MNA report and are provided in Appendix C. The 2010 assessment concluded that NAPL samples were composed primarily of PCE, TCE, TCA, TEX, methylene chloride, and styrene, with lesser contributions from cDCE, 1,1-DCE, and 1,1-DCA. Ketones generally were not detected in NAPL samples. 1,4-dioxane was not analyzed for these samples. Overall, the results indicated that the detected groundwater constituents are generally consistent with NAPL constituents, with the exception of ketones. The general absence of detectable ketones in the NAPL samples likely relates to the elevated detection levels associated with the NAPL samples (due to the dilutions required to quantify those COCs present at higher concentrations).

Molar groundwater VOC concentration plots are presented with distance and depth interval for 2014 groundwater VOC results (Appendix D) and with time for select locations and monitoring periods (Appendix E). In general, VOC concentrations in groundwater were greatest in the NTCRA 1 area for the three overburden depth intervals and shallow bedrock with consistently decreasing primary (parent) constituent (e.g., TCE, TCA, ketones, and TEX) concentrations and increasing concentrations of secondary (degradation product) compounds (e.g., c-DCE, 1,1-DCA, 1,1-DCE, VC, and CA) relative to parent compounds observed in directions downgradient from the NTCRA 1 area. For deep bedrock groundwater, higher VOC concentrations are observed in the northern portion of the hydraulic containment area. Similar to overburden and shallow bedrock groundwater, concentrations of parent constituents in the deep bedrock decrease in the downgradient direction while concentrations of secondary compounds increase relative to the parent compounds. With

increasing distance downgradient, concentrations of primary and secondary compounds decrease or compounds are not detected. These results clearly demonstrate that degradation of the parent and secondary compounds is occurring in Site groundwater.

Groundwater molar VOC concentration plots for select groundwater monitoring locations with samples collected during multiple sampling events illustrate that most locations have clear declining concentration trends for most or all constituents. Shifts in the relative distribution of chlorinated VOCs (CVOCs) towards greater proportions of daughter products to parent demonstrate ongoing degradation of CVOCs in Site groundwater with time (Appendix E).

In summary, molar concentration plots of select CVOCs provide a means for readily comparing the distribution of COC concentrations in Site groundwater with distance from the source area, as well as with depth and with time at discrete locations. Molar concentration plots will be updated as part of the next five-year comprehensive groundwater monitoring event in 2019.

5.4 Evaluation of Monitoring Objectives

5.4.1 Evaluation of Changes in Environmental Conditions that May Reduce Efficiency of MNA

MNA data will be used to evaluate potential changes in environmental conditions that may reduce the efficiency of MNA. Currently, the only anticipated environmental changes that may reduce the efficiency of MNA are within the capture zone of the Site NTCRA 1 groundwater containment system due to the addition of heat and removal of electron donors during *in situ* thermal treatment of the Overburden NAPL Area. Future MNA Reports will assess potential effects on MNA efficiency due to thermal treatment in the Overburden NAPL Area.

Changes in the composition and availability of electron donors with time may affect the efficiency of NA. As electron donors, such as ketones, aromatic compounds, and alcohols are consumed, the efficiency of NA may decline. As noted in the 2010 comprehensive MNA report, alcohols are currently only minimally detected in Site groundwater. As concentrations of these readily available electron donors decline, other electron donor sources may be available to support continued NA of COCs in Site groundwater. Other potential electron donor sources include natural organic matter in the aquifer matrix, natural organic matter in groundwater, as well as recycling of microbial

biomass. The efficiency of NA for remediation of COCs in Site groundwater will continue to be monitored via the MNA remedial program using techniques set forth in the MNA Plan and in this MNA Report including, but not limited to:

- Defining changes in the VOC regulatory plume boundaries, including exceedance of MCLs and GWPC as well as exceedance of ICLs.
- Evaluation of COC concentration trends with time.
- Assessment of changes in the distribution of COCs, especially ketones, alcohols, and aromatic compounds.
- Continued monitoring of groundwater redox conditions.

If changes in the efficiency of NA result in a loss of effectiveness of MNA as a remedy for COCs in Site groundwater, contingencies will be considered, as described in the MNA Plan.

5.4.2 Evaluation of Potentially Toxic and/or Mobile Transformation Products

Potentially toxic transformation products include regulated chemical intermediates, such as cDCE, 1,1-DCE, 1,1-DCA, CA, and VC, and regulated transition metals (e.g., manganese and arsenic). Locations with concentrations of cDCE, 1,1-DCE, 1,1-DCA, CA, VC that exceed MCLs or GWPC are within the overburden and bedrock groundwater containment boundary. For groundwater samples collected during the 2014 comprehensive groundwater monitoring event, metals detected in groundwater samples at concentrations above MCLs or GWPC screening levels (Table 3) were similar in magnitude and distribution compared with results from the 2010 comprehensive groundwater monitoring event, indicating general stability of metals in Site groundwater.

5.4.3 Evaluation of Plume Stability

In terms of plume stability, a dissolved-phase chemical plume in groundwater may be characterized as a:

- Shrinking plume, in which the plume volume decreases through time.
- Stable plume, in which the plume volume does not change through time.

- Growing plume, in which the plume volume increases through time.

In general, shrinking plumes are indicated by decreasing chemical concentrations through time, growing plumes may be indicated by increasing or stable chemical concentrations through time, and stable plumes are indicated by plume volume estimates that do not change significantly through time. Currently available long-term monitoring data indicate that the plume of COCs in Site groundwater is generally shrinking or is stable.

5.4.4 Evaluation of No Unacceptable Impacts to Downgradient Receptors

Groundwater and surface water monitoring data collected during the RI, the IMS program, and annual monitoring events conducted starting in 2010 indicate that there are no potential impacts to downgradient receptors. The water supply wells within the Town Well Field Property are dormant and are beyond the zone of COC concentrations in groundwater that are above drinking water standards. Therefore, there are no receptors within the vicinity of the groundwater plume with COC concentrations above drinking water standards. Monitoring of surface water in the Quinnipiac River demonstrated that surface water is not impacted by the Site COC-impacted groundwater plume. Monitoring of groundwater within the Town Well Field will continue as part of the MNA program.

5.4.5 Evaluation of New Releases of COCs

Evaluation of new releases of COCs is not needed because potential sources of new releases have been removed from the Site, the former source area is located within the capture zone of the HCTS, and the Overburden NAPL Area (also within the capture zone) is being remediated via *in situ* thermal remediation.

5.4.6 Evaluation of Institutional Controls

The draft *Institutional Control Plan* (IC Plan), which is a remedial design submittal required by Section V.B.7 of the SOW, was initially submitted to the USEPA in February 2011. Based on comments received and further coordination with the regulatory agencies, a revised draft IC Plan was provided to the USEPA in May 2013. It describes the proposed scope and monitoring program associated with institutional controls to be implemented at the Site. Once the IC Plan is approved and institutional controls are established, any observed or pending changes in land or resource uses or ownership (e.g.,

property ownership change, housing developments, and well installations) will be evaluated in view of their current and possible future impact on the effectiveness of the institutional controls and the performance monitoring operations.

5.4.7 COC Mass Flux / Mass Reduction

COC mass flux and mass reduction can be conservatively evaluated by monitoring groundwater COC mass recovery from the HCTS. Because extraction of groundwater COCs by the HCTS does not account for the mass of COCs degraded *in situ*, this method of estimating mass reduction provides a minimum estimate of mass reduction. With the exception of the severed plume and de minimis discharges to surface water immediately adjacent to the river, the Site-related groundwater plume is essentially contained within the HCTS capture zone. As a result, the groundwater extracted via the HCTS represents the composite mass flux of COCs within the plume in the vicinity of the extraction wells. Groundwater extraction rate and COC concentration information collected periodically during system operation, maintenance and monitoring (OMM) activities as part of the compliance monitoring program for the HCTS will be used to evaluate changes in COC mass flux with time. As shown on Figure 32, COC mass extraction rates have been declining since about January 2011, consistent with overall decreasing groundwater COC plume concentrations.

5.5 Contingency Measures

An evaluation of contingency measures will be performed if progress in meeting long-term groundwater restoration goals is inadequate, as determined by the USEPA. While the specific measures to be undertaken may depend on several factors (e.g., the nature, location, apparent source, or timeframe at which the inadequacy is identified), examples of possible contingency measures are provided in the MNA Plan. Any contingency measure considered will first be approved by USEPA, in consultation with CT DEEP, prior to implementation.

6. Summary

The 2014 comprehensive groundwater monitoring event was conducted June 9 through 13, 2014, and included the sampling of 129 monitoring wells for VOCs, 1,4-dioxane, MNA parameters and/or TAL metals. Results from the comprehensive event indicate that:

- VOCs and TAL metals above Action Levels (the more stringent of the USEPA MCLs or Connecticut Class GA GWPC) are contained within the previously estimated containment boundary of the HCTS.

- PCE and TCE were detected at monitoring well PZO-2M at concentrations of 8.64 μg/L and 17.7 μg/L, respectively, in the June 2014 sample. Although these concentrations are above the Action Level of 5.0 μg/L for both compounds, they represent a significant decrease from the June 2013 event (79 μg/L and 250 μg/L, respectively). PCE was first detected above the Action Level at this well in June 2013, while TCE was first detected above the Action Level in June 2012.

- TCE was also detected at monitoring well MW-1003DR at a concentration above the Action Level of 5 μg/L. However, benzene and PCE, which were detected above their respective Action Levels in this well in June 2013, were again below their respective Action Levels in June 2014.

- Benzene was detected at monitoring well MW-1001R at a concentration of 10.6 μg/L, which exceeds the Action Level for this constituent (1 μg/L). The well was resampled in September 2014 with a similar result (11.7 μg/L benzene). This well is located in the cemetery east of Queen Street. The concentration gradients, detected COC distribution, and local groundwater flow characteristics suggest the source is unrelated to the SRSNE Site.

- As noted in the 2013 MNA Report, total VOC concentrations at shallow bedrock monitoring well P-11A increased notably between 2011 (583 μg/L) and 2012 (approximately 26,400 μg/L). This well is located at the downgradient edge of the bedrock NAPL zone delineated during the RI (BBL June 1998), and within the HCTS capture zone. The total VOC concentration in June 2013 decreased significantly (to approximately 8,200 μg/L) relative to the June 2012, and in June 2014 the concentration

increased slightly (to approximately 9,460 μg/L). Thus, concentrations remain elevated. VOC concentrations at this well will continue to be monitored as part of future sampling events.

Section 5 presents an evaluation of the effectiveness of MNA as a remedial measure for COCs in groundwater in the Site, including presentation of groundwater monitoring results from the June 2014 comprehensive groundwater monitoring event; evaluation of concentration trends for total VOCs in groundwater at select monitoring locations; estimates of bulk attenuation rates for total VOCs in groundwater; and presentation of HCTS COC mass extraction rates with time. Results of these evaluations indicate:

- Detected concentrations of VOCs above Action Levels are contained within the previously estimated containment boundary of the HCTS.
- Groundwater total VOC concentrations are generally declining or stable throughout the Site groundwater COC plume.
- Estimated bulk VOC attenuation rates were comparable to attenuation rates for individual COCs presented in the FS (BBL and USEPA 2005).
- Compliance monitoring data from the HCTS indicate generally decreasing mass, consistent with the generally declining groundwater COC concentration trends.

These results support continued use of MNA as a remedy for COCs in Site groundwater. The MNA parameter analyte list was reviewed with respect to the value of continued monitoring of each parameter. Based on this review, the following parameters are proposed for removal from the MNA parameter analyte list for the stated reasons:

- Alkalinity – alkalinity concentrations are sufficiently high (greater than 10 milligrams per liter [mg/L]) to demonstrate adequate buffering for any acids that may form during microbial activity.
- Nitrate – nitrate concentrations are generally low (less than 1 mg/L) or below laboratory detection limits, indicating that nitrate is not a significant electron acceptor in Site groundwater. Other reduction-oxidation indicator parameters, including DO and dissolved iron and manganese, provide

more robust information regarding Site groundwater reduction-oxidation processes.

- Chloride – chloride is not a predictor of reduction-oxidation condition and therefore will not contribute to the characterization of Site groundwater reduction-oxidation processes. Groundwater chloride concentrations may differ depending on geologic strata and chloride may also be derived from runoff of salts applied to road surfaces for de-icing purposes. Chloride is a byproduct of degradation of chlorinated VOCs; however, chloride concentrations are not well correlated with concentrations of chlorinated VOCs in Site groundwater. Use of chloride concentrations at specific monitoring locations to predict chlorinated VOC degradation may greatly over- or underestimate actual chlorinated VOC degradation. Chloride concentrations in HCTS influent water will continue to be monitored on a regular basis.

7. References

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ARCADIS

Tables

Table 1 - Monitoring Well Network Survey Data
Sovents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut
June 2014

Well ID	Northing[1]	Easting[1]	Ground Elevation[2]	Casing Elevation[2]	PVC Elevation[2]
CPZ-1	286106.6904	565212.6876	157.52	159.82	159.64
CPZ-10	286643.2018	565237.4285	162.55	163.95	163.44
CPZ-10R	286642.3367	565232.9437	161.55	163.65	162.98
CPZ-1R	286103.4436	565208.3784	157.44	161.34	161.12
CPZ-2A	286091.0453	565218.5612	156.44	158.99	158.82
CPZ-2R	286038.3663	565216.6677	156.65	161.15	160.97
CPZ-3	286162.5232	565289.8358	158.35	159.50	159.21
CPZ-3R	286157.7049	565286.3749	157.02	160.86	160.70
CPZ-4A	286146.4882	565300.7164	156.23	159.60	159.44
CPZ-4R	286085.0476	565322.1543	155.41	158.96	158.76
CPZ-5	286311.6461	565375.8426	156.21	159.16	158.68
CPZ-5R	286319.1088	565374.1348	156.76	158.67	158.30
CPZ-6	286325.1004	565479.6594	153.25	155.29	154.48
CPZ-6A	286320.8432	565396.0548	155.94	158.21	158.05
CPZ-6R	286317.5725	565479.8086	152.78	154.55	154.39
CPZ-7	286467.3623	565343.254	157.60	159.62	159.40
CPZ-7R	286471.8829	565338.1637	157.37	158.77	158.58
CPZ-8	286530.3304	565396.4656	157.23	160.27	160.11
CPZ-8R	286534.511	565394.5043	157.35	160.89	160.62
CW-1-78	285076.7975	565214.8187	157.74	158.46	NA
CW-2-78	285036.4144	565073.0946	161.12	163.52	NA
CW-4-75	285357.1092	565303.0102	150.38	151.28	NA
CW-B-77	285713.5101	565312.7758	151.69	151.86	NA
DN-3	286040.3412	565128.5492	164.21	165.77	165.65
MW-03	285065.0345	565508.9949	150.78	153.95	153.79
MW-05	286030.0289	565651.3991	147.53	150.81	150.52
MW-121A	285833.8881	565538.8242	150.82	153.41	152.96
MW-121B	285817.0718	565532.1574	150.87	153.20	152.91
MW-121C	285825.8355	565535.2709	150.98	153.38	152.93
MW-121M	285845.2443	565535.4729	151.01	153.96	153.83
MW-124C	285852.5468	565237.9664	156.17	158.14	158.00
MW-125C	286383.1731	565403.1559	154.29	156.46	156.30
MW-126B	287008.3643	565123.4773	163.01	163.01	162.41
MW-126C	287011.1992	565122.4417	163.19	163.19	162.60
MW-127B	285086.4694	565402.6537	147.75	150.44	150.22
MW-127C	285081.1102	565404.3985	147.53	150.18	149.96
MW-128	285327.6014	565212.2593	154.29	156.53	156.35
MW-202A	287224.817	566031.0295	156.74	156.74	156.08
MW-202B	287225.1829	566036.5976	156.87	156.87	156.39
MW-204A	285566.183	565669.018	148.99	150.99	150.78
MW-204B	285568.7323	565651.0908	149.07	150.91	150.54
MW-205A	284996.5884	565558.4591	150.22	152.54	152.19
MW-205B	284992.065	565550.8829	149.80	152.05	151.86
MW-209A	286263.4314	564582.0312	195.79	198.07	197.91
MW-209B	286258.0493	564582.2828	195.66	198.15	197.91
MW-413	286350.5399	565278.5494	158.04	160.68	160.49
MW-415	286346.1955	565275.3249	158.21	160.87	160.75
MW-416	286290.5909	565264.7464	157.38	160.11	159.98
MW-501A	286342.7739	565837.3062	169.20	169.20	169.02
MW-501B	286346.4198	565838.0611	169.12	169.12	168.92
MW-501C	286349.5787	565838.3386	169.04	169.04	168.79
MW-502	286269.7279	565495.2033	153.30	156.11	155.84
MW-701DR	286254.0577	564579.0589	196.23	198.94	198.69
MW-702DR	286074.0278	564913.1466	179.26	181.65	181.38
MW-703D	285097.5169	565299.6391	153.42	155.64	155.43

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Well ID	Northing[1]	Easting[1]	Ground Elevation[2]	Casing Elevation[2]	PVC Elevation[2]
MW-703DR	285072.9856	565298.9162	153.22	153.67	153.33
MW-703S	285087.073	565298.6375	153.78	156.07	155.80
MW-704D	285591.1267	565540.4463	151.22	151.22	150.98
MW-704DR	285564.7585	565552.2697	150.57	152.94	152.84
MW-704M	285574.2273	565557.3817	150.68	153.02	152.34
MW-704R	285568.5435	565578.5327	150.65	153.81	153.23
MW-704S	285583.505	565557.444	151.07	151.07	150.84
MW-705D	286754.0657	565421.899	159.60	161.97	161.44
MW-705DR	286749.3586	565430.3049	159.06	161.41	160.99
MW-705R	286743.9895	565423.0861	159.86	161.79	161.42
MW-706DR	286215.578	565666.9463	148.18	150.45	149.91
MW-707D	285102.5649	565598.6671	154.14	156.24	156.09
MW-707DR	285125.1215	565566.0747	155.88	157.06	156.80
MW-707M	285109.3698	565604.6152	153.89	155.60	155.14
MW-707R	285115.8706	565595.685	154.24	156.27	156.01
MW-707S	285115.6287	565609.0455	153.73	155.65	155.17
MW-708DR	286423.1285	566250.8972	221.24	224.34	224.19
MW-708M	286404.7405	566244.3723	222.56	225.56	225.35
MW-708R	286408.0224	566253.7443	222.77	225.06	224.95
MW-708S	286418.1055	566241.3108	221.54	224.23	223.95
MW-709DR	287091.7073	565403.1573	159.93	162.04	161.64
MW-709R	287091.4315	565403.4848	159.93	162.04	161.64
MW-710DR	284856.4947	566113.4228	165.36	165.36	165.15
MW-710R	284835.5297	566110.3237	164.99	164.99	164.68
MW-710S	284846.9534	566112.5591	165.35	165.35	165.11
MW-801R	285429.9393	565126.4995	152.83	154.87	154.58
MW-801S	285425.5639	565124.2964	152.99	154.78	154.35
MW-901D	286174.7487	564879.4342	179.08	181.18	181.00
MW-901R	286178.8959	564875.3813	176.52	179.18	178.96
MW-902D	286265.7788	565277.4206	157.59	160.18	159.96
MW-902M	286250.4561	565277.0237	157.89	160.65	160.39
MW-903D	286007.0133	565816.3021	170.56	173.77	173.61
MW-903M	286005.9982	565823.8539	170.78	174.02	173.87
MW-903R	286007.5209	565801.6559	170.05	174.06	173.77
MW-903S	286093.8966	565740.2156	169.13	169.13	168.57
MW-904D	286368.3668	565839.7976	168.45	168.45	167.94
MW-904S	286265.5112	565783.5344	151.50	155.86	155.74
MW-905M	285852.3975	565255.6248	155.65	158.13	157.91
MW-906D	286787.9414	565683.3594	151.79	156.12	156.01
MW-906M	286791.5418	565691.4897	151.97	156.03	155.89
MW-906R	286797.5231	565683.3437	152.00	155.91	155.73
MW-907D	285955.2419	565533.8427	152.81	154.99	154.75
MW-907M	285956.7075	565555.369	151.88	154.69	154.47
MW-907DR	285951.42	565572.0247	150.26	154.26	154.04
MW-908D	286121.155	565307.4976	156.45	160.33	159.85
MW-909D	286556.0315	565311.5378	158.71	161.61	161.44
MW-910S	286001.7665	565874.0001	172.63	176.66	176.50
MW-1001M	285686.6207	566071.0571	195.86	195.86	195.32
MW-1001R	285697.9343	566068.136	196.93	196.93	196.47
MW-1002R	285464.4798	565711.7136	150.20	152.77	152.37
MW-1002DR	285462.7832	565721.5553	150.30	154.40	153.91
MW-1003R	285261.6391	565644.5985	152.76	155.61	155.23
MW-1003DR	285274.2351	565642.1165	152.15	155.31	154.77
MWL-303	286604.1582	565456.8568	157.12	159.01	158.70
MWL-304	286466.2736	565265.191	158.69	160.07	159.90
MWL-307	286297.3834	565259.5116	157.63	159.87	159.14

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Well ID	Northing[1]	Easting[1]	Ground Elevation[2]	Casing Elevation[2]	PVC Elevation[2]
MWL-309	286302.2473	565504.9165	152.69	155.36	155.20
MWL-312	286153.6056	565509.0631	153.51	155.72	155.57
MWL-313	285992.3065	565351.9341	154.37	156.55	156.39
MWL-314	286000.8387	565502.3569	153.64	155.69	155.53
P-101A	286226.0643	565674.2007	148.22	150.56	150.32
P-101B	286232.0197	565675.0323	148.53	150.57	150.48
P-101C	286237.5685	565675.9772	148.72	151.34	150.61
P-102A	286458.6321	565701.5475	148.88	151.21	150.96
P-102B	286464.8101	565702.0663	149.00	151.86	150.95
P-102C	286471.1822	565702.0882	148.98	151.71	151.12
P-11A	286217.7886	565586.3719	151.14	152.90	152.73
P-11B	286219.1608	565577.1552	152.26	155.02	154.86
P-12	287115.4548	565321.0833	161.98	164.72	164.53
P-13	285851.6267	565242.5113	156.04	158.21	157.88
P-3A	286458.5769	565575.805	147.95	151.81	151.69
P-3B	286456.1406	565570.1098	147.89	149.96	149.76
P-5B	286286.5143	565390.8817	155.65	158.76	158.39
P-6	286294.2336	565499.4273	152.71	154.01	153.78
P-8A	286067.4786	564921.2847	179.56	181.43	181.26
P-8B	286063.6846	564918.069	179.42	181.29	181.05
PZ-903DR	286009.4709	565793.9787	170.13	174.37	174.21
PZ-906DR	286801.4361	565689.976	154.37	155.97	155.85
PZ-907R	285963.0806	565546.7105	152.87	154.47	154.35
PZO-121S	285819.5606	565547.4683	150.66	153.01	152.92
PZO-204M	285561.6645	565657.9519	149.16	151.49	151.15
PZO-2D	285340.0982	565578.819	152.38	154.44	154.14
PZO-2M	285328.7789	565585.6829	152.70	154.91	154.77
PZO-3D	285209.5773	565726.4803	150.92	153.46	153.14
PZO-3M	285210.9115	565736.2793	150.83	153.03	152.62
PZO-4D	285477.3902	565357.631	151.33	154.11	153.98
PZO-4M	285485.1735	565352.5879	151.19	153.74	153.63
PZR-1R	285404.7923	565720.2739	148.67	151.30	151.06
PZR-2DR	285318.6399	565579.4873	153.08	155.25	154.67
PZR-2R	285330.9669	565562.6796	152.05	154.02	153.78
PZR-3R	285220.4145	565743.8559	150.10	152.61	152.47
PZR-4DR	285463.7614	565387.3358	150.73	153.47	152.73
PZR-4R	285470.2661	565367.7881	152.14	154.17	153.72
PZR-5R	285531.568	565279.9095	151.89	154.75	154.56
SRS-1	285872.0419	565194.6217	160.17	160.93	160.74
SRS-3	285863.5517	565394.3367	151.50	152.69	152.46
TW-08A	286402.1158	565211.0793	159.44	162.21	161.97
TW-08B	286411.8864	565209.5367	159.42	162.24	162.01
TW-08D	286420.3762	565211.1925	158.90	161.69	161.48

Table 1 - Monitoring Well Network Survey Data
Sovents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut
June 2014

Recovery Well ID	Northing[1]	Easting[1]	Ground Elevation[2]	Casing Elevation[2]	Top of Vault Elevation[2]
RW-1	286133.224	565265.1172	158.4±	157.61	159.54
RW-1R	285561.2626	565570.4636	149.1±	149.77	149.92
RW-2	286288.459	565376.2306	157.4±	156.49	158.08
RW-3	286383.4828	565363.8473	158.4±	157.35	159.27
RW-4	286497.6171	565313.6636	159.2±	158.21	160.04
RW-7	286113.5815	565223.0213	158.6±	157.09	159.06
RW-8	286179.7323	565304.0572	158.3±	156.95	158.89
RW-9	286237.9997	565344.018	158.0±	156.72	158.73
RW-10	286333.5226	565369.8725	157.4±	156.13	158.04
RW-11	286445.7798	565353.7824	158.6±	157.82	159.82
RW-12	286164.9003	565285.2824	158.6±	158.36	160.17
RW-13	285601.5546	565560.8107	150.5±	151.64	153.09
RW-14	285570.8678	565533.0085	151.9±	151.71	153.16

Notes:

1. Surface coordinates are referenced to the North American Datum of 1927 (NAD 27) coordinate system.
2. Elevations are referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

Table 2 - Groundwater Elevation Data
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut
June 2014

Well ID	Well Group[1]	TOC Elevation	Date	Depth to Water (ft bTOC)[2]	Depth to Bottom (ft bTOC)[2]	Depth to NAPL (ft bTOC)	NAPL Thickness (ft)	GW Elevation (ft AMSL)
CPZ-1	C	159.64	06/09/14	7.17	21.59	---	---	152.47
CPZ-3	C	159.21	06/09/14	9.13	25.51	---	---	150.08
CPZ-5	C	158.68	06/09/14	17.13	26.86	---	---	141.55
CPZ-6	C	154.48	06/09/14	4.65	26.27	---	---	149.83
CPZ-7	C	159.40	06/09/14	11.34	22.84	---	---	148.06
CPZ-8	C	160.11	06/09/14	6.05	23.48	---	---	154.06
CPZ-10	C	163.44	06/09/14	6.09	19.10	---	---	157.35
CPZ-1R	C	161.12	06/09/14	2.95	61.01	---	---	158.17
CPZ-2R	C	160.97	06/09/14	7.79	63.60	---	---	153.18
CPZ-3R	C	160.70	06/09/14	6.08	67.28	---	---	154.62
CPZ-4R	C	158.76	06/09/14	5.50	69.38	---	---	153.26
CPZ-5R	C	158.30	06/09/14	12.09	64.77	---	---	146.21
CPZ-6R	C	154.39	06/09/14	5.79	72.02	---	---	148.60
CPZ-7R	C	158.58	06/09/14	1.88	62.70	---	---	156.70
CPZ-8R	R	160.62	06/09/14	7.15	65.00	*	*	153.47
CPZ-10R	C	162.98	06/09/14	2.69	64.53	---	---	160.29
CPZ-2A	C	158.82	06/09/14	3.88	24.60	---	---	154.94
CPZ-4A	R	159.44	06/09/14	8.78	26.95	---	---	150.66
CPZ-6A	C	158.05	06/09/14	7.98	26.74	---	---	150.07
CW-1-78	W	158.46	06/09/14	11.20	36.87	---	---	147.26
CW-4-75	W	151.28	06/09/14	Well destroyed; to be abandoned				
CW-B-77	W	151.86	06/09/14	3.86	18.19	---	---	148.00
DN-3	C	165.65	06/09/14	5.15	23.35	---	---	160.50
MW-03	R	153.79	06/09/14	6.77	80.50	---	---	147.02
MW-05	C	150.52	06/09/14	2.34	78.84	---	---	148.18
MW-121A	C	152.96	06/09/14	5.78	97.10	---	---	147.18
MW-121B	R	152.91	06/09/14	5.68	54.28	---	---	147.23
MW-121C	R	152.93	06/09/14	5.69	71.18	---	---	147.24
MW-121M	R	153.83	06/09/14	5.90	33.00	---	---	147.93
MW-124C	R	158.00	06/09/14	5.43	47.45	---	---	152.57
MW-125C	C	156.30	06/09/14	7.96	53.14	---	---	148.34
MW-126B	M	162.41	06/09/14	2.96	12.20	---	---	159.45
MW-126C	B	162.60	06/09/14	1.45	33.38	---	---	161.15
MW-127B	C	150.22	06/09/14	3.10	48.80	---	---	147.12
MW-127C	R	149.96	06/09/14	3.90	101.90	---	---	146.06
MW-128	C	156.35	06/09/14	8.80	67.80	---	---	147.55
MW-202A	W	156.08	06/09/14	6.35	127.40	---	---	149.73
MW-202B	W	156.39	06/09/14	6.46	92.70	---	---	149.93
MW-204A	C	150.78	06/09/14	4.00	115.65	---	---	146.78
MW-204B	C	150.54	06/09/14	3.89	79.98	---	---	146.65
MW-205A	W	152.19	06/09/14	5.28	134.65	---	---	146.91
MW-205B	C	151.86	06/09/14	5.10	48.41	---	---	146.76
MW-209A	B	197.91	06/09/14	21.80	39.83	---	---	176.11
MW-209B	B	197.91	06/09/14	15.70	16.94	---	---	182.21
MW-413	N	160.49	06/09/14	4.75	22.11	---	---	155.74
MW-415	N	160.75	06/09/14	4.95	14.07	---	---	155.80
MW-416	N	159.98	06/09/14	7.92	49.66	---	---	152.06
MW-501A	C	169.02	06/09/14	20.12	90.65	---	---	148.90
MW-501B	C	168.92	06/09/14	20.21	64.15	---	---	148.71
MW-501C	C	168.79	06/09/14	21.10	28.99	---	---	147.69

Table 2 - Groundwater Elevation Data
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut
June 2014

Well ID	Well Group[1]	TOC Elevation	Date	Depth to Water (ft bTOC)[2]	Depth to Bottom (ft bTOC)[2]	Depth to NAPL (ft bTOC)	NAPL Thickness (ft)	GW Elevation (ft AMSL)
MW-502	R	155.84	06/09/14	6.99	35.47	---	---	148.85
MW-701DR	M	198.69	06/09/14	16.67	105.40	---	---	182.02
MW-702DR	W	181.38	06/09/14	15.75	112.10	---	---	165.63
MW-703D	C	155.43	06/09/14	8.30	85.85	---	---	147.13
MW-703DR	C	153.33	06/09/14	3.10	173.98	---	---	150.23
MW-703S	C	155.80	06/09/14	8.80	37.06	---	---	147.00
MW-704D	R	150.98	06/09/14	4.89	60.80	---	---	146.09
MW-704DR	R	152.84	06/09/14	63.65	134.30	---	---	89.19
MW-704M	R	152.34	06/09/14	6.85	47.60	---	---	145.49
MW-704R	C	153.23	06/09/14	7.95	92.44	---	---	145.28
MW-704S	C	150.84	06/09/14	3.12	18.18	---	---	147.72
MW-705D	C	161.44	06/09/14	4.38	37.31	---	---	157.06
MW-705DR	R	160.99	06/09/14	3.48	105.92	---	---	157.51
MW-705R	C	161.42	06/09/14	7.09	56.92	---	---	154.33
MW-706DR	R	149.91	06/09/14	1.84	130.65	---	---	148.07
MW-707D	C	156.09	06/09/14	8.95	96.14	--	---	147.14
MW-707DR	R	156.80	06/09/14	10.00	194.80	---	---	146.80
MW-707M	C	155.14	06/09/14	8.05	69.71	---	---	147.09
MW-707R	C	156.01	06/09/14	8.95	125.20	---	---	147.06
MW-707S	C	155.17	06/09/14	8.05	31.47	---	---	147.12
MW-708DR	W	224.19	06/09/14	74.97	207.69	---	---	149.22
MW-708M	W	225.35	06/09/14	75.23	128.70	---	---	150.12
MW-708R	W	224.95	06/09/14	74.10	191.05	---	---	150.85
MW-708S	W	223.95	06/09/14	74.26	95.40	---	---	149.69
MW-709DR	C	161.64	06/09/14	2.85	133.21	---	---	158.79
MW-709R	C	161.64	06/09/14	4.89	69.96	---	---	156.75
MW-710DR	C	165.15	06/09/14	16.88	204.15	---	---	148.27
MW-710R	C	164.68	06/09/14	18.22	142.86	---	---	146.46
MW-710S	W	165.11	06/09/14	15.86	42.49	---	---	149.25
MW-801R	W	154.58	06/09/14	5.10	46.81	---	---	149.48
MW-801S	W	154.35	06/09/14	6.10	20.04	---	---	148.25
MW-901D	M	181.00	06/09/14	DRY	14.50	---	---	NC
MW-901R	M	178.96	06/09/14	15.84	42.10	---	---	163.12
MW-902D	N	159.96	06/09/14	9.35	21.44	---	---	150.61
MW-902M	N	160.39	06/09/14	8.71	26.03	---	---	151.68
MW-903D	C	173.61	06/09/14	25.33	103.51	---	---	148.28
MW-903M	C	173.87	06/09/14	25.57	82.54	---	---	148.30
MW-903R	C	173.77	06/09/14	25.60	150.83	---	---	148.17
MW-903S	C	168.57	06/09/14	21.05	28.24	---	---	147.52
MW-904D	C	167.94	06/09/14	19.15	78.89	---	---	148.79
MW-904S	C	155.74	06/09/14	8.19	18.40	---	---	147.55
MW-905M	C	157.91	06/09/14	7.41	28.30	---	---	150.50
MW-906D	C	156.01	06/09/14	6.59	72.49	---	---	149.42
MW-906M	C	155.89	06/09/14	8.12	52.45	---	---	147.77
MW-906R	C	155.73	06/09/14	4.65	119.48	---	---	151.08
MW-907D	R	154.75	06/09/14	7.33	54.86	---	---	147.42
MW-907DR	R	154.04	06/10/14	2.42	174.71	---	---	151.62
MW-907M	R	154.47	06/09/14	6.82	40.12	---	---	147.65
MW-908D	C	159.85	06/09/14	7.98	32.53	---	---	151.87
MW-909D	C	161.44	06/09/14	4.85	29.84	---	---	156.59

Table 2 - Groundwater Elevation Data
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut
June 2014

Well ID	Well Group[1]	TOC Elevation	Date	Depth to Water (ft bTOC)[2]	Depth to Bottom (ft bTOC)[2]	Depth to NAPL (ft bTOC)	NAPL Thickness (ft)	GW Elevation (ft AMSL)
MW-910S	C	176.50	06/09/14	29.00	34.99	---	---	147.50
MW-1001M	C	195.32	06/09/14	46.60	94.70	---	---	148.72
MW-1001R	C	196.47	06/09/14	49.62	192.00	---	---	146.85
MW-1002DR	R	153.91	06/09/14	60.65	191.07	---	---	93.26
MW-1002R	R	152.37	06/09/14	4.20	122.15	---	---	148.17
MW-1003DR	R	154.77	06/09/14	13.28	197.46	---	---	141.49
MW-1003R	R	155.23	06/09/14	8.21	121.00	---	---	147.02
MWL-303	C	158.70	06/09/14	8.52	12.85	---	---	150.18
MWL-304	N	159.90	06/09/14	6.52	15.96	---	---	153.38
MWL-307	N	159.14	06/09/14	3.69	12.68	---	---	155.45
MWL-309	R	155.20	06/09/14	5.13	13.10	---	---	150.07
MWL-312	C	155.57	06/09/14	7.38	12.54	---	---	148.19
MWL-313	C	156.39	06/09/14	6.99	12.67	---	---	149.40
MWL-314	W	155.53	06/09/14	7.26	12.65	---	---	148.27
P-101A	C	150.32	06/09/14	1.83	98.44	---	---	148.49
P-101B	R	150.48	06/09/14	1.83	46.40	---	---	148.65
P-101C	R	150.61	06/09/14	4.38	15.00	---	---	146.23
P-102A	C	150.96	06/09/14	2.00	94.00	---	---	148.96
P-102B	C	150.95	06/09/14	2.19	41.53	---	---	148.76
P-102C	C	151.12	06/09/14	3.57	15.42	---	---	147.55
P-11A	R	152.73	06/09/14	5.19	68.32	---	---	147.54
P-11B	C	154.86	06/09/14	6.61	16.11	---	---	148.25
P-12	M	164.53	06/09/14	6.81	16.18	---	---	157.72
P-13	R	157.88	06/09/14	9.96	17.00	---	---	147.92
P-3A	C	151.69	06/09/14	2.98	67.93	---	---	148.71
P-3B	C	149.76	06/09/14	1.22	18.61	---	---	148.54
P-5B	C	158.39	06/09/14	5.95	11.90	---	---	152.44
P-6	C	153.78	06/09/14	5.05	59.91	---	---	148.73
P-8A	W	181.26	06/09/14	15.79	73.06	---	---	165.47
P-8B	W	181.05	06/09/14	14.32	21.40	---	---	166.73
PZ-903DR	W	174.21	06/09/14	26.49	183.98	---	---	147.72
PZ-906DR	W	155.85	06/09/14	5.17	204.00	---	---	150.68
PZ-907R	W	154.35	06/09/14	5.60	125.56	---	---	148.75
PZO-2D	R	154.14	06/09/14	7.05	85.30	---	---	147.09
PZO-2M	R	154.77	06/09/14	7.58	58.85	---	---	147.19
PZO-3D	C	153.14	06/09/14	5.35	101.60	---	---	147.79
PZO-3M	C	152.62	06/09/14	5.39	57.79	---	---	147.23
PZO-4D	C	153.98	06/09/14	6.30	58.31	---	---	147.68
PZO-4M	C	153.63	06/09/14	6.20	41.11	---	---	147.43
PZO-121S	W	152.92	06/09/14	3.35	4.44	---	---	149.57
PZO-204M	C	151.15	06/09/14	4.11	57.34	---	---	147.04
PZR-1R	W	151.06	06/09/14	2.77	76.00	---	---	148.29
PZR-2DR	C	154.67	06/09/14	7.90	203.85	---	---	146.77
PZR-2R	R	153.78	06/09/14	6.82	141.60	---	---	146.96
PZR-3R	C	152.47	06/09/14	4.90	141.29	---	---	147.57
PZR-4DR	C	152.73	06/09/14	0.70	157.31	---	---	152.03
PZR-4R	C	153.72	06/09/14	6.10	91.71	---	---	147.62
PZR-5R	C	154.56	06/09/14	5.10	75.35	---	---	149.46
RW-1[3]	W	157.61	06/09/14	13.20	NG	---	---	144.41
RW-1R[3]	W	149.77	06/09/14	41.39	NG	---	---	108.38

Table 2 - Groundwater Elevation Data
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut
June 2014

Well ID	Well Group[1]	TOC Elevation	Date	Depth to Water (ft bTOC)[2]	Depth to Bottom (ft bTOC)[2]	Depth to NAPL (ft bTOC)	NAPL Thickness (ft)	GW Elevation (ft AMSL)
RW-2[3]	W	156.49	06/09/14	21.80	NG	---	---	134.69
RW-3[3]	W	157.35	06/09/14	9.48	NG	---	---	147.87
RW-4[3]	W	158.21	06/09/14	11.15	NG	---	---	147.06
RW-7[3]	W	157.09	06/09/14	14.32	NG	---	---	142.77
RW-8[3]	W	156.95	06/09/14	18.35	NG	---	---	138.60
RW-9[3]	W	156.72	06/09/14	18.95	NG	---	---	137.77
RW-10[3]	W	156.13	06/09/14	10.55	NG	---	---	145.58
RW-11[3]	W	157.82	06/09/14	9.70	NG	---	---	148.12
RW-12[3]	W	158.36	06/09/14	23.90	NG	---	---	134.46
RW-13	W	151.64	06/09/14	41.52	NG	---	---	110.12
RW-14[3]	W	151.71	06/09/14	10.60	NG	---	---	141.11
SRS-1	C	160.74	06/09/14	5.65	21.60	---	---	155.09
SRS-3	C	152.46	06/09/14	3.61	39.30	---	---	148.85
TW-08A	N	161.97	06/09/14	5.33	14.33	---	---	156.64
TW-08B	N	162.01	06/09/14	5.43	28.37	---	---	156.58
TW-08D	N	161.48	06/09/14	4.91	25.86	---	---	156.57
Stream Gauge Points								
SG-1	--	155.58	06/09/14	8.40	---	---	---	147.18
SG-2	--	154.44	06/09/14	9.41	---	---	---	145.03
SG-3	--	153.56	06/09/14	7.19	---	---	---	146.37

Notes:

NAPL - non-aqueous phase liquid
ft - feet
bTOC - below top of casing
AMSL - above mean sea level
NC - not calculated
NG - not gauged
NS - not surveyed
--- - indicates NAPL was not present
* - NAPL present in well, athough depth could not be measured with IP. NAPL was visually confirmed (approximately 0.5 liters recovered).
1. Well groups are defined in Section 2 of the report.
2. Water level and bottom measurements were conducted by ARCADIS and O&M, Inc.
3. Wells gauged by Weston Solutions.

Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					CPZ-1		CPZ-10		CPZ-10R		CPZ-1R		CPZ-2A		CPZ-2R		CPZ-3		CPZ-3R		CPZ-4A		CPZ-4R		CPZ-4R		CPZ-5	
Sample Date					6/12/2014 14:25		6/9/2014 13:05		6/12/2014 14:25		6/12/2014 14:10		6/13/2014 9:10		6/13/2014 9:40		6/12/2014 9:15		6/12/2014 9:50		6/12/2014 15:15		6/11/2014 0:00		6/11/2014 15:25		6/12/2014 10:20	
Field Sample ID					CPZ-1-06122014		CPZ-10-06092014		CPZ-10R-HS-06122014		CPZ-1R-06122014		CPZ-2A-06132014		CPZ-2R-06132014		CPZ-3-HS-06122014		CPZ-3R-HS-06122014		CPZ-4A-06122014		DUP-GW-06112014-#3		CPZ-4R-HS-06112014		CPZ-5-HS-06122014	
Well Group					C		C		C		C		C		C		C		C		R		C		C		C	
HydroStratZone(s)					SOB, MOB		MOB		SBR		SBR		SOB, MOB		SBR		SOB, MOB		SBR		SOB, MOB		SBR		SBR		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																									
VOCs (8260C)																													
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	0.5	UJ	2.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	10	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	**8.48**	--	**0.778**	--	2.5	U	**25.2**	--	**2.22**	--	**47**	--	20	U	**1.88**	--	**1.49**	--	**0.39**	J	**0.525**	J	10	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	0.75	U	3.75	U	0.75	U	0.75	U	0.75	U	30	U	0.75	U	0.75	U	0.75	U	0.75	UJ	15	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	**23.6**	--	**0.199**	J	3.75	U	**8.62**	--	**4.99**	--	**7.11**	--	**43.2**	--	**85.9**	--	**3.97**	--	**83.3**	--	**150**	J	**165**	--
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	**1.38**	--	**0.192**	J	**2.53**	--	**6.18**	--	0.5	U	**9.56**	--	20	U	0.5	U	**0.774**	--	**0.726**	--	**1.16**	J	**3.99**	J
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	2.5	U	12.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U	50	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	2.5	U	12.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U	50	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	20	U	**1.56**	--	0.5	U	**5.68**	--	**11.8**	J	**6.35**	J
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	2.5	U	12.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U	50	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	5	U	25	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U	100	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	5	U	25	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U	100	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	5	U	25	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U	100	U
Acetone	67-64-1	ug/L	700	5	5	U	5	U	25	U	5	U	5	U	5	U	200	U	5	U	**2.39**	J	5	U	5	U	100	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	**23.4**	--	**0.541**	--	**2.35**	--	**1.92**	--	**3.67**	J	**4.77**	J
Bromomethane	74-83-9	ug/L	9.8	0.5	1	UJ	1	U	5	UJ	1	UJ	1	UJ	1	UJ	40	UJ	1	UJ	1	UJ	1	U	1	U	20	UJ
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	5	U	25	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U	100	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	10	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	**1.12**	--	0.5	U	0.5	U	10	U
Chloroethane	75-00-3	ug/L	12.1	0.5	**8.94**	--	1	U	5	U	1	U	1	U	1	U	**4790**	J	**32.4**	--	**17.7**	--	**11.5**	--	**24.3**	J	**31.6**	--
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	0.75	U	3.75	U	0.75	U	0.75	U	0.75	U	30	U	0.75	U	0.75	U	0.75	U	0.75	U	15	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	2.5	U	12.5	UJ	2.5	UJ	2.5	U	2.5	U	100	UJ	2.5	U	2.5	U	2.5	U	2.5	U	50	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**6.54**	--	**1.46**	--	**231**	--	**15.3**	--	**1.3**	--	**20.9**	--	20	U	**0.442**	J	**2.55**	--	**2**	--	**3.07**	J	**1670**	--
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	**3660**	--	**0.191**	J	0.5	U	0.5	U	0.5	U	**19**	--
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	0.6	U	3	U	0.6	U	0.6	U	0.6	U	24	U	0.6	U	0.6	U	0.6	U	0.6	U	12	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	5	U	25	U	5	U	5	U	5	U	**32**	J	5	U	5	U	**0.499**	J	**0.968**	J	100	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	2.5	U	12.5	U	2.5	UJ	2.5	U	2.5	U	**13.3**	J	2.5	U	2.5	UJ	2.5	U	2.5	U	50	U
Styrene	100-42-5	ug/L	100	0.5	1	U	1	U	5	U	1	U	1	U	1	U	40	U	1	U	1	U	1	U	1	U	20	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	**1.04**	--	**0.86**	--	**8.7**	--	**0.568**	--	**7.51**	--	**0.4**	J	20	U	**0.921**	--	0.5	U	**0.824**	--	**0.569**	--	10	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	**2.09**	J	5	U	25	U	**1.11**	J	5	U	**1.13**	J	**97.4**	J	**9.81**	--	**24.6**	--	**66**	--	**134**	J	**41.4**	J
Toluene	108-88-3	ug/L	1000	0.5	0.75	U	0.75	U	**6.35**	--	0.75	U	0.75	U	0.75	U	**3760**	--	**0.586**	J	0.75	U	**0.619**	J	**0.4**	J	**120**	--
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	0.75	U	3.75	U	0.75	U	0.75	U	0.75	U	30	U	0.75	U	0.75	U	**0.713**	J	**1.35**	--	15	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	0.5	UJ	2.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	10	U
Trichloroethene	79-01-6	ug/L	5	0.5	**1.55**	--	**2.39**	--	**10.6**	--	**3.68**	--	**3.96**	--	**3.19**	--	20	U	**3.05**	--	**1.65**	--	**4.21**	--	**3.25**	J	10	U
Vinyl chloride	75-01-4	ug/L	2	0.5	**0.509**	J	1	U	**31.2**	--	**0.156**	J	1	U	1	U	40	U	1	U	**1.64**	--	**1.47**	--	**2.99**	--	**425**	--
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	1	U	5	U	1	U	1	U	1	U	**2080**	--	1	U	**3.27**	--	1	U	1	U	**20.7**	J

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					CPZ-5R		CPZ-5R		CPZ-6		CPZ-6		CPZ-6A		CPZ-6R		CPZ-7		CPZ-7		CPZ-7R		CPZ-8		DN-3		MW-03	
Sample Date					6/12/2014 0:00		6/12/2014 10:45		6/12/2014 0:00		6/12/2014 8:05		6/11/2014 15:00		6/12/2014 8:40		6/12/2014 0:00		6/12/2014 13:15		6/12/2014 13:50		6/13/2014 10:30		6/12/2014 14:05		6/9/2014 12:30	
Field Sample ID					DUP-GW-06122014-#3		CPZ-5R-HS-06122014		DUP-GW-06122014-#2		CPZ-6-HS-06122014		CPZ-6A-HS-06112014		CPZ-6R-HS-06122014		DUP-GW-06122014-#5		CPZ-7-HS-06122014		CPZ-7R-HS-06122014		CPZ-8-06132014		DN-3-06122014		MW-03-06092014	
Well Group					C		C		C		C		C		C		C		C		C		C		C		R	
HydroStratZone(s)					SBR		SBR		MOB		MOB		MOB, DOB		SBR		SOB, MOB		SOB, MOB		SBR		MOB		DOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																									
VOCs (8260C)																													
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	10	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1000	U	0.5	U	0.5	U	0.5	UJ
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	10	U	5	U	0.5	U	0.5	U	0.5	UJ	0.5	U	1	U	1	U	**14500**	--	0.5	U	**4.1**	--	0.5	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	15	U	7.5	U	0.75	U	0.75	U	0.75	UJ	0.75	U	1.5	U	1.5	U	1500	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	15	U	7.5	U	0.75	U	0.75	U	0.75	UJ	0.75	U	**12.4**	--	**12.1**	--	1500	U	**1.74**	--	**4.85**	--	**0.192**	J
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	**33.4**	--	**32.5**	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.738**	J	**0.677**	J	**2530**	--	0.5	U	**1.39**	--	0.5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	50	U	25	U	2.5	U	2.5	U	2.5	U	2.5	U	5	U	5	U	5000	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	50	U	25	U	2.5	U	2.5	U	**0.497**	J	**0.223**	J	5	U	5	U	5000	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	10	U	5	U	0.5	U	0.5	U	0.5	UJ	0.5	U	1	U	1	U	1000	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	50	U	25	U	2.5	U	2.5	U	2.5	U	**0.252**	J	5	U	5	U	5000	U	2.5	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	100	U	50	U	5	U	5	U	5	U	5	U	10	U	10	U	**7030**	J	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	100	U	50	U	5	U	5	U	5	U	5	U	10	U	10	U	10000	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	100	U	50	U	5	U	5	U	5	U	5	U	10	U	10	U	**7830**	J	5	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	100	U	50	U	5	U	5	U	5	U	5	U	10	U	10	U	10000	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	10	U	5	U	**1.49**	--	**1.51**	--	**47.5**	J	**30.2**	--	**0.57**	J	**0.582**	J	**495**	J	0.5	U	0.5	U	0.5	U
Bromomethane	74-83-9	ug/L	9.8	0.5	20	UJ	10	UJ	1	UJ	1	UJ	1	U	1	UJ	2	UJ	2	UJ	2000	UJ	1	UJ	1	UJ	1	U
Carbon disulfide	75-15-0	ug/L	700	0.5	100	U	50	U	5	U	5	U	5	U	5	U	10	U	10	U	10000	U	5	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	10	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1000	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	10	U	5	U	**0.49**	J	**0.468**	J	**24.5**	--	**6.94**	--	**0.474**	J	**0.454**	J	1000	U	0.5	U	0.5	U	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	20	U	10	U	**16.7**	J	**15.2**	--	**146**	J	**13.5**	J	**3.29**	--	**3.1**	J	2000	U	1	U	1	U	1	U
Chloroform	67-66-3	ug/L	6	0.5	15	U	7.5	U	0.75	U	0.75	U	0.75	U	0.75	U	1.5	U	1.5	U	1500	U	0.75	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	50	U	25	U	2.5	UJ	2.5	U	2.5	U	2.5	UJ	5	UJ	5	UJ	5000	UJ	2.5	U	2.5	UJ	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**1420**	--	**1390**	--	0.5	U	0.5	U	0.5	UJ	**0.223**	J	**170**	--	**166**	--	**190000**	--	**1.94**	--	**2.26**	--	0.5	U
Ethylbenzene	100-41-4	ug/L	700	0.5	10	U	5	U	0.5	U	0.5	U	**123**	--	0.5	U	**1.74**	--	**1.93**	--	**4760**	--	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	12	U	6	U	0.6	U	0.6	U	0.6	U	0.6	U	1.2	U	1.2	U	1200	U	0.6	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	100	U	50	U	5	U	5	U	**0.301**	J	5	U	10	U	10	U	**4990**	J	5	U	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	50	U	25	U	2.5	UJ	2.5	UJ	**4.04**	--	2.5	UJ	5	U	5	UJ	5000	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	20	U	10	U	1	U	1	U	1	U	1	U	2	U	2	U	2000	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	**99**	--	**104**	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.859**	J	**0.636**	J	**24500**	--	0.5	U	0.5	U	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	100	U	50	U	**1.74**	J	**1.84**	J	**1960**	J	**32.1**	--	**5.47**	J	**4.93**	J	10000	U	5	U	5	U	5	U
Toluene	108-88-3	ug/L	1000	0.5	**11.7**	J	**11.2**	--	0.75	U	0.75	U	**0.738**	J	**0.486**	J	**1.38**	J	**1.45**	J	**41100**	--	0.75	U	0.75	U	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	15	U	7.5	U	0.75	U	0.75	U	**0.6**	J	0.75	U	1.5	U	1.5	U	1500	U	0.75	U	0.75	U	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	10	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1000	U	0.5	U	0.5	U	0.5	UJ
Trichloroethene	79-01-6	ug/L	5	0.5	**948**	--	**930**	--	**0.224**	J	**0.211**	J	**0.46**	J	**0.648**	--	**5.86**	--	**5.55**	--	**339000**	--	**0.441**	J	**0.248**	J	**0.288**	J
Vinyl chloride	75-01-4	ug/L	2	0.5	**137**	--	**133**	--	1	U	1	U	1	U	1	U	**90.5**	--	**84**	--	**1250**	J	**3.6**	--	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	20	U	10	U	**0.665**	J	**0.684**	J	**198**	--	1	U	**1.8**	J	**1.68**	J	**11600**	--	1	U	1	U	1	U

Notes:
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Bold = Analyte detected above the laboratory reporting limit
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Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					MW-05		MW-1001M		MW-1001R		MW-1001R		MW-1002DR		MW-1002R		MW-1003DR		MW-1003R		MW-121A		MW-121B		MW-121C		MW-121M	
Sample Date					6/11/2014 12:20		6/11/2014 9:40		6/11/2014 10:35		9/16/2014 12:11		6/11/2014 14:00		6/11/2014 15:10		6/11/2014 13:15		6/10/2014 11:55		6/11/2014 12:55		6/11/2014 15:40		6/11/2014 14:45		6/13/2014 10:05	
Field Sample ID					MW-05-HS-06112014		MW-1001M-06112014		MW-1001R-06112014		MW-1001R-09162014		MW-1002DR-HS-06112014		MW-1002R-06112014		MW-1003DR-HS-06112014		MW-1003R-06102014		MW-121A-HS-06112014		MW-121B-HS-06112014		MW-121C-HS-06112014		MW-121M-06132014	
Well Group					C		C		C		C		R		R		R		R		C		R		R		R	
HydroStratZone(s)					SBR		MOB		SBR		SBR		DBR		SBR		DBR		SBR		SBR		DOB		SBR		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																									
VOCs (8260C)																													
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	0.5	U	0.5	U	0.5	U	1.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	0.5	UJ	0.5	U	0.5	U	0.5	U	1.25	UJ	0.5	U	**1.51**	J	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	UJ	0.75	U	0.75	U	0.75	U	1.88	UJ	0.75	U	0.75	UJ	0.75	U	0.75	UJ	0.75	UJ	0.75	UJ	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	**0.402**	J	0.75	U	0.75	U	0.75	U	**0.578**	J	0.75	UJ	**0.392**	J	0.75	U	**1.09**	J	0.75	UJ	0.75	UJ	0.75	U
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	0.5	U	0.5	U	0.5	U	**3.14**	--	0.5	U	**0.24**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	2.5	U	2.5	U	2.5	U	6.25	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	2.5	U	2.5	U	2.5	U	6.25	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	UJ	0.5	U	0.5	U	0.5	U	1.25	UJ	0.5	UJ	0.5	UJ	0.5	U	**0.276**	J	0.5	UJ	0.5	UJ	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	2.5	U	2.5	U	2.5	U	6.25	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	5	U	**2.37**	J	**3.15**	J	12.5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	5	U	**1.44**	J	**1.62**	J	12.5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	5	U	5	U	5	U	12.5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	5	U	5	U	**23.1**	--	**23.9**	--	12.5	U	5	U	8.03	U	**8.88**	--	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	**7.85**	J	0.5	U	**10.6**	--	**11.7**	--	**0.613**	J	0.5	UJ	**0.828**	J	**0.455**	J	**2.16**	J	**11.5**	J	**10.2**	J	**1.73**	--
Bromomethane	74-83-9	ug/L	9.8	0.5	1	U	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U	1	UJ
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	5	U	**0.696**	J	**0.509**	J	12.5	U	**0.725**	J	5	U	**3.38**	J	5	U	5	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	0.5	U	0.5	U	0.5	U	1.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	**7.02**	--	0.5	U	0.5	U	0.5	U	1.25	U	0.5	U	0.5	U	0.5	U	**1.02**	--	**7.93**	--	**6.12**	--	**1.83**	--
Chloroethane	75-00-3	ug/L	12.1	0.5	**8.95**	J	1	U	1	U	1	U	**0.494**	J	1	UJ	1	UJ	1	U	**8.92**	J	**27.6**	J	**24.2**	J	**28**	--
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	0.75	U	0.75	U	0.75	U	1.88	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	2.5	U	2.5	U	2.5	U	6.25	U	2.5	U	2.5	U	**0.184**	J	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**0.267**	J	0.5	U	0.5	U	**0.193**	J	**28.7**	J	0.5	UJ	**0.48**	J	**0.444**	J	**0.217**	J	0.5	UJ	0.5	UJ	0.5	U
Ethylbenzene	100-41-4	ug/L	700	0.5	**0.362**	J	0.5	U	0.5	U	0.5	U	1.25	U	0.5	U	**0.677**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	0.6	U	0.6	U	0.6	U	1.5	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	5	U	5	U	5	U	12.5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	2.5	U	2.5	U	2.5	U	6.25	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	1	U	1	U	1	U	2.5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	0.5	U	0.5	U	**1.52**	--	**1.11**	--	**22.2**	--	0.5	U	**4.64**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	**90.4**	J	5	U	5	U	5	U	12.5	UJ	5	UJ	5	UJ	5	U	**5.36**	J	**149**	J	**40.6**	J	**19**	--
Toluene	108-88-3	ug/L	1000	0.5	**0.176**	J	0.75	U	**0.639**	J	**0.538**	J	1.88	U	**0.372**	J	**7.15**	--	**1.56**	--	0.75	U	**0.2**	J	**0.309**	J	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	**0.197**	J	0.75	U	0.75	U	0.75	U	1.88	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	0.5	U	0.5	U	0.5	U	1.25	U	0.5	U	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	0.5	UJ	0.5	U	0.5	U	0.5	U	**468**	J	**0.562**	--	**53.8**	J	**0.58**	--	**0.3**	J	0.5	UJ	**0.88**	J	0.5	U
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	1	U	1	U	**0.15**	J	2.5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	**0.346**	J	1	U	1	U	1	U	2.5	U	1	U	**2.44**	J	**0.516**	J	1	U	**1.36**	--	**0.38**	J	**0.516**	J

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					MW-124C		MW-125C		MW-127B		MW-127C		MW-128		MW-204A		MW-204B		MW-205B		MW-413		MW-415		MW-416		MW-501A	
Sample Date					6/12/2014 10:35		6/11/2014 14:00		6/11/2014 10:30		6/11/2014 9:15		6/11/2014 9:45		6/9/2014 13:20		6/9/2014 12:55		6/12/2014 9:25		6/11/2014 10:45		6/11/2014 9:55		6/12/2014 13:20		6/11/2014 16:00	
Field Sample ID					MW-124C-06122014		MW-125C-HS-06112014		MW-127B-06112014		MW-127C-06112014		MW-128-06112014		MW-204A-06092014		MW-204B-06092014		MW-205B-06122014		MW-413-HS-06112014		MW-415-HS-06112014		MW-416-HS-06122014		MW-501A-06112014	
Well Group					R		C		C		R		C		C		C		C		N		N		N		C	
HydroStratZone(s)					SBR		SBR		MOB		SBR		SBR		SBR		DOB		MOB		DOB		MOB		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																										
VOCs (8260C)																														
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	125	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	U	50	U	5	U	2.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	**3.31**	--	125	UJ	**0.384**	J	**2.01**	--	**0.41**	J	0.5	U	**0.19**	J	0.5	U	50	UJ	5	UJ	**99**	--	**0.513**	--
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	188	UJ	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	75	UJ	7.5	UJ	3.75	U	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	**1.69**	--	188	UJ	0.75	UJ	**4.11**	--	**0.425**	J	0.75	U	0.75	U	0.75	U	**1420**	J	**290**	J	**17.3**	--	**0.532**	J
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	**2.08**	--	**200**	--	0.5	U	**1.68**	--	**0.933**	--	0.5	U	0.5	U	0.5	U	**60.7**	--	**7.12**	--	**28.5**	--	0.5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	625	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	250	U	25	U	12.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	625	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	250	U	25	U	12.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	125	UJ	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	**52.3**	J	**2.47**	J	2.5	U	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	625	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	250	U	25	U	12.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	**671**	J	5	U	5	U	5	U	5	U	5	U	5	U	**459**	J	50	U	25	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	1250	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	50	U	25	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	**2550**	--	5	U	5	U	5	U	5	U	5	U	5	U	500	U	50	U	25	U	5	U
Acetone	67-64-1	ug/L	700	5	5	U	1610	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	50	U	25	U	5	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	**154**	J	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	**40.8**	J	5	UJ	2.5	U	0.5	U
Bromomethane	74-83-9	ug/L	9.8	0.5	1	UJ	250	U	1	U	1	U	1	U	1	U	1	U	1	UJ	100	U	10	U	5	UJ	1	U
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	1250	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	50	U	25	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	**0.503**	--	125	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	50	U	5	U	2.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	125	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	50	U	**2.93**	J	2.5	U	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	250	UJ	1	UJ	1	UJ	1	U	1	U	1	U	1	U	**270**	J	**291**	J	**0.682**	J	1	U
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	188	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	75	U	7.5	U	3.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	625	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	250	U	25	U	12.5	UJ	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**3.16**	--	**32100**	J	0.5	UJ	**1.85**	--	**0.428**	J	**0.288**	J	**0.37**	J	0.5	U	**13300**	J	**1600**	J	**308**	--	**2.34**	--
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	**2480**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1140**	--	**90**	--	2.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	150	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	60	U	6	U	3	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	1250	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	**12.8**	J	25	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	625	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	250	U	25	U	12.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	250	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	10	U	5	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	0.5	U	125	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.197**	J	0.5	U	50	U	5	U	**15**	--	**0.426**	J
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	**1090**	J	5	UJ	5	UJ	5	U	5	U	5	U	5	U	**352**	J	**25.4**	J	**7.61**	J	5	U
Toluene	108-88-3	ug/L	1000	0.5	0.75	U	**8520**	--	0.75	U	**0.196**	J	0.75	U	0.75	U	0.75	U	0.75	U	**5900**	--	**761**	--	3.75	U	**0.192**	J
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	188	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	75	U	**5.81**	J	3.75	U	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	125	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	U	50	U	5	U	2.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	**0.664**	--	125	UJ	0.5	UJ	**0.297**	J	0.5	U	**0.604**	--	**0.846**	--	**0.364**	J	50	UJ	5	UJ	**219**	--	**4.73**	--
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	**30300**	--	1	U	1	U	1	U	1	U	1	U	1	U	**12200**	--	**313**	--	**22.2**	--	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	**4100**	--	1	U	1	U	1	U	1	U	1	U	1	U	**1650**	--	**209**	--	5	U	1	U

Notes:
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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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SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
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DBR = Deep Bedrock

Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					MW-501B		MW-501C		MW-502		MW-703D		MW-703DR		MW-703S		MW-704D		MW-704D		MW-704DR		MW-704M		MW-704R		MW-704S	
Sample Date					6/11/2014 16:15		6/11/2014 13:25		6/11/2014 9:15		6/9/2014 15:25		6/10/2014 9:35		6/10/2014 10:01		6/12/2014 0:00		6/12/2014 8:50		6/13/2014 9:40		6/12/2014 10:15		6/11/2014 9:50		6/11/2014 10:25	
Field Sample ID					MW-501B-06112014		MW-501C-06112014		MW-502-HS-06112014		MW-703D-06092014		MW-703DR-06102014		MW-703S-06102014		DUP-GW-06122014-#6		MW-704D-06122014		MW-704DR-06132014		MW-704M-06122014		MW-704R-HS-06112014		MW-704S-HS-06112014	
Well Group					C		C		R		C		C		C		R		R		R		R		C		C	
HydroStratZone(s)					MOB		SOB		DOB		DOB		DBR		SOB		DOB		DOB		DBR		MOB		SBR		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																									
VOCs (8260C)																													
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	**0.446**	J	0.5	U	0.5	UJ	**0.281**	J	0.5	U	**0.512**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	0.75	U	0.75	UJ	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	UJ	0.75	UJ
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	**0.186**	J	0.75	U	0.75	UJ	0.75	U	0.75	U	0.75	U	**0.849**	--	**0.942**	--	**1.39**	--	**0.268**	J	0.75	UJ	0.75	UJ
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	2.5	U	**0.297**	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	12.7	U	5	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	0.5	U	**67.4**	J	0.5	U	0.5	U	0.5	U	**0.194**	J	**0.192**	J	**2.59**	--	0.5	U	**0.379**	J	0.5	UJ
Bromomethane	74-83-9	ug/L	9.8	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	U
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	**30.1**	--	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	0.5	U	**25.5**	--	0.5	U	0.5	U	0.5	U	**1.74**	--	**1.69**	--	**1.49**	--	**1.48**	--	0.5	U	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	1	U	**50.3**	J	1	U	1	U	1	U	**7.89**	--	**8.53**	--	**17.3**	--	**1.76**	--	1	UJ	1	UJ
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	1.38	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**0.797**	--	0.5	U	**0.424**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.347**	J	**0.298**	J	0.5	UJ	0.5	UJ
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	0.5	U	**122**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	5	U	**0.356**	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	**0.437**	J	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	2.5	U	**0.864**	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	**0.439**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	5	U	**4230**	J	5	U	5	U	5	U	**4.84**	J	**4.88**	J	**4.38**	J	**3.21**	J	5	UJ	5	UJ
Toluene	108-88-3	ug/L	1000	0.5	0.75	U	0.75	U	**3.23**	--	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**1.52**	--	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	**2.75**	--	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	UJ
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	1	U	**113**	--	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**0.428**	J	1	U

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					MW-705D		MW-705DR		MW-705R		MW-706DR		MW-707D		MW-707DR		MW-707M		MW-707R		MW-707S		MW-709DR		MW-709R		MW-710DR	
Sample Date					6/9/2014 18:15		6/13/2014 9:45		6/11/2014 14:25		6/12/2014 8:30		6/10/2014 9:30		6/11/2014 11:10		6/11/2014 15:55		6/10/2014 9:05		6/11/2014 16:11		6/11/2014 8:40		6/11/2014 8:15		6/12/2014 11:20	
Field Sample ID					MW-705D-06092014		MW-705DR-HS-06132014		MW-705R-HS-06112014		MW-706DR-HS-06122014		MW-707D-06102014		MW-707DR-06112014		MW-707M-06112014		MW-707R-06102014		MW-707S-06112014		MW-709DR-HS-06112014		MW-709R-HS-06112014		MW-710DR-06122014	
Well Group					C		R		C		R		C		R		C		C		C		C		C		C	
HydroStratZone(s)					DOB		DBR		SBR		DBR		DOB		DBR		MOB		SOB		SOB		DBR		SBR		DBR	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																									
VOCs (8260C)																													
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	**18.2**	J	125	U	25	U	0.5	UJ	0.5	U	0.5	U	0.5	UJ	0.5	U	12.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	0.5	U	**21600**	--	125	UJ	25	U	0.5	U	**0.698**	--	0.5	U	**0.168**	J	0.5	U	12.5	UJ	0.5	UJ	0.5	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	37.5	U	188	UJ	37.5	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	18.8	UJ	0.75	UJ	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	0.75	U	37.5	U	188	UJ	37.5	U	0.75	U	**0.888**	--	0.75	U	**0.251**	J	0.75	U	18.8	UJ	0.75	UJ	**0.307**	J
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	**2920**	--	**540**	--	**40.1**	--	0.5	U	**0.231**	J	0.5	U	0.5	U	0.5	U	**74.4**	--	**7.73**	--	0.5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	125	U	625	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	62.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	125	U	625	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	62.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	**728**	--	125	UJ	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	12.5	UJ	0.5	UJ	**0.27**	J
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	125	U	625	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	62.5	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	**24700**	J	1250	U	250	U	5	U	5	U	5	U	5	U	5	U	125	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	**28.1**	J	1250	U	250	U	5	U	5	U	5	U	5	U	5	U	125	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	**19800**	J	1250	U	250	U	5	U	5	U	5	U	5	U	5	U	125	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	5	U	**2520**	--	1250	U	250	U	5	U	5	U	5	U	5	U	5	U	125	U	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	**585**	--	125	UJ	25	U	0.5	U	**0.171**	J	0.5	U	0.5	U	0.5	U	**6.65**	J	**0.411**	J	0.5	U
Bromomethane	74-83-9	ug/L	9.8	0.5	1	UJ	50	UJ	250	U	50	UJ	1	U	1	U	1	U	1	U	1	U	25	U	1	U	1	UJ
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	250	U	1250	U	250	U	5	U	5	U	5	U	5	U	5	U	125	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	**4500**	--	125	U	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	12.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	25	U	125	U	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	12.5	U	0.5	U	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	50	U	250	UJ	50	U	1	U	1	U	1	U	1	U	1	U	25	UJ	1	UJ	**0.173**	J
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	**486**	--	188	U	37.5	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	18.8	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	125	U	625	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	62.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	0.5	U	**26700**	--	**42300**	J	**561**	--	0.5	U	**0.493**	J	0.5	U	**0.763**	--	0.5	U	**1210**	J	**259**	J	**2.73**	--
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	**4570**	--	**285**	--	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**5.69**	J	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	30	U	150	U	30	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	15	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	**13400**	J	1250	U	**44.5**	J	5	U	5	U	5	U	5	U	5	U	125	U	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	**16.4**	J	625	U	125	UJ	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	62.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	**1320**	--	250	U	50	U	1	U	1	U	1	U	1	U	1	U	25	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	0.5	U	**33200**	--	**124**	J	**193**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**149**	--	**5.32**	--	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	**876**	--	1250	UJ	250	U	5	U	5	U	5	U	5	U	5	U	**35.6**	J	5	UJ	5	U
Toluene	108-88-3	ug/L	1000	0.5	0.75	U	**37000**	--	**1410**	--	**126**	--	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**30.9**	--	**0.434**	J	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	37.5	U	188	U	37.5	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**16.6**	J	**1.5**	--	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	UJ	25	U	125	U	25	U	0.5	UJ	0.5	U	0.5	U	0.5	UJ	0.5	U	12.5	U	0.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	0.5	U	**557000**	--	**4090**	J	**4690**	--	**0.224**	J	0.5	U	**0.409**	J	**1.41**	--	**0.566**	--	**4250**	J	**122**	J	**1.99**	--
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	**621**	--	**484**	--	50	U	1	U	1	U	1	U	1	U	1	U	**124**	--	**18**	--	**0.346**	J
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	**11200**	--	**558**	J	50	U	1	U	1	U	1	U	1	U	1	U	25	U	1	U	1	U

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					MW-710R		MW-902D		MW-902M		MW-903D		MW-903M		MW-903R		MW-903S		MW-904D		MW-904S		MW-905M		MW-906D		MW-906M	
Sample Date					6/12/2014 9:55		6/12/2014 13:45		6/12/2014 14:20		6/11/2014 12:45		6/10/2014 15:35		6/10/2014 15:15		6/13/2014 10:10		6/11/2014 13:20		6/12/2014 15:30		6/11/2014 14:20		6/10/2014 14:20		6/10/2014 14:40	
Field Sample ID					MW-710R-06122014		MW-902D-HS-06122014		MW-902M-HS-06122014		MW-903D-06112014		MW-903M-HS-06102014		MW-903R-HS-06102014		MW-903S-06132014		MW-904D-06112014		MW-904S-06122014		MW-905M-06112014		MW-906D-HS-06102014		MW-906M-HS-06102014	
Well Group					C		N		N		C		C		C		C		C		C		C		C		C	
HydroStratZone(s)					SBR		DOB		MOB		DOB		MOB		SBR		SOB		DOB		SOB		MOB		DOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																								
VOCs (8260C)																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	25	U	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	0.5	U	**134**	--	**122**	--	0.5	U	0.5	U	**0.35**	J	0.5	U	**0.288**	J	0.5	U	**2.49**	--	**2.53**	--	**3.6**	--
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	37.5	U	37.5	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	**0.592**	J	**427**	--	**627**	--	**0.228**	J	**1.71**	--	**0.267**	J	**0.282**	J	0.75	U	0.75	U	**1.07**	--	**0.474**	J	**2.55**	--
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	**26**	--	25	U	0.5	U	0.5	U	**0.726**	--	0.5	U	0.5	U	0.5	U	**0.279**	J	**0.587**	--	**1.11**	--
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	125	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	125	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	**29.2**	--	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	U	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	125	U	125	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	**308**	--	250	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	250	U	250	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	250	U	250	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	5	U	**224**	J	250	U	5	U	5	U	**10.5**	--	5	U	5	U	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	**21**	J	**11.9**	J	0.5	U	0.5	U	**0.91**	--	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	U	0.5	U
Bromomethane	74-83-9	ug/L	9.8	0.5	1	UJ	50	UJ	50	UJ	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	250	U	250	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	25	U	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.363**	J	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	**17.5**	J	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.26**	--	0.5	U	0.5	U	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	**742**	--	**6070**	--	1	U	1	U	**0.442**	J	**0.558**	J	1	U	1	U	1	UJ	1	U	1	U
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	37.5	U	37.5	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	125	U	125	U	2.5	U	2.5	U	**0.451**	J	2.5	U	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**0.323**	J	**5600**	--	**120**	--	**0.915**	--	**3.77**	--	**4.97**	--	0.5	U	**0.306**	J	0.5	U	**1.08**	--	**5.66**	--	**37.1**	--
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	**1120**	--	**3440**	--	0.5	U	0.5	U	**0.242**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	30	U	30	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	**43.5**	J	**20.8**	J	5	U	5	U	**1.86**	J	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	125	UJ	**13.9**	J	2.5	U	2.5	U	2.5	U	**0.29**	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	50	U	50	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	0.5	U	25	U	25	U	**0.444**	J	**0.846**	--	**3.4**	--	0.5	U	**0.385**	J	0.5	U	**0.234**	J	**2.73**	--	**6.27**	--
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	**154**	J	**55.8**	J	5	U	5	U	5	U	**8.14**	--	5	U	5	U	5	UJ	5	U	5	U
Toluene	108-88-3	ug/L	1000	0.5	**0.293**	J	**4280**	--	**15800**	--	0.75	U	**0.16**	J	**2.44**	--	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	**17.4**	J	37.5	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**0.163**	J
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	25	U	25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	**2.48**	--	**14.5**	J	25	U	**2.36**	--	**16.1**	--	**95.3**	--	0.5	U	**1.79**	--	0.5	U	0.5	UJ	**15.9**	--	**35.8**	--
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	**4650**	--	50	U	1	U	1	U	**0.308**	J	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	**1990**	--	**1920**	--	1	U	1	U	**1.13**	J	1	U	1	U	1	U	1	U	1	U	1	U

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					MW-906R		MW-907D		MW-907DR		MW-907M		MW-908D		MW-909D		MW-910S		MWL-303		MWL-304		MWL-307		MWL-309		MWL-312	
Sample Date					6/10/2014 13:55		6/10/2014 15:00		6/10/2014 13:15		6/10/2014 14:30		6/11/2014 13:30		6/11/2014 16:10		6/11/2014 13:20		6/10/2014 15:35		6/13/2014 9:00		6/12/2014 11:10		6/13/2014 10:55		6/10/2014 10:15	
Field Sample ID					MW-906R-HS-06102014		MW-907D-HS-06102014		MW-907DR-HS-06102014		MW-907M-HS-06102014		MW-908D-HS-06112014		MW-909D-HS-06112014		MW-910S-06112014		MWL-303-06102014		MWL-304-HS-06132014		MWL-307-HS-06122014		MWL-309-06132014		MWL-312-06102014	
Well Group					C		R		R		R		C		C		C		C		N		N		R		C	
HydroStratZone(s)					SBR		DOB		DBR		MOB		DOB		DOB		SOB		SOB		SOB		SOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																								
VOCs (8260C)																												
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	2	U	0.5	U	25	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	5	U	20	U	0.5	U	0.5	UJ
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	2	U	0.5	U	**994**	--	0.5	U	0.5	UJ	1	UJ	0.5	U	0.5	U	5	U	20	U	0.5	U	0.5	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	3	U	0.75	U	**18**	J	0.75	U	0.75	UJ	1.5	UJ	0.75	U	0.75	U	7.5	U	30	U	0.75	U	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	3	U	**0.41**	J	**23.5**	J	0.75	U	**0.47**	J	**13.1**	J	0.75	U	0.75	U	**47.8**	--	**392**	--	**2.4**	--	0.75	U
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	**1.07**	J	0.5	U	**241**	--	0.5	U	0.5	U	**12.1**	--	0.5	U	0.5	U	**3.1**	J	**34.6**	--	0.5	U	0.5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	10	U	2.5	U	125	U	2.5	U	2.5	U	5	U	2.5	U	2.5	U	25	U	100	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	10	U	**0.348**	J	125	U	**0.444**	J	2.5	U	5	U	2.5	U	2.5	U	25	U	100	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	2	U	0.5	U	25	U	0.5	U	0.5	UJ	1	UJ	0.5	U	0.5	U	5	U	**10.7**	J	**4.96**	--	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	10	U	**0.461**	J	125	U	**0.57**	J	2.5	U	5	U	2.5	U	2.5	U	25	U	100	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	20	U	5	U	250	U	5	U	5	U	10	U	5	U	5	U	50	U	**879**	--	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	20	U	5	U	250	U	5	U	5	U	10	U	5	U	5	U	50	U	200	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	20	U	5	U	**303**	--	5	U	5	U	10	U	5	U	**8.72**	--	50	U	**373**	J	5	U	5	U
Acetone	67-64-1	ug/L	700	5	20	U	5	U	250	U	5	U	5	U	10	U	5	U	**3.46**	J	50	U	**362**	--	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	2	U	**31.5**	--	**35.1**	--	**51.2**	--	**1.33**	J	1	UJ	0.5	U	0.5	U	**3.84**	J	**10.5**	J	**1.86**	--	0.5	U
Bromomethane	74-83-9	ug/L	9.8	0.5	4	U	1	U	50	U	1	U	1	U	2	UJ	1	U	1	U	10	UJ	40	UJ	1	UJ	1	U
Carbon disulfide	75-15-0	ug/L	700	0.5	20	U	5	U	250	U	5	U	5	U	10	U	5	U	5	U	50	U	200	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	2	U	0.5	U	25	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	5	U	20	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	2	U	**15.5**	--	25	U	**23.6**	--	**0.709**	--	1	U	0.5	U	0.5	U	5	U	20	U	**11**	--	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	4	U	**57.4**	--	50	U	**95.3**	--	**18.1**	J	2	UJ	1	U	1	U	10	U	**768**	--	**35.1**	--	1	U
Chloroform	67-66-3	ug/L	6	0.5	3	U	0.75	U	37.5	U	0.75	U	0.75	U	1.5	U	0.75	U	0.75	U	7.5	U	30	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	10	U	2.5	U	125	U	2.5	U	2.5	U	5	U	2.5	U	2.5	U	25	U	100	UJ	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	**1.3**	J	**0.211**	J	**844**	--	0.5	U	0.5	UJ	**777**	J	0.5	U	0.5	U	**815**	--	**5060**	--	**1**	--	0.5	U
Ethylbenzene	100-41-4	ug/L	700	0.5	2	U	0.5	U	**426**	--	**0.392**	J	**0.924**	--	1	U	0.5	U	0.5	U	**100**	--	**466**	--	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	2.4	U	0.6	U	30	U	0.6	U	0.6	U	1.2	U	0.6	U	0.6	U	6	U	24	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	20	U	5	U	**91**	J	**0.434**	J	5	U	10	U	5	U	5	U	50	U	**60.2**	J	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	10	U	**0.223**	J	125	U	**1.25**	J	2.5	U	5	U	2.5	U	2.5	U	25	U	100	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	4	U	1	U	**117**	--	1	U	1	U	2	U	1	U	1	U	10	U	40	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	**8.7**	--	0.5	U	**4950**	--	**0.601**	--	0.5	U	**5.99**	--	0.5	U	0.5	U	5	U	**11.6**	J	0.5	U	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	20	U	**551**	--	250	U	**3170**	--	**8**	J	10	UJ	5	U	5	U	50	U	**62**	J	**52.7**	--	5	U
Toluene	108-88-3	ug/L	1000	0.5	**2.45**	J	**0.308**	J	**3900**	--	**0.772**	--	**0.222**	J	1.5	U	0.75	U	**0.224**	J	**38.7**	--	**3710**	--	0.75	U	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	3	U	0.75	U	37.5	U	0.75	U	0.75	U	**1.17**	J	0.75	U	0.75	U	7.5	U	**9.05**	J	**0.266**	J	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	2	U	0.5	U	25	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	5	U	20	U	0.5	U	**0.428**	J
Trichloroethene	79-01-6	ug/L	5	0.5	**172**	--	**0.185**	J	**54300**	--	**4.63**	--	**0.179**	J	**19.3**	J	0.5	U	0.5	U	5	U	**25.2**	--	0.5	U	0.5	U
Vinyl chloride	75-01-4	ug/L	2	0.5	4	U	1	U	50	U	1	U	1	U	2	U	1	U	1	U	**837**	--	**527**	--	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	4	U	**1.18**	--	**1260**	--	**2.8**	--	**0.623**	J	2	U	1	U	1	U	**86.8**	--	**683**	--	1	U	1	U

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Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

					Sample Location	MWL-313		P-101A		P-101B		P-101C		P-102A		P-102B		P-102C		P-11A		P-11B		P-13		P-3A		P-3B	
					Sample Date	6/10/2014 12:10		6/12/2014 8:45		6/12/2014 12:25		6/12/2014 12:25		6/10/2014 13:10		6/12/2014 9:10		6/10/2014 11:40		6/11/2014 8:00		6/11/2014 9:15		6/11/2014 14:00		6/11/2014 11:15		6/13/2014 9:45	
					Field Sample ID	MWL-313-06102014		P-101A-HS-06122014		P-101B-06122014		P-101C-06122014		P-102A-06102014		P-102B-HS-06122014		P-102C-06102014		P-11A-HS-06112014		P-11B-HS-06112014		P-13-06112014		P-3A-HS-06112014		P-3B-06132014	
					Well Group	C		C		R		R		C		C		C		R		C		R		C		C	
					HydroStratZone(s)	SOB		SBR		MOB		SOB		SBR		MOB		SOB		SBR		SOB		SOB		SBR		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																											
VOCs (8260C)																															
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	0.5	U	**0.998**	--	0.5	U	0.5	U	**15.9**	--	0.5	U	0.5	U	20	UJ	0.5	UJ	**3.27**	--	**10.3**	J	0.5	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	30	UJ	0.75	UJ	0.75	U	0.75	UJ	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	0.75	U	**4**	--	**0.689**	J	**5.02**	--	**3.61**	--	**6.09**	--	0.75	U	30	UJ	0.75	UJ	**1**	--	**18.3**	J	**2.65**	--
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	0.5	U	0.5	U	0.5	U	**0.687**	--	**0.73**	--	0.5	U	**43.2**	--	0.5	U	**0.434**	J	0.5	U	**2.36**	--
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	**0.304**	J	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	**0.245**	J	**0.155**	J	**0.238**	J	0.5	U	**0.382**	J	0.5	U	20	UJ	0.5	UJ	0.5	U	0.5	UJ	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	**0.286**	J	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	**3.43**	--	**4.26**	--	**2.48**	--	**0.252**	J	0.5	U	0.5	U	**39.1**	J	0.5	UJ	0.5	U	**25.1**	J	**0.449**	J
Bromomethane	74-83-9	ug/L	9.8	0.5	1	UJ	1	UJ	1	UJ	1	UJ	1	U	1	UJ	1	UJ	40	U	1	U	1	U	1	U	1	UJ
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	**0.875**	--	**1.64**	--	**0.997**	--	0.5	U	0.5	U	0.5	U	20	U	**0.273**	J	0.5	U	**4.22**	--	**0.843**	--
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	**0.905**	J	**7.24**	--	**0.649**	J	**0.232**	J	**0.543**	J	1	U	**22**	J	**0.682**	J	1	U	**6.94**	J	1	U
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	30	U	0.75	U	0.75	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	0.5	U	**4.55**	--	0.5	U	**1.94**	--	**4.97**	--	**79**	--	0.5	U	**5530**	J	0.5	UJ	**1.52**	--	**1.2**	J	**20.9**	--
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	**0.222**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**430**	--	0.5	U	0.5	U	**14**	--	**0.217**	J
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	24	U	0.6	U	0.6	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	200	U	5	U	5	U	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**17.1**	J	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	**0.223**	J	**0.186**	J	0.5	U	0.5	U	**1.13**	--	**3.38**	--	0.5	U	**125**	--	0.5	U	**0.491**	J	0.5	U	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	**5.95**	--	**3.46**	J	**4.08**	J	**2**	J	**3.7**	J	5	U	200	UJ	5	UJ	5	U	**98.7**	J	**1.61**	J
Toluene	108-88-3	ug/L	1000	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**0.199**	J	0.75	U	**702**	--	0.75	U	0.75	U	**1.03**	--	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	0.75	U	0.75	U	**0.195**	J	**0.175**	J	**0.166**	J	0.75	U	30	U	0.75	U	0.75	U	**0.991**	--	**0.319**	J
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	20	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	0.5	U	**1.12**	--	0.5	U	**0.29**	J	**4.95**	--	**25.5**	--	0.5	U	**886**	J	0.5	UJ	**0.427**	J	**0.324**	J	**2.36**	--
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	**9.09**	--	1	U	**6.27**	--	**2.81**	--	**0.263**	J	1	U	**1160**	--	1	U	1	U	**2.43**	--	**15**	--
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	1	U	**0.472**	J	1	U	1	U	1	U	1	U	**507**	--	1	U	1	U	**2.08**	J	1	U

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location					P-5B		P-6		PZO-204M		PZO-2D		PZO-2M		PZO-3D		PZO-3M		PZO-4D		PZO-4M		PZR-2DR		PZR-2R	
Sample Date					6/13/2014 8:00		6/11/2014 8:45		6/12/2014 10:30		6/10/2014 13:00		6/12/2014 9:50		6/10/2014 13:05		6/11/2014 13:50		6/11/2014 10:30		6/11/2014 9:10		6/12/2014 16:40		6/10/2014 14:00	
Field Sample ID					P-5B-06132014		P-6-HS-06112014		PZO-204M-HS-06122014		PZO-2D-06102014		PZO-2M-HS-06122014		PZO-3D-06102014		PZO-3M-06112014		PZO-4D-06112014		PZO-4M-06112014		PZR-2DR-06122014		PZR-2R-06102014	
Well Group					C		C		C		R		R		C		C		C		C		C		R	
HydroStratZone(s)					SOB		SBR		MOB		DOB		MOB		DOB		MOB		DOB		MOB		DBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																						
VOCs (8260C)																										
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	0.5	U	2.5	UJ	0.5	U	0.5	U	**0.397**	J	0.5	U	0.5	U	**0.513**	--	**0.216**	J	0.5	U	0.5	U
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	3.75	UJ	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	0.75	U	3.75	UJ	**0.446**	J	**0.546**	J	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	12.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	**1.61**	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	2.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	**2.06**	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	25	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	25	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	25	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	67-64-1	ug/L	700	5	**7.93**	--	25	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	**206**	J	**0.442**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	74-83-9	ug/L	9.8	0.5	1	UJ	5	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	25	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	**75.3**	--	**4.21**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	**205**	J	**0.284**	J	1	U	1	U	1	U	1	U	1	U	1	U	**0.317**	J	1	U
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	3.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	12.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	0.5	U	**1.22**	J	**1.12**	--	**0.73**	--	**0.214**	J	0.5	U	0.5	U	0.5	U	0.5	U	**0.392**	J	0.5	U
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	**924**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	3	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	**2.48**	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	**10.3**	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	ug/L	100	0.5	1	U	5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	0.5	U	2.5	U	**0.551**	--	0.5	U	**8.64**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	**18800**	J	**5.83**	--	5	U	5	U	5	U	5	U	5	U	**0.95**	J	5	U	5	U
Toluene	108-88-3	ug/L	1000	0.5	**0.278**	J	**5.91**	--	**0.459**	J	0.75	U	**0.25**	J	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	3.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	79-01-6	ug/L	5	0.5	0.5	U	2.5	UJ	**4.41**	--	**1.84**	--	**17.7**	--	**0.296**	J	**0.263**	J	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	**1640**	--	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U

Notes:
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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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SOB = Shallow Overburden
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Table 3 – VOCs – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

					Sample Location	PZR-3R		PZR-3R		PZR-4DR		PZR-4R		PZR-4R		PZR-5R		SRS-1		SRS-3		TW-08A		TW-08B		TW-08D	
					Sample Date	6/10/2014 0:00		6/10/2014 13:00		6/12/2014 10:15		6/12/2014 0:00		6/12/2014 10:15		6/12/2014 11:50		6/12/2014 16:10		6/13/2014 10:40		6/12/2014 14:50		6/12/2014 15:00		6/12/2014 15:10	
					Field Sample ID	DUP-GW-06102014#1		PZR-3R-06102014		PZR-4DR-06122014		DUP-GW-06122014-#4		PZR-4R-06122014		PZR-5R-06122014		SRS-1-06122014		SRS-3-06132014		TW-08A-HS-06122014		TW-08B-HS-06122014		TW-08D-HS-06122014	
					Well Group	C		C		C		C		C		C		C		C		N		N		N	
					HydroStratZone(s)	SBR		SBR		DBR		SBR		SBR		SBR		DOB		DOB		MOB		SBR		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**	**ICL**																						
VOCs (8260C)																										
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	1	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	100	U	200	U	100	U
1,1,1-Trichloroethane	71-55-6	ug/L	200	0.5	0.5	U	0.5	U	0.5	U	**3.88**	--	**3.87**	--	**2.39**	--	**1**	--	**4.8**	--	100	U	200	U	**427**	--
1,1,2-Trichloroethane	79-00-5	ug/L	5	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	150	U	**138**	J	150	U
1,1-Dichloroethane	75-34-3	ug/L	70	0.5	0.75	U	0.75	U	0.75	U	**2.02**	--	**2.06**	--	**6.19**	--	**0.299**	J	**6.94**	--	**1220**	--	300	U	**787**	--
1,1-Dichloroethene	75-35-4	ug/L	7	0.5	0.5	U	0.5	U	0.5	U	**1.01**	--	**0.996**	--	**4.39**	--	0.5	U	**0.869**	--	**105**	--	**1480**	--	**196**	--
1,2,4-Trichlorobenzene	120-82-1	ug/L	70	2	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	500	U	1000	U	500	U
1,2-Dichlorobenzene	95-50-1	ug/L	600	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	500	U	1000	U	500	U
1,2-Dichloroethane	107-06-2	ug/L	1	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	100	U	200	U	**106**	--
1,4-Dichlorobenzene	106-46-7	ug/L	75	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	500	U	1000	U	500	U
2-Butanone (MEK)	78-93-3	ug/L	400	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	**3130**	--	1000	U
2-Hexanone	591-78-6	ug/L	140	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	2000	U	1000	U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	350	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	**2280**	--	1000	U
Acetone	67-64-1	ug/L	700	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	**1520**	J	1000	U
Benzene	71-43-2	ug/L	1	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**39.1**	J	**539**	--	**94.5**	J
Bromomethane	74-83-9	ug/L	9.8	0.5	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	200	UJ	400	UJ	200	UJ
Carbon disulfide	75-15-0	ug/L	700	0.5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	2000	U	1000	U
Carbon tetrachloride	56-23-5	ug/L	5	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	100	U	200	U	100	U
Chlorobenzene	108-90-7	ug/L	100	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**87.8**	J	200	U	100	U
Chloroethane	75-00-3	ug/L	12.1	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**482**	--	**513**	--	200	U
Chloroform	67-66-3	ug/L	6	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	150	U	**162**	J	150	U
Chloromethane	74-87-3	ug/L	2.7	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U	500	UJ	1000	U	500	U
cis-1,2-Dichloroethene	156-59-2	ug/L	70	0.5	0.5	U	0.5	U	0.5	U	**2.08**	--	**2.12**	--	**3.78**	--	**0.45**	J	**2.98**	--	**15000**	--	**308000**	--	**29100**	--
Ethylbenzene	100-41-4	ug/L	700	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**2760**	--	**4680**	--	**2530**	--
Hexachlorobutadiene	87-68-3	ug/L	0.45	0.45	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	120	U	240	U	120	U
Methylene chloride	75-09-2	ug/L	5	0.5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	**613**	J	1000	U
Naphthalene	91-20-3	ug/L	280	0.5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	500	U	1000	UJ	500	UJ
Styrene	100-42-5	ug/L	100	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	200	U	**689**	--	200	U
Tetrachloroethene	127-18-4	ug/L	5	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.194**	J	**0.296**	J	**0.261**	J	100	U	**20200**	--	100	U
Tetrahydrofuran	109-99-9	ug/L	4.6	0.5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	1000	U	**436**	J	**325**	J
Toluene	108-88-3	ug/L	1000	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	**10700**	--	**47900**	--	**10800**	--
trans-1,2-Dichloroethene	156-60-5	ug/L	100	0.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	150	U	**134**	J	**43.6**	J
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.5	0.5	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	100	U	200	U	100	U
Trichloroethene	79-01-6	ug/L	5	0.5	0.5	U	0.5	U	0.5	U	**0.251**	J	**0.248**	J	**0.796**	--	0.5	U	**0.404**	J	100	U	**293000**	--	**72.3**	J
Vinyl chloride	75-01-4	ug/L	2	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**0.524**	J	**7640**	--	**14000**	--	**19400**	--
Xylenes, Total	1330-20-7	ug/L	530	0.5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**5950**	--	**11200**	--	**4580**	--

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
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	CPZ-1		CPZ-10		CPZ-10R		CPZ-1R		CPZ-2A		CPZ-2R		CPZ-3		CPZ-3R		CPZ-4A		CPZ-4R		CPZ-5		CPZ-5R	
			Sample Date	6/12/2014 14:25		6/9/2014 13:05		6/12/2014 14:25		6/12/2014 14:10		6/13/2014 9:10		6/13/2014 9:40		6/12/2014 9:15		6/12/2014 9:50		6/12/2014 15:15		6/11/2014 15:25		6/12/2014 10:20		6/12/2014 10:45	
			Field Sample ID	CPZ-1-06122014		CPZ-10-06092014		CPZ-10R-HS-06122014		CPZ-1R-06122014		CPZ-2A-06132014		CPZ-2R-06132014		CPZ-3-HS-06122014		CPZ-3R-HS-06122014		CPZ-4A-06122014		CPZ-4R-HS-06112014		CPZ-5-HS-06122014		CPZ-5R-HS-06122014	
			Well Group	C		C		C		C		C		C		C		C		R		C		C		C	
			HydroStratZone(s)	SOB, MOB		MOB		SBR		SBR		SOB, MOB		SBR		SOB, MOB		SBR		SOB, MOB		SBR		MOB		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**4.17**	J	10	U	**3.07**	J	10	U	10	U	**4.57**	J	**2.28**	J	**4.24**	J	10	U	**3.85**	J	**3.01**	J	**12.1**	--
Aluminum (Total)	7429-90-5	ug/L	--	**44.4**	J	**190**	J	**60**	J	2.14	UJ	10	U	**129**	--	**2800**	J	**250**	J	**19**	J	**199**	J	**7.58**	J	**45**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	**2.363**	J	2	U	1	U	1	U	2	U	2	U	1	U	2	U	2	U	2	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	**1.178**	J	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**0.271**	J	0.5	U	0.51	U	0.58	U	0.5	U	**0.266**	J	**3.71**	--	**0.179**	J	**2.901**	--	**0.288**	J	**1.62**	--	**1.445**	--
Arsenic (Total)	7440-38-2	ug/L	10	**0.425**	J	**0.26**	J	**0.368**	J	**0.567**	--	**0.81**	J	**1.5**	J	**5.595**	--	**0.312**	J	**5.751**	--	**0.464**	J	**2.421**	--	**1.611**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**296.8**	--	**381.8**	--	**220.2**	--	**146**	--	**282.8**	--	**74.07**	--	**994.2**	--	**12.05**	--	**560.6**	--	**8.462**	--	**497.5**	--	**25.9**	--
Barium (Total)	7440-39-3	ug/L	1000	**294.3**	--	**393.9**	--	**266.8**	--	**151.2**	--	**331.7**	--	**91.36**	--	**1102**	--	**18.02**	--	**644.3**	--	**13.75**	--	**522.7**	--	**25.67**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.298**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	**1.706**	--	0.5	U	0.5	U	0.5	U	**0.081**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	**3.057**	--	0.5	U	0.5	U	0.5	U	**0.175**	J	**0.083**	J	**0.092**	J	0.5	U	0.5	U	**0.064**	J	0.5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.737**	--	0.5	U	**0.56**	J	**0.46**	J	**0.191**	J	**0.167**	J	**1.33**	--	0.5	U	**0.255**	J	0.5	U	**0.521**	--	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**0.825**	--	0.634	U	**0.378**	J	**0.223**	J	**0.244**	J	**0.558**	--	**5.113**	--	**0.684**	--	**0.272**	J	**0.466**	J	**0.864**	--	**0.167**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.123**	J	0.5	U	**0.45**	J	0.5	U	**2.653**	--	0.5	U	**1.548**	--	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**0.374**	J	**0.197**	J	0.5	U	0.5	U	**0.34**	J	**0.618**	--	**6.935**	--	**0.158**	J	**2.79**	--	**0.114**	J	**1.753**	--	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	**1.514**	J	1.5	U	1.4	UJ	0.94	UJ	2.1	U	**1.957**	--	**1**	J	**1.3**	J	**0.737**	J	**1.646**	--	**1.7**	J	**1**	J
Copper (Total)	7440-50-8	ug/L	1300	**1.908**	--	1.2	U	1	U	0.65	U	1.4	U	**4.521**	--	**6.354**	--	**1.605**	--	**4.194**	--	0.5	U	**0.599**	--	**0.236**	J
Iron (Dissolved)	7439-89-6	ug/L	--	**17.6**	J	50	U	50	U	50	U	**332**	--	**22.5**	J	**28400**	--	**181**	--	**15900**	--	**233**	--	**9620**	--	**18.7**	J
Iron (Total)	7439-89-6	ug/L	--	**223**	--	**372**	--	**53.8**	--	**25.2**	J	**2850**	--	**1080**	--	**35200**	--	**473**	--	**19900**	--	**420**	--	**18800**	--	**116**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	0.5	U	**0.259**	J	**0.25**	J	0.5	U	0.5	U	**13.87**	--	**2.868**	--	**0.344**	J	0.5	U	**0.212**	J	0.5	U	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**11.86**	--	0.54	U	**2.04**	--	**1.84**	--	**313.5**	--	**1.802**	--	**4964**	--	**212.2**	--	**3152**	--	**102.3**	--	**5770**	--	**15.82**	--
Manganese (Total)	7439-96-5	ug/L	500	**44.02**	--	**20.97**	--	**27.34**	--	**3.201**	--	**512.2**	--	**240.6**	--	**5028**	--	**199.9**	--	**3086**	--	**116.7**	--	**6045**	--	**18.59**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**1.039**	J	0.5	U	0.61	U	0.77	U	**1.965**	--	**0.593**	J	**1.76**	--	**1**	J	**1.081**	J	**1.118**	--	**1.412**	--	**0.328**	J
Nickel (Total)	7440-02-0	ug/L	100	**0.766**	--	**0.31**	J	0.5	U	0.5	U	**5.07**	--	**0.43**	J	**3.362**	--	**0.426**	J	**0.817**	--	**0.158**	J	**1.377**	--	**0.151**	J
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**1.78**	--	**0.958**	--	**0.91**	--	**3.89**	--	**0.217**	J	**4.222**	--	**0.94**	--	**0.249**	J	**0.192**	J	**0.259**	J	**0.274**	J	**11.12**	--
Vanadium (Total)	7440-62-2	ug/L	50	**2.14**	--	**1.789**	--	**1.36**	--	**4.433**	--	**0.724**	--	**15.34**	--	**12.61**	--	**1.159**	--	**0.469**	J	**0.814**	--	**1.101**	--	**13.1**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	22.9	U	16	U	18	U	17	U	19	U	19.95	U	17	U	18	U	23.13	U	**19.4**	--	19	U	10	U
Zinc (Total)	7440-66-6	ug/L	5000	28.96	U	11	U	20	U	15	U	21	U	29	U	25	U	19	U	21	U	**20.5**	J	12	U	13	U

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	CPZ-6		CPZ-6A		CPZ-6R		CPZ-7		CPZ-7R		CPZ-8		DN-3		MW-03		MW-05		MW-1001M		MW-1001R		MW-1002DR	
			Sample Date	6/12/2014 8:05		6/11/2014 15:00		6/12/2014 8:40		6/12/2014 13:15		6/12/2014 13:50		6/13/2014 10:30		6/12/2014 14:05		6/9/2014 12:30		6/11/2014 12:20		6/11/2014 9:40		6/11/2014 10:35		6/11/2014 14:00	
			Field Sample ID	CPZ-6-HS-06122014		CPZ-6A-HS-06112014		CPZ-6R-HS-06122014		CPZ-7-HS-06122014		CPZ-7R-HS-06122014		CPZ-8-06132014		DN-3-06122014		MW-03-06092014		MW-05-HS-06112014		MW-1001M-06112014		MW-1001R-06112014		MW-1002DR-HS-06112014	
			Well Group	C		C		C		C		C		C		C		R		C		C		C		R	
			HydroStratZone(s)	MOB		MOB, DOB		SBR		SOB, MOB		SBR		MOB		DOB		MOB		SBR		MOB		SBR		DBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**2.97**	J	10	U	**16**	--	**2.76**	J	**4.29**	J	10	U	10	U	10	U	**17.1**	--	**13**	J	**24.2**	--	**2.06**	J
Aluminum (Total)	7429-90-5	ug/L	--	11	UJ	**13.4**	J	**120**	J	15	UJ	**190**	J	10	U	**80.9**	J	17	UJ	**162**	J	**155**	J	**63.3**	J	**223**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	0.13	UJ	2	U	1	U	1	U	1	U	2	U	1	U	2	U	2	U	4	U	**1.327**	J	2	U
Antimony (Total)	7440-36-0	ug/L	6	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.777	UJ	2	U	1	U	1	U	1.413	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	0.94	U	**7.175**	--	0.5	U	**3.54**	--	0.83	U	**4.407**	J	0.5	U	**0.333**	J	**0.445**	J	0.404	U	0.314	U	**0.533**	--
Arsenic (Total)	7440-38-2	ug/L	10	**4.18**	--	**9.363**	--	0.53	U	**27.89**	--	**1.462**	--	**4.9**	J	**0.45**	J	**0.349**	J	**0.706**	--	0.5	U	0.5	U	**1.012**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**309.9**	--	**643.1**	--	**356.3**	--	**871.4**	--	**55.13**	--	**407.2**	--	**268.6**	--	**217.5**	--	**182.5**	--	**132**	--	**43.72**	--	**45**	--
Barium (Total)	7440-39-3	ug/L	1000	**348.5**	--	**697.4**	--	**394.2**	--	**1434**	--	**67.99**	--	**436.3**	--	**356**	--	**242.4**	--	**200.1**	--	**135.7**	--	**45.51**	--	**48.14**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.095**	J	1	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.5	U	0.5	U	0.5	U	0.5	U	**0.05**	J	0.5	U	**0.123**	J	0.5	U	**0.892**	--	0.2	U	0.2	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	0.81	U	**0.214**	J	**0.87**	J	**0.66**	--	**1**	J	0.5	U	**0.43**	J	0.5	U	**0.192**	J	**1.126**	--	**106.5**	--	**0.272**	J
Chromium (Total)	7440-47-3	ug/L	100	0.5	U	**0.216**	J	**0.289**	J	**0.654**	--	**0.422**	J	**0.179**	J	**0.414**	J	0.5	U	**0.603**	J	**1.42**	J	**108.9**	J	**1.105**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.23	U	**2.764**	--	0.5	U	**0.87**	J	0.5	U	**2.293**	--	0.5	U	0.5	U	**0.686**	--	1	U	**0.606**	--	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**0.135**	J	**4.27**	--	**0.358**	J	**1.335**	--	**0.128**	J	**2.326**	--	0.5	U	0.5	U	**0.895**	--	**0.14**	J	**0.84**	--	**0.226**	J
Copper (Dissolved)	7440-50-8	ug/L	--	**1.3**	J	1.137	U	**0.53**	J	**1.01**	J	**0.81**	J	0.747	U	**0.46**	J	2.8	U	**1.277**	--	**1.932**	J	**8.545**	--	0.903	U
Copper (Total)	7440-50-8	ug/L	1300	0.5	U	0.5	U	0.63	U	1.3	U	**1.712**	--	0.65	U	**133.3**	--	1	U	**2.725**	--	**0.72**	J	**9.88**	--	0.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	**750**	--	**16900**	--	**372**	--	**32400**	--	50	U	**8480**	--	50	U	50	U	**488**	--	100	U	**95.5**	--	**32.6**	J
Iron (Total)	7439-89-6	ug/L	--	**3640**	--	**19700**	--	**968**	--	**110000**	--	**490**	--	**9540**	--	**152**	--	**38.2**	J	**1030**	--	**118**	J	50	U	**316**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.06	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	**0.212**	J	0.5	U
Lead (Total)	7439-92-1	ug/L	15	0.5	U	0.5	UJ	**0.283**	J	0.5	U	**0.617**	--	0.5	U	**1.157**	--	0.5	U	**1.166**	J	**0.2**	J	**0.22**	J	**0.407**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**2598**	--	**1360**	--	**1103**	--	**5866**	--	**107.4**	--	**9600**	J	**5.86**	--	**29.17**	--	**584**	--	**2.042**	--	**0.159**	J	**1.684**	--
Manganese (Total)	7439-96-5	ug/L	500	**2952**	--	**1491**	--	**1171**	--	**5854**	--	**132.6**	--	**8200**	J	**397.3**	--	**110.8**	--	**548.5**	--	**16.38**	--	**1.69**	--	**12.13**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**1.3**	J	**2.075**	--	**1.7**	J	**1.16**	J	**1.3**	J	**0.752**	J	**0.32**	J	--	R	**2.135**	--	1	U	**4.868**	--	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	**0.475**	J	**5.598**	--	**0.811**	--	**0.947**	--	**0.329**	J	**0.68**	J	**1.583**	--	--	R	**2.548**	--	0.5	U	**6.55**	--	**0.405**	J
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.4	U	0.4	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**0.24**	J	**0.269**	J	**0.65**	--	**0.36**	J	**1.07**	--	0.5	U	**0.91**	--	**1.691**	--	**0.502**	--	**4.044**	--	**8.645**	--	**6.571**	--
Vanadium (Total)	7440-62-2	ug/L	50	**0.194**	J	**0.648**	--	**1.144**	--	**1.79**	--	**5.385**	--	0.5	U	**2.201**	--	**2.296**	--	**1.408**	--	**4.33**	J	**13.15**	--	**8.789**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	17	U	**17.51**	--	18	U	19.78	U	19	U	9.344	U	8.4	U	24	U	**20.9**	--	**21.32**	J	**18.78**	--	**16.53**	--
Zinc (Total)	7440-66-6	ug/L	5000	15	U	**18.3**	J	18	U	20	U	42	U	21	U	20.33	U	21	U	**36.64**	J	**18.16**	J	**22.75**	J	**24.46**	J

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)
Bold = Analyte detected above the laboratory reporting limit
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SOB = Shallow Overburden
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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-1002R		MW-1003DR		MW-1003R		MW-121A		MW-121B		MW-121C		MW-121M		MW-124C		MW-125C		MW-126B		MW-126C		MW-127B	
			Sample Date	6/11/2014 15:10		6/11/2014 13:15		6/10/2014 11:55		6/11/2014 12:55		6/11/2014 15:40		6/11/2014 14:45		6/13/2014 10:05		6/12/2014 10:35		6/11/2014 14:00		6/10/2014 15:50		6/10/2014 15:25		6/11/2014 0:00	
			Field Sample ID	MW-1002R-06112014		MW-1003DR-HS-06112014		MW-1003R-06102014		MW-121A-HS-06112014		MW-121B-HS-06112014		MW-121C-HS-06112014		MW-121M-06132014		MW-124C-06122014		MW-125C-HS-06112014		MW-126B-06102014		MW-126C-HS-06102014		DUP-GW-06112014-#2	
			Well Group	R		R		R		C		R		R		R		R		C		M		B		C	
			HydroStratZone(s)	SBR		DBR		SBR		SBR		DOB		SBR		MOB		SBR		SBR		MOB		SBR		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**4.39**	J	**173**	--	**16.1**	--	**2.81**	J	**7.5**	J	10	U	10	U	**6.45**	J	**3.23**	J	10	U	10	U	**2.43**	J
Aluminum (Total)	7429-90-5	ug/L	--	**10.1**	J	**355**	J	**27**	J	**15**	J	**182**	J	**646**	J	16	U	**170**	J	**25.8**	J	3.73	UJ	**34**	J	**5.65**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	**1.972**	J	2	U	2	U	2	U	2	U	2	U	2	U	**1.359**	J	2	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	2	U	**3.419**	--	1	U	1.116	U	2	U	2	U	2	U	2	U	2	U	1	U	2	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**1.64**	--	**0.465**	J	**1.444**	--	**0.231**	J	**2.48**	--	0.5	U	**4.065**	J	**0.417**	J	**1.503**	--	0.5	U	**0.167**	J	1.554	U
Arsenic (Total)	7440-38-2	ug/L	10	**1.686**	--	**0.704**	--	**2.05**	--	**0.885**	--	**2.914**	--	**2.483**	--	**4.4**	J	**0.592**	--	**1.613**	--	0.5	U	**0.197**	J	0.5	U
Barium (Dissolved)	7440-39-3	ug/L	--	**16.42**	--	**182.6**	--	**20.71**	--	**36.43**	--	**757.6**	--	0.5	U	**142.9**	--	**52.63**	--	**1085**	--	**562**	--	**398.2**	--	**9.231**	--
Barium (Total)	7440-39-3	ug/L	1000	**16.1**	--	**180.3**	--	**24.79**	--	**53.22**	--	**900.6**	--	**689**	--	**150.2**	--	**55.27**	--	**1185**	--	**536.2**	--	**377**	--	**194.4**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.5	U	**0.055**	J	0.2	U	**0.114**	J	0.5	U	**0.093**	J	0.5	U	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.17**	J	**18.35**	--	**21**	J	0.5	U	0.5	U	0.5	U	0.5	U	**0.166**	J	0.5	U	**0.618**	--	0.5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**0.546**	J	**27.56**	J	**18.16**		**0.19**	J	**0.387**	J	**1.356**	J	**0.164**	J	**0.45**	J	0.5	UJ	0.57	U	**0.371**	J	**0.223**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	**0.67**	--	0.5	U	0.5	U	**0.263**	J	0.5	U	**0.583**	--	0.5	U	0.5	U	**0.158**	J	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	0.5	U	**0.858**	--	**0.37**	J	0.5	U	**0.324**	J	**0.98**	--	**0.743**	--	**0.177**	J	0.5	U	**0.26**	J	0.5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	0.5	U	**6.371**	--	--	R	0.5	U	**1.185**	J	0.5	U	**0.441**	J	0.5	UJ	**1.053**	--	1.3	U	1.7	U	**0.622**	--
Copper (Total)	7440-50-8	ug/L	1300	0.5	U	**6.049**	--	--	R	0.5	U	0.687	UJ	**3.235**	--	0.68	U	**0.801**	--	**61.32**	--	0.73	U	0.5	U	0.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	**129**	--	**42**	J	**43**	J	**68.8**	--	**1810**	--	50	U	**1640**	--	**36.3**	J	**716**	--	**16.6**	J	50	U	132	U
Iron (Total)	7439-89-6	ug/L	--	**125**	J	**194**	--	**56.7**	--	**661**	--	**3340**	--	**3740**	--	**1850**	--	**237**	--	**923**	--	50	U	**32.4**	J	50	UJ
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	**0.268**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	0.5	UJ	**0.614**	J	**0.08**	J	**0.183**	J	**0.346**	J	**1.152**	J	0.5	U	**0.185**	J	**0.171**	J	0.5	U	0.5	U	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**29.85**	--	0.5	U	**11**	J	**234**	--	**2464**	--	0.5	U	**3926**	--	**17.74**	--	**374.8**	--	**1190**	--	0.51	U	--	R
Manganese (Total)	7439-96-5	ug/L	500	**29.31**	--	**3.646**	--	**6.47**		**642.9**	--	**2768**	--	**2269**	--	**4452**	--	**26.26**	--	**407.6**	--	**1138**	--	**2.27**	--	**0.421**	J
Nickel (Dissolved)	7440-02-0	ug/L	--	0.5	U	**1.391**	--	0.5	U	**0.497**	J	**0.542**	--	0.5	U	**0.472**	J	0.5	U	**0.524**	--	**3.272**	--	0.5	U	**0.17**	J
Nickel (Total)	7440-02-0	ug/L	100	**0.187**	J	**1.47**	--	**2.2**	J	0.5	U	**0.628**	J	**2.819**	--	**0.39**	J	**0.302**	J	**0.249**	J	**4.2**	J	0.5	U	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.4	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**2.865**	--	**15.67**	--	**10.58**	--	0.5	U	0.5	U	0.5	U	0.5	U	**2.779**	--	**0.189**	J	**0.477**	J	**0.822**	--	**1.663**	J
Vanadium (Total)	7440-62-2	ug/L	50	**4.222**	--	**16.27**	--	**12.95**	--	0.5	U	**0.753**	--	**2.029**	--	**0.137**	J	**3.72**	--	**0.289**	J	**0.46**	J	**0.777**	--	**1.063**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**12.08**	--	**15.67**	--	22	U	**9.623**	--	**20.78**	J	5	U	7.086	U	16	U	**24.6**	--	14	U	13	U	**17.86**	--
Zinc (Total)	7440-66-6	ug/L	5000	**16.83**	J	**26.31**	J	27	U	**20.38**	J	**17.62**	J	**26.83**	J	18	U	14	U	**18.64**	J	11	U	15	U	**19.57**	J

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-127B		MW-127C		MW-128		MW-128		MW-204A		MW-204B		MW-205B		MW-209A		MW-209B		MW-413		MW-415		MW-416	
Sample Date				6/11/2014 10:30		6/11/2014 9:15		6/11/2014 0:00		6/11/2014 9:45		6/9/2014 13:20		6/9/2014 12:55		6/12/2014 9:25		6/10/2014 8:50		6/9/2014 11:20		6/11/2014 10:45		6/11/2014 9:55		6/12/2014 13:20	
Field Sample ID				MW-127B-06112014		MW-127C-06112014		DUP-GW-06112014-#1		MW-128-06112014		MW-204A-06092014		MW-204B-06092014		MW-205B-06122014		MW-209A-06102014		MW-209B-06092014		MW-413-HS-06112014		MW-415-HS-06112014		MW-416-HS-06122014	
Well Group				C		R		C		C		C		C		C		B		B		N		N		N	
HydroStratZone(s)				MOB		SBR		SBR		SBR		SBR		DOB		MOB		SBR		DOB		DOB		MOB		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	10	U	**27.6**	--	10	U	10	U	10	U	12	U	**2.12**	J	10	U	**99.2**	--	**3.15**	J	**5.5**	J	**6.53**	J
Aluminum (Total)	7429-90-5	ug/L	--	**6.36**	J	**321**	J	**25**	--	**22**	--	**49**	J	5.36	UJ	4.27	UJ	**160**	J	**300**	J	**10.3**	J	**41**	J	**37.8**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	--	R	2	U	2	U	2	U	2	U	1	U	2	U	2	U	**1.698**	J	**1.956**	J	1	U
Antimony (Total)	7440-36-0	ug/L	6	**0.35**	J	**0.17**	J	2	U	2	U	2	U	2.1	U	2	U	2	U	2	U	**1.2**	J	**2.85**	--	**6.904**	--
Arsenic (Dissolved)	7440-38-2	ug/L	--	0.5	U	**0.493**	J	0.5	U	**1.669**	--	**0.414**	J	**0.339**	J	0.5	U	**0.227**	J	0.5	U	**5.115**	--	**2.779**	--	1.2	U
Arsenic (Total)	7440-38-2	ug/L	10	0.5	U	0.5	U	**1.83**	--	**1.66**	--	**0.393**	J	**0.272**	J	**0.444**	J	**0.431**	J	0.5	U	**5.56**	--	**9.65**	--	**1.922**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**193.5**	--	**69**	--	**197.5**	--	**9.744**	--	**148.2**	--	**293.7**	--	**298.4**	--	**227.9**	--	**133.2**	--	**675**	--	**90.4**	--	**44.49**	--
Barium (Total)	7440-39-3	ug/L	1000	**186.6**	--	**76.94**	--	**10.7**	--	**10.04**	--	**150.2**	--	**280.6**	--	**331.1**	--	**236.9**	--	**142.8**	--	**735.5**	--	**102.5**	--	**60.64**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	**0.06**	J	1	U	1	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.06**	J	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.071**	J	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.2	U	0.2	U	0.4	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.06**	J	**0.32**	--	**0.369**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.208**	J	**0.32**	J	**0.529**	--	0.5	U	**0.749**	--	0.55	U	**0.73**	J	0.5	U	0.53	U	**1.739**	--	**1.567**	--	**0.39**	J
Chromium (Total)	7440-47-3	ug/L	100	**0.34**	J	**0.93**	J	**0.43**	J	**0.43**	J	0.802	U	0.5	U	**0.583**	--	**0.796**	--	0.638	U	**2.09**	J	**2.98**	J	**0.222**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.139**	J	**0.874**	--	**2.56**	--	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	0.5	U	**0.48**	J	**0.61**	J	**0.55**	J	0.5	U	0.5	U	0.5	U	0.5	U	**0.17**	J	**1.01**	--	**3.62**	--	**0.366**	J
Copper (Dissolved)	7440-50-8	ug/L	--	**1.31**	--	--	R	**0.563**	--	0.5	U	0.5	U	0.5	U	0.69	UJ	1.5	U	2.4	U	**1.005**	--	**1.404**	--	**3.3**	J
Copper (Total)	7440-50-8	ug/L	1300	**0.33**	J	**2.2**	J	**1.5**	J	**1.58**	J	1	U	1.1	U	0.6	U	1.3	U	0.94	U	**1.17**	--	**3.38**	--	**2.091**	--
Iron (Dissolved)	7439-89-6	ug/L	--	50	U	**27.4**	J	19.1	U	--	R	50	U	**13.7**	J	50	U	50	U	**204**	--	**39800**	--	**1920**	--	50	U
Iron (Total)	7439-89-6	ug/L	--	50	U	**219**	J	100	U	100	U	**85.1**	--	**13.7**	J	**21.9**	J	**154**	--	**261**	--	**42100**	--	**7280**	--	**405**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.504**	--	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	0.5	U	**1.69**	J	**0.29**	J	**0.16**	J	**0.272**	J	0.5	U	0.5	U	**0.356**	J	**0.598**	--	**0.11**	J	**0.37**	J	**0.287**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**0.382**	J	**1.961**	--	**0.236**	J	**133.4**	--	**8.131**	--	**6**	J	**0.45**	J	**5.175**	--	**19**	J	**8360**	--	**1273**	--	**37.48**	--
Manganese (Total)	7439-96-5	ug/L	500	0.3	U	**20.49**	--	**152.7**	--	**147**	--	**12.79**	--	**2.7**	J	**0.561**	--	**12.17**	--	**16.69**		**9408**	--	**1543**	--	**285.9**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	0.285	U	**0.163**	J	0.5	U	0.5	U	2.4	U	0.5	U	0.5	U	0.72	U	0.74	U	**0.993**	--	**8.258**	--	**1**	J
Nickel (Total)	7440-02-0	ug/L	100	0.5	U	0.5	U	**3.45**	--	**3.33**	--	0.5	UJ	**0.12**	J	0.5	U	**0.42**	J	**0.7**	J	**1.43**	--	**8.79**	--	**0.35**	J
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.4	U	0.4	U	0.8	U	0.8	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.4	U	**0.12**	J	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	1	U	1	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.06**	J	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**0.965**	--	**3.09**	--	**1.118**	--	**1.796**	--	**5.437**	--	**4.246**	--	**3.77**	--	**0.756**	--	**0.553**	--	**0.788**	--	**0.304**	J	**11.09**	--
Vanadium (Total)	7440-62-2	ug/L	50	**0.98**	J	**3.38**	J	**2.05**	J	**1.97**	J	**5.065**	--	**4.139**	--	**4.455**	--	**1.297**	--	**0.83**	--	**1.35**	J	**4.71**	J	**18.68**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**22.2**	--	**29.34**	--	**5.113**	--	**15.95**	--	29	U	82	U	15	U	24	U	23	U	**32.61**	J	**47.67**	--	27	U
Zinc (Total)	7440-66-6	ug/L	5000	**25.96**	J	**35.07**	J	**22.04**	--	**22.06**	--	33	U	30	U	21	U	25	U	20	U	**22.4**	J	**44.23**	J	17.92	U

Notes:

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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
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DBR = Deep Bedrock

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-501A		MW-501B		MW-501C		MW-502		MW-701DR		MW-703D		MW-703DR		MW-703S		MW-704D		MW-704D		MW-704DR		MW-704M	
			Sample Date	6/11/2014 16:00		6/11/2014 16:15		6/11/2014 13:25		6/11/2014 9:15		6/9/2014 16:10		6/9/2014 15:25		6/10/2014 9:35		6/10/2014 10:01		6/12/2014 0:00		6/12/2014 8:50		6/13/2014 9:40		6/12/2014 10:15	
			Field Sample ID	MW-501A-06112014		MW-501B-06112014		MW-501C-06112014		MW-502-HS-06112014		MW-701DR-06092014		MW-703D-06092014		MW-703DR-06102014		MW-703S-06102014		DUP-GW-06122014-#6		MW-704D-06122014		MW-704DR-06132014		MW-704M-06122014	
			Well Group	C		C		C		R		M		C		C		C		R		R		R		R	
			HydroStratZone(s)	SBR		MOB		SOB		DOB		DBR		DOB		DBR		SOB		DOB		DOB		DBR		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**4.98**	J	**14.4**	--	**3.08**	J	**2.24**	J	**106**	--	10	U	10	U	10	U	**5.1**	J	**3.76**	J	10	U	**6.04**	J
Aluminum (Total)	7429-90-5	ug/L	--	**95.3**	J	**3070**	J	**7.78**	J	**7740**	J	**180**	J	**460**	J	**57**	J	**84**	J	**9.43**	J	**11.8**	--	17.4	U	**3.57**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	**3.008**	--	2	U
Antimony (Total)	7440-36-0	ug/L	6	2	U	2	U	2	U	**0.15**	J	2	U	2	U	2	U	2	U	0.263	U	2	U	**19.19**	--	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**2.231**	--	**0.375**	J	**0.313**	J	**1.669**	--	**1.1**	J	**0.165**	J	**0.183**	J	**0.379**	J	**0.8**	--	**0.882**	--	0.5	U	**1.017**	--
Arsenic (Total)	7440-38-2	ug/L	10	**2.221**	--	**1.143**	--	**0.466**	J	**4.01**	--	**0.973**		**0.359**	J	**0.29**	J	**0.469**	J	**0.991**	--	**0.971**	--	**0.595**	J	**1.225**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**162.3**	--	**305.8**	--	**37.06**	--	**1422**	--	**118.1**	--	**205.4**	--	**7.293**	--	**229.4**	--	**481.6**	--	**480.9**	--	**110**	J	**433.5**	--
Barium (Total)	7440-39-3	ug/L	1000	**163.8**	--	**393.1**	--	**38.42**	--	**1621**	--	**115.2**	--	**246.5**	--	**7.598**	--	**225.8**	--	**505**	--	**491.7**	--	**112.2**	--	**433**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	**0.189**	J	0.5	U	**0.46**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.5	U	0.5	U	0.5	U	**0.11**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.051**	J	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.945**	--	**0.772**	--	**0.245**	J	0.5	U	**0.864**	--	0.5	U	0.5	U	**0.828**	--	**0.208**	J	**0.154**	J	0.5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**1.25**	J	**4.916**	J	**0.283**	J	**11.86**	J	0.899	U	1.022	U	0.5	U	**0.951**	--	**0.164**	J	0.5	U	**0.257**	J	**0.152**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	0.5	U	**0.223**	J	**1.071**	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.136**	J	**0.17**	J	**0.168**	J	**0.306**	J
Cobalt (Total)	7440-48-4	ug/L	10	0.5	U	**2.279**	--	**0.198**	J	**6.72**	--	0.5	U	**0.274**	J	0.5	U	0.5	U	**0.237**	J	**0.213**	J	**0.234**	J	**0.313**	J
Copper (Dissolved)	7440-50-8	ug/L	--	0.967	U	**1.256**	--	0.777	U	**1.017**	--	0.76	U	1.5	U	0.65	U	1.5	U	**0.404**	J	0.5	U	**0.86**	--	**0.482**	J
Copper (Total)	7440-50-8	ug/L	1300	0.5	U	**4.206**	--	0.5	U	**11.8**	--	1	U	1.4	U	0.5	U	0.67	U	**0.407**	J	**0.297**	J	1.215	U	**0.256**	J
Iron (Dissolved)	7439-89-6	ug/L	--	50	U	**16.7**	J	**18600**	--	**11500**	--	**67.5**	--	50	U	**22.9**	J	50	U	**404**	--	**416**	--	**159**	--	**313**	--
Iron (Total)	7439-89-6	ug/L	--	**107**	J	**3540**	J	**20600**	J	**23100**	--	**120**	--	**380**	--	**137**	--	**101**	--	**488**	--	**492**	--	**311**	--	**341**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.247**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	0.5	UJ	**1.636**	J	0.5	UJ	**5.35**	J	**0.313**	J	**0.379**	J	**0.283**	J	0.5	U	0.5	U	0.5	U	**0.279**	J	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**0.274**	J	**1.162**	--	**1325**	--	**2085**	--	**6**	J	0.61	U	**17.73**	--	0.5	U	**2087**	--	**2117**	--	**1059**	--	**1815**	--
Manganese (Total)	7439-96-5	ug/L	500	**3.571**	--	**122.3**	--	**1446**	--	**2622**	--	**5.435**	J	**11.28**	--	**19.73**	--	**5.264**	--	**2223**	--	**2145**	--	**1072**	--	**1755**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	0.5	U	**0.286**	J	**0.425**	J	**1.096**	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.5**	J	**0.233**	J	**0.838**	--	0.55	U
Nickel (Total)	7440-02-0	ug/L	100	0.5	U	**4.491**	--	**0.135**	J	**13.07**	--	0.5	UJ	**0.53**	J	0.5	UJ	0.5	UJ	**0.262**	J	**0.293**	J	**1.118**	--	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.5	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	**0.065**	J	0.5	U	**0.14**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**18.9**	--	**5.889**	--	**0.216**	J	0.5	U	**8.664**	--	**1.174**	--	0.5	U	**3.863**	--	**0.204**	J	**0.211**	J	**0.168**	J	0.5	U
Vanadium (Total)	7440-62-2	ug/L	50	**18.58**	--	**13.97**	--	**0.349**	J	**21.74**	--	**7.837**	--	**2.255**	--	**0.288**	J	**3.624**	--	**0.223**	J	**0.224**	J	**0.57**	--	0.5	U
Zinc (Dissolved)	7440-66-6	ug/L	--	**19.17**	--	**19.82**	--	**16.6**	--	**34.28**	--	26	U	19	U	16	U	17	U	17	U	18	U	16	U	19	U
Zinc (Total)	7440-66-6	ug/L	5000	**22.12**	J	**38.21**	J	**18.78**	J	**71.66**	J	23	U	19	U	25	U	18	U	13.77	U	16	U	17.52	U	22	U

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-704R		MW-704S		MW-705D		MW-705DR		MW-705R		MW-706DR		MW-707D		MW-707DR		MW-707M		MW-707R		MW-707S		MW-709DR	
			Sample Date	6/11/2014 9:50		6/11/2014 10:25		6/9/2014 18:15		6/13/2014 9:45		6/11/2014 14:25		6/12/2014 8:30		6/10/2014 9:30		6/11/2014 11:10		6/11/2014 15:55		6/10/2014 9:05		6/11/2014 16:11		6/11/2014 8:40	
			Field Sample ID	MW-704R-HS-06112014		MW-704S-HS-06112014		MW-705D-06092014		MW-705DR-HS-06132014		MW-705R-HS-06112014		MW-706DR-HS-06122014		MW-707D-06102014		MW-707DR-06112014		MW-707M-06112014		MW-707R-06102014		MW-707S-06112014		MW-709DR-HS-06112014	
			Well Group	C		C		C		R		C		R		C		R		C		C		C		C	
			HydroStratZone(s)	SBR		SOB		DOB		DBR		SBR		DBR		DOB		DBR		MOB		SBR		SOB		DBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**554**	--	**16.3**	--	10	U	**143**	--	**16.4**	--	**142**	--	10	U	**17.4**	--	**2.78**	J	10	U	**2.67**	J	**14.7**	--
Aluminum (Total)	7429-90-5	ug/L	--	**1940**	J	**445**	J	**18000**	J	**387**	--	**466**	J	**400**	J	**85**	J	**397**	J	**50.8**	J	**54**	J	**221**	J	**138**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	**10.86**	--	2	U	2	U	2	U	2	U	1	U	2	U	2	U	2	U	2	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	**11.25**	--	1	U	2	U	2	U	2	U	2	U	2	U	**0.21**	J	2	U	2	U	2	U	**1.47**	--
Arsenic (Dissolved)	7440-38-2	ug/L	--	**3.491**	--	0.5	U	0.5	U	**1.3**	J	**1.146**	--	**0.68**	--	**0.21**	J	1.198	U	**0.35**	J	**0.355**	J	**0.353**	J	**1.181**	--
Arsenic (Total)	7440-38-2	ug/L	10	**4.71**	--	0.5	U	**3.844**	--	**1.6**	J	**1.37**	--	**0.79**	--	**0.325**	J	0.5	U	**0.555**	--	**0.46**	J	**1.137**	--	**2.25**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**159.9**	--	**10.35**	--	**178.6**	--	**20.27**	--	**91.69**	--	**27.32**	--	**268.4**	--	**20.86**	--	--	R	**187.9**	--	**281**	J	**37.63**	--
Barium (Total)	7440-39-3	ug/L	1000	**196.2**	--	**17.07**	--	**565**	--	**22.22**	--	**104.1**	--	**25.64**	--	**256.3**	--	**27.05**	--	**301.1**	--	**201.9**	--	**48.79**	--	**44.54**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.131**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**0.13**	J	0.5	U	**1.356**	--	0.5	U	**0.25**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.2	U	0.2	U	**0.174**	J	**0.123**	J	0.5	U	**0.4**	J	0.5	U	0.2	U	0.5	U	0.5	U	0.5	U	0.2	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.219**	J	**0.23**	J	0.5	U	**0.968**	--	**0.32**	J	**0.66**	--	0.5	U	**0.444**	J	**0.541**	--	0.74	U	**0.52**	--	**0.173**	J
Chromium (Total)	7440-47-3	ug/L	100	**2.19**	J	**0.84**	J	**23.14**	--	**5.105**	--	**0.664**	J	**1.506**	--	0.607	U	**1.28**	J	**0.591**	J	**0.889**	--	**1.168**	J	**0.56**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	**0.112**	J	0.5	U	0.5	U	**0.286**	J	0.5	U	**0.37**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**0.91**	--	**0.56**	--	**11.69**	--	**0.734**	--	**0.389**	J	**0.347**	J	0.5	U	**0.35**	J	0.5	U	0.5	U	**0.203**	J	**0.47**	J
Copper (Dissolved)	7440-50-8	ug/L	--	**1.286**	--	**1.907**	--	1.4	U	**3.996**	--	**1.453**	J	**4.3**	J	0.5	U	0.5	U	0.869	U	1.6	U	0.5	U	**0.833**	--
Copper (Total)	7440-50-8	ug/L	1300	**3.62**	--	**1.85**	--	**24.63**	--	**7.396**	--	0.517	UJ	**2.102**	--	0.2	U	**2**	J	0.5	U	0.5	U	0.5	U	**2.54**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**75.3**	--	50	U	50	U	**72.1**	--	**253**	--	**283**	--	50	U	**51**	--	50	U	**13.9**	J	50	U	**1100**	--
Iron (Total)	7439-89-6	ug/L	--	**1060**	--	**623**	--	**16600**	--	**428**	--	**592**	--	**677**	--	**87.9**	--	**293**	J	**55.6**	J	**55.6**	--	**307**	J	**2810**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	**0.285**	J	0.5	U	**0.73**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**1.26**	J	**0.43**	J	**10.74**	--	**0.84**	--	**0.392**	J	**1.753**	--	0.5	U	**0.45**	J	0.5	UJ	0.5	U	**0.411**	J	**0.68**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**2.475**	--	**1.93**	--	**163.5**	--	**8.175**	--	**223.3**	--	**61.26**	--	0.55	U	**57.77**	--	**0.263**	J	0.72	U	**0.235**	J	**227.2**	--
Manganese (Total)	7439-96-5	ug/L	500	**33.79**	--	**69.61**	--	**984**	--	**19.48**	--	**251.3**	--	**102.1**	--	**5.861**	--	**69.15**	--	**6.303**	--	**5.042**	--	**12.29**	--	**210.4**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**3.347**	--	**0.463**	J	0.61	U	**2.702**	--	**0.125**	J	**2.5**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	**5.55**	--	**1.31**	--	**24**	J	**4.438**	--	**0.471**	J	**1.4**	J	0.5	UJ	**1.65**	--	0.5	U	**0.085**	J	**0.282**	J	**2.89**	--
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.4	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.4	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**2.797**	--	**0.245**	J	**0.809**	--	**14.7**	--	**17.63**	--	**8.23**	--	**3.763**	--	**6.642**	--	**4.672**	--	**4.811**	--	**4.954**	--	**0.975**	--
Vanadium (Total)	7440-62-2	ug/L	50	**6.03**	--	**1.56**	J	**40.23**	--	**15.66**	--	**33.25**	--	**13.33**	--	**3.571**	--	**8.09**	--	**5.185**	--	**4.636**	--	**8.993**	--	**6.95**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**13.41**	--	**15.21**	--	15	U	74	U	**15.4**	--	23	U	20	U	**15.66**	--	**17.72**	--	14	U	**16.29**	--	**21.06**	--
Zinc (Total)	7440-66-6	ug/L	5000	**41.66**	J	**33.26**	J	78	U	**210.7**	--	**27.14**	J	26	U	20	U	**33.31**	J	**19.64**	J	18	U	**25.63**	J	32.94	UJ

Notes:

U = Analyte not detected above the laboratory reporting limit
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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

				Sample Location		MW-709R		MW-710DR		MW-710R		MW-901R		MW-902D		MW-902M		MW-903D		MW-903M		MW-903R		MW-903S		MW-904D		MW-904S	
				Sample Date		6/11/2014 8:15		6/12/2014 11:20		6/12/2014 9:55		6/10/2014 15:20		6/12/2014 13:45		6/12/2014 14:20		6/11/2014 12:45		6/10/2014 15:35		6/10/2014 15:15		6/13/2014 10:10		6/11/2014 13:20		6/12/2014 15:30	
				Field Sample ID		MW-709R-HS-06112014		MW-710DR-06122014		MW-710R-06122014		MW-901R-06102014		MW-902D-HS-06122014		MW-902M-HS-06122014		MW-903D-06112014		MW-903M-HS-06102014		MW-903R-HS-06102014		MW-903S-06132014		MW-904D-06112014		MW-904S-06122014	
				Well Group		C		C		C		M		N		N		C		C		C		C		C		C	
				HydroStratZone(s)		SBR		DBR		SBR		SBR		DOB		MOB		DOB		MOB		SBR		SOB		DOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																										
Metals (6020)																													
Aluminum (Dissolved)	7429-90-5	ug/L	--	**31.4**	--	**3.39**	J	**3.69**	J	**19.1**	--	**4.37**	J	**2.54**	J	**10**	--	**26**	--	**166**	--	**7.29**	J	**8.13**	J	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**92.8**	J	**120**	J	**140**	J	**500**	J	**95**	J	**38.9**	J	**95.8**	J	**330**	J	**730**	J	10	U	**268**	J	14.4	UJ
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	2	U	2	U	2	U	1	U	2	U	2	U	2	U	2	U	**1.006**	J	2	U	1	U
Antimony (Total)	7440-36-0	ug/L	6	1	U	2	U	2	U	2	U	2	U	4	U	2	U	1	U	1.117	U	2	U	2	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**1.64**	--	**0.459**	J	**0.742**	--	**0.213**	J	**3.58**	--	**3.039**	--	**0.48**	J	**2.184**	--	**1.284**	--	**2.4**	J	**0.397**	J	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	**1.9**	--	**0.627**	--	**1.026**	--	**0.507**	--	**4.277**	--	**3.566**	--	**0.585**	--	**2.37**	--	**1.835**	--	**2.3**	J	**0.592**	--	**0.789**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**28.13**	--	**44.17**	--	**199**	--	**258.3**	--	**528.8**	--	**1051**	--	**315.7**	--	**174.3**	--	**42.32**	--	**782.5**	--	**253**	--	**293.7**	--
Barium (Total)	7440-39-3	ug/L	1000	**37.48**	--	**46.51**	--	**203.2**	--	**267.1**	--	**993.5**	--	**1142**	--	**341.2**	--	**181.2**	--	**47.85**	--	**782**	--	**277.3**	--	**329.6**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	**0.133**	J	0.5	U	1	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	**0.184**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.2	U	0.5	U	**0.357**	J	0.5	U	0.5	U	1	U	0.5	U	0.2	U	0.5	U	0.5	U	0.5	U	**0.238**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.274**	J	0.5	U	**0.375**	J	0.5	U	**2.1**	--	**0.501**	--	**0.802**	--	**0.848**	--	**84.8**	--	**0.361**	J	**0.673**	--	**0.76**	--
Chromium (Total)	7440-47-3	ug/L	100	**0.64**	J	**0.436**	J	**1.537**	--	**1.034**	--	**2.456**	--	**0.636**	J	**0.986**	J	**1.59**	--	**86.93**	--	**0.365**	J	**1.374**	J	**0.885**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	**0.493**	J	0.5	U	0.5	U	**2.98**	--	**3.613**	--	0.5	U	0.5	U	0.5	U	**1.3**	J	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**0.13**	J	**0.761**	--	**0.176**	J	**0.245**	J	**9.127**	--	**3.7**	--	0.5	U	**0.29**	J	**0.282**	J	**1**	J	**0.218**	J	**0.291**	J
Copper (Dissolved)	7440-50-8	ug/L	--	**1.383**	--	**0.129**	J	**1**	J	1.2	U	**0.6**	J	1	UJ	3.886	U	1.338	U	2.7	U	1.5	U	**1.177**	--	**0.29**	J
Copper (Total)	7440-50-8	ug/L	1300	**2.14**	--	**1.671**	--	**2.396**	--	0.76	U	**1.729**	--	1	U	0.5	U	**2.45**	--	**3.049**	--	0.5	U	1.242	U	1.268	U
Iron (Dissolved)	7439-89-6	ug/L	--	**44.3**	J	**80**	--	50	U	**19.9**	J	**27100**	--	**28600**	--	**16.8**	J	**30.4**	J	**51.6**	--	**56000**	--	50	U	**30700**	--
Iron (Total)	7439-89-6	ug/L	--	**160**	--	**234**	--	**213**	--	**385**	--	**42700**	--	**30200**	--	**113**	J	**328**	--	**407**	--	**56000**	--	**353**	J	**54600**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.06	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**0.41**	J	**0.563**	--	**0.77**	--	**0.579**	--	**0.369**	J	1	U	0.5	UJ	**0.65**	--	**0.564**	--	0.5	U	**0.371**	J	**0.262**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**20.37**	--	**170.1**	--	**5.566**	--	**2.875**	--	**4350**	--	**5885**	--	**0.816**	--	**5.997**	--	0.73	U	**8840**	--	**0.419**	J	**5112**	--
Manganese (Total)	7439-96-5	ug/L	500	**21.63**	--	**183.6**	--	**35.36**	--	**21.31**	--	**6515**	--	**6164**	--	**8.702**	--	**45.51**	--	**33.29**	--	**9035**	--	**55.33**	--	**5374**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**0.465**	J	**0.489**	J	**0.545**	--	0.64	U	**1.2**	--	**1.7**	J	**8.054**	--	0.5	U	0.69	U	0.76	U	0.5	U	**1.6**	J
Nickel (Total)	7440-02-0	ug/L	100	**0.93**	--	**0.885**	--	**1.971**	--	**0.63**	J	**3.776**	--	**1.294**	--	0.5	U	**1.4**	J	**1.182**	J	**0.42**	J	**0.314**	J	**0.875**	--
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**10.26**	--	**0.16**	J	**3.281**	--	**0.893**	--	**1.28**	--	**0.482**	J	**6.562**	--	**16.81**	--	**39.28**	--	**1.585**	--	**5.663**	--	**0.33**	J
Vanadium (Total)	7440-62-2	ug/L	50	**12.18**	--	**0.489**	J	**4.154**	--	**1.764**	--	**1.733**	--	**0.902**	J	**7.089**	--	**18.12**	--	**40.38**	--	**1.897**	--	**7.42**	--	**2.488**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**22.5**	--	16	U	21	U	23	U	22	U	31	U	**23.45**	J	17.67	U	18	U	15	U	**18.31**	--	8.5	U
Zinc (Total)	7440-66-6	ug/L	5000	**26.84**	J	47	U	31	U	21	U	12	U	10	U	**18.93**	J	24	U	25.24	U	15	U	**23.3**	J	15.59	U

Notes:

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-905M		MW-906D		MW-906M		MW-906R		MW-907D		MW-907DR		MW-907M		MW-908D		MW-909D		MW-910S		MWL-303		MWL-304	
			Sample Date	6/11/2014 14:20		6/10/2014 14:20		6/10/2014 14:40		6/10/2014 13:55		6/10/2014 15:00		6/10/2014 13:15		6/10/2014 14:30		6/11/2014 13:30		6/11/2014 16:10		6/11/2014 13:20		6/10/2014 15:35		6/13/2014 9:00	
			Field Sample ID	MW-905M-06112014		MW-906D-HS-06102014		MW-906M-HS-06102014		MW-906R-HS-06102014		MW-907D-HS-06102014		MW-907DR-HS-06102014		MW-907M-HS-06102014		MW-908D-HS-06112014		MW-909D-HS-06112014		MW-910S-06112014		MWL-303-06102014		MWL-304-HS-06132014	
			Well Group	C		C		C		C		R		R		R		C		C		C		C		N	
			HydroStratZone(s)	MOB		DOB		MOB		SBR		DOB		DBR		MOB		DOB		DOB		SOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**8.67**	J	**49.4**	--	**58.9**	--	**493**	--	10	U	10	U	10.8	U	**3.17**	J	**9.85**	J	**7.96**	J	10	U	**4.9**	J
Aluminum (Total)	7429-90-5	ug/L	--	**451**	J	**290**	J	**400**	J	**620**	J	**140**	J	**140**	J	**2200**	J	**75.2**	J	**229**	J	**113**	J	**160**	J	**162**	--
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	2	U	2	U	2	U	2	U	2	U	2	U	**1.831**	J	**1.48**	J	2	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	2	U	1	U	2	U	1	U	0.651	U	2	U	1	U	1.475	UJ	**10.28**	--	2	U	1	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	0.5	U	**6.838**	--	**0.235**	J	**3.7**	--	**1.035**	--	**0.614**	--	**3.388**	--	**0.857**	--	**0.213**	J	**0.195**	J	**0.296**	J	**7.2**	J
Arsenic (Total)	7440-38-2	ug/L	10	**0.216**	J	**8.31**	--	**0.503**	--	**4.3**	--	**1.425**	--	**0.759**	--	**12.56**	--	**1.236**	--	**0.581**	--	**0.281**	J	0.5	U	**9**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**153.2**	--	**41.65**	--	**202.8**	--	**10.9**	--	**1473**	--	**4.381**	--	**1955**	--	**269.8**	--	**245.1**	--	**200.4**	--	**107**	--	**507.4**	--
Barium (Total)	7440-39-3	ug/L	1000	**170.9**	--	**44.86**	--	**214.5**	--	**12.65**	--	**1695**	--	**5.988**	--	**2178**	--	**337.8**	--	**253.9**	--	**225.5**	--	**100**	--	**764.2**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.16**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	**0.199**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.5	U	**0.31**	--	0.5	U	0.2	U	0.5	U	0.5	U	**0.06**	J	0.5	U	0.5	U	0.5	U	0.2	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.584**	--	**1.981**	--	0.88	U	**0.975**	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.387**	J	**0.362**	J	0.5	U	**0.339**	J
Chromium (Total)	7440-47-3	ug/L	100	**1.348**	J	**3.1**	--	**1.734**	--	**2.69**	--	**0.466**	J	**1.615**	--	**4.71**	--	**0.558**	J	**0.698**	J	**0.739**	J	0.53	U	**0.645**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	0.5	U	**0.115**	J	0.5	U	**0.484**	J	0.5	U	**3.64**	--	**0.209**	J	0.5	U	**0.166**	J	**2.1**	J	**1.069**	--
Cobalt (Total)	7440-48-4	ug/L	10	**0.277**	J	**0.2**	J	**0.551**	--	**0.2**	J	**0.711**	--	0.5	U	**5.81**	--	**0.348**	J	**0.166**	J	**0.266**	J	**1.67**		**1.245**	--
Copper (Dissolved)	7440-50-8	ug/L	--	**1.946**	J	**10.19**	--	2.2	U	**15.07**	--	0.7	U	1.2	U	**1.506**	--	**2.535**	J	**3.24**	J	**1.721**	--	0.5	U	0.5	U
Copper (Total)	7440-50-8	ug/L	1300	0.67	U	**12.27**	--	**1.789**	--	**21.82**	--	**1.232**	--	0.84	U	**5.84**	--	1.533	UJ	1.052	U	**7.703**	--	1.4	U	2.2	U
Iron (Dissolved)	7439-89-6	ug/L	--	50	U	**74.1**	--	**98.2**	--	**30**	J	**5150**	--	**45.3**	J	**9720**	--	**56.6**	--	**13.5**	J	**91.7**	--	**9600**	J	**17400**	--
Iron (Total)	7439-89-6	ug/L	--	**492**	J	**344**	--	**621**	--	**93**	--	**6700**	--	**251**	--	**25800**	--	**2730**	--	**229**	--	**242**	J	**7690**		**20600**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	**0.352**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**0.44**	J	**1.96**	--	**0.451**	J	**0.14**	J	**0.195**	J	**0.226**	J	**2.06**	--	**0.446**	J	**0.286**	J	**0.383**	J	**0.28**	J	**0.484**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**0.741**	--	**10.93**	--	**17.48**	--	**3.973**	--	**2820**	--	**36.61**	--	**3649**	--	**25.66**	--	**5.939**	--	**110.1**	--	**3200**	J	**4638**	--
Manganese (Total)	7439-96-5	ug/L	500	**25.41**	--	**54.2**	--	**92.77**	--	**5.43**	--	**3173**	--	**44.31**	--	**3912**	--	**367.9**	--	**26.25**	--	**138.7**	--	**2300**		**5478**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**0.219**	J	**1.275**	--	0.89	U	**1.393**	--	**1.3**	J	0.82	U	**3.448**	--	**3.735**	--	**0.43**	J	**0.189**	J	**1.293**	--	0.9	U
Nickel (Total)	7440-02-0	ug/L	100	**0.409**	J	**1.9**	J	**0.59**	J	**4.5**	J	**0.894**	J	**0.16**	J	**7.9**	J	**4.55**	--	**0.359**	J	**0.318**	J	**1.6**	J	0.62	U
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.4	U	0.5	U	0.4	U	0.5	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.4	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.048**	J	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**0.765**	--	**1.19**	--	**4.192**	--	**100.2**	--	**0.143**	J	0.5	U	0.5	U	0.5	U	**0.858**	--	**0.815**	--	**0.451**	J	**0.562**	--
Vanadium (Total)	7440-62-2	ug/L	50	**2.12**	--	**2.16**	J	**5.354**	--	**95.14**	--	**0.554**	--	**0.384**	J	**6.99**	--	**0.219**	J	**1.254**	--	**1.309**	--	**1.02**	J	**2.155**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**23.89**	--	5	U	24	U	26	U	26	U	25	U	5	U	**16.3**	--	**34.86**	--	**14.87**	--	19	U	30	U
Zinc (Total)	7440-66-6	ug/L	5000	**26.15**	J	70	U	11	U	14	U	22.23	U	33	U	39	U	**23.11**	J	**33.69**	J	**22.84**	J	20	U	24	U

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MWL-307		MWL-309		MWL-309		MWL-312		MWL-313		P-101A		P-101B		P-101C		P-102A		P-102B		P-102C		P-11A	
			Sample Date	6/12/2014 11:10		6/13/2014 0:00		6/13/2014 10:55		6/10/2014 10:15		6/10/2014 12:10		6/12/2014 8:45		6/12/2014 12:25		6/12/2014 12:25		6/10/2014 13:10		6/12/2014 9:10		6/10/2014 11:40		6/11/2014 8:00	
			Field Sample ID	MWL-307-HS-06122014		DUP-GW-06132014-#1		MWL-309-06132014		MWL-312-06102014		MWL-313-06102014		P-101A-HS-06122014		P-101B-06122014		P-101C-06122014		P-102A-06102014		P-102B-HS-06122014		P-102C-06102014		P-11A-HS-06112014	
			Well Group	N		R		R		C		C		C		R		R		C		C		C		R	
			HydroStratZone(s)	SOB		SOB		SOB		SOB		SOB		SBR		MOB		SOB		SBR		MOB		SOB		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**34.5**	--	10	U	**2.23**	J	**18.5**	--	10	U	**21.4**	--	10	U	**2.41**	J	**46.5**	--	**30**	--	10	U	**3.53**	J
Aluminum (Total)	7429-90-5	ug/L	--	**96**	J	**197**	--	**184**	--	**110**	J	**68**	J	**140**	J	**19**	J	**140**	J	**3000**	J	**310**	J	**35**	J	**33.2**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	**1.2**	--	2	U	2	U	2	U	2	U	1	U	2	U	2	U	2	U	1	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	1	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**4.48**	--	**2.3**	J	**2.8**	J	0.5	U	0.5	U	0.61	U	**2.081**	--	**1.862**	--	**0.379**	J	1	U	0.5	U	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	**12.3**	--	**2.9**	J	**2.9**	J	**0.183**	J	**0.238**	J	**0.982**	--	**2.362**	--	**1.93**	--	**1.482**	--	**1.247**	--	**0.388**	J	**0.62**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**198.8**	--	**400.8**	--	**431.1**	--	**15.44**	--	**130.9**	--	**119**	--	**985.3**	--	**427.9**	--	**59.92**	--	**82.8**	--	**211.5**	--	**457.9**	--
Barium (Total)	7440-39-3	ug/L	1000	**346.6**	--	**447.3**	--	**445.4**	--	**15.78**	--	**137.2**	--	**153.7**	--	**1006**	--	**414.8**	--	**82.92**	--	**112**	--	**214.4**	--	**449.4**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.301**	J	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.84**	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.154**	J	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	**0.109**	J	0.5	U	0.5	U	0.5	U	0.5	U	**1.36**	--	0.5	U	0.5	U	**0.055**	J	**0.213**	J	**0.234**	J	0.2	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**1.66**	--	0.5	U	0.5	U	**0.154**	J	**0.178**	J	**0.93**	J	0.5	U	0.5	U	**0.163**	J	**0.64**	--	**0.239**	J	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**4.221**	--	**0.462**	J	**0.432**	J	0.5	U	0.5	U	**0.734**	--	**0.186**	J	**0.308**	J	**4.647**	--	**0.697**	--	0.5	U	**0.34**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	**6.81**	--	**0.486**	J	**0.473**	J	0.5	U	0.5	U	0.5	U	**1.438**	--	**0.116**	J	0.5	U	0.5	U	**0.466**	J	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**12.33**	--	**0.624**	--	**0.688**	--	0.5	U	0.5	U	**0.121**	J	**1.413**	--	**0.251**	J	**2.201**	--	**0.258**	J	**0.438**	J	**0.14**	J
Copper (Dissolved)	7440-50-8	ug/L	--	**1.55**	J	**1.055**	--	**0.545**	--	1.5	U	1.6	U	**4.9**	J	**0.387**	J	**0.274**	J	1.997	U	**3.3**	J	0.56	U	**0.856**	--
Copper (Total)	7440-50-8	ug/L	1300	**3.874**	--	**29**	J	1.7	U	0.84	U	0.69	U	**5.671**	--	**0.68**	--	**0.851**	--	**5.139**	--	**3.853**	--	1.4	U	**0.88**	J
Iron (Dissolved)	7439-89-6	ug/L	--	**14900**	--	**3820**	--	**4150**	--	**21.7**	J	50	U	**172**	--	**1100**	--	**96.5**	--	**133**	--	15	U	**2040**	--	**670**	--
Iron (Total)	7439-89-6	ug/L	--	**41600**	--	**4520**	--	**4460**	--	**117**	--	**79.9**	--	**614**	--	**1300**	--	**334**	--	**3420**	--	**457**	--	**3070**	--	**1010**	--
Lead (Dissolved)	7439-92-1	ug/L	--	**0.42**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.287**	J	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**0.84**	--	**0.509**	--	**0.532**	--	**0.308**	J	0.5	U	**0.663**	--	0.5	U	**0.234**	J	**3.101**	--	**0.821**	--	**0.44**	J	**0.15**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**3020**	--	**2954**	--	**3094**	--	**11.78**	--	0.54	U	**212.4**	--	**1005**	--	**1172**	--	**242.2**	--	**2.37**	--	**364.4**	--	**1399**	--
Manganese (Total)	7439-96-5	ug/L	500	**5724**	--	**3114**	--	**3144**	--	**19.6**	--	**3.785**	--	**360.7**	--	**1010**	--	**1172**	--	**424.9**	--	**38.58**	--	**351.1**	--	**1720**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**4.7**	--	**1.221**	J	**0.629**	--	0.75	U	0.5	U	**4**	J	**0.506**	--	**0.281**	J	0.5	U	**1.3**	J	0.5	U	**0.749**	--
Nickel (Total)	7440-02-0	ug/L	100	**5.388**	--	**0.958**	J	**1.017**	--	**0.083**	J	**0.11**	J	**2.823**	--	**0.843**	--	**0.462**	J	**4.8**	J	**0.835**	--	**0.51**	J	**1.05**	--
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	**0.505**	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.155**	J	0.5	U	0.5	U	**0.157**	J	0.5	U	0.5	U	0.4	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**1.62**	--	**0.19**	J	**0.211**	J	**0.467**	J	**0.354**	J	**0.46**	J	0.5	U	**0.463**	J	**2.468**	--	**6.66**	--	**0.282**	J	**1.037**	--
Vanadium (Total)	7440-62-2	ug/L	50	**5.684**	--	**1.237**	--	**1.057**	--	**0.681**	--	**0.404**	J	**0.573**	--	0.5	U	**1.306**	--	**17.62**	--	**10.73**	--	**0.484**	J	**1.69**	J
Zinc (Dissolved)	7440-66-6	ug/L	--	43.08	U	19	U	18	U	19	U	19	U	26	U	18.79	U	18.89	U	19.27	U	40	U	15	U	**17.37**	--
Zinc (Total)	7440-66-6	ug/L	5000	31	U	17	U	26	U	21	U	21	U	25	U	18	U	16	U	36	U	30	U	24	U	**21.3**	J

Notes:

U = Analyte not detected above the laboratory reporting limit
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R = Rejected, the reported result is unusable
ug/L = micrograms per liter
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Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	P-11B		P-12		P-13		P-3A		P-3B		P-5B		P-6		PZO-204M		PZO-2D		PZO-2M		PZO-3D		PZO-3M	
			Sample Date	6/11/2014 9:15		6/9/2014 17:00		6/11/2014 14:00		6/11/2014 11:15		6/13/2014 9:45		6/13/2014 8:00		6/11/2014 8:45		6/12/2014 10:30		6/10/2014 13:00		6/12/2014 9:50		6/10/2014 13:05		6/11/2014 13:50	
			Field Sample ID	P-11B-HS-06112014		P-12-06092014		P-13-06112014		P-3A-HS-06112014		P-3B-06132014		P-5B-06132014		P-6-HS-06112014		PZO-204M-HS-06122014		PZO-2D-06102014		PZO-2M-HS-06122014		PZO-3D-06102014		PZO-3M-06112014	
			Well Group	C		M		R		C		C		C		C		C		R		R		C		C	
			HydroStratZone(s)	SOB		SOB		SOB		SBR		SOB		SOB		SBR		MOB		DOB		MOB		DOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**3.52**	J	**16.5**	--	**2.19**	J	**3.28**	J	**6.8**	J	10	U	**49.4**	--	**10.3**	--	14.4	U	**3.58**	J	**16.6**	--	**7.22**	J
Aluminum (Total)	7429-90-5	ug/L	--	**2280**	J	**1300**	J	**176**	J	**61.1**	J	**212**	--	**71.7**	--	**652**	J	**440**	J	**170**	J	**26.8**	J	**3000**	J	**61.4**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	2	U	2	U	2	U	2	U	0.522	U	2	U	2	U	2	U	2	U	2	U	2.6	U
Antimony (Total)	7440-36-0	ug/L	6	**0.34**	J	2	U	2	U	2	U	2	U	2	U	**0.36**	J	2	U	2	U	**1.12**	J	2	U	0.5	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	0.405	U	0.5	U	0.5	U	**0.326**	J	**1.2**	J	**2.114**	J	**1.282**	--	**1.899**	--	**0.448**	J	**0.466**	J	**0.61**	--	**1.837**	--
Arsenic (Total)	7440-38-2	ug/L	10	0.5	U	**0.495**	J	**0.337**	J	**0.605**	--	**1.5**	J	**4.2**	J	**2.58**	--	**2.605**	--	**0.65**	--	**0.503**	--	**1.188**	--	**1.91**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**367.9**	--	**181.1**	--	**125.5**	--	**430.6**	J	**584.6**	--	**288.6**	--	**1562**	--	**409.1**	--	**232.2**	--	**275.9**	--	**194**	--	**298.1**	--
Barium (Total)	7440-39-3	ug/L	1000	**409.8**	--	**216.1**	--	**147.8**	--	**240.3**	--	**606.5**	--	**311**	--	**2280**	--	**499.6**	--	**237.1**	--	**276.9**	--	**288.8**	--	**291.7**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**0.11**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.14**	J	0.5	U	0.5	U	0.5	U	**0.196**	J	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	**0.067**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	**0.09**	J	0.5	U	0.5	U	**0.265**	J	0.5	U	**0.052**	J	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.06**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.228**	J	0.5	U	**0.73**	--	**0.187**	J	0.5	U	**0.229**	J	**0.362**	J	**0.196**	J	**0.482**	J	0.5	U	**0.58**	--	**0.778**	J
Chromium (Total)	7440-47-3	ug/L	100	**3.75**	--	**2.226**	--	**1.786**	J	**0.348**	J	**0.441**	J	**0.336**	J	**1.51**	J	**0.89**	--	0.748	U	**0.224**	J	**6.062**	--	**0.685**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	**0.528**	--	**8.116**	--	**2.068**	--	**0.175**	J	0.5	U	0.5	U	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**2.06**	--	**1.107**	--	**0.133**	J	**0.139**	J	**0.76**	--	**8.432**	--	**3.53**	--	**0.658**	--	**0.101**	J	0.5	U	**2.459**	--	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	**2.113**	--	0.85	U	**1.256**	J	**1.742**	--	**1.121**	--	1.593	U	**1.425**	--	**1.3**	J	1.052	U	**1.7**	J	**22.26**	J	0.704	U
Copper (Total)	7440-50-8	ug/L	1300	**8.36**	--	**2.53**	--	0.544	U	0.782	U	1.7	U	1.5	U	**3.26**	--	**1.391**	--	0.58	U	**0.87**	--	**4.93**		0.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	50	U	**26.6**	J	50	U	**425**	--	**542**	--	**4500**	--	**10600**	--	**299**	--	**19.1**	J	50	U	**22.6**	J	50	U
Iron (Total)	7439-89-6	ug/L	--	**2350**	--	**1680**	--	**209**	J	**501**	--	**925**	--	**7630**	--	**26200**	--	**1290**	--	**175**	--	**46.2**	J	**3150**	--	**53.3**	J
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.313**	J	0.5	U	0.5	U	0.5	U	**0.596**	--	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**1.82**	J	**0.812**	--	**0.747**	J	**0.771**	--	**0.585**	--	**0.346**	J	**1.15**	J	**0.414**	J	0.5	U	**0.419**	J	**1.552**	--	0.5	UJ
Manganese (Dissolved)	7439-96-5	ug/L	--	**756.3**	--	**2.644**	--	**0.339**	J	**1458**	J	**1402**	--	**1327**	--	**3169**	--	**802.3**	--	**0.928**	--	**0.682**	--	**1.71**	--	**0.269**	J
Manganese (Total)	7439-96-5	ug/L	500	**1116**	--	**54.38**	--	**11.5**	--	**922.3**	J	**1440**	--	**1424**	--	**5674**	--	**1567**	--	**5.323**	--	**5.49**	--	**196.2**	--	**2.613**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**0.905**	--	0.5	U	0.084	U	1.089	U	**0.758**	--	**5.571**	--	**3.625**	--	**0.672**	--	0.5	U	0.57	U	0.5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	**4.84**	--	**2.3**	J	0.5	U	0.5	U	**0.713**	--	**6.745**	--	**8.61**	--	**0.936**	--	**0.087**	J	0.5	U	**5.1**	J	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	**0.04**	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**2.698**	--	**0.786**	--	**1.926**	--	**0.166**	J	0.5	U	**0.187**	J	**0.296**	J	**0.451**	J	**6.088**	--	**4.542**	--	**6.458**	--	**13.83**	--
Vanadium (Total)	7440-62-2	ug/L	50	**11.88**	--	**5.004**	--	**2.773**	--	**0.658**	--	**1.313**	--	**0.959**	--	**2.66**	J	**1.651**	--	**6.682**	--	**4.966**	--	**14.49**	--	**12.82**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**22.45**	--	16	U	**23.02**	--	22.43	U	15	U	24.93	U	**33.12**	--	31	U	17.02	U	26	U	25.81	U	**33.19**	J
Zinc (Total)	7440-66-6	ug/L	5000	**46.99**	J	27	U	**33.78**	J	14.88	UJ	18	U	20	U	**43.93**	J	22	U	31	U	15.21	U	34	U	**29**	J

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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SBR = Shallow Bedrock
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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				PZO-4D		PZO-4M		PZR-2DR		PZR-2R		PZR-2R		PZR-3R		PZR-3R		PZR-4DR		PZR-4R		PZR-4R		PZR-5R		SRS-1	
Sample Date				6/11/2014 10:30		6/11/2014 9:10		6/12/2014 16:40		6/10/2014 0:00		6/10/2014 14:00		6/10/2014 0:00		6/10/2014 13:00		6/12/2014 10:15		6/12/2014 0:00		6/12/2014 10:15		6/12/2014 11:50		6/12/2014 16:10	
Field Sample ID				PZO-4D-06112014		PZO-4M-06112014		PZR-2DR-06122014		DUP-GW-06102014#2		PZR-2R-06102014		DUP-GW-06102014#1		PZR-3R-06102014		PZR-4DR-06122014		DUP-GW-06122014-#4		PZR-4R-06122014		PZR-5R-06122014		SRS-1-06122014	
Well Group				C		C		C		R		R		C		C		C		C		C		C		C	
HydroStratZone(s)				DOB		MOB		DBR		SBR		SBR		SBR		SBR		DBR		SBR		SBR		SBR		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals (6020)																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**11.1**	--	**2.93**	J	**20.4**	--	10	U	10	U	10	U	10	U	**4.54**	J	10	U	**3.15**	J	**5.41**	J	**5.81**	J
Aluminum (Total)	7429-90-5	ug/L	--	**252**	J	**64.9**	J	**930**	J	**160**	J	**270**	J	**44.6**	--	**58.2**	--	**5.66**	J	**32**	J	**58**	J	**40**	J	**3200**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	2	U	1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	1	U
Antimony (Total)	7440-36-0	ug/L	6	1	U	1	U	2	U	1	U	2	U	1	U	2	U	2	U	2	U	2	U	2	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	0.5	U	0.5	U	0.92	U	**0.36**	J	**0.308**	J	**0.803**	--	**0.779**	--	**0.185**	J	0.5	U	**0.192**	J	**0.665**	--	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	0.5	U	0.5	U	**1.219**	--	**0.73**	--	**0.483**	J	**1.34**	--	**0.828**	--	**0.168**	J	**0.201**	J	**0.329**	J	**0.888**	--	**0.584**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**111.9**	--	**91.93**	--	**28.27**	--	**22.68**	--	**21.64**	--	**137.2**	--	**139.6**	--	**6.227**	--	**239.4**	--	**236.8**	--	**7.539**	--	**160.4**	--
Barium (Total)	7440-39-3	ug/L	1000	**118.2**	--	**95.24**	--	**86.43**	--	**24.9**	--	**26.28**	--	**130.2**	--	**131.4**	--	**6.267**	--	**248.2**	--	**249.2**	--	**7.962**	--	**201.7**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	0.2	U	0.2	U	0.5	U	**0.08**	J	**0.083**	J	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.221**	J	**0.208**	J	**0.34**	J	**0.265**	J	**0.194**	J	**0.5**	--	**0.45**	J	0.5	U	**0.36**	J	**0.374**	J	**0.18**	J	**0.54**	--
Chromium (Total)	7440-47-3	ug/L	100	**0.69**	J	**0.46**	J	**1.614**	--	**0.98**	J	**1.109**	--	0.79	U	0.685	U	0.5	U	**0.418**	J	**0.489**	J	**0.231**	J	**2.297**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.176**	J	**0.154**	J	0.5	U	**0.374**	J	**0.362**	J	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**0.21**	J	**0.07**	J	**0.493**	J	**0.16**	J	**0.168**	J	**0.74**	--	**0.571**	--	0.5	U	**0.782**	--	**0.945**	--	0.5	U	**1.104**	--
Copper (Dissolved)	7440-50-8	ug/L	--	0.871	U	**1.418**	J	**0.59**	J	0.5	U	0.5	U	0.5	U	0.5	U	**0.458**	J	**1.4**	J	**0.294**	J	**0.73**	J	**1.3**	J
Copper (Total)	7440-50-8	ug/L	1300	**1.87**	--	**0.31**	J	**0.678**	--	**1.76**	--	**1.785**	--	1.1	U	0.9	U	**0.248**	J	**0.569**	--	**0.688**	--	**0.458**	J	**3.924**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**16.8**	J	50	U	50	U	50	U	**13.7**	J	**27.9**	J	**27.7**	J	**51.2**	--	50	U	50	U	**64.1**	--	50	U
Iron (Total)	7439-89-6	ug/L	--	**247**	J	**77.3**	J	**804**	--	**170**	--	**270**	--	**42.3**	J	**115**	--	**75.9**	--	**36.6**	J	**61.4**	--	**164**	--	**1880**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**0.25**	J	**0.05**	J	**0.766**	--	**0.41**	J	**0.464**	J	**0.21**	J	**0.174**	J	0.5	U	0.5	U	0.5	U	0.5	U	**1.03**	--
Manganese (Dissolved)	7439-96-5	ug/L	--	**1.385**	--	**0.161**	J	**53.83**	--	**4.934**	--	**4.77**	--	**2.56**	--	**2.35**	--	**11.12**	--	**0.819**	--	**0.319**	J	**19.63**	--	**3.79**	--
Manganese (Total)	7439-96-5	ug/L	500	**18.3**	--	**3.52**	--	**79.62**	--	**10.17**	--	**11.64**	--	**5.55**	--	**6.379**	--	**50.09**	--	**9.663**	--	**10.43**	--	**105.9**	--	**69.4**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	0.5	U	0.5	U	**1.47**	--	**1.951**	--	**1.873**	--	0.5	U	0.5	U	**0.12**	J	**0.63**	J	**0.087**	J	**0.43**	J	**0.9**	--
Nickel (Total)	7440-02-0	ug/L	100	0.5	U	0.5	U	**2.156**	--	**3.41**	--	**3.081**	--	**1.8**	J	**0.21**	J	0.5	U	**0.291**	J	**0.243**	J	**0.354**	J	**1.809**	--
Silver (Dissolved)	7440-22-4	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	0.4	U	0.4	U	0.5	U	0.4	U	0.5	U	0.4	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**0.8**	--	**0.629**	--	**0.22**	J	**0.283**	J	**0.352**	J	**8.599**	--	**8.461**	--	**0.206**	J	**1.165**	--	**1.291**	--	**10.03**	--	**0.68**	--
Vanadium (Total)	7440-62-2	ug/L	50	**1.37**	J	**0.88**	J	**2.477**	--	**0.77**	J	**0.93**	--	**8.14**	--	**8.194**	--	**0.178**	J	**1.417**	--	**1.381**	--	**11.9**	--	**6.075**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**15.96**	--	**18.09**	--	20	U	19	U	18	U	16	U	12	U	12	U	17	U	14	U	17	U	22	U
Zinc (Total)	7440-66-6	ug/L	5000	**28.78**	J	**24.39**	J	17	U	30	U	25	U	12	U	19	U	8.2	U	16	U	14	U	11	U	21.35	U

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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DOB = Deep Overburden
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Table 4 – Metals – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	SRS-3		TW-08A		TW-08B		TW-08D		
			Sample Date	6/13/2014 10:40		6/12/2014 14:50		6/12/2014 15:00		6/12/2014 15:10		
			Field Sample ID	SRS-3-06132014		TW-08A-HS-06122014		TW-08B-HS-06122014		TW-08D-HS-06122014		
			Well Group	C		N		N		N		
			HydroStratZone(s)	DOB		MOB		SBR		DOB		
Analyte	**CAS No.**	**Unit**	**Action**									
Metals (6020)			**Level**									
Aluminum (Dissolved)	7429-90-5	ug/L	--	**18.6**	--	--	R	**23.1**	--	**5.18**	J
Aluminum (Total)	7429-90-5	ug/L	--	**370**	--	--	R	**4200**	J	**49**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	2	U	1	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	2	U	2	U	2	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**0.37**	J	**5.4**	J	**2.013**	--	**5.32**	--
Arsenic (Total)	7440-38-2	ug/L	10	**1.147**	J	**4.824**	--	**6.497**	--	**5.611**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**532**	--	**600**	J	**1134**	--	**1133**	--
Barium (Total)	7440-39-3	ug/L	1000	**603.7**	--	**516**	--	**1358**	--	**1212**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.5	U	0.5	U	0.5	U	1	U
Beryllium (Total)	7440-41-7	ug/L	4	0.5	U	0.5	U	**0.539**	--	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	0.5	U	0.51	U	0.5	U	1	U
Cadmium (Total)	7440-43-9	ug/L	5	0.5	U	0.5	U	**0.106**	J	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**0.15**	J	--	R	**0.632**	--	**1.42**	--
Chromium (Total)	7440-47-3	ug/L	100	**0.719**	--	--	R	**28.02**	--	**1.612**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	**0.201**	J	**0.96**	J	**2.304**	--	**2.68**	--
Cobalt (Total)	7440-48-4	ug/L	10	**0.534**	--	**0.434**	J	**5.109**	--	**2.673**	--
Copper (Dissolved)	7440-50-8	ug/L	--	**1.62**	--	--	R	**1**	J	**0.72**	J
Copper (Total)	7440-50-8	ug/L	1300	2.025	U	--	R	**13.94**	--	**4.215**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**91.6**	--	**34000**	J	**3500**	--	**28900**	--
Iron (Total)	7439-89-6	ug/L	--	**910**	--	**30000**	--	**12100**	--	**30300**	--
Lead (Dissolved)	7439-92-1	ug/L	--	0.5	U	1.3	U	0.5	U	1	U
Lead (Total)	7439-92-1	ug/L	15	**0.537**	--	0.5	U	**5.253**	--	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**1687**	--	**7528**	--	**5280**	--	**9152**	--
Manganese (Total)	7439-96-5	ug/L	500	**2042**	--	**7300**	--	**5760**	--	**9415**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**0.764**	--	**2.7**	J	**14.22**	--	**3.56**	--
Nickel (Total)	7440-02-0	ug/L	100	**0.731**	--	**1.02**	--	**25.79**	--	**4.052**	--
Silver (Dissolved)	7440-22-4	ug/L	--	0.27	U	0.5	U	0.5	U	1	U
Silver (Total)	7440-22-4	ug/L	36	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	0.5	U	0.5	U	0.5	U	1	U
Thallium (Total)	7440-28-0	ug/L	2	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**0.353**	J	**4.4**	J	**0.773**	--	**0.68**	J
Vanadium (Total)	7440-62-2	ug/L	50	**2.103**	--	**0.599**	--	**19.76**	--	**0.593**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	22	U	14	U	29	U	32	U
Zinc (Total)	7440-66-6	ug/L	5000	21.58	U	31	U	40	U	21	U

Notes:
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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				CPZ-1		CPZ-1		CPZ-10		CPZ-10		CPZ-10R		CPZ-10R		CPZ-1R		CPZ-1R		CPZ-2A		CPZ-2A		CPZ-2R		CPZ-2R	
Sample Date				5/18/2010 16:05		6/12/2014 14:25		5/18/2010 11:05		6/9/2014 13:05		5/18/2010 11:25		6/12/2014 14:25		5/20/2010 15:55		6/12/2014 14:10		5/20/2010 11:40		6/13/2014 9:10		5/18/2010 16:35		6/13/2014 9:40	
Field Sample ID				CPZ-1-05182010		CPZ-1-06122014		CPZ-10-05182010		CPZ-10-06092014		CPZ-10R-05182010		CPZ-10R-HS-06122014		CPZ-1R-05202010		CPZ-1R-06122014		CPZ-2A-05202010		CPZ-2A-06132014		CPZ-2R-05182010		CPZ-2R-06132014	
Well Group				C		C		C		C		C		C		C		C		C		C		C		C	
HydroStratZone(s)				SOB, MOB		SOB, MOB		MOB		MOB		SBR		SBR		SBR		SBR		SOB, MOB		SOB, MOB		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	**4.17**	J	250	UJ	10	U	250	UJ	**3.07**	J	250	U	10	U	250	UJ	10	U	**23**	J	**4.57**	J
Aluminum (Total)	7429-90-5	ug/L	--	250	UJ	**44.4**	J	**880**	--	**190**	J	250	UJ	**60**	J	250	U	2.14	UJ	250	UJ	10	U	**452**	--	**129**	--
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	**2.363**	J	15	U	2	U	15	U	1	U	15	UJ	1	U	15	U	2	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	**1.178**	J	15	U	2	U	15	U	2	U	15	UJ	2	U	15	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	U	**0.271**	J	15	UJ	0.5	U	15	UJ	0.51	U	15	UJ	0.58	U	15	U	0.5	U	15	U	**0.266**	J
Arsenic (Total)	7440-38-2	ug/L	10	15	U	**0.425**	J	15	UJ	**0.26**	J	15	UJ	**0.368**	J	15	UJ	**0.567**	--	15	U	**0.81**	J	15	U	**1.5**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**180**	--	**296.8**	--	**363**	--	**381.8**	--	**231**	--	**220.2**	--	**95.4**	--	**146**	--	**169**	--	**282.8**	--	**51.5**	--	**74.07**	--
Barium (Total)	7440-39-3	ug/L	1000	**184**	--	**294.3**	--	**381**	--	**393.9**	--	**232**	--	**266.8**	--	**93.2**	--	**151.2**	--	**183**	--	**331.7**	--	**70.9**	--	**91.36**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	**1.706**	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.081**	J	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	**3.057**	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.175**	J	5	U	**0.083**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.737**	--	5	U	0.5	U	5	U	**0.56**	J	5	U	**0.46**	J	5	U	**0.191**	J	5	U	**0.167**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	**0.825**	--	5	U	0.634	U	5	U	**0.378**	J	5	U	**0.223**	J	5	U	**0.244**	J	5	U	**0.558**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	UJ	0.5	U	5	UJ	0.5	U	5	UJ	0.5	U	5	U	0.5	U	5	UJ	**0.123**	J	5	UJ	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**0.57**	J	**0.374**	J	5	UJ	**0.197**	J	5	UJ	0.5	U	5	U	0.5	U	5	UJ	**0.34**	J	5	UJ	**0.618**	--
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	**1.514**	J	10	U	1.5	U	10	U	1.4	UJ	10	U	0.94	UJ	10	U	2.1	U	10	U	**1.957**	--
Copper (Total)	7440-50-8	ug/L	1300	10	U	**1.908**	--	10	U	1.2	U	10	U	1	U	10	U	0.65	U	10	U	1.4	U	10	U	**4.521**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**943**	--	**17.6**	J	125	U	50	U	125	U	50	U	**16.1**	J	50	U	**259**	J	**332**	--	125	U	**22.5**	J
Iron (Total)	7439-89-6	ug/L	--	**1100**	--	**223**	--	**883**	--	**372**	--	125	U	**53.8**	--	125	U	**25.2**	J	**374**	J	**2850**	--	**387**	--	**1080**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	0.5	U	15	UJ	**0.259**	J	15	UJ	**0.25**	J	15	U	0.5	U	15	U	0.5	U	15	U	**13.87**	--
Manganese (Dissolved)	7439-96-5	ug/L	--	**1780**	--	**11.86**	--	**1.5**	J	0.54	U	**0.58**	J	**2.04**	--	**0.33**	J	**1.84**	--	**190**	--	**313.5**	--	**4.1**	J	**1.802**	--
Manganese (Total)	7439-96-5	ug/L	500	**1830**	--	**44.02**	--	**40.9**	--	**20.97**	--	**6.2**	J	**27.34**	--	**0.38**	J	**3.201**	--	**159**	--	**512.2**	--	**27.2**	--	**240.6**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**1.039**	J	5	U	0.5	U	5	U	0.61	U	5	UJ	0.77	U	5	U	**1.965**	--	5	U	**0.593**	J
Nickel (Total)	7440-02-0	ug/L	100	**31.5**	--	**0.766**	--	5	U	**0.31**	J	5	U	0.5	U	5	UJ	0.5	U	5	U	**5.07**	--	5	U	**0.43**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**1.2**	J	**1.78**	--	**1.1**	J	**0.958**	--	5	UJ	**0.91**	--	**8.7**	--	**3.89**	--	5	UJ	**0.217**	J	**4.6**	J	**4.222**	--
Vanadium (Total)	7440-62-2	ug/L	50	**1.8**	J	**2.14**	--	**3.1**	J	**1.789**	--	5	UJ	**1.36**	--	**8.8**	--	**4.433**	--	5	UJ	**0.724**	--	**8.9**	--	**15.34**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	22.9	U	25	U	16	U	25	U	18	U	25	U	17	U	25	U	19	U	25	U	19.95	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	28.96	U	25	U	11	U	25	U	20	U	25	U	15	U	25	U	21	U	25	U	29	U

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Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	CPZ-3		CPZ-3		CPZ-3		CPZ-3R		CPZ-3R		CPZ-4A		CPZ-4A		CPZ-4R		CPZ-4R		CPZ-5		CPZ-5	
			Sample Date	5/21/2010 0:00		5/21/2010 11:00		6/12/2014 9:15		5/24/2010 14:00		6/12/2014 9:50		5/19/2010 11:55		6/12/2014 15:15		5/19/2010 11:05		6/11/2014 15:25		5/24/2010 16:00		6/12/2014 10:20	
			Field Sample ID	DUP-GW-05212010-#1		CPZ-3-05212010		CPZ-3-HS-06122014		CPZ-3R-05242010		CPZ-3R-HS-06122014		CPZ-4A-05192010		CPZ-4A-06122014		CPZ-4R-05192010		CPZ-4R-HS-06112014		CPZ-5-05242010		CPZ-5-HS-06122014	
			Well Group	C		C		C		C		C		R		R		C		C		C		C	
			HydroStratZone(s)	SOB, MOB		SOB, MOB		SOB, MOB		SBR		SBR		SOB, MOB		SOB, MOB		SBR		SBR		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	U	250	U	**2.28**	J	250	U	**4.24**	J	250	UJ	10	U	**16.5**	J	**3.85**	J	250	UJ	**3.01**	J
Aluminum (Total)	7429-90-5	ug/L	--	250	U	250	U	**2800**	J	**1010**	--	**250**	J	**165**	J	**19**	J	**398**	--	**199**	J	**153**	J	**7.58**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	UJ	15	UJ	1	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	UJ	15	UJ	2	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**4.1**	J	15	UJ	**3.71**	--	15	UJ	**0.179**	J	15	U	**2.901**	--	15	U	**0.288**	J	15	U	**1.62**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	15	UJ	**5.595**	--	15	UJ	**0.312**	J	15	U	**5.751**	--	15	U	**0.464**	J	15	UJ	**2.421**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**668**	--	**686**	--	**994.2**	--	**13.5**	--	**12.05**	--	**445**	--	**560.6**	--	**7.5**	--	**8.462**	--	**954**	--	**497.5**	--
Barium (Total)	7440-39-3	ug/L	1000	**679**	--	**670**	--	**1102**	--	**25.9**	--	**18.02**	--	**443**	--	**644.3**	--	**17.3**	--	**13.75**	--	**948**	--	**522.7**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	5	U	**0.298**	J	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	5	U	**0.092**	J	5	U	0.5	U	5	U	0.5	U	5	U	**0.064**	J	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	5	U	**1.33**	--	5	U	0.5	U	5	U	**0.255**	J	5	U	0.5	U	5	U	**0.521**	--
Chromium (Total)	7440-47-3	ug/L	100	5	U	5	U	**5.113**	--	**0.86**	J	**0.684**	--	5	U	**0.272**	J	5	U	**0.466**	J	**1.1**	J	**0.864**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	5	U	**0.45**	J	5	U	0.5	U	5	UJ	**2.653**	--	5	UJ	0.5	U	5	U	**1.548**	--
Cobalt (Total)	7440-48-4	ug/L	10	5	U	5	U	**6.935**	--	5	U	**0.158**	J	**0.62**	J	**2.79**	--	5	UJ	**0.114**	J	5	U	**1.753**	--
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	10	U	**1**	J	**1.6**	J	**1.3**	J	10	U	**0.737**	J	10	U	**1.646**	--	10	U	**1.7**	J
Copper (Total)	7440-50-8	ug/L	1300	10	U	10	U	**6.354**	--	**3.6**	J	**1.605**	--	10	U	**4.194**	--	10	U	0.5	U	10	U	**0.599**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**16800**	--	**16000**	--	**28400**	--	125	U	**181**	--	**11500**	--	**15900**	--	125	U	**233**	--	**9310**	--	**9620**	--
Iron (Total)	7439-89-6	ug/L	--	**17400**	--	**17400**	--	**35200**	--	**647**	--	**473**	--	**12000**	--	**19900**	--	**289**	--	**420**	--	**9730**	--	**18800**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	15	U	**2.868**	--	15	UJ	**0.344**	J	15	U	0.5	U	15	U	**0.212**	J	15	UJ	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**3250**	--	**3220**	--	**4964**	--	**46.8**	--	**212.2**	--	**2720**	--	**3152**	--	**66.8**	--	**102.3**	--	**3860**	--	**5770**	--
Manganese (Total)	7439-96-5	ug/L	500	**3280**	--	**3270**	--	**5028**	--	**68.6**	--	**199.9**	--	**2740**	--	**3086**	--	**75.6**	--	**116.7**	--	**3890**	--	**6045**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	UJ	5	UJ	**1.76**	--	5	U	**1**	J	5	U	**1.081**	J	5	U	**1.118**	--	5	U	**1.412**	--
Nickel (Total)	7440-02-0	ug/L	100	5	UJ	5	UJ	**5.362**	--	5	U	**0.426**	J	5	U	**0.817**	--	5	U	**0.158**	J	5	U	**1.377**	--
Silver (Dissolved)	7440-22-4	ug/L	--	**0.67**	J	**0.72**	J	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	**0.75**	J	**0.81**	J	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	1	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**2.3**	J	**1.9**	J	**0.94**	--	**2**	J	**0.249**	J	**1.3**	J	**0.192**	J	5	UJ	**0.259**	J	**1.9**	J	**0.274**	J
Vanadium (Total)	7440-62-2	ug/L	50	**2.6**	J	**1.9**	J	**12.61**	--	**3.8**	J	**1.159**	--	**1.6**	J	**0.469**	J	5	UJ	**0.814**	--	**2**	J	**1.101**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	25	U	17	U	25	U	18	U	25	U	23.13	U	25	U	**19.4**	--	25	U	19	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	25	U	25	U	25	U	19	U	25	U	21	U	25	U	**20.5**	J	25	U	12	U

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				CPZ-5R		CPZ-5R		CPZ-6		CPZ-6		CPZ-6A		CPZ-6A		CPZ-6R		CPZ-6R		CPZ-7		CPZ-7		CPZ-7R		CPZ-7R	
Sample Date				5/21/2010 11:05		6/12/2014 10:45		5/24/2010 12:00		6/12/2014 8:05		5/20/2010 12:45		6/11/2014 15:00		5/19/2010 17:30		6/12/2014 8:40		5/21/2010 11:20		6/12/2014 13:15		5/25/2010 13:45		6/12/2014 13:50	
Field Sample ID				CPZ-5R-05212010		CPZ-5R-HS-06122014		CPZ-6-05242010		CPZ-6-HS-06122014		CPZ-6A-05202010		CPZ-6A-HS-06112014		CPZ-6R-05192010		CPZ-6R-HS-06122014		CPZ-7-05212010		CPZ-7-HS-06122014		CPZ-7R-05252010		CPZ-7R-HS-06122014	
Well Group				C		C		C		C		C		C		C		C		C		C		C		C	
HydroStratZone(s)				SBR		SBR		MOB		MOB		MOB, DOB		MOB, DOB		SBR		SBR		SOB, MOB		SOB, MOB		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	U	**12.1**	--	250	UJ	**2.97**	J	250	UJ	10	U	250	UJ	**16**	--	250	U	**2.76**	J	250	UJ	**4.29**	J
Aluminum (Total)	7429-90-5	ug/L	--	**324**	--	**45**	J	**28200**	--	11	UJ	250	U	**13.4**	J	**345**	--	**120**	J	250	U	15	UJ	**140**	J	**190**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	UJ	2	U	15	U	0.13	UJ	15	U	2	U	15	U	1	U	15	UJ	1	U	15	U	1	U
Antimony (Total)	7440-36-0	ug/L	6	15	UJ	2	U	15	U	2	U	15	U	2	U	15	U	2	U	15	UJ	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**1.445**	--	15	UJ	0.94	U	**9.9**	J	**7.175**	--	15	U	0.5	U	15	UJ	**3.54**	--	15	UJ	0.83	U
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**1.611**	--	15	U	**4.18**	--	**4.2**	J	**9.363**	--	15	U	0.53	U	**4.4**	J	**27.89**	--	15	UJ	**1.462**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**72.8**	--	**25.9**	--	**414**	--	**309.9**	--	**1130**	--	**643.1**	--	**856**	--	**356.3**	--	**678**	--	**871.4**	--	**73.7**	--	**55.13**	--
Barium (Total)	7440-39-3	ug/L	1000	**78.4**	--	**25.67**	--	**858**	--	**348.5**	--	**1170**	--	**697.4**	--	**834**	--	**394.2**	--	**700**	--	**1434**	--	**74.7**	--	**67.99**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	**2**	J	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.05**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	0.5	U	5	U	0.81	U	5	U	**0.214**	J	5	U	**0.87**	J	5	U	**0.66**	--	5	U	**1**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	**0.167**	J	**44.2**	--	0.5	U	5	U	**0.216**	J	5	U	**0.289**	J	5	U	**0.654**	--	5	U	**0.422**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	0.23	U	**4**	J	**2.764**	--	5	UJ	0.5	U	5	U	**0.87**	J	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	5	U	0.5	U	**21.2**	--	**0.135**	J	**4.5**	J	**4.27**	--	5	UJ	**0.358**	J	5	U	**1.335**	--	5	U	**0.128**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	**1**	J	10	U	**1.3**	J	10	U	1.137	U	**2.5**	J	**0.53**	J	10	U	**1.01**	J	10	U	**0.81**	J
Copper (Total)	7440-50-8	ug/L	1300	10	U	**0.236**	J	**52.1**	--	0.5	U	**2.8**	J	0.5	U	**2**	J	0.63	U	10	U	1.3	U	10	U	**1.712**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**158**	--	**18.7**	J	**3170**	--	**750**	--	**21800**	J	**16900**	--	**8130**	J	**372**	--	**26500**	--	**32400**	--	**91.3**	J	50	U
Iron (Total)	7439-89-6	ug/L	--	**674**	--	**116**	--	**48700**	--	**3640**	--	**22800**	J	**19700**	--	**8490**	J	**968**	--	**26800**	--	**110000**	--	**245**	--	**490**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	UJ	0.06	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	0.5	U	**18.1**	J	0.5	U	15	U	0.5	UJ	15	U	**0.283**	J	15	U	0.5	U	15	U	**0.617**	--
Manganese (Dissolved)	7439-96-5	ug/L	--	**197**	--	**15.82**	--	**3010**	--	**2598**	--	**1530**	--	**1360**	--	**3500**	--	**1103**	--	**3590**	--	**5866**	--	**332**	--	**107.4**	--
Manganese (Total)	7439-96-5	ug/L	500	**178**	--	**18.59**	--	**4300**	--	**2952**	--	**1580**	--	**1491**	--	**3420**	--	**1171**	--	**3660**	--	**5854**	--	**330**	--	**132.6**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	UJ	**0.328**	J	5	UJ	**1.3**	J	5	U	**2.075**	--	5	U	**1.7**	J	5	UJ	**1.16**	J	5	U	**1.3**	J
Nickel (Total)	7440-02-0	ug/L	100	5	UJ	**0.151**	J	**46.4**	--	**0.475**	J	5	U	**5.598**	--	5	U	**0.811**	--	5	UJ	**0.947**	--	5	U	**0.329**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	**1**	J	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	**0.95**	J	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**4.6**	J	**11.12**	--	**2.3**	J	**0.24**	J	**3**	J	**0.269**	J	**2**	J	**0.65**	--	**1.1**	J	**0.36**	J	**1.5**	J	**1.07**	--
Vanadium (Total)	7440-62-2	ug/L	50	**10.7**	--	**13.1**	--	**88**	--	**0.194**	J	**3.6**	J	**0.648**	--	**2.7**	J	**1.144**	--	**1.7**	J	**1.79**	--	**2.5**	J	**5.385**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	10	U	25	U	17	U	25	U	**17.51**	--	25	U	18	U	25	U	19.78	U	25	U	19	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	13	U	**128**	--	15	U	25	U	**18.3**	J	25	U	18	U	25	U	20	U	25	U	42	U

Notes:

U = Analyte not detected above the laboratory reporting limit
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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	CPZ-8		CPZ-8		DN-3		DN-3		MW-03		MW-03		MW-03		MW-05		MW-05		MW-05		MW-05	
			Sample Date	5/19/2010 10:25		6/13/2014 10:30		5/18/2010 16:20		6/12/2014 14:05		4/25/2005 0:00		5/13/2010 17:48		6/9/2014 12:30		6/28/1990 0:00		8/28/1991 0:00		5/19/2010 11:30		6/11/2014 12:20	
			Field Sample ID	CPZ-8-05192010		CPZ-8-06132014		DN-3-05182010		DN-3-06122014		MW-3_0405		MW-03-05132010		MW-03-06092014		MW5-H1		MW5-H2		MW-05-05192010		MW-05-HS-06112014	
			Well Group	C		C		C		C		R		R		R		C		C		C		C	
			HydroStratZone(s)	MOB		MOB		DOB		DOB		MOB		MOB		MOB		SBR		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	10	U	250	UJ	10	U	--	--	500	UJ	10	U	--	--	--	--	250	UJ	**17.1**	--
Aluminum (Total)	7429-90-5	ug/L	--	250	UJ	10	U	250	UJ	**80.9**	J	**513**	--	500	UJ	17	UJ	**33000**	--	**9800**	J	**97.5**	J	**162**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	1	U	--	--	15	U	2	U	--	--	--	--	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	2	U	60	U	15	U	0.777	UJ	55	U	17	UJ	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	**4.4**	J	**4.407**	J	15	U	0.5	U	--	--	15	U	**0.333**	J	--	--	--	--	15	U	**0.445**	J
Arsenic (Total)	7440-38-2	ug/L	10	15	U	**4.9**	J	15	U	**0.45**	J	10	U	15	U	**0.349**	J	**8.1**	--	**4**	--	15	U	**0.706**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**366**	--	**407.2**	--	**215**	--	**268.6**	--	--	--	**242**	--	**217.5**	--	--	--	--	--	**634**	--	**182.5**	--
Barium (Total)	7440-39-3	ug/L	1000	**388**	--	**436.3**	--	**219**	--	**356**	--	**396**	--	**264**	--	**242.4**	--	**1900**	--	**1700**	--	**633**	--	**200.1**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U	--	--	--	--	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	--	--	--	--	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U	--	--	--	--	5	U	**0.095**	J
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	**0.123**	J	5	U	5	U	0.5	U	--	--	--	--	5	U	**0.892**	--
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	0.5	U	5	U	**0.43**	J	--	--	**0.7**	J	0.5	U	--	--	--	--	5	U	**0.192**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	**0.179**	J	5	U	**0.414**	J	10	U	5	U	0.5	U	**61**	--	17	U	5	U	**0.603**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	**1.1**	J	**2.293**	--	5	UJ	0.5	U	--	--	5	U	0.5	U	--	--	--	--	5	UJ	**0.686**	--
Cobalt (Total)	7440-48-4	ug/L	10	**1**	J	**2.326**	--	5	UJ	0.5	U	50	U	5	U	0.5	U	37	U	**12**	--	5	UJ	**0.895**	--
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	0.747	U	10	U	**0.46**	J	--	--	10	U	2.8	U	--	--	--	--	10	U	**1.277**	--
Copper (Total)	7440-50-8	ug/L	1300	10	U	0.65	U	10	U	**133.3**	--	20	U	10	U	1	U	**120**	--	**33**	--	10	U	**2.725**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**7190**	--	**8480**	--	125	U	50	U	--	--	125	U	50	U	--	--	--	--	**951**	--	**488**	--
Iron (Total)	7439-89-6	ug/L	--	**7850**	--	**9540**	--	125	U	**152**	--	**663**	--	125	U	**38.2**	J	**47000**	--	**17000**	J	**1160**	--	**1030**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	U	0.5	U	--	--	15	U	0.5	U	--	--	--	--	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	0.5	U	15	U	**1.157**	--	5	U	15	U	0.5	U	**37**	J	**9.3**	J	15	U	**1.166**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**7330**	--	**9600**	J	**19.7**	--	**5.86**	--	--	--	**633**	--	**29.17**	--	--	--	--	--	**1530**	--	**584**	--
Manganese (Total)	7439-96-5	ug/L	500	**7420**	--	**8200**	J	**184**	--	**397.3**	--	**2660**	--	**992**	--	**110.8**	--	**5200**	--	**4300**	--	**1530**	--	**548.5**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**0.752**	J	5	U	**0.32**	J	--	--	5	U	--	R	--	--	--	--	5	U	**2.135**	--
Nickel (Total)	7440-02-0	ug/L	100	5	U	**0.68**	J	5	U	**1.583**	--	40	U	5	U	--	R	**52**	--	17	U	5	U	**2.548**	--
Silver (Dissolved)	7440-22-4	ug/L	--	**1.8**	J	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U	--	--	--	--	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	10	U	5	U	0.5	U	**12**	--	--	--	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	--	--	15	U	0.5	U	--	--	--	--	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	UJ	0.5	U	10	U	15	U	0.5	U	3.4	U	--	--	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**2.6**	J	0.5	U	**1.3**	J	**0.91**	--	--	--	**1.7**	J	**1.691**	--	--	--	--	--	**1.1**	J	**0.502**	--
Vanadium (Total)	7440-62-2	ug/L	50	**2.7**	J	0.5	U	**2.2**	J	**2.201**	--	50	U	**2.2**	J	**2.296**	--	**100**	--	**28**	--	**1.6**	J	**1.408**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	9.344	U	25	U	8.4	U	--	--	25	U	24	U	--	--	--	--	25	U	**20.9**	--
Zinc (Total)	7440-66-6	ug/L	5000	25	U	21	U	25	U	20.33	U	20	U	25	U	21	U	**250**	J	**70**	--	25	U	**36.64**	J

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-1001M		MW-1001M		MW-1001M		MW-1001R		MW-1001R		MW-1001R		MW-121A		MW-121A		MW-121A		MW-121A	
Sample Date				2/7/2012 0:00		2/7/2012 11:30		6/11/2014 9:40		2/6/2012 14:21		4/5/2012 16:10		6/11/2014 10:35		8/29/1991 0:00		12/10/1992 0:00		5/18/2010 15:40		6/11/2014 12:55	
Field Sample ID				DUP-02072012-#1		MW-1001M-02072012		MW-1001M-06112014		MW-1001R-02062012		MW-1001R-040512		MW-1001R-06112014		MW121A-H2		MW121A-H3		MW-121A-05182010		MW-121A-HS-06112014	
Well Group				C		C		C		C		C		C		C		C		C		C	
HydroStratZone(s)				MOB		MOB		MOB		SBR		SBR		SBR		SBR		SBR		SBR		SBR	
Analyte			**Action**																				
Metals	**CAS No.**	**Unit**	**Level**																				
Aluminum (Dissolved)	7429-90-5	ug/L	--	100	U	100	U	**13**	J	100	U	100	U	**24.2**	--	--	--	--	--	250	UJ	**2.81**	J
Aluminum (Total)	7429-90-5	ug/L	--	**400**	--	**400**	--	**155**	J	100	U	**200**	--	**63.3**	J	**9000**	J	**77100**	--	**30.1**	J	**15**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	6	U	6	U	4	U	6	U	6	U	**1.327**	J	--	--	--	--	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	6	U	6	U	1	U	6	U	6	U	1	U	12	UJ	14.8	U	15	U	1.116	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	10	U	10	U	0.404	U	10	U	10	U	0.314	U	--	--	--	--	15	U	**0.231**	J
Arsenic (Total)	7440-38-2	ug/L	10	10	U	10	U	0.5	U	10	U	10	U	0.5	U	**3**	J	**19.6**	--	15	U	**0.885**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**110**	--	**110**	--	**132**	--	**200**	--	**140**	--	**43.72**	--	--	--	--	--	**58.6**	--	**36.43**	--
Barium (Total)	7440-39-3	ug/L	1000	**120**	--	**110**	--	**135.7**	--	**200**	--	**150**	--	**45.51**	--	**180**	--	**1090**	--	**62.1**	--	**53.22**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	4	U	4	U	1	U	4	U	4	U	0.5	U	--	--	--	--	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	4	U	4	U	0.5	U	4	U	4	U	0.5	U	**1.1**	J	**8.7**	--	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	5	U	1	U	5	U	5	U	0.5	U	--	--	--	--	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	5	U	0.2	U	5	U	5	U	0.2	U	--	--	6	U	5	U	**0.114**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	10	U	10	U	**1.126**	--	**240**	--	**180**	--	**106.5**	--	--	--	--	--	5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	10	U	10	U	**1.42**	J	**240**	--	**190**	--	**108.9**	J	17	U	**133**	--	5	U	**0.19**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	10	U	10	U	1	U	10	U	10	U	**0.606**	--	--	--	--	--	5	UJ	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	10	U	10	U	**0.14**	J	10	U	10	U	**0.84**	--	**4.1**	J	**19.8**	--	5	UJ	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	10	U	**1.932**	J	**10**	--	**10**	--	**8.545**	--	--	--	--	--	10	U	0.5	U
Copper (Total)	7440-50-8	ug/L	1300	10	U	10	U	**0.72**	J	**10**	--	**20**	--	**9.88**	--	**14**	--	**81.1**	--	10	U	0.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	50	U	50	U	100	U	**80**	--	**370**	--	**95.5**	--	--	--	--	--	**174**	--	**68.8**	--
Iron (Total)	7439-89-6	ug/L	--	**690**	--	**730**	--	**118**	J	**110**	--	**370**	--	50	U	**9900**	J	**81200**	--	**925**	--	**661**	--
Lead (Dissolved)	7439-92-1	ug/L	--	5	U	5	U	1	U	5	U	5	U	**0.212**	J	--	--	--	--	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	5	U	**7**	--	**0.2**	J	5	U	5	U	**0.22**	J	**12**	J	**117**	J	15	U	**0.183**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**50**	--	**40**	--	**2.042**	--	10	U	10	U	**0.159**	J	--	--	--	--	**527**	--	**234**	--
Manganese (Total)	7439-96-5	ug/L	500	**60**	--	**70**	--	**16.38**	--	10	U	10	U	**1.69**	--	**440**	--	**1670**	--	**702**	--	**642.9**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	10	U	10	U	1	U	10	U	10	U	**4.868**	--	--	--	--	--	5	U	**0.497**	J
Nickel (Total)	7440-02-0	ug/L	100	10	U	10	U	0.5	U	10	U	10	U	**6.55**	--	13	U	**83.3**	--	5	U	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	10	U	10	U	1	U	10	U	10	U	0.5	U	--	--	--	--	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	10	U	10	U	0.4	U	10	U	10	U	0.4	U	--	--	3.6	UJ	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	2	U	2	U	1	U	2	U	2	U	0.5	U	--	--	--	--	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	2	U	2	U	0.5	U	2	U	2	U	0.5	U	--	--	3.8	UJ	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	10	U	10	U	**4.044**	--	10	U	10	U	**8.645**	--	--	--	--	--	5	UJ	0.5	U
Vanadium (Total)	7440-62-2	ug/L	50	10	U	10	U	**4.33**	J	10	U	10	U	**13.15**	--	13	U	**85.7**	--	**1.1**	J	0.5	U
Zinc (Dissolved)	7440-66-6	ug/L	--	50	U	50	U	**21.32**	J	50	U	50	U	**18.78**	--	--	--	--	--	25	U	**9.623**	--
Zinc (Total)	7440-66-6	ug/L	5000	50	U	50	U	**18.16**	J	50	U	50	U	**22.75**	J	**110**	--	**776**	J	25	U	**20.38**	J

Notes:

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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-121B		MW-121B		MW-121B		MW-121C		MW-121C		MW-121C		MW-121C		MW-121M		MW-121M		MW-124C		MW-124C		MW-124C	
Sample Date				12/9/1992 0:00		5/19/2010 10:35		6/11/2014 15:40		8/13/1991 0:00		12/9/1992 0:00		5/17/2010 16:15		6/11/2014 14:45		5/17/2010 17:25		6/13/2014 10:05		8/27/1991 0:00		5/13/2010 16:30		6/12/2014 10:35	
Field Sample ID				MW121B-H3B		MW-121B-05192010		MW-121B-HS-06112014		MW121C-H2		MW121C-H3B		MW-121C-05172010		MW-121C-HS-06112014		MW-121M-05172010		MW-121M-06132014		MW124C-H2		MW-124C-05132010		MW-124C-06122014	
Well Group				R		R		R		R		R		R		R		R		R		R		R		R	
HydroStratZone(s)				DOB		DOB		DOB		SBR		SBR		SBR		SBR		MOB		MOB		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	250	UJ	**7.5**	J	--	--	--	--	250	U	10	U	250	UJ	10	U	--	--	500	UJ	**6.45**	J
Aluminum (Total)	7429-90-5	ug/L	--	**95800**	--	**20.4**	J	**182**	J	**23000**	--	**77200**	--	**72.7**	J	**646**	J	**1450**	--	16	U	**300**	--	**931**	--	**170**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	15	U	2	U	--	--	--	--	15	U	2	U	15	U	2	U	--	--	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	14.8	U	15	U	2	U	**61**	--	14.8	U	15	U	2	U	15	U	2	U	14	UJ	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	**7.8**	J	**2.48**	--	--	--	--	--	**6.3**	J	0.5	U	**7.5**	J	**4.065**	J	--	--	15	U	**0.417**	J
Arsenic (Total)	7440-38-2	ug/L	10	**18.3**	--	**8.1**	J	**2.914**	--	**4**	J	11.4	U	15	UJ	**2.483**	--	**5.7**	J	**4.4**	J	**2**	J	15	U	**0.592**	--
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	**904**	--	**757.6**	--	--	--	--	--	**548**	--	0.5	U	**238**	--	**142.9**	--	--	--	**54.7**	--	**52.63**	--
Barium (Total)	7440-39-3	ug/L	1000	**4140**	--	**934**	--	**900.6**	--	**2300**	--	**3270**	--	**552**	--	**689**	--	**270**	--	**150.2**	--	**28**	--	**63.9**	--	**55.27**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	5	U	0.5	U	--	--	--	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**5.8**	--	5	U	0.5	U	**2.7**	J	**5.8**	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	5	U	0.5	U	--	--	--	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	1.9	UJ	5	U	0.5	U	3.5	UJ	1.5	U	5	U	**0.093**	J	5	U	0.5	U	--	--	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	5	U	0.5	U	--	--	--	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	**0.166**	J
Chromium (Total)	7440-47-3	ug/L	100	**160**	--	5	U	**0.387**	J	**59**	--	**130**	--	5	U	**1.356**	J	**4.4**	J	**0.164**	J	17	U	**1.1**	J	**0.45**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	5	UJ	**0.263**	J	--	--	--	--	5	UJ	0.5	U	**0.52**	J	**0.583**	--	--	--	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**77.8**	--	5	UJ	**0.324**	J	**19**	--	**45**	--	5	UJ	**0.98**	--	**1.7**	J	**0.743**	--	--	--	5	U	**0.177**	J
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	10	U	**1.185**	J	--	--	--	--	10	U	0.5	U	10	U	**0.441**	J	--	--	10	U	0.5	UJ
Copper (Total)	7440-50-8	ug/L	1300	**130**	--	10	U	0.687	UJ	73	U	**221**	--	10	U	**3.235**	--	10	U	0.68	U	**5.1**	--	10	U	**0.801**	--
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	**2920**	--	**1810**	--	--	--	--	--	**2640**	--	50	U	**1370**	--	**1640**	--	--	--	125	U	**36.3**	J
Iron (Total)	7439-89-6	ug/L	--	**138000**	--	**3090**	--	**3340**	--	**45000**	--	**121000**	--	**2710**	--	**3740**	--	**3510**	--	**1850**	--	660	U	**1010**	--	**237**	--
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	15	U	0.5	U	--	--	--	--	15	UJ	0.5	U	15	UJ	0.5	U	--	--	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**54.9**	J	15	U	**0.346**	J	**10**	J	**37.4**	J	15	UJ	**1.152**	J	15	UJ	0.5	U	--	--	15	U	**0.185**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	**2720**	--	**2464**	--	--	--	--	--	**2260**	--	0.5	U	**7680**	--	**3926**	--	--	--	**3.5**	J	**17.74**	--
Manganese (Total)	7439-96-5	ug/L	500	**10500**	--	**2830**	--	**2768**	--	**8000**	J	**10700**	--	**2270**	--	**2269**	--	**8070**	--	**4452**	--	**28**	--	**37.8**	--	**26.26**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	5	U	**0.542**	--	--	--	--	--	5	U	0.5	U	5	U	**0.472**	J	--	--	5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	**147**	--	5	U	**0.628**	J	**50**	--	**136**	--	5	U	**2.819**	--	5	U	**0.39**	J	10	U	5	U	**0.302**	J
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	5	U	0.5	U	--	--	--	--	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	3.6	UJ	5	U	0.5	U	5.1	UJ	4.6	UJ	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	15	UJ	0.5	U	--	--	--	--	15	UJ	0.5	U	15	UJ	0.5	U	--	--	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	3.8	UJ	15	UJ	0.5	U	--	--	3.8	UJ	15	UJ	0.5	U	15	UJ	0.5	U	--	--	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	**1.5**	J	0.5	U	--	--	--	--	**1.7**	J	0.5	U	**3.5**	J	0.5	U	--	--	**4.2**	J	**2.779**	--
Vanadium (Total)	7440-62-2	ug/L	50	**255**	--	**2**	J	**0.753**	--	**71**	--	**176**	--	**1.6**	J	**2.029**	--	**8.6**	J	**0.137**	J	**20**	J	**7.4**	J	**3.72**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	25	U	**20.78**	J	--	--	--	--	25	U	5	U	25	U	7.086	U	--	--	25	U	16	U
Zinc (Total)	7440-66-6	ug/L	5000	**357**	J	25	U	**17.62**	J	**100**	--	**241**	J	25	U	**26.83**	J	**11**	J	18	U	10	UJ	25	U	14	U

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-125C		MW-125C		MW-125C		MW-125C		MW-126B		MW-126B		MW-126B		MW-126B		MW-126B		MW-126B		MW-126B	
			Sample Date	8/27/1991 0:00		12/4/1992 0:00		5/19/2010 11:20		6/11/2014 14:00		8/15/1991 0:00		5/20/2010 9:50		5/25/2011 15:38		6/13/2012 9:50		6/4/2013 0:00		6/4/2013 10:35		6/10/2014 15:50	
			Field Sample ID	MW125C-H2		MW125C-H3		MW-125C-05192010		MW-125C-HS-06112014		MW126B-H2		MW-126B-05202010		MW-126B-05252011		MW-126B-06132012		DUP-GW-06042013#1		MW-126B-06042013		MW-126B-06102014	
			Well Group	C		C		C		C		M		M		M		M		M		M		M	
			HydroStratZone(s)	SBR		SBR		SBR		SBR		MOB		MOB		MOB		MOB		MOB		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action**																						
Metals			**Level**																						
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	--	--	250	UJ	**3.23**	J	--	--	250	UJ	250	U	10	U	10	U	10	U	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**4600**	--	**790**	J	250	UJ	**25.8**	J	**22000**	--	250	UJ	**38.5**	J	31.2	U	10	UJ	10	U	3.73	UJ
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	--	--	15	U	**1.359**	J	--	--	15	U	15	U	0.862	U	0.5	U	0.5	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	--	--	16.9	U	15	U	2	U	9.1	UJ	15	U	15	U	0.5	U	0.5	U	0.5	U	1	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	--	--	15	U	**1.503**	--	--	--	15	U	15	U	0.845	U	0.5	U	0.5	U	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	--	--	**8**	J	**5.6**	J	**1.613**	--	--	--	15	U	15	U	0.58	U	0.5	U	0.5	U	0.5	U
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	--	--	**589**	--	**1085**	--	--	--	**426**	--	**401**	J	**471**	--	**563.2**	--	**565.8**	--	**562**	--
Barium (Total)	7440-39-3	ug/L	1000	**240**	J	**420**	--	**598**	--	**1185**	--	**770**	--	**412**	--	**411**	J	**428.4**	--	**589.2**	--	**599**	--	**536.2**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	--	--	5	U	0.5	U	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	--	--	0.4	U	5	U	0.5	U	**1**	J	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	--	--	5	U	0.5	U	--	--	5	U	5	U	0.5	U	0.5	U	**0.056**	J	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	--	--	1.6	UJ	5	U	0.5	U	--	--	5	U	5	U	**0.051**	J	**0.101**	J	**0.078**	J	0.2	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	--	--	5	U	0.5	U	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	**0.618**	--
Chromium (Total)	7440-47-3	ug/L	100	9.4	U	**10.1**	J	5	U	0.5	UJ	**34**	--	5	U	5	U	**0.808**	--	0.5	U	**0.21**	J	0.57	U
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	--	--	5	UJ	0.5	U	--	--	5	UJ	5	U	**0.121**	J	**0.278**	J	**0.248**	J	**0.158**	J
Cobalt (Total)	7440-48-4	ug/L	10	--	--	2.7	U	5	UJ	0.5	U	**10**	--	5	UJ	5	U	**0.154**	J	**0.258**	J	**0.239**	J	**0.26**	J
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	--	--	10	U	**1.053**	--	--	--	10	U	10	U	1.063	U	**1.787**	J	1.114	U	1.3	U
Copper (Total)	7440-50-8	ug/L	1300	--	--	7.8	UJ	10	U	**61.32**	--	**10**	--	10	U	10	U	1.042	U	**3.205**	--	1.069	U	0.73	U
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	--	--	125	U	**716**	--	--	--	125	UJ	125	U	50	U	50	U	50	U	**16.6**	J
Iron (Total)	7439-89-6	ug/L	--	**5900**	--	**1390**	--	**360**	--	**923**	--	**17000**	--	**25.9**	J	**42.5**	J	**49.1**	J	50	U	50	U	50	U
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	--	--	15	U	0.5	U	--	--	15	U	15	U	0.5	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**6.1**	--	13.7	U	15	U	**0.171**	J	**10**	--	15	U	15	U	0.5	U	0.5	U	0.5	U	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	--	--	**279**	--	**374.8**	--	--	--	**55.7**	--	**3.9**	J	39.14	U	**659.7**	--	**654.5**	--	**1190**	--
Manganese (Total)	7439-96-5	ug/L	500	**310**	--	**249**	--	**280**	--	**407.6**	--	**320**	--	**80**	--	19.2	UJ	**57.74**	--	**702.2**	--	**679.9**	--	**1138**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	--	--	5	U	**0.524**	--	--	--	5	U	5	U	0.904	U	**2.329**	J	1.322	U	**3.272**	--
Nickel (Total)	7440-02-0	ug/L	100	5	UJ	**11**	--	5	U	**0.249**	J	21	U	5	U	5	U	0.904	U	**1.269**	J	**1.285**	--	**4.2**	J
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	--	--	5	U	0.5	U	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	--	--	2.5	UJ	5	U	0.5	U	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	0.4	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	--	--	15	UJ	0.5	U	--	--	15	U	15	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	--	--	3.8	U	15	UJ	0.5	U	--	--	15	U	15	U	0.5	U	0.5	U	0.58	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	--	--	5	UJ	**0.189**	J	--	--	**1.6**	J	5	U	0.5	U	**0.305**	J	**0.236**	J	**0.477**	J
Vanadium (Total)	7440-62-2	ug/L	50	**20**	J	4.7	UJ	5	UJ	**0.289**	J	**30**	J	5	UJ	5	U	0.62	U	**0.427**	J	**0.191**	J	**0.46**	J
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	--	--	25	U	**24.6**	--	--	--	25	U	25	U	13.49	U	15.56	U	14.26	U	14	U
Zinc (Total)	7440-66-6	ug/L	5000	30	UJ	29.9	UJ	25	U	**18.64**	J	**67**	--	**5.5**	J	25	U	18.85	U	16.95	U	5.638	U	11	U

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL)
and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-126C		MW-126C		MW-126C		MW-126C		MW-126C		MW-126C		MW-127B		MW-127B		MW-127B		MW-127B		MW-127B	
Sample Date				8/27/1991 0:00		5/20/2010 11:50		5/26/2011 10:42		6/13/2012 11:10		6/4/2013 12:10		6/10/2014 15:25		8/13/1991 0:00		12/2/1992 0:00		5/19/2010 16:10		6/11/2014 0:00		6/11/2014 10:30	
Field Sample ID				MW126C-H2		MW-126C-05202010		MW-126C-05262011		MW-126C-06132012		MW-126C-06042013		MW-126C-HS-06102014		MW127B-H2		MW127B-H3A		MW-127B-05192010		DUP-GW-06112014-#2		MW-127B-06112014	
Well Group				B		B		B		B		B		B		C		C		C		C		C	
HydroStratZone(s)				SBR		SBR		SBR		SBR		SBR		SBR		MOB		MOB		MOB		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action**																						
Metals			**Level**																						
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	250	UJ	250	U	11.2	U	10	U	10	U	--	--	--	--	250	UJ	**2.43**	J	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**12000**	J	**192**	J	**10.7**	J	**465**	--	**48.4**	--	**34**	J	**110000**	--	**274**	--	**163**	J	**5.65**	J	**6.36**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	15	U	15	U	0.592	U	0.5	U	2	U	--	--	--	--	15	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	12	UJ	15	U	15	U	0.5	U	0.5	U	2	U	--	--	16.9	U	15	U	2	U	**0.35**	J
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	15	U	15	U	0.883	U	0.5	U	**0.167**	J	--	--	--	--	15	U	1.554	U	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	**3**	J	15	U	15	U	0.835	U	0.5	U	**0.197**	J	**7**	J	1.9	U	15	U	0.5	U	0.5	U
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	**360**	--	**256**	--	**403**	--	**418.1**	--	**398.2**	--	--	--	--	--	**165**	--	**9.231**	--	**193.5**	--
Barium (Total)	7440-39-3	ug/L	1000	**670**	--	**369**	--	**255**	--	**408.3**	--	**430.5**	--	**377**	--	**2900**	J	**178**	--	**163**	--	**194.4**	--	**186.6**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	--	--	--	--	5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**2**	J	5	U	5	U	0.5	U	0.5	U	0.5	U	**9.7**	J	0.4	U	5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	--	--	--	--	5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	--	--	2	U	5	U	0.5	U	0.2	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	--	--	--	--	5	U	0.5	U	**0.208**	J
Chromium (Total)	7440-47-3	ug/L	100	21	U	5	U	5	U	0.971	U	0.5	U	**0.371**	J	**170**	--	4.5	UJ	5	U	**0.223**	J	**0.34**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	5	UJ	5	U	0.5	U	0.5	U	0.5	U	--	--	--	--	5	UJ	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**24**	--	5	UJ	5	U	**0.415**	J	0.5	U	0.5	U	**110**	J	2.7	U	5	UJ	0.5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	**2.4**	J	10	U	1.103	U	1.256	UJ	1.7	U	--	--	--	--	10	U	**0.622**	--	**1.31**	--
Copper (Total)	7440-50-8	ug/L	1300	**44**	--	**1.8**	J	**1.5**	J	1.379	U	0.525	U	0.5	U	**220**	J	3.5	UJ	10	U	0.5	U	**0.33**	J
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	**17.4**	J	76.6	UJ	**18.2**	J	50	U	50	U	--	--	--	--	125	UJ	132	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**17000**	J	**213**	J	125	UJ	**474**	J	50	U	**32.4**	J	**120000**	--	**366**	J	**204**	J	50	UJ	50	U
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	15	U	15	U	0.5	U	0.5	U	0.5	U	--	--	--	--	15	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**12**	J	15	U	15	U	**0.476**	J	0.5	U	0.5	U	**36**	J	5.1	U	15	U	0.5	U	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	**0.46**	J	8	U	1.013	U	0.693	U	0.51	U	--	--	--	--	**0.25**	J	--	R	**0.382**	J
Manganese (Total)	7439-96-5	ug/L	500	**590**	--	**8.9**	--	8	U	18.01	U	**0.602**	--	**2.27**	--	**8000**	J	**12.5**	--	**8.5**	--	**0.421**	J	0.3	U
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	5	U	5	U	0.529	U	1.14	U	0.5	U	--	--	--	--	5	U	**0.17**	J	0.285	U
Nickel (Total)	7440-02-0	ug/L	100	15	U	5	U	5	U	0.832	U	0.5	U	0.5	UJ	**190**	J	5.4	U	5	U	0.5	U	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	--	--	--	--	5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	7.3	UJ	2.5	UJ	5	U	0.5	U	0.4	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	15	U	15	U	0.5	U	0.5	U	0.5	U	--	--	--	--	15	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	--	--	15	U	15	U	0.5	U	0.5	U	0.5	U	--	--	3.8	U	15	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	**1.1**	J	1.1	UJ	**1.005**	--	**0.423**	J	**0.822**	--	--	--	--	--	**1.4**	J	**1.663**	J	**0.965**	--
Vanadium (Total)	7440-62-2	ug/L	50	**37**	--	**2.4**	J	5	UJ	**2.183**	--	**0.443**	J	**0.777**	--	**270**	J	2.8	U	**1.5**	J	**1.063**	--	**0.98**	J
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	25	U	25	U	12.61	U	10.92	U	13	U	--	--	--	--	25	U	**17.86**	--	**22.2**	--
Zinc (Total)	7440-66-6	ug/L	5000	**54**	J	25	U	25	U	17.58	U	13.8	U	15	U	**480**	--	27.8	UJ	25	U	**19.57**	J	**25.96**	J

Notes:
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Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-127C		MW-127C		MW-127C		MW-127C		MW-127C		MW-128		MW-128		MW-128		MW-128		MW-204A		MW-204A		MW-204A	
			Sample Date	8/13/1991 0:00		12/2/1992 0:00		4/26/2005 0:00		5/13/2010 18:55		6/11/2014 9:15		8/29/1991 0:00		5/19/2010 16:30		6/11/2014 0:00		6/11/2014 9:45		12/1/1992 0:00		5/15/2010 13:00		6/9/2014 13:20	
			Field Sample ID	MW127C-H2		MW127C-H3A		MW-127C_0405		MW-127C-05132010		MW-127C-06112014		MW128-H2		MW-128-05192010		DUP-GW-06112014-#1		MW-128-06112014		MW204A-H3A		MW-204A-05152010		MW-204A-06092014	
			Well Group	R		R		R		R		R		C		C		C		C		C		C		C	
			HydroStratZone(s)	SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	**928**	--	--	--	500	UJ	**27.6**	--	--	--	250	UJ	10	U	10	U	79.4	U	250	UJ	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**23000**	--	**1140**	--	**1550**	--	**1190**	--	**321**	J	**390**	J	**373**	--	**25**	--	**22**	--	**53000**	--	**417**	--	**49**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	16.9	U	--	--	15	U	--	R	--	--	15	U	2	U	2	U	14.8	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	39	U	16.9	U	60	U	15	U	**0.17**	J	--	--	15	U	2	U	2	U	14.8	UJ	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	1.9	U	--	--	15	U	**0.493**	J	--	--	15	U	0.5	U	**1.669**	--	2.2	U	15	UJ	**0.414**	J
Arsenic (Total)	7440-38-2	ug/L	10	**3**	J	1.9	UJ	10	U	**5**	J	0.5	U	--	--	**5.3**	J	**1.83**	--	**1.66**	--	8.3	UJ	15	UJ	**0.393**	J
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	**120**	--	--	--	**52.7**	--	**69**	--	--	--	**10.1**	--	**197.5**	--	**9.744**	--	**259**	--	**105**	--	**148.2**	--
Barium (Total)	7440-39-3	ug/L	1000	**250**	--	**99.8**	--	**80.1**	--	**64.2**	--	**76.94**	--	**24**	J	**17.7**	--	**10.7**	--	**10.04**	--	**952**	J	**101**	--	**150.2**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	0.4	U	--	--	5	U	0.5	U	--	--	5	U	0.5	U	0.5	U	0.3	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**2.5**	J	0.4	U	5	U	5	U	**0.06**	J	--	--	5	U	1	U	1	U	**5.4**	--	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	1	U	--	--	5	U	0.5	U	--	--	5	U	0.5	U	0.5	U	1.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	2.7	UJ	1.2	UJ	5	U	5	U	0.2	U	--	--	5	U	0.4	U	0.4	U	1.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	4.5	UJ	--	--	5	U	**0.32**	J	--	--	5	U	**0.529**	--	0.5	U	2.6	U	**0.63**	J	**0.749**	--
Chromium (Total)	7440-47-3	ug/L	100	**49**	--	4.5	UJ	10	U	**0.83**	J	**0.93**	J	--	--	5	U	**0.43**	J	**0.43**	J	**79.3**	J	**1.4**	J	0.802	U
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	2.7	U	--	--	5	U	0.5	U	--	--	5	UJ	0.5	U	0.5	U	1.3	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**19**	--	2.7	U	50	U	5	U	**0.48**	J	--	--	5	UJ	**0.61**	J	**0.55**	J	**38.7**	--	5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	3.5	UJ	--	--	10	U	--	R	--	--	**2.7**	J	**0.563**	--	0.5	U	1.9	UJ	10	U	0.5	U
Copper (Total)	7440-50-8	ug/L	1300	33	U	3.5	UJ	20	U	**4.2**	J	**2.2**	J	--	--	**3.2**	J	**1.5**	J	**1.58**	J	**115**	--	10	U	1	U
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	**2240**	J	--	--	125	U	**27.4**	J	--	--	**32.4**	J	19.1	U	--	R	46.3	U	125	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**25000**	--	**3060**	J	**1490**	--	**936**	--	**219**	J	**740**	J	**370**	J	100	U	100	U	**71500**	--	**394**	--	**85.1**	--
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	5.4	U	--	--	15	U	0.5	U	--	--	15	U	0.5	U	0.5	U	3.4	UJ	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**11**	J	4	U	5	U	15	U	**1.69**	J	--	--	15	U	**0.29**	J	**0.16**	J	**25.6**	--	15	UJ	**0.272**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	**430**	--	--	--	**0.77**	J	**1.961**	--	--	--	**110**	--	**0.236**	J	**133.4**	--	**310**	--	**0.46**	J	**8.131**	--
Manganese (Total)	7439-96-5	ug/L	500	**1100**	J	**369**	--	**144**	--	**28.5**	--	**20.49**	--	**83**	--	**121**	--	**152.7**	--	**147**	--	**2690**	--	**13.5**	--	**12.79**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	5.4	U	--	--	5	U	**0.163**	J	--	--	5	U	0.5	U	0.5	U	2.6	U	5	U	2.4	U
Nickel (Total)	7440-02-0	ug/L	100	**32**	--	5.4	U	40	U	5	U	0.5	U	--	--	5	U	**3.45**	--	**3.33**	--	**80.9**	--	5	U	0.5	UJ
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	**3.4**	J	--	--	5	U	0.5	U	--	--	5	U	0.5	U	0.5	U	3.6	UJ	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	4.4	UJ	2.5	UJ	10	U	5	U	0.4	U	--	--	5	U	0.8	U	0.8	U	3.6	UJ	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	3.8	U	--	--	15	U	0.5	U	--	--	15	U	0.5	U	0.5	U	1.3	UJ	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	--	--	**3.8**	--	10	U	15	U	0.5	U	--	--	15	U	1	U	1	U	1.3	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	7.8	U	--	--	**2.4**	J	**3.09**	--	--	--	**5.9**	J	**1.118**	--	**1.796**	--	**3.2**	--	**5.9**	J	**5.437**	--
Vanadium (Total)	7440-62-2	ug/L	50	**59**	--	5.7	U	50	U	**4.9**	J	**3.38**	J	7.3	U	**6.2**	J	**2.05**	J	**1.97**	J	**174**	--	**6.2**	J	**5.065**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	**32.2**	J	--	--	25	U	**29.34**	--	--	--	25	U	**5.113**	--	**15.95**	--	26	UJ	25	U	29	U
Zinc (Total)	7440-66-6	ug/L	5000	**92**	--	**46**	J	20	U	**5.1**	J	**35.07**	J	13	UJ	25	U	**22.04**	--	**22.06**	--	**217**	J	25	U	33	U

Notes:

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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
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SOB = Shallow Overburden
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DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-204B		MW-204B		MW-204B		MW-205B		MW-205B		MW-205B	
Sample Date				12/1/1992 0:00		5/17/2010 13:40		6/9/2014 12:55		12/1/1992 0:00		5/14/2010 10:35		6/12/2014 9:25	
Field Sample ID				MW204B-H3A		MW-204B-05172010		MW-204B-06092014		MW205B-H3A		MW-205B-05142010		MW-205B-06122014	
Well Group				C		C		C		C		C		C	
HydroStratZone(s)				DOB		DOB		DOB		MOB		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action**												
Metals			**Level**												
Aluminum (Dissolved)	7429-90-5	ug/L	--	117	U	250	UJ	12	U	77.2	U	500	UJ	**2.12**	J
Aluminum (Total)	7429-90-5	ug/L	--	**27300**	--	**24.3**	J	5.36	UJ	**14000**	--	500	UJ	4.27	UJ
Antimony (Dissolved)	7440-36-0	ug/L	--	14.8	U	15	U	2	U	14.8	U	15	U	1	U
Antimony (Total)	7440-36-0	ug/L	6	14.8	UJ	15	U	2.1	U	15.4	UJ	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	2.2	U	15	UJ	**0.339**	J	2.2	U	15	U	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	4.3	UJ	15	UJ	**0.272**	J	2.2	U	15	U	**0.444**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**195**	--	**262**	--	**293.7**	--	**204**	--	**277**	--	**298.4**	--
Barium (Total)	7440-39-3	ug/L	1000	**818**	J	**263**	--	**280.6**	--	**441**	J	**271**	--	**331.1**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.3	U	5	U	0.5	U	0.3	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**2.6**	--	5	U	0.5	U	0.77	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	1.5	U	5	U	0.5	U	1.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	1.5	U	5	U	0.5	U	1.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	2.6	U	5	U	0.55	U	2.6	U	5	U	**0.73**	J
Chromium (Total)	7440-47-3	ug/L	100	**38.8**	J	5	U	0.5	U	**20.9**	J	5	U	**0.583**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	1.3	U	5	U	0.5	U	1.3	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**22.2**	--	5	U	0.5	U	**11.3**	--	5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	1.9	UJ	10	U	0.5	U	10.8	UJ	10	U	0.69	UJ
Copper (Total)	7440-50-8	ug/L	1300	52.3	UJ	10	U	1.1	U	28.2	UJ	10	U	0.6	U
Iron (Dissolved)	7439-89-6	ug/L	--	**126**	--	125	U	**13.7**	J	35.4	U	125	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**37900**	--	125	U	**13.7**	J	**19300**	--	125	U	**21.9**	J
Lead (Dissolved)	7439-92-1	ug/L	--	3.4	UJ	15	UJ	0.5	U	3.9	UJ	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**17**	--	15	UJ	0.5	U	**11.7**	--	15	U	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	3.7	U	8	U	**6**	J	3.3	U	8	U	**0.45**	J
Manganese (Total)	7439-96-5	ug/L	500	**1730**	--	**7.3**	J	**2.7**	J	**688**	--	8	U	**0.561**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	2.6	U	5	U	0.5	U	2.6	U	5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	**40.3**	--	5	U	**0.12**	J	**21.8**	--	5	U	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	3.6	UJ	5	U	0.5	U	3.6	UJ	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	3.6	UJ	5	U	0.5	U	3.6	UJ	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	1.3	U	15	UJ	0.5	U	1.3	UJ	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	1.3	U	15	UJ	0.5	U	1.3	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**3.9**	--	**4**	J	**4.246**	--	**5.2**	--	**4.6**	J	**3.77**	--
Vanadium (Total)	7440-62-2	ug/L	50	**88.8**	--	**4.2**	J	**4.139**	--	**40**	--	**4**	J	**4.455**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	53.6	UJ	25	U	82	U	37.9	UJ	25	U	15	U
Zinc (Total)	7440-66-6	ug/L	5000	**119**	J	25	U	30	U	**82.9**	J	25	U	21	U

Notes:

U = Analyte not detected above the laboratory reporting limit
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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
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SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-209A		MW-209A		MW-209A		MW-209A		MW-209A		MW-209A		MW-209A		MW-209A		MW-209A	
			Sample Date	12/1/1992 0:00		2/22/2005 0:00		4/26/2005 0:00		6/28/2005 0:00		5/18/2010 9:55		5/26/2011 10:30		6/14/2012 17:00		6/4/2013 15:05		6/10/2014 8:50	
			Field Sample ID	MW209A-H3A		MW209A_0205		MW209A_0405		MW209A_0605		MW-209A-05182010		MW-209A-05262011		MW-209A-06142012		MW-209A-06042013		MW-209A-06102014	
			Well Group	B		B		B		B		B		B		B		B		B	
			HydroStratZone(s)	SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																		
Metals																					
Aluminum (Dissolved)	7429-90-5	ug/L	--	47.5	U	--	--	--	--	--	--	250	UJ	250	U	10	U	10	U	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**1870**	--	**134**	--	100	U	100	U	250	UJ	250	U	**15.4**	--	**12.6**	--	**160**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	14.8	U	--	--	--	--	--	--	15	U	15	U	0.688	U	0.5	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	14.8	UJ	60	U	60	U	60	U	15	U	15	U	0.887	U	0.5	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	2.2	UJ	--	--	--	--	--	--	15	UJ	15	U	0.728	U	**0.231**	J	**0.227**	J
Arsenic (Total)	7440-38-2	ug/L	10	0	R	10	U	10	U	10	U	15	UJ	15	U	2.37	U	**0.199**	J	**0.431**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**252**	--	--	--	--	--	--	--	**257**	--	**263**	--	**224.4**	--	**221.3**	--	**227.9**	--
Barium (Total)	7440-39-3	ug/L	1000	**289**	J	**520**	--	**331**	--	**239**	--	**257**	--	**273**	--	**228.8**	--	**227.7**	--	**236.9**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.3	U	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.45	UJ	5	U	5	U	5	U	5	U	5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	1.5	U	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	1.5	U	5	U	5	U	5	U	5	U	5	U	0.5	U	0.5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	2.6	U	--	--	--	--	--	--	5	U	5	U	0.638	U	0.567	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**6.6**	J	10	U	10	U	10	U	5	U	5	U	0.73	U	0.552	U	**0.796**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	1.3	U	--	--	--	--	--	--	5	UJ	5	U	0.5	U	0.5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	1.8	UJ	50	U	50	U	50	U	5	UJ	5	U	0.5	U	0.5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	4.5	UJ	--	--	--	--	--	--	10	U	10	U	**0.609**	--	1.105	UJ	1.5	U
Copper (Total)	7440-50-8	ug/L	1300	9.5	UJ	20	U	20	U	20	U	10	U	10	U	**1.021**	--	0.5	U	1.3	U
Iron (Dissolved)	7439-89-6	ug/L	--	38.4	U	--	--	--	--	--	--	125	U	125	U	50	UJ	50	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**3310**	--	**126**	--	100	U	100	U	125	U	125	U	**37.2**	J	50	U	**154**	--
Lead (Dissolved)	7439-92-1	ug/L	--	2.8	UJ	--	--	--	--	--	--	15	UJ	15	U	0.5	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	7.5	U	5	U	5	U	5	U	15	UJ	15	U	0.5	U	0.5	U	**0.356**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**14.9**	--	--	--	--	--	--	--	8	U	8	U	**0.345**	J	**0.7**	--	**5.175**	--
Manganese (Total)	7439-96-5	ug/L	500	**62.7**	--	10	U	10	U	10	U	**0.62**	J	8	U	**1.926**	--	**2.083**	--	**12.17**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	2.6	U	--	--	--	--	--	--	5	U	5	U	**0.254**	J	0.698	U	0.72	U
Nickel (Total)	7440-02-0	ug/L	100	**3.5**	--	40	U	40	U	40	U	5	U	5	U	**0.238**	J	0.176	U	**0.42**	J
Silver (Dissolved)	7440-22-4	ug/L	--	3.6	UJ	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	3.6	UJ	10	U	10	U	10	U	5	U	5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	1.3	UJ	--	--	--	--	--	--	15	UJ	15	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	1.3	U	10	U	10	U	10	U	15	UJ	15	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	2.5	U	--	--	--	--	--	--	**2.3**	J	5	U	**0.961**	J	**0.754**	--	**0.756**	--
Vanadium (Total)	7440-62-2	ug/L	50	**5**	--	50	U	50	U	50	U	**2.4**	J	5	U	**0.823**	J	**0.754**	J	**1.297**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	75.2	UJ	--	--	--	--	--	--	25	U	25	U	16.05	U	8.498	U	24	U
Zinc (Total)	7440-66-6	ug/L	5000	**85**	J	20	U	20	U	20	U	25	U	25	U	20.32	U	18.96	U	25	U

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-209B		MW-209B		MW-209B		MW-209B		MW-209B		MW-413		MW-413		MW-415		MW-415		MW-415		MW-416		MW-416	
Sample Date				5/18/2010 10:30		5/26/2011 11:35		6/15/2012 7:50		6/4/2013 12:40		6/9/2014 11:20		6/29/2010 11:55		6/11/2014 10:45		5/25/2010 0:00		5/25/2010 15:50		6/11/2014 9:55		5/25/2010 11:00		6/12/2014 13:20	
Field Sample ID				MW-209B-05182010		MW-209B-05262011		MW-209B-06152012		MW-209B-06042013		MW-209B-06092014		MW-413-06292010		MW-413-HS-06112014		DUP-GW-05252010-#1		MW-415-05252010		MW-415-HS-06112014		MW-416-05252010		MW-416-HS-06122014	
Well Group				B		B		B		B		B		N		N		N		N		N		N		N	
HydroStratZone(s)				DOB		DOB		DOB		DOB		DOB		DOB		DOB		MOB		MOB		MOB		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	**3520**	--	**70.7**	J	**35**	--	10	U	**99.2**	--	250	U	**3.15**	J	250	UJ	250	UJ	**5.5**	J	250	UJ	**6.53**	J
Aluminum (Total)	7429-90-5	ug/L	--	**15300**	--	**857**	--	**1300**	--	**327**	--	**300**	J	250	U	**10.3**	J	250	UJ	250	UJ	**41**	J	**182**	J	**37.8**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	15	U	0.5	U	0.5	U	2	U	15	U	**1.698**	J	15	U	15	U	**1.956**	J	15	U	1	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	15	U	0.802	U	0.5	U	2	U	15	U	**1.2**	J	15	U	15	U	**2.85**	--	15	U	**6.904**	--
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	15	U	0.851	U	0.5	U	0.5	U	**8.3**	J	**5.115**	--	15	UJ	15	U	**2.779**	--	15	UJ	1.2	U
Arsenic (Total)	7440-38-2	ug/L	10	**5.9**	J	15	U	5.081	U	0.5	U	0.5	U	**6.5**	J	**5.56**	--	15	U	15	U	**9.65**	--	15	UJ	**1.922**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**175**	--	**87.8**	--	**177.2**	--	**149.2**	--	**133.2**	--	**607**	--	**675**	--	**247**	--	**245**	--	**90.4**	--	**83**	--	**44.49**	--
Barium (Total)	7440-39-3	ug/L	1000	**654**	--	**119**	--	**228.4**	--	**157.8**	--	**142.8**	--	**608**	--	**735.5**	--	**247**	--	**244**	--	**102.5**	--	**85**	--	**60.64**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	**0.44**	J	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**2.1**	J	5	U	**0.165**	J	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	**0.06**	J	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	**0.071**	J	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	5	U	**0.163**	J	0.5	U	0.5	U	5	U	**0.06**	J	5	U	5	U	**0.32**	--	5	U	**0.369**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	**4**	J	5	U	**0.345**	J	0.577	U	0.53	U	**4.3**	J	**1.739**	--	**11.6**	--	**11.8**	--	**1.567**	--	5	U	**0.39**	J
Chromium (Total)	7440-47-3	ug/L	100	**21.1**	--	**1.3**	J	**1.918**	--	**1.09**	--	0.638	U	**4.6**	J	**2.09**	J	**12.3**	--	**12**	--	**2.98**	J	5	U	**0.222**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	**1.8**	J	5	U	**0.852**	--	0.5	U	**0.139**	J	5	UJ	**0.874**	--	5	U	5	U	**2.56**	--	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**9.5**	--	5	U	**1.753**	--	**0.308**	J	**0.17**	J	5	UJ	**1.01**	--	5	U	5	U	**3.62**	--	5	U	**0.366**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	10	U	**1.279**	--	**1.209**	J	2.4	U	10	UJ	**1.005**	--	10	U	10	U	**1.404**	--	10	U	**3.3**	J
Copper (Total)	7440-50-8	ug/L	1300	**27.9**	--	10	U	**5.276**	--	**2.193**	--	0.94	U	**1.5**	J	**1.17**	--	10	U	**1.8**	J	**3.38**	--	10	U	**2.091**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**2650**	--	**68.2**	J	**24.1**	J	50	U	**204**	--	**30700**	--	**39800**	--	**21700**	--	**21900**	--	**1920**	--	**1300**	--	50	U
Iron (Total)	7439-89-6	ug/L	--	**14200**	--	**779**	--	**1100**	--	**389**	--	**261**	--	**30500**	--	**42100**	--	**21800**	--	**21800**	--	**7280**	--	**1440**	--	**405**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	UJ	15	U	0.5	U	0.5	U	**0.504**	--	15	U	0.5	U	15	UJ	15	UJ	0.5	U	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**18.7**	--	15	U	**2.506**	--	**0.72**	--	**0.598**	--	15	U	**0.11**	J	15	UJ	15	UJ	**0.37**	J	15	UJ	**0.287**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**581**	--	**8.2**	--	**450.1**	--	2.077	U	**19**	J	**6100**	--	**8360**	--	**5020**	--	**5030**	--	**1273**	--	**949**	--	**37.48**	--
Manganese (Total)	7439-96-5	ug/L	500	**705**	--	**40.5**	--	**507**	--	**26.85**	--	**16.69**		**6010**	--	**9408**	--	**5020**	--	**5000**	--	**1543**	--	**929**	--	**285.9**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	**6.6**	--	5	U	**2.156**	--	0.789	U	0.74	U	5	U	**0.993**	--	5	U	5	U	**8.258**	--	5	U	**1**	J
Nickel (Total)	7440-02-0	ug/L	100	**27.8**	--	**2.2**	J	**5.091**	--	**1.018**	--	**0.7**	J	5	U	**1.43**	--	5	U	5	U	**8.79**	--	6.4	U	**0.35**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	5	U	0.5	U	0.5	U	0.5	U	**1.6**	J	0.5	U	5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	5	U	0.5	U	0.5	U	0.5	U	**1.7**	J	0.4	U	5	U	5	U	**0.12**	J	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	15	U	0.5	U	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	**4.4**	J	0.5	U	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	15	U	0.5	U	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	**0.06**	J	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**8.4**	J	5	U	**0.278**	J	**0.274**	J	**0.553**	--	**2.9**	J	**0.788**	--	**6.2**	J	**6.4**	J	**0.304**	J	**9**	J	**11.09**	--
Vanadium (Total)	7440-62-2	ug/L	50	**30.6**	--	5	U	**2.353**	--	**0.859**	--	**0.83**	--	**3**	J	**1.35**	J	**6.6**	J	**6.3**	J	**4.71**	J	**10**	J	**18.68**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**14.9**	J	25	U	32.39	U	12.37	U	23	U	25	U	**32.61**	J	25	U	25	U	**47.67**	--	25	U	27	U
Zinc (Total)	7440-66-6	ug/L	5000	**68.8**	--	**6.6**	J	39.98	U	17.94	U	20	U	25	U	**22.4**	J	25	U	25	U	**44.23**	J	25	U	17.92	U

Notes:

U = Analyte not detected above the laboratory reporting limit
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R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-501A		MW-501A		MW-501B		MW-501B		MW-501C		MW-501C		MW-502		MW-502		
			Sample Date	5/21/2010 10:50		6/11/2014 16:00		5/24/2010 10:30		6/11/2014 16:15		5/21/2010 10:20		6/11/2014 13:25		5/20/2010 10:55		6/11/2014 9:15		
			Field Sample ID	MW-501A-05212010		MW-501A-06112014		MW-501B-05242010		MW-501B-06112014		MW-501C-05212010		MW-501C-06112014		MW-502-05202010		MW-502-HS-06112014		
			Well Group	C		C		C		C		C		C		R		R		
			HydroStratZone(s)	SBR		SBR		MOB		MOB		SOB		SOB		DOB		DOB		
Analyte	**CAS No.**	**Unit**	**Action Level**																	
Metals																				
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	U	**4.98**	J	250	UJ	**14.4**	--	250	U	**3.08**	J	250	UJ	**2.24**	J	
Aluminum (Total)	7429-90-5	ug/L	--	**261**	--	**95.3**	J	**4280**	--	**3070**	J	250	U	**7.78**	J	**2790**	--	**7740**	J	
Antimony (Dissolved)	7440-36-0	ug/L	--	15	UJ	2	U	15	U	2	U	15	UJ	2	U	15	U	2	U	
Antimony (Total)	7440-36-0	ug/L	6	15	UJ	2	U	15	U	2	U	15	UJ	2	U	15	U	**0.15**	J	
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**2.231**	--	15	UJ	**0.375**	J	15	UJ	**0.313**	J	15	U	**1.669**	--	
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**2.221**	--	15	UJ	**1.143**	--	15	UJ	**0.466**	J	**4.6**	J	**4.01**	--	
Barium (Dissolved)	7440-39-3	ug/L	--	**150**	--	**162.3**	--	**301**	--	**305.8**	--	**43.2**	J	**37.06**	--	**1030**	--	**1422**	--	
Barium (Total)	7440-39-3	ug/L	1000	**156**	--	**163.8**	--	**399**	--	**393.1**	--	**35.3**	J	**38.42**	--	**1070**	--	**1621**	--	
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	**0.189**	J	5	U	0.5	U	5	U	**0.46**	J	
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.11**	J	
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.945**	--	5	U	**0.772**	--	5	U	**0.245**	J	5	U	0.5	U	
Chromium (Total)	7440-47-3	ug/L	100	5	U	**1.25**	J	**6.6**	--	**4.916**	J	5	U	**0.283**	J	**5.6**	--	**11.86**	J	
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	**0.223**	J	5	UJ	**1.071**	--	
Cobalt (Total)	7440-48-4	ug/L	10	5	U	0.5	U	5	U	**2.279**	--	5	U	**0.198**	J	**2.4**	J	**6.72**	--	
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	0.967	U	10	U	**1.256**	--	10	U	0.777	U	10	U	**1.017**	--	
Copper (Total)	7440-50-8	ug/L	1300	10	U	0.5	U	**7.2**	J	**4.206**	--	10	U	0.5	U	**5.5**	J	**11.8**	--	
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	50	U	125	U	**16.7**	J	**9490**	--	**18600**	--	**4640**	J	**11500**	--	
Iron (Total)	7439-89-6	ug/L	--	**273**	--	**107**	J	**4970**	--	**3540**	J	**10100**	--	**20600**	J	**8130**	J	**23100**	--	
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	
Lead (Total)	7439-92-1	ug/L	15	15	U	0.5	UJ	15	UJ	**1.636**	J	15	U	0.5	UJ	15	U	**5.35**	J	
Manganese (Dissolved)	7439-96-5	ug/L	--	**0.32**	J	**0.274**	J	**0.64**	J	**1.162**	--	**873**	--	**1325**	--	**1710**	--	**2085**	--	
Manganese (Total)	7439-96-5	ug/L	500	**7.1**	J	**3.571**	--	**135**	--	**122.3**	--	**954**	--	**1446**	--	**1800**	--	**2622**	--	
Nickel (Dissolved)	7440-02-0	ug/L	--	5	UJ	0.5	U	5	UJ	**0.286**	J	5	UJ	**0.425**	J	5	U	**1.096**	--	
Nickel (Total)	7440-02-0	ug/L	100	5	UJ	0.5	U	6.5	U	**4.491**	--	5	UJ	**0.135**	J	**6**	--	**13.07**	--	
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.4	U	
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	UJ	**0.065**	J	15	U	0.5	U	15	U	**0.14**	J	
Vanadium (Dissolved)	7440-62-2	ug/L	--	**19.3**	--	**18.9**	--	**6.7**	--	**5.889**	--	**1.1**	J	**0.216**	J	**1.9**	J	0.5	U	
Vanadium (Total)	7440-62-2	ug/L	50	**19.8**	--	**18.58**	--	**16.9**	--	**13.97**	--	**1.5**	J	**0.349**	J	**9.8**	--	**21.74**	--	
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	**19.17**	--	25	U	**19.82**	--	25	U	**16.6**	--	25	U	**34.28**	--	
Zinc (Total)	7440-66-6	ug/L	5000	25	U	**22.12**	J	25	U	**38.21**	J	25	U	**18.78**	J	**12.9**	J	**71.66**	J	

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Bold = Analyte detected above the laboratory reporting limit
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SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-701DR		MW-703D		MW-703D	
Sample Date				2/22/2005 0:00		4/26/2005 0:00		4/26/2005 0:00		6/28/2005 0:00		6/28/2005 0:00		5/18/2010 12:55		5/26/2011 11:20		6/15/2012 8:45		6/4/2013 11:45		6/9/2014 16:10		5/12/2010 11:15		6/9/2014 15:25	
Field Sample ID				MW701DR_0205		MW-209C_0405DUP		MW-701DR_0405		DUP01_0605		MW701DR_0605		MW-701DR-05182010		MW-701DR-05262011		MW-701DR-06152012		MW-701DR-06042013		MW-701DR-06092014		MW-703D-05122010		MW-703D-06092014	
Well Group				M		M		M		M		M		M		M		M		M		M		C		C	
HydroStratZone(s)				DBR		DBR		DBR		DBR		DBR		DBR		DBR		DBR		DBR		DBR		DOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	--	--	--	--	--	--	--	--	250	UJ	250	U	10	U	10	U	**106**	--	500	U	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**2120**	--	**1260**	--	**1310**	--	100	U	**152**	--	**128**	J	**74.3**	J	**96.7**	--	**41.8**	--	**180**	J	**1320**	--	**460**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	--	--	--	--	--	--	--	--	15	U	15	U	0.5	U	0.5	U	2	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	60	U	60	U	60	U	60	U	60	U	15	U	15	U	0.694	U	0.5	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	--	--	--	--	--	--	--	--	**5.1**	J	15	U	1.45	U	**0.987**	--	**1.1**	J	15	U	**0.165**	J
Arsenic (Total)	7440-38-2	ug/L	10	10	U	10	U	10	U	10	U	10	U	15	UJ	15	U	2.889	U	**1.003**	--	**0.973**		15	U	**0.359**	J
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	--	--	--	--	--	--	--	--	**90.3**	--	**94.4**	--	**102.5**	--	**104.4**	--	**118.1**	--	**219**	--	**205.4**	--
Barium (Total)	7440-39-3	ug/L	1000	**93.6**	--	**85.2**	--	**85.3**	--	**78.2**	--	**80.4**	--	**93**	--	**90**	--	**111.2**	--	**107.9**	--	**115.2**	--	**290**	--	**246.5**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	5	U	5	U	5	U	5	U	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	--	--	--	--	--	--	--	--	5	U	**0.64**	J	0.918	U	0.869	U	**0.864**	--	5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	10	U	10	U	10	U	10	U	10	U	5	U	5	U	1.067	U	0.921	U	0.899	U	**2.1**	J	1.022	U
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	--	--	--	--	--	--	--	--	5	UJ	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	50	U	50	U	50	U	50	U	50	U	5	UJ	5	U	0.5	U	0.5	U	0.5	U	**0.51**	J	**0.274**	J
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	--	--	--	--	--	--	--	--	10	U	10	U	**1.084**	--	0.778	UJ	0.76	U	10	U	1.5	U
Copper (Total)	7440-50-8	ug/L	1300	20	U	20	U	20	U	20	U	20	U	10	U	10	U	**1.482**	--	1.123	U	1	U	**2**	J	1.4	U
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	--	--	--	--	--	--	--	--	125	U	125	U	50	U	50	U	**67.5**	--	125	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**1470**	--	**856**	--	**888**	--	100	U	**110**	--	**115**	J	**67.3**	J	**98.7**	--	**49**	J	**120**	--	**1180**	--	**380**	--
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	--	--	--	--	--	--	--	--	15	UJ	15	U	0.5	U	0.5	U	**0.247**	J	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	5	U	5	U	5	U	5	U	5	U	15	UJ	15	U	**0.3**	J	**0.259**	J	**0.313**	J	15	UJ	**0.379**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	--	--	--	--	--	--	--	--	**1.6**	J	**1.7**	J	**0.827**	--	0.773	U	**6**	J	8	U	0.61	U
Manganese (Total)	7439-96-5	ug/L	500	**24**	--	**15.4**	--	**15.8**	--	10	U	10	U	**8.2**	--	**8.3**	--	**6.518**	--	**3.393**	--	**5.435**	J	**36.3**	--	**11.28**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	--	--	--	--	--	--	--	--	5	U	5	U	**1.645**	J	0.732	U	0.5	U	5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	40	U	40	U	40	U	40	U	40	U	5	U	5	U	**0.355**	J	0.118	U	0.5	UJ	**2.2**	J	**0.53**	J
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	10	U	10	U	10	U	10	U	10	U	5	U	5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	--	--	--	--	--	--	--	--	15	UJ	15	U	0.5	U	0.5	U	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	10	U	10	U	10	U	10	U	10	U	15	UJ	15	U	0.5	U	0.5	U	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	--	--	--	--	--	--	--	--	**7.8**	J	**8**	J	**8.343**	--	**7.479**	--	**8.664**	--	5	UJ	**1.174**	--
Vanadium (Total)	7440-62-2	ug/L	50	50	U	50	U	50	U	50	U	50	U	**8**	J	**7**	J	**8.567**	--	**8.021**	J	**7.837**	--	**4.1**	J	**2.255**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	--	--	--	--	--	--	--	--	25	U	25	U	11.6	U	13.68	U	26	U	25	U	19	U
Zinc (Total)	7440-66-6	ug/L	5000	20	U	20	U	20	U	20	U	20	U	25	U	25	U	17.91	U	21.1	U	23	U	**8.8**	J	19	U

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-703DR		MW-703DR		MW-703S		MW-703S		MW-704D		MW-704D		MW-704D		MW-704D		MW-704DR		MW-704DR		MW-704M		MW-704M	
			Sample Date	5/12/2010 18:45		6/10/2014 9:35		5/11/2010 18:15		6/10/2014 10:01		5/12/2010 0:00		5/12/2010 11:45		6/12/2014 0:00		6/12/2014 8:50		5/19/2010 16:05		6/13/2014 9:40		5/14/2010 11:25		6/12/2014 10:15	
			Field Sample ID	MW-703DR-05122010		MW-703DR-06102014		MW-703S-05112010		MW-703S-06102014		DUP-GW-05122010-#1		MW-704D-05122010		DUP-GW-06122014-#6		MW-704D-06122014		MW-704DR-05192010		MW-704DR-06132014		MW-704M-05142010		MW-704M-06122014	
			Well Group	C		C		C		C		R		R		R		R		R		R		R		R	
			HydroStratZone(s)	DBR		DBR		SOB		SOB		DOB		DOB		DOB		DOB		DBR		DBR		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action**																								
Metals			**Level**																								
Aluminum (Dissolved)	7429-90-5	ug/L	--	**29.4**	J	10	U	500	U	10	U	500	U	500	U	**5.1**	J	**3.76**	J	250	UJ	10	U	500	UJ	**6.04**	J
Aluminum (Total)	7429-90-5	ug/L	--	**659**	--	**57**	J	**325**	J	**84**	J	**44.5**	J	**127**	J	**9.43**	J	**11.8**	--	**1140**	--	17.4	U	500	UJ	**3.57**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	2	U	15	U	15	U	2	U	2	U	15	U	**3.008**	--	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	2	U	15	U	15	U	0.263	U	2	U	15	U	**19.19**	--	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**0.183**	J	15	U	**0.379**	J	15	U	15	U	**0.8**	--	**0.882**	--	15	U	0.5	U	15	U	**1.017**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**0.29**	J	15	U	**0.469**	J	15	U	15	U	**0.991**	--	**0.971**	--	**5.1**	J	**0.595**	J	15	U	**1.225**	--
Barium (Dissolved)	7440-39-3	ug/L	--	7.9	U	**7.293**	--	**226**	--	**229.4**	--	**704**	--	**692**	--	**481.6**	--	**480.9**	--	**74.1**	--	**110**	J	**591**	--	**433.5**	--
Barium (Total)	7440-39-3	ug/L	1000	12.4	U	**7.598**	--	**231**	--	**225.8**	--	**702**	--	**707**	--	**505**	--	**491.7**	--	**81.1**	--	**112.2**	--	**577**	--	**433**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	0.5	U	5	U	**0.051**	J	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	0.5	U	5	U	**0.828**	--	**0.64**	J	5	U	**0.208**	J	**0.154**	J	5	U	0.5	U	**0.51**	J	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	5	U	0.5	U	**1.1**	J	**0.951**	--	**0.61**	J	**0.86**	J	**0.164**	J	0.5	U	5	U	**0.257**	J	5	U	**0.152**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	5	U	**0.136**	J	**0.17**	J	5	UJ	**0.168**	J	5	U	**0.306**	J
Cobalt (Total)	7440-48-4	ug/L	10	5	U	0.5	U	5	U	0.5	U	5	U	5	U	**0.237**	J	**0.213**	J	5	UJ	**0.234**	J	5	U	**0.313**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	0.65	U	10	U	1.5	U	10	U	**2**	J	**0.404**	J	0.5	U	**3.7**	J	**0.86**	--	10	U	**0.482**	J
Copper (Total)	7440-50-8	ug/L	1300	10	U	0.5	U	10	U	0.67	U	10	U	10	U	**0.407**	J	**0.297**	J	**2.7**	J	1.215	U	10	U	**0.256**	J
Iron (Dissolved)	7439-89-6	ug/L	--	**35.1**	J	**22.9**	J	125	U	50	U	**471**	--	**454**	--	**404**	--	**416**	--	**776**	J	**159**	--	125	U	**313**	--
Iron (Total)	7439-89-6	ug/L	--	**540**	--	**137**	--	**386**	--	**101**	--	**558**	--	**654**	--	**488**	--	**492**	--	**1070**	J	**311**	--	**161**	--	**341**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	0.5	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	**0.283**	J	15	UJ	0.5	U	15	UJ	15	UJ	0.5	U	0.5	U	15	U	**0.279**	J	15	U	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**21.6**	--	**17.73**	--	**0.32**	J	0.5	U	**2540**	--	**2530**	--	**2087**	--	**2117**	--	**526**	--	**1059**	--	**2550**	--	**1815**	--
Manganese (Total)	7439-96-5	ug/L	500	**35.6**	--	**19.73**	--	**15.3**	--	**5.264**	--	**2570**	--	**2600**	--	**2223**	--	**2145**	--	**514**	--	**1072**	--	**2510**	--	**1755**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	5	U	**0.5**	J	**0.233**	J	5	U	**0.838**	--	5	U	0.55	U
Nickel (Total)	7440-02-0	ug/L	100	5	U	0.5	UJ	5	U	0.5	UJ	5	U	**1.1**	J	**0.262**	J	**0.293**	J	5	U	**1.118**	--	5	U	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	U	0.5	U	15	U	15	U	0.5	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	U	0.5	U	15	U	15	U	0.5	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	5	UJ	0.5	U	**3.7**	J	**3.863**	--	5	UJ	**1.1**	J	**0.204**	J	**0.211**	J	**1.1**	J	**0.168**	J	**1.1**	J	0.5	U
Vanadium (Total)	7440-62-2	ug/L	50	**1.2**	J	**0.288**	J	**4.3**	J	**3.624**	--	**1.1**	J	**1.4**	J	**0.223**	J	**0.224**	J	**4.1**	J	**0.57**	--	**1.2**	J	0.5	U
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	16	U	25	U	17	U	25	U	25	U	17	U	18	U	25	U	16	U	**9.8**	J	19	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	25	U	25	U	18	U	25	U	25	U	13.77	U	16	U	**5.4**	J	17.52	U	**11.8**	J	22	U

Notes:

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Bold = Analyte detected above the laboratory reporting limit
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SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-704R		MW-704R		MW-704S		MW-704S		MW-705D		MW-705D		MW-705DR		MW-705DR		MW-705R		MW-705R		MW-705R	
			Sample Date	5/12/2010 14:45		6/11/2014 9:50		5/13/2010 19:10		6/11/2014 10:25		5/17/2010 11:35		6/9/2014 18:15		6/7/2010 10:30		6/13/2014 9:45		5/14/2010 0:00		5/14/2010 12:05		6/11/2014 14:25	
			Field Sample ID	MW-704R-05122010		MW-704R-HS-06112014		MW-704S-05132010		MW-704S-HS-06112014		MW-705D-05172010		MW-705D-06092014		MW-705DR-06072010		MW-705DR-HS-06132014		DUP-GW-05142010-#1		MW-705R-05142010		MW-705R-HS-06112014	
			Well Group	C		C		C		C		C		C		R		R		C		C		C	
			HydroStratZone(s)	SBR		SBR		SOB		SOB		DOB		DOB		DBR		DBR		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	**200**	J	**554**	--	500	UJ	**16.3**	--	**129**	J	10	U	**31.9**	J	**143**	--	**126**	J	**91**	J	**16.4**	--
Aluminum (Total)	7429-90-5	ug/L	--	**2650**	--	**1940**	J	**327**	J	**445**	J	**29900**	--	**18000**	J	**652**	--	**387**	--	**5320**	--	**5750**	--	**466**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	**10.86**	--	15	U	2	U	15	U	2	U	15	U	2	U	15	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	**11.25**	--	15	U	1	U	15	U	2	U	15	U	2	U	15	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**3.491**	--	15	U	0.5	U	15	UJ	0.5	U	15	U	**1.3**	J	15	U	15	U	**1.146**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**4.71**	--	15	U	0.5	U	**4.5**	J	**3.844**	--	15	U	**1.6**	J	15	U	15	U	**1.37**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**338**	--	**159.9**	--	**15.3**	--	**10.35**	--	**137**	--	**178.6**	--	**21.2**	--	**20.27**	--	**129**	--	**128**	--	**91.69**	--
Barium (Total)	7440-39-3	ug/L	1000	**441**	--	**196.2**	--	**17.8**	--	**17.07**	--	**618**	--	**565**	--	**31.8**	--	**22.22**	--	**221**	--	**227**	--	**104.1**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	**0.131**	J
Beryllium (Total)	7440-41-7	ug/L	4	**0.33**	J	**0.13**	J	5	U	0.5	U	**2.3**	J	**1.356**	--	5	U	0.5	U	**1.2**	J	**1.2**	J	**0.25**	J
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.2	U	5	U	0.2	U	5	U	**0.174**	J	5	U	**0.123**	J	5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.219**	J	5	U	**0.23**	J	5	U	0.5	U	5	U	**0.968**	--	5	U	5	U	**0.32**	J
Chromium (Total)	7440-47-3	ug/L	100	**5.3**	--	**2.19**	J	5	U	**0.84**	J	**48**	--	**23.14**	--	**0.74**	J	**5.105**	--	**6.8**	--	**7.5**	--	**0.664**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	**0.112**	J	5	U	0.5	U	5	U	0.5	U	5	U	**0.286**	J	5	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**7.1**	--	**0.91**	--	5	U	**0.56**	--	**22.7**	--	**11.69**	--	5	U	**0.734**	--	**3.9**	J	**4.3**	J	**0.389**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	**1.286**	--	10	U	**1.907**	--	10	U	1.4	U	**2**	J	**3.996**	--	10	U	10	U	**1.453**	J
Copper (Total)	7440-50-8	ug/L	1300	**13**	--	**3.62**	--	10	U	**1.85**	--	**46.9**	--	**24.63**	--	**3.4**	J	**7.396**	--	**5.7**	J	**6.1**	J	0.517	UJ
Iron (Dissolved)	7439-89-6	ug/L	--	**309**	--	**75.3**	--	125	U	50	U	**164**	--	50	U	125	U	**72.1**	--	**142**	--	**107**	J	**253**	--
Iron (Total)	7439-89-6	ug/L	--	**4930**	--	**1060**	--	**337**	--	**623**	--	**33100**	--	**16600**	--	**469**	--	**428**	--	**4960**	--	**5240**	--	**592**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	**0.285**	J	15	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	**1.26**	J	15	U	**0.43**	J	20.8	U	**10.74**	--	15	UJ	**0.84**	--	15	U	15	U	**0.392**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**568**	--	**2.475**	--	**27.5**	--	**1.93**	--	**189**	--	**163.5**	--	**6.8**	J	**8.175**	--	**96.5**	--	**100**	--	**223.3**	--
Manganese (Total)	7439-96-5	ug/L	500	**1500**	--	**33.79**	--	**36.5**	--	**69.61**	--	**1400**	--	**984**	--	**17.9**	--	**19.48**	--	**371**	--	**353**	--	**251.3**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**3.347**	--	5	U	**0.463**	J	5	U	0.61	U	5	UJ	**2.702**	--	5	U	5	U	**0.125**	J
Nickel (Total)	7440-02-0	ug/L	100	**6.6**	--	**5.55**	--	5	U	**1.31**	--	**50.4**	--	**24**	J	**93.8**	--	**4.438**	--	**8.8**	--	**10.1**	--	**0.471**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.4	U	5	U	0.4	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**3**	J	**2.797**	--	5	UJ	**0.245**	J	**2.1**	J	**0.809**	--	**17.6**	--	**14.7**	--	**3.1**	J	**3.7**	J	**17.63**	--
Vanadium (Total)	7440-62-2	ug/L	50	**19.5**	--	**6.03**	--	5	UJ	**1.56**	J	**76.5**	--	**40.23**	--	**19.3**	--	**15.66**	--	**16.3**	--	**17.4**	--	**33.25**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	**13.41**	--	25	U	**15.21**	--	25	U	15	U	**18.5**	J	74	U	25	U	25	U	**15.4**	--
Zinc (Total)	7440-66-6	ug/L	5000	**15.2**	J	**41.66**	J	25	U	**33.26**	J	**124**	--	78	U	**39.9**	--	**210.7**	--	**20.7**	J	**22.2**	J	**27.14**	J

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-706DR		MW-706DR		MW-707D		MW-707D		MW-707DR		MW-707DR		MW-707M		MW-707M		MW-707R		MW-707R		MW-707S		MW-707S	
Sample Date				5/18/2010 10:35		6/12/2014 8:30		5/13/2010 12:40		6/10/2014 9:30		5/13/2010 14:40		6/11/2014 11:10		5/12/2010 16:30		6/11/2014 15:55		5/14/2010 11:10		6/10/2014 9:05		5/12/2010 15:55		6/11/2014 16:11	
Field Sample ID				MW-706DR-05182010		MW-706DR-HS-06122014		MW-707D-05132010		MW-707D-06102014		MW-707DR-05132010		MW-707DR-06112014		MW-707M-05122010		MW-707M-06112014		MW-707R-05142010		MW-707R-06102014		MW-707S-05122010		MW-707S-06112014	
Well Group				R		R		C		C		R		R		C		C		C		C		C		C	
HydroStratZone(s)				DBR		DBR		DOB		DOB		DBR		DBR		MOB		MOB		SBR		SBR		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	**142**	--	500	UJ	10	U	**10**	J	**17.4**	--	500	UJ	**2.78**	J	500	UJ	10	U	500	UJ	**2.67**	J
Aluminum (Total)	7429-90-5	ug/L	--	**742**	--	**400**	J	500	UJ	**85**	J	**1190**	--	**397**	J	**326**	J	**50.8**	J	**646**	--	**54**	J	**34.2**	J	**221**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	1	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	2	U	15	U	**0.21**	J	15	U	2	U	15	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**0.68**	--	15	UJ	**0.21**	J	15	U	1.198	U	15	UJ	**0.35**	J	**5.2**	J	**0.355**	J	15	UJ	**0.353**	J
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**0.79**	--	15	UJ	**0.325**	J	15	U	0.5	U	15	UJ	**0.555**	--	15	U	**0.46**	J	15	UJ	**1.137**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**7.5**	--	**27.32**	--	**265**	--	**268.4**	--	**25.7**	--	**20.86**	--	**279**	--	--	R	**170**	--	**187.9**	--	**280**	--	**281**	J
Barium (Total)	7440-39-3	ug/L	1000	**11.2**	--	**25.64**	--	**263**	--	**256.3**	--	**34.8**	--	**27.05**	--	**291**	--	**301.1**	--	**184**	--	**201.9**	--	**281**	--	**48.79**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	**0.4**	J	5	U	0.5	U	5	U	0.2	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.66**	--	5	U	0.5	U	5	U	**0.444**	J	5	U	**0.541**	--	5	U	0.74	U	5	U	**0.52**	--
Chromium (Total)	7440-47-3	ug/L	100	5	U	**1.506**	--	5	U	0.607	U	**1.3**	J	**1.28**	J	**0.68**	J	**0.591**	J	**1.3**	J	**0.889**	--	5	U	**1.168**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	UJ	**0.37**	J	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	5	UJ	**0.347**	J	5	U	0.5	U	5	U	**0.35**	J	5	U	0.5	U	5	U	0.5	U	5	U	**0.203**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	**4.3**	J	10	U	0.5	U	10	U	0.5	U	10	U	0.869	U	10	U	1.6	U	10	U	0.5	U
Copper (Total)	7440-50-8	ug/L	1300	10	U	**2.102**	--	10	U	0.2	U	**5.3**	J	**2**	J	10	U	0.5	U	10	U	0.5	U	10	U	0.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	**283**	--	**73.4**	J	50	U	125	U	**51**	--	125	U	50	U	125	U	**13.9**	J	125	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**763**	--	**677**	--	**23**	J	**87.9**	--	**972**	--	**293**	J	**337**	--	**55.6**	J	**612**	--	**55.6**	--	**62.2**	J	**307**	J
Lead (Dissolved)	7439-92-1	ug/L	--	15	UJ	**0.73**	--	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	UJ	**1.753**	--	15	U	0.5	U	15	U	**0.45**	J	15	U	0.5	UJ	15	U	0.5	U	15	U	**0.411**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**30.5**	--	**61.26**	--	**0.5**	J	0.55	U	**3.2**	J	**57.77**	--	8	U	**0.263**	J	**0.32**	J	0.72	U	8	U	**0.235**	J
Manganese (Total)	7439-96-5	ug/L	500	**56.4**	--	**102.1**	--	**1.2**	J	**5.861**	--	**28.6**	--	**69.15**	--	**15.3**	--	**6.303**	--	**45.9**	--	**5.042**	--	**2.8**	J	**12.29**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**2.5**	J	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	5	U	**1.4**	J	5	U	0.5	UJ	5	U	**1.65**	--	5	U	0.5	U	5	U	**0.085**	J	5	U	**0.282**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	5	U	0.4	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**3**	J	**8.23**	--	**3.4**	J	**3.763**	--	**7.7**	J	**6.642**	--	**5.4**	J	**4.672**	--	**4.6**	J	**4.811**	--	**5.9**	J	**4.954**	--
Vanadium (Total)	7440-62-2	ug/L	50	**7.1**	J	**13.33**	--	**3.8**	J	**3.571**	--	**9.4**	--	**8.09**	--	**6.2**	J	**5.185**	--	**6.1**	J	**4.636**	--	**5.9**	J	**8.993**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	23	U	25	U	20	U	25	U	**15.66**	--	25	U	**17.72**	--	25	U	14	U	25	U	**16.29**	--
Zinc (Total)	7440-66-6	ug/L	5000	**7.6**	J	26	U	25	U	20	U	**5.4**	J	**33.31**	J	25	U	**19.64**	J	25	U	18	U	25	U	**25.63**	J

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Bold = Analyte detected above the laboratory reporting limit
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SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-709DR		MW-709DR		MW-709R		MW-709R		MW-710DR		MW-710DR		MW-710R		MW-710R		MW-901D		MW-901D	
			Sample Date	5/15/2010 12:55		6/11/2014 8:40		5/17/2010 11:20		6/11/2014 8:15		5/13/2010 18:10		6/12/2014 11:20		5/13/2010 13:10		6/12/2014 9:55		5/26/2011 0:00		5/26/2011 11:15	
			Field Sample ID	MW-709DR-05152010		MW-709DR-HS-06112014		MW-709R-05172010		MW-709R-HS-06112014		MW-710DR-05132010		MW-710DR-06122014		MW-710R-05132010		MW-710R-06122014		DUP-GW-05262011-#1		MW-901D-05262011	
			Well Group	C		C		C		C		C		C		C		C		M		M	
			HydroStratZone(s)	DBR		DBR		SBR		SBR		DBR		DBR		SBR		SBR		DOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action**																				
Metals			**Level**																				
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	**14.7**	--	250	UJ	**31.4**	--	500	UJ	**3.39**	J	500	UJ	**3.69**	J	**51.6**	J	**29.5**	J
Aluminum (Total)	7429-90-5	ug/L	--	**156**	J	**138**	J	**185**	J	**92.8**	J	**888**	--	**120**	J	**102**	J	**140**	J	**1070**	J	**2810**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	15	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	**1.47**	--	15	U	1	U	15	U	2	U	15	U	2	U	15	U	15	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**1.181**	--	15	UJ	**1.64**	--	15	U	**0.459**	J	15	U	**0.742**	--	15	U	15	U
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**2.25**	--	15	UJ	**1.9**	--	15	U	**0.627**	--	15	U	**1.026**	--	15	U	15	U
Barium (Dissolved)	7440-39-3	ug/L	--	**39**	--	**37.63**	--	**36.9**	--	**28.13**	--	**39.3**	--	**44.17**	--	**624**	--	**199**	--	**64.5**	--	**61.3**	--
Barium (Total)	7440-39-3	ug/L	1000	**41.2**	--	**44.54**	--	**48.1**	--	**37.48**	--	**46.4**	--	**46.51**	--	**612**	--	**203.2**	--	**78.3**	--	**99.1**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.3**	J
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.184**	J	5	U	5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.2	U	5	U	0.2	U	5	U	0.5	U	5	U	**0.357**	J	5	U	5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.173**	J	5	U	**0.274**	J	5	U	0.5	U	**2.7**	J	**0.375**	J	5	U	5	U
Chromium (Total)	7440-47-3	ug/L	100	5	U	**0.56**	J	5	U	**0.64**	J	**1**	J	**0.436**	J	**2.4**	J	**1.537**	--	**1.1**	J	**3.3**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	**0.493**	J	5	U	0.5	U	5	U	5	U
Cobalt (Total)	7440-48-4	ug/L	10	5	U	**0.47**	J	5	U	**0.13**	J	5	U	**0.761**	--	5	U	**0.176**	J	5	U	5	U
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	**0.833**	--	10	U	**1.383**	--	10	U	**0.129**	J	10	U	**1**	J	**1.9**	J	10	U
Copper (Total)	7440-50-8	ug/L	1300	10	U	**2.54**	--	10	U	**2.14**	--	10	U	**1.671**	--	10	U	**2.396**	--	**2.3**	J	**4.1**	J
Iron (Dissolved)	7439-89-6	ug/L	--	**2430**	--	**1100**	--	125	U	**44.3**	J	125	U	**80**	--	125	U	50	U	**39.5**	J	**28.2**	J
Iron (Total)	7439-89-6	ug/L	--	**3300**	--	**2810**	--	**249**	--	**160**	--	**846**	--	**234**	--	**120**	J	**213**	--	**886**	J	**2260**	J
Lead (Dissolved)	7439-92-1	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	15	U
Lead (Total)	7439-92-1	ug/L	15	15	UJ	**0.68**	J	15	UJ	**0.41**	J	15	U	**0.563**	--	15	U	**0.77**	--	15	U	15	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**234**	--	**227.2**	--	**2.9**	J	**20.37**	--	**131**	--	**170.1**	--	**8.3**	--	**5.566**	--	**6.7**	J	**6.2**	J
Manganese (Total)	7439-96-5	ug/L	500	**243**	--	**210.4**	--	**13.3**	--	**21.63**	--	**153**	--	**183.6**	--	**13**	--	**35.36**	--	**50.8**	J	**145**	J
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	0.5	U	5	U	**0.465**	J	5	U	**0.489**	J	5	U	**0.545**	--	**2.3**	J	**2.6**	J
Nickel (Total)	7440-02-0	ug/L	100	5	U	**2.89**	--	5	U	**0.93**	--	5	U	**0.885**	--	5	U	**1.971**	--	**8.9**	J	**51.3**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.4	U	5	U	0.4	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	15	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	15	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	5	UJ	**0.975**	--	**12.2**	--	**10.26**	--	5	UJ	**0.16**	J	**11.3**	--	**3.281**	--	5	U	5	U
Vanadium (Total)	7440-62-2	ug/L	50	**3.1**	J	**6.95**	--	**13.5**	--	**12.18**	--	**2.1**	J	**0.489**	J	**10.4**	--	**4.154**	--	**2.9**	J	**6.8**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	**21.06**	--	25	U	**22.5**	--	25	U	16	U	25	U	21	U	25	U	25	U
Zinc (Total)	7440-66-6	ug/L	5000	**5.1**	J	32.94	UJ	25	U	**26.84**	J	**13.4**	J	47	U	25	U	31	U	**12.2**	J	**11.1**	J

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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SBR = Shallow Bedrock
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-901R		MW-901R		MW-901R		MW-901R		MW-901R		MW-901R		MW-902D		MW-902D		MW-902M		MW-902M		MW-902M	
Sample Date				5/20/2010 10:35		5/26/2011 13:06		6/14/2012 0:00		6/14/2012 16:30		6/5/2013 10:30		6/10/2014 15:20		5/24/2010 10:10		6/12/2014 13:45		5/24/2010 0:00		5/24/2010 15:15		6/12/2014 14:20	
Field Sample ID				MW-901R-05202010		MW-901R-05262011		DUP-GW-06142012-#3		MW-901R-06142012		MW-901R-06052013		MW-901R-06102014		MW-902D-05242010		MW-902D-HS-06122014		DUP-GW-05242010-#1		MW-902M-05242010		MW-902M-HS-06122014	
Well Group				M		M		M		M		M		M		N		N		N		N		N	
HydroStratZone(s)				SBR		SBR		SBR		SBR		SBR		SBR		DOB		DOB		MOB		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	250	U	**56.5**	--	**72.3**	--	10	U	**19.1**	--	250	U	**4.37**	J	250	UJ	250	UJ	**2.54**	J
Aluminum (Total)	7429-90-5	ug/L	--	**424**	--	**627**	--	**969**	--	**1100**	--	**199**	--	**500**	J	250	U	**95**	J	**88.3**	J	**119**	J	**38.9**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	15	U	0.5	U	0.907	U	**0.248**	J	2	U	15	U	1	U	15	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	15	U	0.5	U	0.59	U	1	U	2	U	15	U	2	U	15	U	15	U	4	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	U	15	U	0.749	U	0.798	U	**0.274**	J	**0.213**	J	15	U	**3.58**	--	15	UJ	15	U	**3.039**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	U	15	U	2.64	U	4.973	U	**0.304**	J	**0.507**	--	15	U	**4.277**	--	15	UJ	15	U	**3.566**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**197**	--	**188**	--	**279.2**	--	**273.4**	--	**243.3**	--	**258.3**	--	**1290**	--	**528.8**	--	**757**	--	**764**	--	**1051**	--
Barium (Total)	7440-39-3	ug/L	1000	**203**	--	**194**	--	**316.4**	--	**326.4**	--	**233.5**	--	**267.1**	--	**1230**	--	**993.5**	--	**752**	--	**754**	--	**1142**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	5	U	**0.161**	J	**0.164**	J	0.5	U	**0.133**	J	5	U	0.5	U	5	U	5	U	1	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	5	U	**0.057**	J	**0.053**	J	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	1	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	5	U	0.518	U	0.505	U	**0.305**	J	0.5	U	**3.9**	J	**2.1**	--	**1**	J	**1.1**	J	**0.501**	--
Chromium (Total)	7440-47-3	ug/L	100	5	U	**1.2**	J	**1.734**	--	**1.904**	--	**0.567**	--	**1.034**	--	**4.2**	J	**2.456**	--	**1.3**	J	**1.1**	J	**0.636**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	UJ	5	U	0.5	U	0.5	U	0.5	U	0.5	U	**10.5**	--	**2.98**	--	5	U	5	U	**3.613**	--
Cobalt (Total)	7440-48-4	ug/L	10	5	UJ	5	U	**0.576**	--	**0.613**	--	**0.114**	J	**0.245**	J	**10.9**	--	**9.127**	--	5	U	5	U	**3.7**	--
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	10	U	**1.588**	--	**1.065**	--	**1.09**	--	1.2	U	10	U	**0.6**	J	**1.7**	J	10	U	1	UJ
Copper (Total)	7440-50-8	ug/L	1300	**1.5**	J	10	U	**2.476**	--	**2.777**	--	**0.592**	--	0.76	U	10	U	**1.729**	--	**1.6**	J	10	U	1	U
Iron (Dissolved)	7439-89-6	ug/L	--	125	UJ	125	U	**28.2**	J	**47.2**	J	50	U	**19.9**	J	**40900**	--	**27100**	--	**17600**	--	**17800**	--	**28600**	--
Iron (Total)	7439-89-6	ug/L	--	**364**	J	**515**	--	**750**	--	**854**	--	**168**	--	**385**	--	**41500**	--	**42700**	--	**17800**	--	**17800**	--	**30200**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	15	U	**0.268**	J	**0.259**	J	0.5	U	0.5	U	15	UJ	0.06	U	15	UJ	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	15	U	**1.297**	--	**1.39**	--	**0.231**	J	**0.579**	--	15	UJ	**0.369**	J	15	UJ	15	UJ	1	U
Manganese (Dissolved)	7439-96-5	ug/L	--	**2.8**	J	**8.8**	--	**13.96**	--	**13.94**	--	**1.08**	--	**2.875**	--	**6680**	--	**4350**	--	**3730**	--	**3750**	--	**5885**	--
Manganese (Total)	7439-96-5	ug/L	500	**21**	--	**40.3**	--	**53.14**	--	**57.18**	--	**9.519**	--	**21.31**	--	**6700**	--	**6515**	--	**3750**	--	**3740**	--	**6164**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	5	U	**1.977**	J	**0.344**	J	**0.712**	J	0.64	U	5.5	U	**1.2**	--	5	U	5	U	**1.7**	J
Nickel (Total)	7440-02-0	ug/L	100	5	U	**6**	--	**1.629**	--	**1.819**	--	**0.329**	J	**0.63**	J	5.3	U	**3.776**	--	5	U	5	U	**1.294**	--
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	5	U	1	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	15	U	0.5	U	0.5	U	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	15	U	0.5	U	0.5	U	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	1	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**1.1**	J	**1**	J	**1.286**	--	**1.225**	--	**0.569**	--	**0.893**	--	**4.8**	J	**1.28**	--	**1.7**	J	**2.2**	J	**0.482**	J
Vanadium (Total)	7440-62-2	ug/L	50	**2.2**	J	**2.1**	J	**3.98**	--	**4.01**	--	**1.257**	--	**1.764**	--	**3.7**	J	**1.733**	--	**2.1**	J	**2.1**	J	**0.902**	J
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	25	U	22.28	U	16.06	U	**13.3**	--	23	U	25	U	22	U	25	U	25	U	31	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	**5.4**	J	17.79	U	27.38	U	**12.29**	--	21	U	25	U	12	U	25	U	25	U	10	U

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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-903D		MW-903D		MW-903M		MW-903M		MW-903R		MW-903R		MW-903S		MW-903S		MW-904D		MW-904D		MW-904D	
			Sample Date	5/25/2010 11:55		6/11/2014 12:45		5/25/2010 12:35		6/10/2014 15:35		6/8/2010 11:50		6/10/2014 15:15		5/25/2010 10:50		6/13/2014 10:10		6/7/2010 0:00		6/7/2010 12:10		6/11/2014 13:20	
			Field Sample ID	MW-903D-05252010		MW-903D-06112014		MW-903M-05252010		MW-903M-HS-06102014		MW-903R-06082010		MW-903R-HS-06102014		MW-903S-05252010		MW-903S-06132014		DUP-GW-06072010-#1		MW-904D-06072010		MW-904D-06112014	
			Well Group	C		C		C		C		C		C		C		C		C		C		C	
			HydroStratZone(s)	DOB		DOB		MOB		MOB		SBR		SBR		SOB		SOB		DOB		DOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	**10**	--	250	UJ	**26**	--	**847**	--	**166**	--	250	UJ	**7.29**	J	250	UJ	250	UJ	**8.13**	J
Aluminum (Total)	7429-90-5	ug/L	--	**749**	--	**95.8**	J	**782**	--	**330**	J	**8390**	--	**730**	J	**73.5**	J	10	U	**500**	--	**581**	--	**268**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	2	U	15	U	2	U	15	U	**1.006**	J	15	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	1	U	15	U	1.117	U	15	U	2	U	15	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**0.48**	J	15	UJ	**2.184**	--	15	UJ	**1.284**	--	15	UJ	**2.4**	J	15	U	15	U	**0.397**	J
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**0.585**	--	15	UJ	**2.37**	--	7.7	U	**1.835**	--	15	UJ	**2.3**	J	15	U	15	U	**0.592**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**255**	--	**315.7**	--	**153**	--	**174.3**	--	**53.2**	--	**42.32**	--	**648**	--	**782.5**	--	**177**	--	**176**	--	**253**	--
Barium (Total)	7440-39-3	ug/L	1000	**273**	--	**341.2**	--	**170**	--	**181.2**	--	**105**	--	**47.85**	--	**645**	--	**782**	--	**183**	--	**184**	--	**277.3**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	**0.73**	J	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	UJ	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	0.2	U	5	UJ	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**4.7**	J	**0.802**	--	5	U	**0.848**	--	**135**	--	**84.8**	--	**2.1**	J	**0.361**	J	5	U	5	U	**0.673**	--
Chromium (Total)	7440-47-3	ug/L	100	**6.8**	--	**0.986**	J	**0.91**	J	**1.59**	--	**143**	--	**86.93**	--	**2**	J	**0.365**	J	**1.1**	J	**1.3**	J	**1.374**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	UJ	0.5	U	5	U	**1.3**	J	5	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	5	U	0.5	U	5	U	**0.29**	J	**5.3**	--	**0.282**	J	5	U	**1**	J	5	U	5	U	**0.218**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	3.886	U	10	U	1.338	U	**5.6**	J	2.7	U	**1.8**	J	1.5	U	10	U	10	U	**1.177**	--
Copper (Total)	7440-50-8	ug/L	1300	**1.8**	J	0.5	U	10	U	**2.45**	--	**13.4**	--	**3.049**	--	**1.6**	J	0.5	U	10	U	**1.7**	J	1.242	U
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	**16.8**	J	125	U	**30.4**	J	**506**	--	**51.6**	--	**51800**	--	**56000**	--	125	U	125	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**817**	--	**113**	J	**570**	--	**328**	--	**7200**	--	**407**	--	**51300**	--	**56000**	--	**524**	--	**642**	--	**353**	J
Lead (Dissolved)	7439-92-1	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	UJ	0.5	UJ	15	UJ	**0.65**	--	15	U	**0.564**	--	15	UJ	0.5	U	15	UJ	15	UJ	**0.371**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**12.9**	--	**0.816**	--	**29.4**	--	**5.997**	--	**21.1**	--	0.73	U	**7630**	--	**8840**	--	**37.1**	--	**36.7**	--	**0.419**	J
Manganese (Total)	7439-96-5	ug/L	500	**37.3**	--	**8.702**	--	**43.1**	--	**45.51**	--	**346**	--	**33.29**	--	**7680**	--	**9035**	--	**50.1**	--	**56.3**	--	**55.33**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**8.054**	--	5	U	0.5	U	5	UJ	0.69	U	5	U	0.76	U	5	UJ	5	UJ	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	5	U	0.5	U	5	U	**1.4**	J	**12.8**	--	**1.182**	J	5	U	**0.42**	J	5	UJ	5	UJ	**0.314**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.4	U	5	U	0.5	U	5	U	0.5	U	5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**5.7**	J	**6.562**	--	**9**	J	**16.81**	--	**27.4**	--	**39.28**	--	**5.9**	J	**1.585**	--	**4.5**	J	**4.2**	J	**5.663**	--
Vanadium (Total)	7440-62-2	ug/L	50	**7.9**	J	**7.089**	--	**11.3**	--	**18.12**	--	**55.2**	--	**40.38**	--	**6.7**	J	**1.897**	--	**5.2**	--	**5.4**	--	**7.42**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	**23.45**	J	25	U	17.67	U	25	U	18	U	25	U	15	U	25	U	25	U	**18.31**	--
Zinc (Total)	7440-66-6	ug/L	5000	25	U	**18.93**	J	25	U	24	U	**31.8**	--	25.24	U	25	U	15	U	25	U	**7.8**	J	**23.3**	J

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Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-904S		MW-904S		MW-905M		MW-905M		MW-906D		MW-906D		MW-906M		MW-906M		MW-906R		MW-906R		MW-907D		MW-907D	
Sample Date				5/26/2010 10:10		6/12/2014 15:30		5/14/2010 15:35		6/11/2014 14:20		6/7/2010 17:30		6/10/2014 14:20		5/21/2010 9:06		6/10/2014 14:40		6/8/2010 12:35		6/10/2014 13:55		5/18/2010 10:30		6/10/2014 15:00	
Field Sample ID				MW-904S-05262010		MW-904S-06122014		MW-905M-05142010		MW-905M-06112014		MW-906D-06072010		MW-906D-HS-06102014		MW-906M-05212010		MW-906M-HS-06102014		MW-906R-06082010		MW-906R-HS-06102014		MW-907D-05182010		MW-907D-HS-06102014	
Well Group				C		C		C		C		C		C		C		C		C		C		R		R	
HydroStratZone(s)				SOB		SOB		MOB		MOB		DOB		DOB		MOB		MOB		SBR		SBR		DOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	UJ	10	U	500	UJ	**8.67**	J	250	U	**49.4**	--	250	U	**58.9**	--	**580**	--	**493**	--	250	UJ	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**34.9**	J	14.4	UJ	**404**	J	**451**	J	**1550**	--	**290**	J	250	U	**400**	J	**635**	--	**620**	J	**1320**	--	**140**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	1	U	15	U	2	U	15	U	2	U	15	UJ	2	U	15	U	2	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	2	U	15	U	1	U	15	UJ	2	U	15	U	1	U	15	U	0.651	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	0.5	U	15	U	0.5	U	15	UJ	**6.838**	--	15	UJ	**0.235**	J	15	UJ	**3.7**	--	15	UJ	**1.035**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	**0.789**	--	15	U	**0.216**	J	15	U	**8.31**	--	15	UJ	**0.503**	--	15	UJ	**4.3**	--	**4.6**	J	**1.425**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**254**	--	**293.7**	--	**137**	--	**153.2**	--	**339**	--	**41.65**	--	**179**	--	**202.8**	--	**114**	--	**10.9**	--	**1560**	--	**1473**	--
Barium (Total)	7440-39-3	ug/L	1000	**252**	--	**329.6**	--	**141**	--	**170.9**	--	**372**	--	**44.86**	--	**177**	--	**214.5**	--	**120**	--	**12.65**	--	**1650**	--	**1695**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	UJ	**0.199**	J	5	U	0.5	U	5	UJ	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	**0.238**	J	5	U	0.5	U	5	UJ	**0.31**	--	5	U	0.5	U	5	UJ	0.2	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	**1.5**	J	**0.76**	--	5	U	**0.584**	--	5	UJ	**1.981**	--	5	U	0.88	U	**7**	--	**0.975**	--	5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**1.6**	J	**0.885**	--	**0.63**	J	**1.348**	J	**2.5**	J	**3.1**	--	5	U	**1.734**	--	**7.4**	--	**2.69**	--	5	U	**0.466**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	**0.87**	J	0.5	U	5	U	0.5	U	5	UJ	0.5	U	5	U	**0.115**	J	5	U	0.5	U	5	UJ	**0.484**	J
Cobalt (Total)	7440-48-4	ug/L	10	**0.95**	J	**0.291**	J	5	U	**0.277**	J	5	UJ	**0.2**	J	5	U	**0.551**	--	5	UJ	**0.2**	J	5	UJ	**0.711**	--
Copper (Dissolved)	7440-50-8	ug/L	--	**1.6**	J	**0.29**	J	10	U	**1.946**	J	10	U	**10.19**	--	10	U	2.2	U	**36.5**	--	**15.07**	--	10	U	0.7	U
Copper (Total)	7440-50-8	ug/L	1300	**1.9**	J	1.268	U	10	U	0.67	U	10	U	**12.27**	--	10	U	**1.789**	--	**40.4**	--	**21.82**	--	10.9	U	**1.232**	--
Iron (Dissolved)	7439-89-6	ug/L	--	**27200**	--	**30700**	--	125	U	50	U	125	U	**74.1**	--	**118**	J	**98.2**	--	**49.2**	J	**30**	J	**6560**	--	**5150**	--
Iron (Total)	7439-89-6	ug/L	--	**24800**	--	**54600**	--	**392**	--	**492**	J	**1420**	--	**344**	--	125	U	**621**	--	**74.3**	J	**93**	--	**7580**	--	**6700**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	U	0.5	U	15	UJ	**0.352**	J	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	**0.262**	J	15	U	**0.44**	J	15	UJ	**1.96**	--	15	U	**0.451**	J	15	UJ	**0.14**	J	15	UJ	**0.195**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**3220**	--	**5112**	--	**36.1**	--	**0.741**	--	**217**	--	**10.93**	--	**13.3**	--	**17.48**	--	8	U	**3.973**	--	**2930**	--	**2820**	--
Manganese (Total)	7439-96-5	ug/L	500	**2990**	--	**5374**	--	**49**	--	**25.41**	--	**271**	--	**54.2**	--	**9.4**	--	**92.77**	--	**0.96**	J	**5.43**	--	**2960**	--	**3173**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**1.6**	J	5	U	**0.219**	J	5	UJ	**1.275**	--	5	UJ	0.89	U	5	UJ	**1.393**	--	5	U	**1.3**	J
Nickel (Total)	7440-02-0	ug/L	100	5	U	**0.875**	--	5	U	**0.409**	J	5	U	**1.9**	J	5	UJ	**0.59**	J	5	UJ	**4.5**	J	5	U	**0.894**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	5	U	0.4	U	5	U	0.5	U	5	U	0.4	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**2.5**	J	**0.33**	J	5	UJ	**0.765**	--	**2.4**	J	**1.19**	--	**4.2**	J	**4.192**	--	**29.8**	--	**100.2**	--	**1.5**	J	**0.143**	J
Vanadium (Total)	7440-62-2	ug/L	50	**2.9**	J	**2.488**	--	**1.4**	J	**2.12**	--	**6.8**	--	**2.16**	J	**3.7**	J	**5.354**	--	**30**	--	**95.14**	--	**4.3**	J	**0.554**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	8.5	U	25	U	**23.89**	--	25	U	5	U	**6.2**	J	24	U	25	U	26	U	25	U	26	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	15.59	U	25	U	**26.15**	J	**6.5**	J	70	U	25	U	11	U	25	U	14	U	**9.7**	J	22.23	U

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MW-907DR		MW-907DR		MW-907M		MW-907M		MW-907M		MW-908D		MW-908D		MW-909D		MW-909D		MW-910S		MW-910S	
			Sample Date	5/18/2010 15:35		6/10/2014 13:15		5/19/2010 0:00		5/19/2010 11:00		6/10/2014 14:30		5/20/2010 15:30		6/11/2014 13:30		5/20/2010 15:50		6/11/2014 16:10		6/7/2010 15:00		6/11/2014 13:20	
			Field Sample ID	MW-907DR-05182010		MW-907DR-HS-06102014		DUP-GW-05192010-#1		MW-907M-05192010		MW-907M-HS-06102014		MW-908D-05202010		MW-908D-HS-06112014		MW-909D-05202010		MW-909D-HS-06112014		MW-910S-06072010		MW-910S-06112014	
			Well Group	R		R		R		R		R		C		C		C		C		C		C	
			HydroStratZone(s)	DBR		DBR		MOB		MOB		MOB		DOB		DOB		DOB		DOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																					
Metals																								
Aluminum (Dissolved)	7429-90-5	ug/L	--	**13.9**	J	10	U	250	U	250	UJ	10.8	U	250	U	**3.17**	J	250	U	**9.85**	J	250	U	**7.96**	J
Aluminum (Total)	7429-90-5	ug/L	--	**173**	J	**140**	J	**490**	--	**817**	--	**2200**	J	**724**	--	**75.2**	J	**1410**	--	**229**	J	250	U	**113**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	15	U	2	U	15	UJ	**1.831**	J	15	UJ	**1.48**	J	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	15	U	1	U	15	UJ	1.475	UJ	15	UJ	**10.28**	--	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	U	**0.614**	--	**5.3**	J	**4.5**	J	**3.388**	--	15	UJ	**0.857**	--	15	UJ	**0.213**	J	15	UJ	**0.195**	J
Arsenic (Total)	7440-38-2	ug/L	10	15	U	**0.759**	--	**6.7**	J	**10.2**	J	**12.56**	--	15	UJ	**1.236**	--	15	UJ	**0.581**	--	15	UJ	**0.281**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**4.8**	J	**4.381**	--	**1800**	--	**1780**	--	**1955**	--	**587**	--	**269.8**	--	**314**	--	**245.1**	--	**114**	--	**200.4**	--
Barium (Total)	7440-39-3	ug/L	1000	**6.1**	--	**5.988**	--	**1860**	--	**1800**	--	**2178**	--	**616**	--	**337.8**	--	**345**	--	**253.9**	--	**116**	--	**225.5**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	5	U	**0.16**	J	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	UJ	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	5	U	**0.06**	J	5	U	0.5	U	5	U	0.5	U	5	UJ	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	0.5	U	5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.387**	J	5	U	**0.362**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	**1.615**	--	5	U	5	U	**4.71**	--	5	U	**0.558**	J	**3.1**	J	**0.698**	J	5	U	**0.739**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	UJ	0.5	U	**0.67**	J	5	UJ	**3.64**	--	5	U	**0.209**	J	5	U	0.5	U	5	UJ	**0.166**	J
Cobalt (Total)	7440-48-4	ug/L	10	5	UJ	0.5	U	**1.3**	J	**1.2**	J	**5.81**	--	5	U	**0.348**	J	5	U	**0.166**	J	5	UJ	**0.266**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	1.2	U	**1.6**	J	10	U	**1.506**	--	10	U	**2.535**	J	10	U	**3.24**	J	10	U	**1.721**	--
Copper (Total)	7440-50-8	ug/L	1300	10	U	0.84	U	**2.9**	J	10	U	**5.84**	--	10	U	1.533	UJ	10	U	1.052	U	10	U	**7.703**	--
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	**45.3**	J	**12800**	J	**12700**	--	**9720**	--	**2800**	--	**56.6**	--	**2190**	--	**13.5**	J	125	U	**91.7**	--
Iron (Total)	7439-89-6	ug/L	--	**155**	--	**251**	--	**13000**	J	**13500**	--	**25800**	--	**3800**	--	**2730**	--	**3500**	--	**229**	--	**71.2**	J	**242**	J
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	**0.226**	J	15	U	15	U	**2.06**	--	15	U	**0.446**	J	15	U	**0.286**	J	15	UJ	**0.383**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**44.4**	--	**36.61**	--	**3020**	--	**2990**	--	**3649**	--	**1390**	--	**25.66**	--	**1700**	--	**5.939**	--	**44.5**	--	**110.1**	--
Manganese (Total)	7439-96-5	ug/L	500	**49.9**	--	**44.31**	--	**3080**	--	**3080**	--	**3912**	--	**1450**	--	**367.9**	--	**1740**	--	**26.25**	--	**50.2**	--	**138.7**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	0.82	U	5	U	5	U	**3.448**	--	5	UJ	**3.735**	--	5	UJ	**0.43**	J	5	UJ	**0.189**	J
Nickel (Total)	7440-02-0	ug/L	100	5	U	**0.16**	J	5	U	5	U	**7.9**	J	5	U	**4.55**	--	5	U	**0.359**	J	5	U	**0.318**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	5	U	0.4	U	5	U	0.5	U	**0.25**	J	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	UJ	0.5	U	15	U	15	UJ	0.5	U	15	U	0.5	U	15	U	**0.048**	J	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	UJ	0.5	U	15	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	5	UJ	0.5	U	**2.3**	J	**1.8**	J	0.5	U	**1.2**	J	0.5	U	**1.2**	J	**0.858**	--	**1.1**	J	**0.815**	--
Vanadium (Total)	7440-62-2	ug/L	50	**1.2**	J	**0.384**	J	**3.9**	J	**3.9**	J	**6.99**	--	**3.7**	J	**0.219**	J	**4.8**	J	**1.254**	--	**1.4**	J	**1.309**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	25	U	25	U	25	U	5	U	25	U	**16.3**	--	25	U	**34.86**	--	25	U	**14.87**	--
Zinc (Total)	7440-66-6	ug/L	5000	25	U	33	U	25	U	25	U	39	U	25	U	**23.11**	J	**6.1**	J	**33.69**	J	25	U	**22.84**	J

Notes:

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Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	MWL-303		MWL-303		MWL-304		MWL-304		MWL-307		MWL-307		MWL-309		MWL-309		MWL-309		MWL-312		MWL-312	
			Sample Date	5/20/2010 8:30		6/10/2014 15:35		5/24/2010 9:40		6/13/2014 9:00		5/24/2010 16:30		6/12/2014 11:10		5/20/2010 8:50		6/13/2014 0:00		6/13/2014 10:55		5/20/2010 14:00		6/10/2014 10:15	
			Field Sample ID	MWL-303-05202010		MWL-303-06102014		MWL-304-05242010		MWL-304-HS-06132014		MWL-307-05242010		MWL-307-HS-06122014		MWL-309-05202010		DUP-GW-06132014-#1		MWL-309-06132014		MWL-312-05202010		MWL-312-06102014	
			Well Group	C		C		N		N		N		N		R		R		R		C		C	
			HydroStratZone(s)	SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	U	10	U	250	UJ	**4.9**	J	250	U	**34.5**	--	**1530**	--	10	U	**2.23**	J	250	U	**18.5**	--
Aluminum (Total)	7429-90-5	ug/L	--	**1940**	--	**160**	J	250	U	**162**	--	**217**	J	**96**	J	**23400**	--	**197**	--	**184**	--	250	U	**110**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	UJ	2	U	15	U	2	U	15	U	**1.2**	--	15	U	2	U	2	U	15	UJ	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	UJ	1	U	15	U	2	U	15	U	2	U	15	U	2	U	2	U	15	UJ	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**0.296**	J	15	UJ	**7.2**	J	15	U	**4.48**	--	15	U	**2.3**	J	**2.8**	J	15	UJ	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	15	UJ	0.5	U	15	U	**9**	J	15	U	**12.3**	--	**5.1**	J	**2.9**	J	**2.9**	J	15	UJ	**0.183**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**71.7**	--	**107**	--	**383**	--	**507.4**	--	**392**	--	**198.8**	--	**557**	--	**400.8**	--	**431.1**	--	**21.8**	--	**15.44**	--
Barium (Total)	7440-39-3	ug/L	1000	**91.7**	--	**100**	--	**377**	--	**764.2**	--	**393**	--	**346.6**	--	**836**	--	**447.3**	--	**445.4**	--	**22.1**	--	**15.78**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	**1.5**	J	0.5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.2	U	5	U	0.5	U	5	U	**0.109**	J	5	U	0.5	U	0.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	0.5	U	5	U	**0.339**	J	**7.9**	--	**1.66**	--	5	U	0.5	U	0.5	U	5	U	**0.154**	J
Chromium (Total)	7440-47-3	ug/L	100	**3.2**	J	0.53	U	5	U	**0.645**	--	**8.8**	--	**4.221**	--	**38.3**	--	**0.462**	J	**0.432**	J	5	U	0.5	U
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	**2.1**	J	5	U	**1.069**	--	**5.8**	--	**6.81**	--	**1.1**	J	**0.486**	J	**0.473**	J	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	5	U	**1.67**		5	U	**1.245**	--	**6.1**	--	**12.33**	--	**17.7**	--	**0.624**	--	**0.688**	--	5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	0.5	U	10	U	0.5	U	10	U	**1.55**	J	**3.7**	J	**1.055**	--	**0.545**	--	10	U	1.5	U
Copper (Total)	7440-50-8	ug/L	1300	10	U	1.4	U	10	U	2.2	U	**3.1**	J	**3.874**	--	**49.9**	--	**29**	J	1.7	U	10	U	0.84	U
Iron (Dissolved)	7439-89-6	ug/L	--	**92.8**	J	**9600**	J	**14100**	--	**17400**	--	**25400**	--	**14900**	--	**6000**	J	**3820**	--	**4150**	--	125	U	**21.7**	J
Iron (Total)	7439-89-6	ug/L	--	**3140**	--	**7690**		**14100**	--	**20600**	--	**25400**	--	**41600**	--	**35100**	J	**4520**	--	**4460**	--	125	U	**117**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	UJ	**0.42**	J	15	U	0.5	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	**0.28**	J	15	UJ	**0.484**	J	15	UJ	**0.84**	--	15	U	**0.509**	--	**0.532**	--	15	U	**0.308**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**56.2**	--	**3200**	J	**3160**	--	**4638**	--	**5130**	--	**3020**	--	**3490**	--	**2954**	--	**3094**	--	**2.8**	J	**11.78**	--
Manganese (Total)	7439-96-5	ug/L	500	**106**	--	**2300**		**3070**	--	**5478**	--	**4990**	--	**5724**	--	**4340**	--	**3114**	--	**3144**	--	**3.2**	J	**19.6**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**1.293**	--	5	UJ	0.9	U	5	U	**4.7**	--	5	U	**1.221**	J	**0.629**	--	5	UJ	0.75	U
Nickel (Total)	7440-02-0	ug/L	100	**3.9**	J	**1.6**	J	5	UJ	0.62	U	5	U	**5.388**	--	**38**	--	**0.958**	J	**1.017**	--	5	UJ	**0.083**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	**0.505**	--	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.4	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	0.5	U	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**1.1**	J	**0.451**	J	**1.3**	J	**0.562**	--	**6.5**	J	**1.62**	--	**7.5**	J	**0.19**	J	**0.211**	J	5	UJ	**0.467**	J
Vanadium (Total)	7440-62-2	ug/L	50	**6**	J	**1.02**	J	**1.7**	J	**2.155**	--	**7.6**	J	**5.684**	--	**73.1**	--	**1.237**	--	**1.057**	--	5	UJ	**0.681**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	**9.8**	J	19	U	25	U	30	U	25	U	43.08	U	**8**	J	19	U	18	U	25	U	19	U
Zinc (Total)	7440-66-6	ug/L	5000	**14.8**	J	20	U	25	U	24	U	25	U	31	U	**95.3**	--	17	U	26	U	25	U	21	U

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL)
and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MWL-313		MWL-313		P-101A		P-101A		P-101A		P-101A		P-101B		P-101B		P-101B		P-101B		P-101C		P-101C	
Sample Date				5/14/2010 16:40		6/10/2014 12:10		12/8/1992 0:00		5/17/2010 0:00		5/17/2010 17:10		6/12/2014 8:45		12/8/1992 0:00		12/8/1992 0:00		5/13/2010 11:25		6/12/2014 12:25		5/13/2010 11:55		6/12/2014 12:25	
Field Sample ID				MWL-313-05142010		MWL-313-06102014		P101A-H3B		DUP-GW-05172010-#1		P-101A-05172010		P-101A-HS-06122014		P101B-H3		P101B-H3-D		P-101B-05132010		P-101B-06122014		P-101C-05132010		P-101C-06122014	
Well Group				C		C		C		C		C		C		R		R		R		R		R		R	
HydroStratZone(s)				SOB		SOB		SBR		SBR		SBR		SBR		MOB		MOB		MOB		MOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	**13.9**	J	10	U	24.5	UJ	250	UJ	250	UJ	**21.4**	--	114	U	138	U	500	UJ	10	U	500	UJ	**2.41**	J
Aluminum (Total)	7429-90-5	ug/L	--	**332**	J	**68**	J	**1840**	--	**2900**	--	**1120**	--	**140**	J	**125000**	--	**113000**	--	**38.2**	J	**19**	J	**1750**	--	**140**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	16.9	U	15	U	15	U	1	U	16.9	U	16.9	U	15	U	2	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	16.9	U	15	U	15	U	2	U	16.9	U	16.9	U	15	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	U	0.5	U	2.9	U	15	UJ	15	UJ	0.61	U	**14.2**	--	**13.5**	J	15	UJ	**2.081**	--	15	UJ	**1.862**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	U	**0.238**	J	2.9	UJ	15	UJ	15	UJ	**0.982**	--	**39.2**	J	**17.1**	J	15	UJ	**2.362**	--	15	UJ	**1.93**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**111**	--	**130.9**	--	**1160**	--	**333**	--	**341**	--	**119**	--	**8160**	--	**8240**	--	**1020**	--	**985.3**	--	**530**	--	**427.9**	--
Barium (Total)	7440-39-3	ug/L	1000	**118**	--	**137.2**	--	**1380**	--	**400**	--	**365**	--	**153.7**	--	**10600**	--	**10600**	--	**1020**	--	**1006**	--	**554**	--	**414.8**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	0.4	U	5	U	5	U	0.5	U	0.4	U	0.4	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	0.4	U	**0.26**	J	5	U	0.5	U	**7.4**	--	**6.8**	--	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	1	UJ	5	U	5	U	**0.84**	--	1	UJ	1	UJ	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	1	UJ	5	U	5	U	**1.36**	--	1	UJ	1	UJ	5	U	0.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.178**	J	4.5	UJ	5	U	5	U	**0.93**	J	4.5	UJ	4.5	UJ	5	U	0.5	U	5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	5	U	0.5	U	4.5	UJ	**7.2**	--	5	U	**0.734**	--	**219**	--	**194**	--	5	U	**0.186**	J	**2.7**	J	**0.308**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	2.7	U	5	UJ	5	UJ	0.5	U	21.6	U	19.6	U	5	U	**1.438**	--	5	U	**0.116**	J
Cobalt (Total)	7440-48-4	ug/L	10	5	U	0.5	U	2.7	U	**1.2**	J	5	UJ	**0.121**	J	**123**	--	**115**	--	5	U	**1.413**	--	5	U	**0.251**	J
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	1.6	U	3.5	U	10	U	10	U	**4.9**	J	3.5	U	3.5	U	10	U	**0.387**	J	10	U	**0.274**	J
Copper (Total)	7440-50-8	ug/L	1300	10	U	0.69	U	3.5	U	17.3	U	10	U	**5.671**	--	**308**	--	**295**	--	10	U	**0.68**	--	10	U	**0.851**	--
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	50	U	**6020**	--	**269**	--	**271**	--	**172**	--	**35500**	--	**34900**	--	**1650**	--	**1100**	--	**60.3**	J	**96.5**	--
Iron (Total)	7439-89-6	ug/L	--	**435**	--	**79.9**	--	**9910**	--	**3910**	--	**1420**	--	**614**	--	**210000**	--	**187000**	--	**1760**	--	**1300**	--	**2070**	--	**334**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	0.5	U	3	U	15	UJ	15	UJ	0.5	U	3.6	U	4.5	U	15	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	0.5	U	9	U	**6**	J	15	UJ	**0.663**	--	**50**	--	**62**	--	15	U	0.5	U	15	U	**0.234**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**1.8**	J	0.54	U	**2710**	--	**486**	--	**502**	--	**212.4**	--	**6980**	--	**6950**	--	**1090**	--	**1005**	--	**1340**	--	**1172**	--
Manganese (Total)	7439-96-5	ug/L	500	**12.1**	--	**3.785**	--	**2910**	--	**562**	--	**522**	--	**360.7**	--	**14000**	--	**13700**	--	**1090**	--	**1010**	--	**1390**	--	**1172**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	0.5	U	5.4	U	5	U	5	U	**4**	J	**12.9**	--	**10.8**	--	5	U	**0.506**	--	5	U	**0.281**	J
Nickel (Total)	7440-02-0	ug/L	100	5	U	**0.11**	J	5.4	U	**5.2**	--	5	U	**2.823**	--	**243**	--	**229**	--	5	U	**0.843**	--	5	U	**0.462**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	2.5	UJ	5	U	5	U	0.5	U	2.5	UJ	2.5	UJ	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	2.5	UJ	5	U	5	U	**0.155**	J	2.5	UJ	2.5	UJ	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	3.8	U	15	UJ	15	UJ	0.5	U	3.8	UJ	3.8	UJ	15	U	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	3.8	UJ	15	UJ	15	UJ	0.5	U	3.8	U	3.8	UJ	15	U	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	5	UJ	**0.354**	J	2.8	U	**1.1**	J	**1.5**	J	**0.46**	J	5.9	U	4.6	U	5	UJ	0.5	U	**1.6**	J	**0.463**	J
Vanadium (Total)	7440-62-2	ug/L	50	5	UJ	**0.404**	J	6.5	U	**11.5**	--	**3.7**	J	**0.573**	--	**361**	--	**327**	--	5	UJ	0.5	U	**5.8**	J	**1.306**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	19	U	29	U	25	U	25	U	26	U	49.3	U	58.2	U	25	U	18.79	U	25	U	18.89	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	21	U	18.3	U	**32**	--	**8.6**	J	25	U	**618**	--	**576**	--	25	U	18	U	**8.6**	J	16	U

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Bold = Analyte detected above the laboratory reporting limit
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SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				P-102A		P-102A		P-102A		P-102B		P-102B		P-102B		P-102C		P-102C		P-11A		P-11A		P-11A	
Sample Date				12/9/1992 0:00		5/17/2010 11:35		6/10/2014 13:10		12/8/1992 0:00		5/17/2010 17:00		6/12/2014 9:10		5/18/2010 15:50		6/10/2014 11:40		8/26/1991 0:00		5/13/2010 11:20		6/11/2014 8:00	
Field Sample ID				P102A-H3		P-102A-05172010		P-102A-06102014		P102B-H3A		P-102B-05172010		P-102B-HS-06122014		P-102C-05182010		P-102C-06102014		P11A-H2		P-11A-05132010		P-11A-HS-06112014	
Well Group				C		C		C		C		C		C		C		C		R		R		R	
HydroStratZone(s)				SBR		SBR		SBR		MOB		MOB		MOB		SOB		SOB		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	87.4	U	**31.6**	J	**46.5**	--	163	U	250	U	**30**	--	250	UJ	10	U	--	--	500	UJ	**3.53**	J
Aluminum (Total)	7429-90-5	ug/L	--	**10100**	--	**3740**	--	**3000**	J	**7210**	--	**1340**	--	**310**	J	**13.4**	J	**35**	J	**430000**	--	**831**	--	**33.2**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	16.9	U	15	U	2	U	16.9	U	15	U	1	U	15	U	2	U	--	--	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	16.9	U	15	U	2	U	16.9	U	15	U	2	U	15	U	2	U	32	U	15	U	1	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	2.9	UJ	**5.8**	J	**0.379**	J	2.9	U	**4.2**	J	1	U	15	U	0.5	U	--	--	15	UJ	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	2.9	UJ	15	UJ	**1.482**	--	**3.6**	J	**5.1**	J	**1.247**	--	15	U	**0.388**	J	**49**	--	15	UJ	**0.62**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**65.2**	--	**13.4**	--	**59.92**	--	**213**	--	**233**	--	**82.8**	--	**186**	--	**211.5**	--	--	--	**488**	--	**457.9**	--
Barium (Total)	7440-39-3	ug/L	1000	**66.5**	--	**32.1**	--	**82.92**	--	**282**	--	**255**	--	**112**	--	**188**	--	**214.4**	--	**12000**	J	**509**	--	**449.4**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	0.4	U	5	U	0.5	U	0.4	U	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	0.4	U	**0.26**	J	**0.301**	J	0.4	U	5	U	0.5	U	5	U	0.5	U	**52**	--	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	1	UJ	5	U	0.5	U	1	UJ	5	U	0.5	U	5	U	**0.154**	J	--	--	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	1	UJ	5	U	**0.055**	J	1	UJ	5	U	**0.213**	J	5	U	**0.234**	J	**20**	--	5	U	0.2	U
Chromium (Dissolved)	7440-47-3	ug/L	--	4.5	UJ	5	U	**0.163**	J	4.5	UJ	5	U	**0.64**	--	5	U	**0.239**	J	--	--	5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	**64.2**	--	**4.8**	J	**4.647**	--	5.2	UJ	5	U	**0.697**	--	5	U	0.5	U	**760**	--	**1**	J	**0.34**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	2.7	U	5	U	0.5	U	2.7	U	5	UJ	0.5	U	5	UJ	**0.466**	J	--	--	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	6.2	U	**2.5**	J	**2.201**	--	5.7	U	5	UJ	**0.258**	J	5	UJ	**0.438**	J	**320**	J	5	U	**0.14**	J
Copper (Dissolved)	7440-50-8	ug/L	--	3.5	U	10	U	1.997	U	3.5	U	10	U	**3.3**	J	10	U	0.56	U	--	--	10	U	**0.856**	--
Copper (Total)	7440-50-8	ug/L	1300	**74.6**	--	**5.7**	J	**5.139**	--	22.6	U	10	U	**3.853**	--	10	U	1.4	U	**1100**	J	10	U	**0.88**	J
Iron (Dissolved)	7439-89-6	ug/L	--	72.1	U	125	U	**133**	--	165	U	125	U	15	U	**427**	--	**2040**	--	--	--	**1190**	--	**670**	--
Iron (Total)	7439-89-6	ug/L	--	**11400**	--	**3450**	--	**3420**	--	**10000**	--	**1550**	--	**457**	--	**903**	--	**3070**	--	**690000**	--	**1940**	--	**1010**	--
Lead (Dissolved)	7439-92-1	ug/L	--	2.5	UJ	15	UJ	**0.287**	J	3	U	15	UJ	0.5	U	15	U	0.5	U	--	--	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**22.2**	--	15	UJ	**3.101**	--	10	U	15	UJ	**0.821**	--	15	U	**0.44**	J	**150**	--	15	U	**0.15**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	18.2	U	**17.1**	--	**242.2**	--	**26.9**	--	**29.5**	--	**2.37**	--	**110**	--	**364.4**	--	--	--	**1500**	--	**1399**	--
Manganese (Total)	7439-96-5	ug/L	500	**222**	--	**88**	--	**424.9**	--	**279**	--	**69.4**	--	**38.58**	--	**116**	--	**351.1**	--	**27000**	--	**1530**	--	**1720**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5.4	U	5	U	0.5	U	5.4	U	5	U	**1.3**	J	5	U	0.5	U	--	--	5	U	**0.749**	--
Nickel (Total)	7440-02-0	ug/L	100	**38.4**	--	**6.7**	--	**4.8**	J	**7.9**	J	5	U	**0.835**	--	5	U	**0.51**	J	**790**	J	5	U	**1.05**	--
Silver (Dissolved)	7440-22-4	ug/L	--	2.5	UJ	5	U	0.5	U	2.5	UJ	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	2.5	UJ	5	U	**0.157**	J	2.5	UJ	5	U	0.5	U	5	U	0.5	U	--	--	5	U	0.4	U
Thallium (Dissolved)	7440-28-0	ug/L	--	3.8	U	15	UJ	0.5	U	3.8	U	15	UJ	0.5	U	15	UJ	0.5	U	--	--	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	3.8	UJ	15	UJ	0.5	U	3.8	U	15	UJ	0.5	U	15	UJ	0.5	U	--	--	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**18.5**	--	**19.9**	--	**2.468**	--	13.3	U	**13.5**	--	**6.66**	--	5	UJ	**0.282**	J	--	--	5	UJ	**1.037**	--
Vanadium (Total)	7440-62-2	ug/L	50	**48.5**	--	**34.4**	--	**17.62**	--	**37.6**	--	**17.2**	--	**10.73**	--	**1.1**	J	**0.484**	J	**1300**	J	**1.9**	J	**1.69**	J
Zinc (Dissolved)	7440-66-6	ug/L	--	5.4	U	25	U	19.27	U	19.2	U	25	U	40	U	25	U	15	U	--	--	25	U	**17.37**	--
Zinc (Total)	7440-66-6	ug/L	5000	**66.6**	--	**19.7**	J	36	U	36	U	**6.9**	J	30	U	**5.5**	J	24	U	**1700**	--	25	U	**21.3**	J

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				P-11B		P-11B		P-11B		P-12		P-12		P-12		P-12		P-12		P-12		P-12		P-12		P-12	
Sample Date				8/27/1991 0:00		5/17/2010 17:20		6/11/2014 9:15		8/13/1991 0:00		2/22/2005 0:00		4/27/2005 0:00		6/28/2005 0:00		5/25/2010 16:15		5/25/2011 15:10		6/12/2012 15:30		6/3/2013 15:50		6/9/2014 17:00	
Field Sample ID				P11B-H2B		P-11B-05172010		P-11B-HS-06112014		P12-H2		P12_0205		P-12_0405		P12_0605		P-12-05252010		P-12-05252011		P-12-06122012		P-12-06032013		P-12-06092014	
Well Group				C		C		C		M		M		M		M		M		M		M		M		M	
HydroStratZone(s)				SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	250	UJ	**3.52**	J	--	--	--	--	--	--	--	--	**84.9**	J	250	U	10	U	**225**	--	**16.5**	--
Aluminum (Total)	7429-90-5	ug/L	--	**13000**	--	**67.7**	J	**2280**	J	**140000**	--	**44600**	--	**5870**	--	**319**	--	**3470**	--	**961**	--	**866**	--	**403**	--	**1300**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	15	U	2	U	--	--	--	--	--	--	--	--	15	U	15	U	1.032	U	0.5	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	--	--	15	U	**0.34**	J	--	--	60	U	60	U	60	U	15	U	15	U	**0.83**	--	0.5	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	**4.8**	J	0.405	U	--	--	--	--	--	--	--	--	15	UJ	15	U	0.5	U	**0.247**	J	0.5	U
Arsenic (Total)	7440-38-2	ug/L	10	**2**	J	15	UJ	0.5	U	**9**	J	10	U	10	U	10	U	15	UJ	15	U	0.728	U	**0.172**	J	**0.495**	J
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	**762**	--	**367.9**	--	--	--	--	--	--	--	--	--	**149**	--	**149**	J	**152.1**	--	**174.8**	--	**181.1**	--
Barium (Total)	7440-39-3	ug/L	1000	**670**	--	**752**	--	**409.8**	--	**2300**	J	**496**	--	**201**	--	**190**	--	**195**	--	**169**	J	**164.1**	--	**178.4**	--	**216.1**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	5	U	0.5	U	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	--	--	5	U	**0.11**	J	**11**	J	5	U	5	U	5	U	5	U	5	U	0.5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	5	U	**0.067**	J	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	--	--	5	U	**0.09**	J	--	--	5	U	5	U	5	U	5	U	5	U	0.5	U	0.5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	5	U	**0.228**	J	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Chromium (Total)	7440-47-3	ug/L	100	24	U	5	U	**3.75**	--	**250**	--	**58.8**	--	10	U	10	U	**5.1**	--	**0.97**	J	**1.446**	--	0.72	U	**2.226**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	5	UJ	0.5	U	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	**0.26**	J	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	**11**	--	5	UJ	**2.06**	--	**130**	J	50	U	50	U	50	U	5	U	5	U	**0.661**	--	**0.366**	J	**1.107**	--
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	10	U	**2.113**	--	--	--	--	--	--	--	--	--	10	U	10	U	**1.519**	--	0.926	U	0.85	U
Copper (Total)	7440-50-8	ug/L	1300	**25**	--	10	U	**8.36**	--	**300**	J	**38.8**	--	20	U	20	U	**5.2**	J	10	U	**1.57**	--	0.86	U	**2.53**	--
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	**616**	--	50	U	--	--	--	--	--	--	--	--	**122**	J	125	U	50	U	**273**	--	**26.6**	J
Iron (Total)	7439-89-6	ug/L	--	**20000**	--	**793**	--	**2350**	--	**190000**	--	**56000**	--	**6330**	--	**281**	--	**4330**	--	**1220**	--	**981**	--	**494**	--	**1680**	--
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	15	UJ	0.5	U	--	--	--	--	--	--	--	--	15	UJ	15	U	0.5	U	**0.279**	J	0.5	U
Lead (Total)	7439-92-1	ug/L	15	**5.4**	--	15	UJ	**1.82**	J	**69**	J	**24.1**	--	5	U	**6.97**	--	15	UJ	15	U	**0.459**	J	**0.256**	J	**0.812**	--
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	**2650**	--	**756.3**	--	--	--	--	--	--	--	--	--	**6.2**	J	8	UJ	**1.7**	--	22.55	U	**2.644**	--
Manganese (Total)	7439-96-5	ug/L	500	**1900**	--	**2660**	--	**1116**	--	**6500**	J	**1120**	--	**128**	--	**54.6**	--	**128**	--	**49.6**	J	**31.11**	--	15.41	U	**54.38**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	5	U	**0.905**	--	--	--	--	--	--	--	--	--	5	U	5	U	**1.148**	--	0.5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	17	U	5	U	**4.84**	--	**250**	J	**47.5**	--	40	U	40	U	6.1	U	5	U	**1.437**	--	0.873	U	**2.3**	J
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	5	U	0.5	U	--	--	--	--	--	--	--	--	5	U	5	U	0.5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	--	--	5	U	0.4	U	7.2	UJ	10	U	10	U	10	U	5	U	5	U	0.5	U	0.5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	15	U	0.5	U	--	--	--	--	--	--	--	--	15	UJ	15	U	0.5	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	--	--	15	UJ	**0.04**	J	**2**	J	10	U	10	U	10	U	15	UJ	15	U	0.5	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	**1.8**	J	**2.698**	--	--	--	--	--	--	--	--	--	**1.4**	J	5	U	**0.864**	--	**1.844**	--	**0.786**	--
Vanadium (Total)	7440-62-2	ug/L	50	**37**	J	**1.7**	J	**11.88**	--	**430**	J	**107**	--	50	U	50	U	**11.1**	--	**3.7**	J	**3.389**	--	**1.733**	--	**5.004**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	25	U	**22.45**	--	--	--	--	--	--	--	--	--	25	U	25	U	17.36	U	12.68	U	16	U
Zinc (Total)	7440-66-6	ug/L	5000	54	UJ	25	U	**46.99**	J	**650**	--	**136**	--	20	U	20	U	25	U	25	U	20.07	U	5	U	27	U

Notes:

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ug/L = micrograms per liter
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Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				P-13		P-13		P-13		P-3A		P-3A		P-3A		P-3B		P-3B		P-3B		P-5B		P-5B	
Sample Date				8/14/1991 0:00		5/12/2010 17:55		6/11/2014 14:00		8/29/1991 0:00		5/26/2010 9:25		6/11/2014 11:15		8/29/1991 0:00		5/18/2010 17:20		6/13/2014 9:45		5/21/2010 10:30		6/13/2014 8:00	
Field Sample ID				P13-H2		P-13-05122010		P-13-06112014		P3A-H2		P-3A-05262010		P-3A-HS-06112014		P3B-H2		P-3B-05182010		P-3B-06132014		P-5B-05212010		P-5B-06132014	
Well Group				R		R		R		C		C		C		C		C		C		C		C	
HydroStratZone(s)				SOB		SOB		SOB		SBR		SBR		SBR		SOB		SOB		SOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	500	UJ	**2.19**	J	--	--	250	UJ	**3.28**	J	--	--	250	UJ	**6.8**	J	250	U	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**12000**	--	**208**	J	**176**	J	**190**	J	**80.6**	J	**61.1**	J	**29000**	J	**1340**	--	**212**	--	**1660**	--	**71.7**	--
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	15	U	2	U	--	--	15	U	2	U	--	--	15	U	2	U	15	UJ	0.522	U
Antimony (Total)	7440-36-0	ug/L	6	40	U	15	U	2	U	15	UJ	15	U	2	U	--	--	15	U	2	U	15	UJ	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	15	UJ	0.5	U	--	--	15	UJ	**0.326**	J	--	--	15	U	**1.2**	J	**5.7**	J	**2.114**	J
Arsenic (Total)	7440-38-2	ug/L	10	**3**	J	15	UJ	**0.337**	J	**3**	J	15	UJ	**0.605**	--	**6**	--	**4.5**	J	**1.5**	J	**13.3**	J	**4.2**	J
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	**99.2**	--	**125.5**	--	--	--	**545**	--	**430.6**	J	--	--	**574**	--	**584.6**	--	**328**	--	**288.6**	--
Barium (Total)	7440-39-3	ug/L	1000	**240**	--	**103**	--	**147.8**	--	**3100**	J	**561**	--	**240.3**	--	**1400**	--	**597**	--	**606.5**	--	**407**	--	**311**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	5	U	0.5	U	--	--	5	U	0.5	U	--	--	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	**1.4**	J	5	U	0.5	U	--	--	5	U	0.5	U	**1.9**	J	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	5	U	0.5	U	--	--	5	U	0.5	U	--	--	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	3.2	U	5	U	0.5	U	--	--	5	U	**0.265**	J	--	--	5	U	0.5	U	5	U	**0.052**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	5	U	**0.73**	--	--	--	**0.64**	J	**0.187**	J	--	--	5	U	0.5	U	5	U	**0.229**	J
Chromium (Total)	7440-47-3	ug/L	100	**77**	--	**0.59**	J	**1.786**	J	5.2	UJ	**0.63**	J	**0.348**	J	**53**	--	5	U	**0.441**	J	**3.4**	J	**0.336**	J
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	5	U	0.5	U	--	--	5	U	0.5	U	--	--	5	UJ	**0.528**	--	5	U	**8.116**	--
Cobalt (Total)	7440-48-4	ug/L	10	**14**	--	5	U	**0.133**	J	--	--	5	U	**0.139**	J	**25**	--	5	UJ	**0.76**	--	5	U	**8.432**	--
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	10	U	**1.256**	J	--	--	10	U	**1.742**	--	--	--	10	U	**1.121**	--	10	U	1.593	U
Copper (Total)	7440-50-8	ug/L	1300	37	U	10	U	0.544	U	--	--	10	U	0.782	U	**39**	--	10	U	1.7	U	10	U	1.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	125	U	50	U	--	--	**1490**	--	**425**	--	--	--	**356**	--	**542**	--	**20300**	--	**4500**	--
Iron (Total)	7439-89-6	ug/L	--	**19000**	--	**256**	--	**209**	J	**21000**	J	**1860**	--	**501**	--	**48000**	J	**1960**	--	**925**	--	**28500**	--	**7630**	--
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	15	U	0.5	U	--	--	15	U	0.5	U	--	--	15	U	0.5	U	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	7.1	U	15	U	**0.747**	J	--	--	15	U	**0.771**	--	**16**	J	15	U	**0.585**	--	15	U	**0.346**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	**0.33**	J	**0.339**	J	--	--	**2450**	--	**1458**	J	--	--	**1310**	--	**1402**	--	**1860**	--	**1327**	--
Manganese (Total)	7439-96-5	ug/L	500	**590**	J	**11.8**	--	**11.5**	--	**22000**	--	**2500**	--	**922.3**	J	**4000**	--	**1340**	--	**1440**	--	**1950**	--	**1424**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	5	U	0.084	U	--	--	5	U	1.089	U	--	--	5	U	**0.758**	--	5	UJ	**5.571**	--
Nickel (Total)	7440-02-0	ug/L	100	**47**	--	5	U	0.5	U	8.2	U	5	U	0.5	U	**44**	--	5	U	**0.713**	--	5	U	**6.745**	--
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	5	U	0.5	U	--	--	5	U	0.5	U	--	--	5	U	0.5	U	**0.56**	J	0.5	U
Silver (Total)	7440-22-4	ug/L	36	4.7	UJ	5	U	0.5	U	--	--	5	U	0.5	U	--	--	5	U	0.5	U	**0.47**	J	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	15	U	0.5	U	--	--	15	UJ	0.5	U	--	--	15	UJ	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	--	--	15	U	0.5	U	--	--	15	UJ	0.5	U	--	--	15	UJ	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	**1.2**	J	**1.926**	--	--	--	5	UJ	**0.166**	J	--	--	**1.1**	J	0.5	U	**1.1**	J	**0.187**	J
Vanadium (Total)	7440-62-2	ug/L	50	**43**	--	**1.6**	J	**2.773**	--	--	--	**1.1**	J	**0.658**	--	**92**	--	**4.9**	J	**1.313**	--	**6.6**	--	**0.959**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	25	U	**23.02**	--	--	--	25	U	22.43	U	--	--	25	U	15	U	25	U	24.93	U
Zinc (Total)	7440-66-6	ug/L	5000	**64**	--	25	U	**33.78**	J	14	UJ	25	U	14.88	UJ	**130**	--	**9**	J	18	U	**8.5**	J	20	U

Notes:
U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	P-6		P-6		PZO-204M		PZO-204M		PZO-2D		PZO-2D		PZO-2M		PZO-2M		PZO-3D		PZO-3D		PZO-3M		PZO-3M	
			Sample Date	5/20/2010 14:00		6/11/2014 8:45		5/17/2010 10:40		6/12/2014 10:30		5/11/2010 10:15		6/10/2014 13:00		5/11/2010 13:55		6/12/2014 9:50		5/14/2010 11:30		6/10/2014 13:05		5/13/2010 14:15		6/11/2014 13:50	
			Field Sample ID	P-6-05202010		P-6-HS-06112014		PZO-204M-05172010		PZO-204M-HS-06122014		PZO-2D-05112010		PZO-2D-06102014		PZO-2M-05112010		PZO-2M-HS-06122014		PZO-3D-05142010		PZO-3D-06102014		PZO-3M-05132010		PZO-3M-06112014	
			Well Group	C		C		C		C		R		R		R		R		C		C		C		C	
			HydroStratZone(s)	SBR		SBR		MOB		MOB		DOB		DOB		MOB		MOB		DOB		DOB		MOB		MOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	250	U	**49.4**	--	**146**	J	**10.3**	--	500	U	14.4	U	500	U	**3.58**	J	**433**	J	**16.6**	--	500	UJ	**7.22**	J
Aluminum (Total)	7429-90-5	ug/L	--	**238**	J	**652**	J	**1710**	--	**440**	J	**102**	J	**170**	J	**52**	J	**26.8**	J	**10400**	--	**3000**	J	**321**	J	**61.4**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	15	UJ	2	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U	15	U	2.6	U
Antimony (Total)	7440-36-0	ug/L	6	15	UJ	**0.36**	J	15	U	2	U	15	U	2	U	15	U	**1.12**	J	15	U	2	U	15	U	0.5	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	UJ	**1.282**	--	**5.7**	J	**1.899**	--	15	U	**0.448**	J	15	U	**0.466**	J	15	U	**0.61**	--	15	U	**1.837**	--
Arsenic (Total)	7440-38-2	ug/L	10	**6.6**	J	**2.58**	--	**9.5**	J	**2.605**	--	15	U	**0.65**	--	15	U	**0.503**	--	15	U	**1.188**	--	15	U	**1.91**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**1730**	--	**1562**	--	**562**	--	**409.1**	--	**229**	--	**232.2**	--	**311**	--	**275.9**	--	**102**	--	**194**	--	**274**	--	**298.1**	--
Barium (Total)	7440-39-3	ug/L	1000	**1780**	--	**2280**	--	**589**	--	**499.6**	--	**235**	--	**237.1**	--	**315**	--	**276.9**	--	**302**	--	**288.8**	--	**280**	--	**291.7**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	**0.14**	J	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	**0.69**	J	**0.196**	J	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.2	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	**0.06**	J
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.362**	J	**0.69**	J	**0.196**	J	5	U	**0.482**	J	5	U	0.5	U	**1.1**	J	**0.58**	--	5	U	**0.778**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	**1.51**	J	**3.2**	J	**0.89**	--	5	U	0.748	U	5	U	**0.224**	J	**19.8**	--	**6.062**	--	**0.77**	J	**0.685**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	**2.068**	--	5	U	**0.175**	J	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cobalt (Total)	7440-48-4	ug/L	10	5	U	**3.53**	--	5	U	**0.658**	--	5	U	**0.101**	J	5	U	0.5	U	**7.8**	--	**2.459**	--	5	U	0.5	U
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	**1.425**	--	10	U	**1.3**	J	10	U	1.052	U	10	U	**1.7**	J	10	U	**22.26**	J	10	U	0.704	U
Copper (Total)	7440-50-8	ug/L	1300	10	U	**3.26**	--	**4.9**	J	**1.391**	--	10	U	0.58	U	10	U	**0.87**	--	**16.1**	--	**4.93**		10	U	0.5	U
Iron (Dissolved)	7439-89-6	ug/L	--	**14300**	--	**10600**	--	**1290**	--	**299**	--	125	U	**19.1**	J	125	U	50	U	**460**	--	**22.6**	J	125	U	50	U
Iron (Total)	7439-89-6	ug/L	--	**15200**	--	**26200**	--	**3410**	--	**1290**	--	**122**	J	**175**	--	**72.5**	J	**46.2**	J	**10900**	--	**3150**	--	**330**	--	**53.3**	J
Lead (Dissolved)	7439-92-1	ug/L	--	15	U	**0.313**	J	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	U	**0.596**	--	15	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	U	**1.15**	J	15	UJ	**0.414**	J	15	UJ	0.5	U	15	UJ	**0.419**	J	15	U	**1.552**	--	15	U	0.5	UJ
Manganese (Dissolved)	7439-96-5	ug/L	--	**5790**	--	**3169**	--	**2200**	--	**802.3**	--	8	U	**0.928**	--	8	U	**0.682**	--	**20.8**	--	**1.71**	--	**0.29**	J	**0.269**	J
Manganese (Total)	7439-96-5	ug/L	500	**5900**	--	**5674**	--	**2250**	--	**1567**	--	**4.2**	J	**5.323**	--	**4.1**	J	**5.49**	--	**555**	--	**196.2**	--	**9.2**	--	**2.613**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**3.625**	--	5	U	**0.672**	--	5	U	0.5	U	5	U	0.57	U	5	U	0.5	U	5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	5	U	**8.61**	--	5	U	**0.936**	--	5	U	**0.087**	J	5	U	0.5	U	**17.8**	--	**5.1**	J	5	U	0.5	U
Silver (Dissolved)	7440-22-4	ug/L	--	**0.63**	J	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	**0.45**	J	0.4	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	UJ	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	**3.7**	J	**0.296**	J	**1.9**	J	**0.451**	J	5	U	**6.088**	--	5	U	**4.542**	--	**14.4**	--	**6.458**	--	**12.5**	--	**13.83**	--
Vanadium (Total)	7440-62-2	ug/L	50	**4.8**	J	**2.66**	J	**6.4**	J	**1.651**	--	5	U	**6.682**	--	5	U	**4.966**	--	**41**	--	**14.49**	--	**13.6**	--	**12.82**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	**33.12**	--	25	U	31	U	25	U	17.02	U	25	U	26	U	25	U	25.81	U	25	U	**33.19**	J
Zinc (Total)	7440-66-6	ug/L	5000	25	U	**43.93**	J	**8.6**	J	22	U	25	U	31	U	25	U	15.21	U	**43.8**	--	34	U	25	U	**29**	J

Notes:

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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	PZO-4D		PZO-4D		PZO-4M		PZO-4M		PZR-2DR		PZR-2DR		PZR-2R		PZR-2R		PZR-2R		PZR-3R		PZR-3R		PZR-3R	
			Sample Date	5/11/2010 15:15		6/11/2014 10:30		5/12/2010 10:30		6/11/2014 9:10		5/11/2010 13:35		6/12/2014 16:40		5/12/2010 12:00		6/10/2014 0:00		6/10/2014 14:00		5/12/2010 18:00		6/10/2014 0:00		6/10/2014 13:00	
			Field Sample ID	PZO-4D-05112010		PZO-4D-06112014		PZO-4M-05122010		PZO-4M-06112014		PZR-2DR-05112010		PZR-2DR-06122014		PZR-2R-05122010		DUP-GW-06102014#2		PZR-2R-06102014		PZR-3R-05122010		DUP-GW-06102014#1		PZR-3R-06102014	
			Well Group	C		C		C		C		C		C		R		R		R		C		C		C	
			HydroStratZone(s)	DOB		DOB		MOB		MOB		DBR		DBR		SBR		SBR		SBR		SBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
Metals																											
Aluminum (Dissolved)	7429-90-5	ug/L	--	500	U	**11.1**	--	500	U	**2.93**	J	500	U	**20.4**	--	500	U	10	U	10	U	500	UJ	10	U	10	U
Aluminum (Total)	7429-90-5	ug/L	--	**206**	J	**252**	J	**43.9**	J	**64.9**	J	**1630**	--	**930**	J	**158**	J	**160**	J	**270**	J	**1450**	--	**44.6**	--	**58.2**	--
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	2	U	15	U	1	U	15	U	2	U	2	U	15	U	2	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	1	U	15	U	1	U	15	U	2	U	15	U	1	U	2	U	15	U	1	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	U	0.5	U	15	U	0.5	U	15	U	0.92	U	15	U	**0.36**	J	**0.308**	J	15	UJ	**0.803**	--	**0.779**	--
Arsenic (Total)	7440-38-2	ug/L	10	15	U	0.5	U	15	U	0.5	U	15	U	**1.219**	--	15	U	**0.73**	--	**0.483**	J	15	UJ	**1.34**	--	**0.828**	--
Barium (Dissolved)	7440-39-3	ug/L	--	**101**	--	**111.9**	--	**89.6**	--	**91.93**	--	**31.5**	--	**28.27**	--	**28**	--	**22.68**	--	**21.64**	--	**171**	--	**137.2**	--	**139.6**	--
Barium (Total)	7440-39-3	ug/L	1000	**107**	--	**118.2**	--	**91.1**	--	**95.24**	--	**75.4**	--	**86.43**	--	**29.9**	--	**24.9**	--	**26.28**	--	**195**	--	**130.2**	--	**131.4**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.2	U	5	U	0.2	U	5	U	0.5	U	5	U	**0.08**	J	**0.083**	J	5	U	0.2	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	**0.221**	J	5	U	**0.208**	J	5	U	**0.34**	J	5	U	**0.265**	J	**0.194**	J	5	U	**0.5**	--	**0.45**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	**0.69**	J	5	U	**0.46**	J	**2.4**	J	**1.614**	--	5	U	**0.98**	J	**1.109**	--	**3**	J	0.79	U	0.685	U
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	**0.176**	J	**0.154**	J
Cobalt (Total)	7440-48-4	ug/L	10	5	U	**0.21**	J	5	U	**0.07**	J	5	U	**0.493**	J	5	U	**0.16**	J	**0.168**	J	5	U	**0.74**	--	**0.571**	--
Copper (Dissolved)	7440-50-8	ug/L	--	10	U	0.871	U	10	U	**1.418**	J	10	U	**0.59**	J	10	U	0.5	U	0.5	U	10	U	0.5	U	0.5	U
Copper (Total)	7440-50-8	ug/L	1300	10	U	**1.87**	--	10	U	**0.31**	J	10	U	**0.678**	--	10	U	**1.76**	--	**1.785**	--	10	U	1.1	U	0.9	U
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	**16.8**	J	125	U	50	U	**30.8**	J	50	U	125	U	50	U	**13.7**	J	125	U	**27.9**	J	**27.7**	J
Iron (Total)	7439-89-6	ug/L	--	**253**	--	**247**	J	125	U	**77.3**	J	**1280**	--	**804**	--	**165**	--	**170**	--	**270**	--	**1390**	--	**42.3**	J	**115**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	0.5	U	15	U	0.5	U	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	UJ	**0.25**	J	15	UJ	**0.05**	J	15	UJ	**0.766**	--	15	UJ	**0.41**	J	**0.464**	J	15	U	**0.21**	J	**0.174**	J
Manganese (Dissolved)	7439-96-5	ug/L	--	**4.1**	J	**1.385**	--	**0.33**	J	**0.161**	J	**20**	--	**53.83**	--	**18.7**	--	**4.934**	--	**4.77**	--	**0.35**	J	**2.56**	--	**2.35**	--
Manganese (Total)	7439-96-5	ug/L	500	**15.3**	--	**18.3**	--	**4.8**	J	**3.52**	--	**63.5**	--	**79.62**	--	**17.7**	--	**10.17**	--	**11.64**	--	**46.5**	--	**5.55**	--	**6.379**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	**1.47**	--	**8.2**	--	**1.951**	--	**1.873**	--	5	U	0.5	U	0.5	U
Nickel (Total)	7440-02-0	ug/L	100	5	U	0.5	U	5	U	0.5	U	5	U	**2.156**	--	**9.2**	--	**3.41**	--	**3.081**	--	5	U	**1.8**	J	**0.21**	J
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	0.5	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.4	U	5	U	0.4	U	5	U	0.5	U	5	U	0.4	U	0.5	U	5	U	0.4	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	0.5	U	15	U	0.5	U	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	15	U	0.5	U	0.5	U	15	U	0.5	U	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	5	UJ	**0.8**	--	5	UJ	**0.629**	--	**3**	J	**0.22**	J	**1.1**	J	**0.283**	J	**0.352**	J	**8.4**	J	**8.599**	--	**8.461**	--
Vanadium (Total)	7440-62-2	ug/L	50	**1.1**	J	**1.37**	J	5	UJ	**0.88**	J	6.4	U	**2.477**	--	**1.1**	J	**0.77**	J	**0.93**	--	**11.7**	--	**8.14**	--	**8.194**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	**15.96**	--	25	U	**18.09**	--	25	U	20	U	25	U	19	U	18	U	25	U	16	U	12	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	**28.78**	J	25	U	**24.39**	J	25	U	17	U	25	U	30	U	25	U	**10.2**	J	12	U	19	U

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated
R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	PZR-4DR		PZR-4DR		PZR-4R		PZR-4R		PZR-4R		PZR-5R		PZR-5R		SRS-1		SRS-1		SRS-3		SRS-3	
			Sample Date	5/11/2010 16:00		6/12/2014 10:15		5/11/2010 12:15		6/12/2014 0:00		6/12/2014 10:15		5/15/2010 12:30		6/12/2014 11:50		5/18/2010 10:10		6/12/2014 16:10		5/18/2010 12:10		6/13/2014 10:40	
			Field Sample ID	PZR-4DR-05112010		PZR-4DR-06122014		PZR-4R-05112010		DUP-GW-06122014-#4		PZR-4R-06122014		PZR-5R-05152010		PZR-5R-06122014		SRS-1-05182010		SRS-1-06122014		SRS-3-05182010		SRS-3-06132014	
			Well Group	C		C		C		C		C		C		C		C		C		C		C	
			HydroStratZone(s)	DBR		DBR		SBR		SBR		SBR		SBR		SBR		DOB		DOB		DOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																						
Metals																									
Aluminum (Dissolved)	7429-90-5	ug/L	--	500	U	**4.54**	J	500	U	10	U	**3.15**	J	**11.7**	J	**5.41**	J	**69.3**	J	**5.81**	J	250	UJ	**18.6**	--
Aluminum (Total)	7429-90-5	ug/L	--	**143**	J	**5.66**	J	**290**	J	**32**	J	**58**	J	**358**	--	**40**	J	**1590**	--	**3200**	J	**1340**	--	**370**	--
Antimony (Dissolved)	7440-36-0	ug/L	--	15	U	2	U	15	U	2	U	2	U	15	U	2	U	15	U	1	U	15	U	2	U
Antimony (Total)	7440-36-0	ug/L	6	15	U	2	U	15	U	2	U	2	U	15	U	2	U	15	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	15	U	**0.185**	J	15	U	0.5	U	**0.192**	J	15	UJ	**0.665**	--	15	UJ	0.5	U	15	UJ	**0.37**	J
Arsenic (Total)	7440-38-2	ug/L	10	15	U	**0.168**	J	15	U	**0.201**	J	**0.329**	J	15	UJ	**0.888**	--	15	UJ	**0.584**	--	15	UJ	**1.147**	J
Barium (Dissolved)	7440-39-3	ug/L	--	**8.5**	--	**6.227**	--	**204**	--	**239.4**	--	**236.8**	--	**7.8**	--	**7.539**	--	**144**	--	**160.4**	--	**487**	--	**532**	--
Barium (Total)	7440-39-3	ug/L	1000	**11.3**	--	**6.267**	--	**204**	--	**248.2**	--	**249.2**	--	**11.9**	--	**7.962**	--	**169**	--	**201.7**	--	**509**	--	**603.7**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Beryllium (Total)	7440-41-7	ug/L	4	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Cadmium (Total)	7440-43-9	ug/L	5	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	5	U	0.5	U	5	U	**0.36**	J	**0.374**	J	5	U	**0.18**	J	5	U	**0.54**	--	5	U	**0.15**	J
Chromium (Total)	7440-47-3	ug/L	100	5	U	0.5	U	5	U	**0.418**	J	**0.489**	J	5	U	**0.231**	J	5	U	**2.297**	--	5	U	**0.719**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	5	U	0.5	U	5	U	**0.374**	J	**0.362**	J	5	U	0.5	U	5	UJ	0.5	U	5	UJ	**0.201**	J
Cobalt (Total)	7440-48-4	ug/L	10	5	U	0.5	U	5	U	**0.782**	--	**0.945**	--	5	U	0.5	U	5	UJ	**1.104**	--	5	UJ	**0.534**	--
Copper (Dissolved)	7440-50-8	ug/L	--	**1.9**	J	**0.458**	J	10	U	**1.4**	J	**0.294**	J	10	U	**0.73**	J	10	U	**1.3**	J	10	U	**1.62**	--
Copper (Total)	7440-50-8	ug/L	1300	**2.1**	J	**0.248**	J	10	U	**0.569**	--	**0.688**	--	10	U	**0.458**	J	10	U	**3.924**	--	10	U	2.025	U
Iron (Dissolved)	7439-89-6	ug/L	--	125	U	**51.2**	--	125	U	50	U	50	U	125	U	**64.1**	--	**110**	J	50	U	**163**	--	**91.6**	--
Iron (Total)	7439-89-6	ug/L	--	125	U	**75.9**	--	**260**	--	**36.6**	J	**61.4**	--	**324**	--	**164**	--	**1790**	--	**1880**	--	**1580**	--	**910**	--
Lead (Dissolved)	7439-92-1	ug/L	--	15	UJ	0.5	U	15	UJ	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Lead (Total)	7439-92-1	ug/L	15	15	UJ	0.5	U	15	UJ	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	**1.03**	--	15	UJ	**0.537**	--
Manganese (Dissolved)	7439-96-5	ug/L	--	**25.3**	--	**11.12**	--	**1.7**	J	**0.819**	--	**0.319**	J	**13.2**	--	**19.63**	--	**39.7**	--	**3.79**	--	**1490**	--	**1687**	--
Manganese (Total)	7439-96-5	ug/L	500	**44.3**	--	**50.09**	--	**12.5**	--	**9.663**	--	**10.43**	--	**61**	--	**105.9**	--	**98**	--	**69.4**	--	**1550**	--	**2042**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	5	U	**0.12**	J	5	U	**0.63**	J	**0.087**	J	5	U	**0.43**	J	5	U	**0.9**	--	5	U	**0.764**	--
Nickel (Total)	7440-02-0	ug/L	100	5	U	0.5	U	5	U	**0.291**	J	**0.243**	J	5	U	**0.354**	J	5	U	**1.809**	--	5	U	**0.731**	--
Silver (Dissolved)	7440-22-4	ug/L	--	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.27	U
Silver (Total)	7440-22-4	ug/L	36	5	U	0.5	U	5	U	0.5	U	0.5	U	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	15	U	0.5	U	15	U	0.5	U	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Thallium (Total)	7440-28-0	ug/L	2	15	U	0.5	U	15	U	0.5	U	0.5	U	15	UJ	1	U	15	UJ	0.5	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	5	UJ	**0.206**	J	**1.3**	J	**1.165**	--	**1.291**	--	**8.9**	J	**10.03**	--	5	UJ	**0.68**	--	5	UJ	**0.353**	J
Vanadium (Total)	7440-62-2	ug/L	50	5	UJ	**0.178**	J	5	U	**1.417**	--	**1.381**	--	**10.7**	--	**11.9**	--	**5.4**	J	**6.075**	--	**4.4**	J	**2.103**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	25	U	12	U	25	U	17	U	14	U	25	U	17	U	25	U	22	U	25	U	22	U
Zinc (Total)	7440-66-6	ug/L	5000	25	U	8.2	U	25	U	16	U	14	U	25	U	11	U	**6.1**	J	21.35	U	**6.2**	J	21.58	U

Notes:
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R = Rejected, the reported result is unusable
ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
Shaded Cell = Analyte detected above the Action Level
SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
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Table 5 – Metals – Groundwater Sample Results – June 2014 and Historical
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	TW-08A		TW-08A		TW-08A		TW-08A		TW-08A		TW-08B		TW-08B		TW-08D		TW-08D	
			Sample Date	6/28/1990 0:00		8/26/1991 0:00		12/3/1992 0:00		5/25/2010 10:55		6/12/2014 14:50		5/24/2010 11:30		6/12/2014 15:00		5/24/2010 15:10		6/12/2014 15:10	
			Field Sample ID	TW8A-H1		TW8A-H2		TW8A-H3		TW-08A-05252010		TW-08A-HS-06122014		TW-08B-05242010		TW-08B-HS-06122014		TW-08D-05242010		TW-08D-HS-06122014	
			Well Group	N		N		N		N		N		N		N		N		N	
			HydroStratZone(s)	MOB		MOB		MOB		MOB		MOB		SBR		SBR		DOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																		
Metals																					
Aluminum (Dissolved)	7429-90-5	ug/L	--	--	--	--	--	--	--	250	UJ	--	R	250	UJ	**23.1**	--	250	UJ	**5.18**	J
Aluminum (Total)	7429-90-5	ug/L	--	**24000**	--	**6600**	--	**23400**	J	**192**	J	--	R	**1360**	--	**4200**	J	**314**	--	**49**	J
Antimony (Dissolved)	7440-36-0	ug/L	--	--	--	--	--	--	--	15	U	1	U	15	U	2	U	15	UJ	2	U
Antimony (Total)	7440-36-0	ug/L	6	--	--	11	UJ	16.9	U	15	U	2	U	15	U	2	U	15	U	2	U
Arsenic (Dissolved)	7440-38-2	ug/L	--	--	--	--	--	--	--	15	U	**5.4**	J	15	U	**2.013**	--	**7.3**	J	**5.32**	--
Arsenic (Total)	7440-38-2	ug/L	10	**25**	--	**18**	--	**23.3**	J	15	U	**4.824**	--	15	U	**6.497**	--	15	U	**5.611**	--
Barium (Dissolved)	7440-39-3	ug/L	--	--	--	--	--	--	--	**288**	--	**600**	J	**1330**	--	**1134**	--	**1360**	--	**1133**	--
Barium (Total)	7440-39-3	ug/L	1000	**1100**	--	**790**	--	**797**	--	**290**	--	**516**	--	**1310**	--	**1358**	--	**1340**	--	**1212**	--
Beryllium (Dissolved)	7440-41-7	ug/L	--	--	--	--	--	--	--	5	U	0.5	U	5	U	0.5	U	5	U	1	U
Beryllium (Total)	7440-41-7	ug/L	4	**4**	--	--	--	0.4	U	5	U	0.5	U	5	U	**0.539**	--	5	U	0.5	U
Cadmium (Dissolved)	7440-43-9	ug/L	--	--	--	--	--	--	--	5	U	0.51	U	5	U	0.5	U	5	U	1	U
Cadmium (Total)	7440-43-9	ug/L	5	**5.2**	--	**2.2**	J	8.5	UJ	5	U	0.5	U	5	U	**0.106**	J	5	U	0.5	U
Chromium (Dissolved)	7440-47-3	ug/L	--	--	--	--	--	--	--	**6.5**	--	--	R	**3.5**	J	**0.632**	--	**2.9**	J	**1.42**	--
Chromium (Total)	7440-47-3	ug/L	100	**130**	--	**56**	--	**165**	J	**10.3**	--	--	R	**7.8**	--	**28.02**	--	**12.1**	--	**1.612**	--
Cobalt (Dissolved)	7440-48-4	ug/L	--	--	--	--	--	--	--	5	U	**0.96**	J	5	U	**2.304**	--	5	U	**2.68**	--
Cobalt (Total)	7440-48-4	ug/L	10	32	U	**17**	--	**23.5**	--	5	U	**0.434**	J	**3.1**	J	**5.109**	--	5	U	**2.673**	--
Copper (Dissolved)	7440-50-8	ug/L	--	--	--	--	--	--	--	10	U	--	R	10	U	**1**	J	10	U	**0.72**	J
Copper (Total)	7440-50-8	ug/L	1300	**82**	--	**50**	--	**115**	--	10	U	--	R	10	U	**13.94**	--	**3.6**	J	**4.215**	--
Iron (Dissolved)	7439-89-6	ug/L	--	--	--	--	--	--	--	**15300**	--	**34000**	J	**13100**	--	**3500**	--	**24500**	--	**28900**	--
Iron (Total)	7439-89-6	ug/L	--	**68000**	--	**43000**	--	**52400**	--	**15700**	--	**30000**	--	**14100**	--	**12100**	--	**24300**	--	**30300**	--
Lead (Dissolved)	7439-92-1	ug/L	--	--	--	--	--	--	--	15	UJ	1.3	U	15	UJ	0.5	U	15	UJ	1	U
Lead (Total)	7439-92-1	ug/L	15	**19**	J	**11**	--	**34.4**	J	15	UJ	0.5	U	15	UJ	**5.253**	--	15	UJ	0.5	U
Manganese (Dissolved)	7439-96-5	ug/L	--	--	--	--	--	--	--	**4060**	--	**7528**	--	**11600**	--	**5280**	--	**10000**	--	**9152**	--
Manganese (Total)	7439-96-5	ug/L	500	**9100**	--	**7300**	--	**5560**	--	**4140**	--	**7300**	--	**11400**	--	**5760**	--	**9750**	--	**9415**	--
Nickel (Dissolved)	7440-02-0	ug/L	--	--	--	--	--	--	--	5	U	**2.7**	J	**8.7**	--	**14.22**	--	5	U	**3.56**	--
Nickel (Total)	7440-02-0	ug/L	100	**50**	--	23	U	**55.3**	--	5	U	**1.02**	--	**10.5**	--	**25.79**	--	6	U	**4.052**	--
Silver (Dissolved)	7440-22-4	ug/L	--	--	--	--	--	--	--	5	U	0.5	U	5	U	0.5	U	5	U	1	U
Silver (Total)	7440-22-4	ug/L	36	**13**	--	--	--	2.5	UJ	5	U	0.5	U	5	U	0.5	U	5	U	0.5	U
Thallium (Dissolved)	7440-28-0	ug/L	--	--	--	--	--	--	--	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	1	U
Thallium (Total)	7440-28-0	ug/L	2	--	--	--	--	3.8	UJ	15	UJ	0.5	U	15	UJ	0.5	U	15	UJ	0.5	U
Vanadium (Dissolved)	7440-62-2	ug/L	--	--	--	--	--	--	--	**2**	J	**4.4**	J	**5.1**	--	**0.773**	--	**4.2**	J	**0.68**	J
Vanadium (Total)	7440-62-2	ug/L	50	**89**	--	**26**	J	**76.1**	--	**2.2**	J	**0.599**	--	**9.2**	--	**19.76**	--	**5.5**	J	**0.593**	--
Zinc (Dissolved)	7440-66-6	ug/L	--	--	--	--	--	--	--	25	U	14	U	25	U	29	U	25	U	32	U
Zinc (Total)	7440-66-6	ug/L	5000	**110**	J	57	UJ	**138**	J	25	U	31	U	25	U	40	U	25	U	21	U

Notes:
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ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)
Bold = Analyte detected above the laboratory reporting limit
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SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 6 – MNA Parameters – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location			CPZ-4A		MW-03		MW-1002DR		MW-1002R		MW-1003DR		MW-1003R		MW-121B		MW-121C		MW-121M		MW-124C		MW-126B		MW-127C		MW-413	
Sample Date			6/12/2014 15:15		6/9/2014 12:30		6/11/2014 14:00		6/11/2014 15:10		6/11/2014 13:15		6/10/2014 11:55		6/11/2014 15:40		6/11/2014 14:45		6/13/2014 10:05		6/12/2014 10:35		6/10/2014 15:50		6/11/2014 9:15		6/11/2014 10:45	
Field Sample ID			CPZ-4A-06122014		MW-03-06092014		MW-1002DR-HS-0611201		MW-1002R-06112014		MW-1003DR-HS-0611201		MW-1003R-06102014		MW-121B-HS-06112014		MW-121C-HS-06112014		MW-121M-06132014		MW-124C-06122014		MW-126B-06102014		MW-127C-06112014		MW-413-HS-06112014	
Well Group			R		R		R		R		R		R		R		R		R		R		M		R		N	
HydroStratZone(s)			SOB, MOB		MOB		DBR		SBR		DBR		SBR		DOB		SBR		MOB		SBR		MOB		SBR		DOB	
Analyte	**CAS No.**	**Unit**																										
MNA (Water)																												
Alkalinity	ALK	mg/L	**195**	--	**113**	--	**25.8**	--	**26.4**	--	**424**	--	**47.5**	--	**224**	--	**223**	--	**112**	--	**126**	--	**111**	--	**123**	--	**231**	--
Chloride	16887-00-6	mg/L	**12.3**	--	**18.7**	--	**571**	--	**1040**	--	**245**	--	**154**	--	**50.4**	--	**50.6**	--	**29.3**	--	**22**	--	**97**	--	**28.6**	--	**64.2**	--
Sulfate	14808-79-8	mg/L	**33.7**	--	**14**	--	**317**	--	**818**	--	**107**	--	**718**	--	**0.608**	J	**2.85**	--	**3.54**	--	**50.8**	--	**14**	--	**20**	--	1	U
Iron (Dissolved)	7439-89-6	ug/L	**15900**	--	50	U	**32.6**	J	**129**	--	**42**	J	**43**	J	**1810**	--	50	U	**1640**	--	**36.3**	J	**16.6**	J	**27.4**	J	**39800**	--
Manganese (Dissolved)	7439-96-5	ug/L	**3152**	--	**29.17**	--	**1.684**	--	**29.85**	--	0.5	U	**11**	J	**2464**	--	0.5	U	**3926**	--	**17.74**	--	**1190**	--	**1.961**	--	**8360**	--
Nitrate as N	14797-55-8	mg/L	0.079	U	**0.187**	--	**0.079**	J	0.1	U	0.1	U	0.1	U	**0.038**	J	0.1	U	0.027	U	**1.52**	--	**0.238**	--	**1.55**	--	**0.145**	--
Nitrite as N	14797-65-0	mg/L	0.038	U	0.05	U	0.05	U	0.05	U	0.24	U	**0.1**	--	0.05	U	0.05	U	0.025	U	0.016	U	0.05	U	0.05	U	0.082	U
Total Organic Carbon	TOC	mg/L	**2.8**	J	**1.1**	J	1.1	UJ	**1.4**	J	**9.4**	J	**3.2**	J	**5.3**	J	**4.8**	J	**1.8**	J	**0.24**	J	**3.2**	J	1.6	UJ	**25**	J
Ethane	74-84-0	ug/L	**130**	--	0.025	U	**5**	--	0.025	U	**0.16**	--	**0.11**	--	**340**	--	**230**	--	**52**	--	**0.0084**	J	0.025	U	0.025	U	**60**	--
Ethene	74-85-1	ug/L	**20**	--	0.025	U	**0.26**	--	0.41	--	**1**	--	**0.91**	--	**0.081**	--	**0.74**	--	**0.2**	--	**0.0098**	J	0.025	U	0.025	U	**2700**	--
Methane	74-82-8	ug/L	**8700**	--	0.3	U	**81**	--	0.42	U	4.2	U	0.77	U	**11000**	--	**8600**	--	**550**	--	**2**	--	**49**	--	0.46	U	**1300**	--

Notes:
U = Analyte not detected above the laboratory reporting limit
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ug/L = micrograms per liter
mg/L = milligrams per liter
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SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 6 – MNA Parameters – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location			MW-415		MW-416		MW-502		MW-701DR		MW-704D		MW-704D		MW-704DR		MW-704M		MW-705DR		MW-706DR		MW-707DR		MW-901R		MW-902D	
Sample Date			6/11/2014 9:55		6/12/2014 13:20		6/11/2014 9:15		6/9/2014 16:10		6/12/2014 0:00		6/12/2014 8:50		6/13/2014 9:40		6/12/2014 10:15		6/13/2014 9:45		6/12/2014 8:30		6/11/2014 11:10		6/10/2014 15:20		6/12/2014 0:00	
Field Sample ID			MW-415-HS-06112014		MW-416-HS-06122014		MW-502-HS-06112014		MW-701DR-06092014		DUP-GW-06122014-#6		MW-704D-06122014		MW-704DR-06132014		MW-704M-06122014		MW-705DR-HS-06132014		MW-706DR-HS-06122014		MW-707DR-06112014		MW-901R-06102014		DUP-GW-06122014-#7	
Well Group			N		N		R		M		R		R		R		R		R		R		R		M		N	
HydroStratZone(s)			MOB		SBR		DOB		DBR		DOB		DOB		DBR		MOB		DBR		DBR		DBR		SBR		DOB	
Analyte	**CAS No.**	**Unit**																										
MNA (Water)																												
Alkalinity	ALK	mg/L	**61.2**	--	**118**	--	**372**	--	**80.2**	--	**124**	--	**124**	--	**140**	--	**122**	--	**97**	--	**13.1**	--	**79.6**	--	**71.5**	--	**156**	--
Chloride	16887-00-6	mg/L	**18.3**	--	**10.6**	--	**146**	--	**7.64**	--	**15.7**	--	**16**	--	**79.5**	--	**15.2**	--	**39.8**	--	**25.9**	--	**97.7**	--	**32**	--	--	--
Sulfate	14808-79-8	mg/L	**23.7**	--	**99**	--	1	U	**133**	--	**3.93**	--	**4.01**	--	**41.4**	--	**5.22**	--	**147**	--	**1460**	--	**108**	--	**11.2**	--	--	--
Iron (Dissolved)	7439-89-6	ug/L	**1920**	--	50	U	**11500**	--	**67.5**	--	**404**	--	**416**	--	**159**	--	**313**	--	**72.1**	--	**283**	--	**51**	--	**19.9**	J	--	--
Manganese (Dissolved)	7439-96-5	ug/L	**1273**	--	**37.48**	--	**2085**	--	**6**	J	**2087**	--	**2117**	--	**1059**	--	**1815**	--	**8.175**	--	**61.26**	--	**57.77**	--	**2.875**	--	--	--
Nitrate as N	14797-55-8	mg/L	**0.016**	J	**0.635**	--	**0.024**	J	**0.525**	--	**0.283**	--	0.041	U	0.072	U	0.025	U	0.289	U	0.089	U	**0.504**	--	**1.58**	--	--	--
Nitrite as N	14797-65-0	mg/L	0.05	U	0.045	U	0.05	U	0.05	U	0.028	U	0.019	U	0.05	U	0.1	U	0.083	U	0.022	U	0.05	U	0.05	U	--	--
Total Organic Carbon	TOC	mg/L	**9.6**	J	**0.35**	J	**17**	J	**0.94**	J	**1.3**	J	**1.3**	J	**1.3**	J	**1**	J	**69**	J	**0.66**	J	2.5	UJ	**1.5**	J	**11**	J
Ethane	74-84-0	ug/L	**1.1**	--	**0.49**	--	**190**	--	0.025	U	**61**	--	**70**	--	**34**	--	**17**	--	**5.1**	--	**0.032**	J	**0.042**	--	0.025	U	**15**	J
Ethene	74-85-1	ug/L	**14**	--	**1.1**	--	**0.66**	--	0.025	U	**0.053**	--	**0.054**	--	**0.22**	--	**0.041**	--	**17**	--	**0.28**	--	**0.1**	--	0.025	U	**1700**	J
Methane	74-82-8	ug/L	**14**	--	**66**	--	**28000**	--	0.2	U	**1700**	--	**1900**	--	**1700**	--	**1200**	--	**130**	--	**1.6**	--	4.6	U	0.13	U	**420**	J

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DBR = Deep Bedrock

Table 6 – MNA Parameters – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location			MW-902D		MW-902M		MW-902M		MW-907D		MW-907DR		MW-907M		MW-907M		MWL-304		MWL-307		MWL-309		P-101B		P-101C		P-11A	
Sample Date			6/12/2014 13:45		6/12/2014 0:00		6/12/2014 14:20		6/10/2014 15:00		6/10/2014 13:15		6/10/2014 0:00		6/10/2014 14:30		6/13/2014 9:00		6/12/2014 11:10		6/13/2014 10:55		6/12/2014 12:25		6/12/2014 12:25		6/11/2014 8:00	
Field Sample ID			MW-902D-HS-06122014		DUP-GW-06122014-#8		MW-902M-HS-06122014		MW-907D-HS-06102014		MW-907DR-HS-06102014		DUP-GW-06102014#3		MW-907M-HS-06102014		MWL-304-HS-06132014		MWL-307-HS-06122014		MWL-309-06132014		P-101B-06122014		P-101C-06122014		P-11A-HS-06112014	
Well Group			N		N		N		R		R		R		R		N		N		R		R		R		R	
HydroStratZone(s)			DOB		MOB		MOB		DOB		DBR		MOB		MOB		SOB		SOB		SOB		MOB		SOB		SBR	
Analyte	**CAS No.**	**Unit**																										
MNA (Water)																												
Alkalinity	ALK	mg/L	**153**	--	--	--	**277**	--	**260**	--	**15.6**	--	--	--	**342**	--	**109**	--	**118**	--	**370**	--	**175**	--	**122**	--	**157**	--
Chloride	16887-00-6	mg/L	**49.3**	--	**38.5**	--	**38.5**	--	**85.8**	--	**72.4**	--	**138**	--	**138**	--	**28.4**	--	**61.7**	--	**158**	--	**28.7**	--	**20.5**	--	**64.7**	--
Sulfate	14808-79-8	mg/L	**4.19**	--	1	U	1	U	**4.19**	--	**1440**	--	1	U	**0.343**	J	10.1	U	**19.1**	--	**3.61**	J	**8.69**	--	**14.6**	--	**54.1**	--
Iron (Dissolved)	7439-89-6	ug/L	**27100**	--	--	--	**28600**	--	**5150**	--	**45.3**	J	--	--	**9720**	--	**17400**	--	**14900**	--	**4150**	--	**1100**	--	**96.5**	--	**670**	--
Manganese (Dissolved)	7439-96-5	ug/L	**4350**	--	--	--	**5885**	--	**2820**	--	**36.61**	--	--	--	**3649**	--	**4638**	--	**3020**	--	**3094**	--	**1005**	--	**1172**	--	**1399**	--
Nitrate as N	14797-55-8	mg/L	**0.174**	--	0.044	U	0.112	U	0.1	U	0.1	U	0.1	U	0.1	U	0.093	U	0.102	U	**0.133**	--	0.1	U	0.059	U	0.1	U
Nitrite as N	14797-65-0	mg/L	0.072	U	0.079	U	0.068	U	0.05	U	0.05	U	0.05	U	0.05	U	0.04	U	0.055	U	0.024	U	0.05	U	0.018	U	0.05	U
Total Organic Carbon	TOC	mg/L	**11**	J	--	--	**14**	J	**8.5**	J	**2.6**	J	--	--	**16**	J	**1.7**	J	**20**	J	**5.1**	J	**0.66**	J	**0.36**	J	**6.2**	J
Ethane	74-84-0	ug/L	**22**	J	--	--	**850**	--	**340**	--	0.16	--	--	--	**350**	--	**13**	--	**1.3**	--	**80**	--	**230**	--	**120**	--	**500**	--
Ethene	74-85-1	ug/L	**2500**	J	--	--	**2000**	--	**1.1**	--	**0.69**	--	--	--	**0.31**	--	**530**	--	**110**	--	**0.76**	--	**0.92**	--	**3.5**	--	**120**	--
Methane	74-82-8	ug/L	**570**	J	--	--	**7100**	--	**14000**	--	1.7	U	--	--	**22000**	--	**550**	--	**8.1**	--	**920**	--	**4800**	--	**680**	--	**7500**	--

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SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 6 – MNA Parameters – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location			P-12		P-13		PZO-2D		PZO-2M		PZO-2M		PZR-2R		TW-08A		TW-08B		TW-08D	
Sample Date			6/9/2014 17:00		6/11/2014 14:00		6/10/2014 13:00		6/12/2014 0:00		6/12/2014 9:50		6/10/2014 14:00		6/12/2014 14:50		6/12/2014 15:00		6/12/2014 15:10	
Field Sample ID			P-12-06092014		P-13-06112014		PZO-2D-06102014		DUP-GW-06122014-#1		PZO-2M-HS-06122014		PZR-2R-06102014		TW-08A-HS-06122014		TW-08B-HS-06122014		TW-08D-HS-06122014	
Well Group			M		R		R		R		R		R		N		N		N	
HydroStratZone(s)			SOB		SOB		DOB		MOB		MOB		SBR		MOB		SBR		DOB	
Analyte	**CAS No.**	**Unit**																		
MNA (Water)																				
Alkalinity	ALK	mg/L	**73.6**	--	**95.9**	--	**89.7**	--	**96**	--	**96**	--	**50.6**	--	**203**	--	**237**	--	**232**	--
Chloride	16887-00-6	mg/L	**50.8**	--	**10.8**	--	**13.6**	--	--	--	**5.47**	--	**26.9**	--	**45.1**	--	**198**	--	**76**	--
Sulfate	14808-79-8	mg/L	**14.2**	--	**10.6**	--	**13.9**	--	--	--	**8.43**	--	**87.5**	--	**0.248**	J	**7.45**	--	1	U
Iron (Dissolved)	7439-89-6	ug/L	**26.6**	J	50	U	**19.1**	J	--	--	50	U	**13.7**	J	**34000**	J	**3500**	--	**28900**	--
Manganese (Dissolved)	7439-96-5	ug/L	**2.644**	--	**0.339**	J	**0.928**	--	--	--	**0.682**	--	**4.77**	--	**7528**	--	**5280**	--	**9152**	--
Nitrate as N	14797-55-8	mg/L	**0.374**	--	**0.822**	--	**0.53**	--	--	--	0.044	U	0.1	U	**0.129**	--	**2.06**	--	**0.148**	--
Nitrite as N	14797-65-0	mg/L	0.05	U	0.05	U	0.05	U	--	--	0.012	U	0.05	U	**0.083**	--	0.05	U	0.073	U
Total Organic Carbon	TOC	mg/L	**1.7**	J	1.6	UJ	**1.1**	J	1	UJ	**0.22**	J	**1.2**	J	**14**	J	**21**	J	**23**	J
Ethane	74-84-0	ug/L	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	**0.08**	--	**75**	--	**44**	--	**51**	--
Ethene	74-85-1	ug/L	0.025	U	0.025	U	0.025	U	0.04	U	0.036	U	**0.046**	--	**1000**	--	**2400**	--	**3600**	--
Methane	74-82-8	ug/L	0.25	U	0.94	U	0.32	U	0.63	U	0.59	U	**35**	--	**1800**	--	**2100**	--	**1500**	--

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mg/L = milligrams per liter
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SOB = Shallow Overburden
MOB = Middle Overburden
DOB = Deep Overburden
SBR = Shallow Bedrock
DBR = Deep Bedrock

Table 7 – 1,4-Dioxane – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

			Sample Location	CPZ-1		CPZ-10		CPZ-10R		CPZ-1R		CPZ-2A		CPZ-2R		CPZ-3		CPZ-3R		CPZ-4A		CPZ-4R		CPZ-5		CPZ-5R	
			Sample Date	6/12/2014 14:25		6/9/2014 13:05		6/12/2014 14:25		6/12/2014 14:10		6/13/2014 9:10		6/13/2014 9:40		6/12/2014 9:15		6/12/2014 9:50		6/12/2014 15:15		6/11/2014 15:25		6/12/2014 10:20		6/12/2014 0:00	
			Field Sample ID	CPZ-1-06122014		CPZ-10-06092014		CPZ-10R-HS-06122014		CPZ-1R-06122014		CPZ-2A-06132014		CPZ-2R-06132014		CPZ-3-HS-06122014		CPZ-3R-HS-06122014		CPZ-4A-06122014		CPZ-4R-HS-06112014		CPZ-5-HS-06122014		DUP-GW-06122014-#3	
			Well Group	C		C		C		C		C		C		C		C		R		C		C		C	
			HydroStratZone(s)	SOB, MOB		MOB		SBR		SBR		SOB, MOB		SBR		SOB, MOB		SBR		SOB, MOB		SBR		MOB		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	**2.13**	--	0.142	U	15	UJ	**2.79**	--	**0.773**	--	**2.49**	--	**39**	J	**98**	J	**49.8**	--	**140**	--	**21**	J	60	U

			Sample Location	CPZ-5R		CPZ-6		CPZ-6		CPZ-6A		CPZ-6R		CPZ-7		CPZ-7		CPZ-7R		CPZ-8		DN-3		MW-03		MW-05	
			Sample Date	6/12/2014 10:45		6/12/2014 0:00		6/12/2014 8:05		6/11/2014 15:00		6/12/2014 8:40		6/12/2014 0:00		6/12/2014 13:15		6/12/2014 13:50		6/13/2014 10:30		6/12/2014 14:05		6/9/2014 12:30		6/11/2014 12:20	
			Field Sample ID	CPZ-5R-HS-06122014		DUP-GW-06122014-#2		CPZ-6-HS-06122014		CPZ-6A-HS-06112014		CPZ-6R-HS-06122014		DUP-GW-06122014-#5		CPZ-7-HS-06122014		CPZ-7R-HS-06122014		CPZ-8-06132014		DN-3-06122014		MW-03-06092014		MW-05-HS-06112014	
			Well Group	C		C		C		C		C		C		C		C		C		C		R		C	
			HydroStratZone(s)	SBR		MOB		MOB		MOB, DOB		SBR		SOB, MOB		SOB, MOB		SBR		MOB		DOB		MOB		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	30	U	**26**	J	**45**	J	**1200**	--	**940**	J	6	U	6	U	6000	UJ	**0.309**	--	**2**	--	**3.46**	--	**350**	--

			Sample Location	MW-1001M		MW-1001R		MW-1002DR		MW-1002R		MW-1003DR		MW-1003R		MW-121A		MW-121B		MW-121C		MW-121M		MW-124C		MW-125C	
			Sample Date	6/11/2014 9:40		6/11/2014 10:35		6/11/2014 14:00		6/11/2014 15:10		6/11/2014 13:15		6/10/2014 11:55		6/11/2014 12:55		6/11/2014 15:40		6/11/2014 14:45		6/13/2014 10:05		6/12/2014 10:35		6/11/2014 14:00	
			Field Sample ID	MW-1001M-06112014		MW-1001R-06112014		MW-1002DR-HS-06112014		MW-1002R-06112014		MW-1003DR-HS-06112014		MW-1003R-06102014		MW-121A-HS-06112014		MW-121B-HS-06112014		MW-121C-HS-06112014		MW-121M-06132014		MW-124C-06122014		MW-125C-HS-06112014	
			Well Group	C		C		R		R		R		R		C		R		R		R		R		C	
			HydroStratZone(s)	MOB		SBR		DBR		SBR		DBR		SBR		SBR		DOB		SBR		MOB		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	0.142	U	0.142	U	**13**	--	0.139	U	3	U	**0.29**	--	**120**	--	**510**	--	**420**	--	**241**	--	**0.586**	--	**620**	J

			Sample Location	MW-127B		MW-127B		MW-127C		MW-128		MW-128		MW-204A		MW-204B		MW-205B		MW-413		MW-415		MW-416		MW-501A	
			Sample Date	6/11/2014 0:00		6/11/2014 10:30		6/11/2014 9:15		6/11/2014 0:00		6/11/2014 9:45		6/9/2014 13:20		6/9/2014 12:55		6/12/2014 9:25		6/11/2014 10:45		6/11/2014 9:55		6/12/2014 13:20		6/11/2014 16:00	
			Field Sample ID	DUP-GW-06112014-#2		MW-127B-06112014		MW-127C-06112014		DUP-GW-06112014-#1		MW-128-06112014		MW-204A-06092014		MW-204B-06092014		MW-205B-06122014		MW-413-HS-06112014		MW-415-HS-06112014		MW-416-HS-06122014		MW-501A-06112014	
			Well Group	C		C		R		C		C		C		C		C		N		N		N		C	
			HydroStratZone(s)	MOB		MOB		SBR		SBR		SBR		SBR		DOB		MOB		DOB		MOB		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	**0.223**	--	**0.231**	--	**4.22**	--	**0.16**	--	**0.136**	J	**1.62**	--	**4.12**	--	**0.32**	--	**92**	J	**48**	--	15	UJ	**0.946**	--

			Sample Location	MW-501B		MW-501C		MW-502		MW-703D		MW-703DR		MW-703S		MW-704D		MW-704DR		MW-704M		MW-704R		MW-704S		MW-705D	
			Sample Date	6/11/2014 16:15		6/11/2014 13:25		6/11/2014 9:15		6/9/2014 15:25		6/10/2014 9:35		6/10/2014 10:01		6/12/2014 8:50		6/13/2014 9:40		6/12/2014 10:15		6/11/2014 9:50		6/11/2014 10:25		6/9/2014 18:15	
			Field Sample ID	MW-501B-06112014		MW-501C-06112014		MW-502-HS-06112014		MW-703D-06092014		MW-703DR-06102014		MW-703S-06102014		MW-704D-06122014		MW-704DR-06132014		MW-704M-06122014		MW-704R-HS-06112014		MW-704S-HS-06112014		MW-705D-06092014	
			Well Group	C		C		R		C		C		C		R		R		R		C		C		C	
			HydroStratZone(s)	MOB		SOB		DOB		DOB		DBR		SOB		DOB		DBR		MOB		SBR		SOB		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	**0.446**	--	**0.13**	J	**1700**	--	0.144	U	0.142	U	**0.141**	J	**126**	--	**190**	--	**110**	--	**6.9**	--	**1**	J	0.139	U

			Sample Location	MW-705DR		MW-705R		MW-706DR		MW-707D		MW-707DR		MW-707M		MW-707R		MW-707S		MW-709DR		MW-709R		MW-710DR		MW-710R	
			Sample Date	6/13/2014 9:45		6/11/2014 14:25		6/12/2014 8:30		6/10/2014 9:30		6/11/2014 11:10		6/11/2014 15:55		6/10/2014 9:05		6/11/2014 16:11		6/11/2014 8:40		6/11/2014 8:15		6/12/2014 11:20		6/12/2014 9:55	
			Field Sample ID	MW-705DR-HS-06132014		MW-705R-HS-06112014		MW-706DR-HS-06122014		MW-707D-06102014		MW-707DR-06112014		MW-707M-06112014		MW-707R-06102014		MW-707S-06112014		MW-709DR-HS-06112014		MW-709R-HS-06112014		MW-710DR-06122014		MW-710R-06122014	
			Well Group	R		C		R		C		R		C		C		C		C		C		C		C	
			HydroStratZone(s)	DBR		SBR		DBR		DOB		DBR		MOB		SBR		SOB		DBR		SBR		DBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	150	UJ	750	U	150	UJ	0.139	U	**3.5**	--	**0.834**	--	**2.28**	--	**0.501**	--	75	U	3	U	**0.398**	--	**0.872**	--

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated

ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)

Bold = Analyte detected above the laboratory reporting limit
SOB = Shallow Overburden

MOB = Middle Overburden
DOB = Deep Overburden

SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 7 – 1,4-Dioxane – Groundwater Sample Results – June 2014
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

Sample Location				MW-902D		MW-902M		MW-903D		MW-903M		MW-903R		MW-903S		MW-904D		MW-904S		MW-905M		MW-906D		MW-906M		MW-906R	
Sample Date				6/12/2014 13:45		6/12/2014 14:20		6/11/2014 12:45		6/10/2014 15:35		6/10/2014 15:15		6/13/2014 10:10		6/11/2014 13:20		6/12/2014 15:30		6/11/2014 14:20		6/10/2014 14:20		6/10/2014 14:40		6/10/2014 13:55	
Field Sample ID				MW-902D-HS-06122014		MW-902M-HS-06122014		MW-903D-06112014		MW-903M-HS-06102014		MW-903R-HS-06102014		MW-903S-06132014		MW-904D-06112014		MW-904S-06122014		MW-905M-06112014		MW-906D-HS-06102014		MW-906M-HS-06102014		MW-906R-HS-06102014	
Well Group				N		N		C		C		C		C		C		C		C		C		C		C	
HydroStratZone(s)				DOB		MOB		DOB		MOB		SBR		SOB		DOB		SOB		MOB		DOB		MOB		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	150	UJ	**370**	J	**0.452**	--	**3.8**	--	3	U	**2.18**	--	**0.276**	--	0.153	U	**0.212**	--	3	U	**2**	J	12	U

Sample Location				MW-907D		MW-907DR		MW-907M		MW-908D		MW-909D		MW-910S		MWL-303		MWL-304		MWL-307		MWL-309		MWL-309		MWL-312	
Sample Date				6/10/2014 15:00		6/10/2014 13:15		6/10/2014 14:30		6/11/2014 13:30		6/11/2014 16:10		6/11/2014 13:20		6/10/2014 15:35		6/13/2014 9:00		6/12/2014 11:10		6/13/2014 0:00		6/13/2014 10:55		6/10/2014 10:15	
Field Sample ID				MW-907D-HS-06102014		MW-907DR-HS-06102014		MW-907M-HS-06102014		MW-908D-HS-06112014		MW-909D-HS-06112014		MW-910S-06112014		MWL-303-06102014		MWL-304-HS-06132014		MWL-307-HS-06122014		DUP-GW-06132014-#1		MWL-309-06102014		MWL-312-06102014	
Well Group				R		R		R		C		C		C		C		N		N		R		R		C	
HydroStratZone(s)				DOB		DBR		MOB		DOB		DOB		SOB		SOB		SOB		SOB		SOB		SOB		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	**610**	--	150	U	**1100**	--	**43**	--	**2.3**	J	0.142	U	**0.364**	--	30	UJ	120	UJ	--	--	**1670**	--	0.16	U

Sample Location				MWL-313		P-101A		P-101B		P-101C		P-102A		P-102B		P-102C		P-11A		P-11B		P-13		P-3A		P-3B	
Sample Date				6/10/2014 12:10		6/12/2014 8:45		6/12/2014 12:25		6/12/2014 12:25		6/10/2014 13:10		6/12/2014 9:10		6/10/2014 11:40		6/11/2014 8:00		6/11/2014 9:15		6/11/2014 14:00		6/11/2014 11:15		6/13/2014 9:45	
Field Sample ID				MWL-313-06102014		P-101A-HS-06122014		P-101B-06122014		P-101C-06122014		P-102A-06102014		P-102B-HS-06122014		P-102C-06102014		P-11A-HS-06112014		P-11B-HS-06112014		P-13-06112014		P-3A-HS-06112014		P-3B-06132014	
Well Group				C		C		R		R		C		C		C		R		C		R		C		C	
HydroStratZone(s)				SOB		SBR		MOB		SOB		SBR		MOB		SOB		SBR		SOB		SOB		SBR		SOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	0.16	U	**63**	J	**145**	--	**119**	--	**11.1**	--	**10**	J	0.144	U	**770**	--	**21**	--	**0.196**	--	**350**	--	**33.8**	--

Sample Location				P-5B		P-6		PZO-204M		PZO-2D		PZO-2M		PZO-3D		PZO-3M		PZO-4D		PZO-4M		PZR-2DR		PZR-2R		PZR-2R	
Sample Date				6/13/2014 8:00		6/11/2014 8:45		6/12/2014 10:30		6/10/2014 13:00		6/12/2014 9:50		6/10/2014 13:05		6/11/2014 13:50		6/11/2014 10:30		6/11/2014 9:10		6/12/2014 16:40		6/10/2014 0:00		6/10/2014 14:00	
Field Sample ID				P-5B-06132014		P-6-HS-06112014		PZO-204M-HS-06122014		PZO-2D-06102014		PZO-2M-HS-06122014		PZO-3D-06102014		PZO-3M-06112014		PZO-4D-06112014		PZO-4M-06112014		PZR-2DR-06122014		DUP-GW-06102014#2		PZR-2R-06102014	
Well Group				C		C		C		R		R		C		C		C		C		C		R		R	
HydroStratZone(s)				SOB		SBR		MOB		DOB		MOB		DOB		MOB		DOB		MOB		DBR		SBR		SBR	
Analyte	**CAS No.**	**Unit**	**Action Level**																								
1,4-Dioxane	123-91-1	ug/L	20	**0.912**	--	**5600**	--	**370**	J	**21.2**	--	3	UJ	0.15	U	0.139	U	0.144	U	0.147	U	**1.26**	--	**2.49**	--	**2.32**	--

Sample Location				PZR-3R		PZR-3R		PZR-4DR		PZR-4R		PZR-5R		SRS-1		SRS-3		TW-08A		TW-08B		TW-08D	
Sample Date				6/10/2014 0:00		6/10/2014 13:00		6/12/2014 10:15		6/12/2014 10:15		6/12/2014 11:50		6/12/2014 16:10		6/13/2014 10:40		6/12/2014 14:50		6/12/2014 15:00		6/12/2014 15:10	
Field Sample ID				DUP-GW-06102014#1		PZR-3R-06102014		PZR-4DR-06122014		PZR-4R-06122014		PZR-5R-06122014		SRS-1-06122014		SRS-3-06132014		TW-08A-HS-06122014		TW-08B-HS-06122014		TW-08D-HS-06122014	
Well Group				C		C		C		C		C		C		C		N		N		N	
HydroStratZone(s)				SBR		SBR		DBR		SBR		SBR		DOB		DOB		MOB		SBR		DOB	
Analyte	**CAS No.**	**Unit**	**Action Level**																				
1,4-Dioxane	123-91-1	ug/L	20	0.142	U	0.142	U	0.142	U	**0.413**	--	**0.998**	--	0.17	U	**1.79**	--	600	UJ	**300**	J	600	UJ

Notes:

U = Analyte not detected above the laboratory reporting limit
J = Analyte result is estimated

ug/L = micrograms per liter
Action Level = the lower of the USEPA Maximum Contaminant Level (MCL) and the Connecticut Class GA Groundwater Protection Criteria (GWPC)

Bold = Analyte detected above the laboratory reporting limit
SOB = Shallow Overburden

MOB = Middle Overburden
DOB = Deep Overburden

SBR = Shallow Bedrock
DBR = Deep Bedrock

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Table 8 - Statistical Summary of Groundwater Total VOC Concentration Trends
Solvents Recovery Service of New England, Inc. (SRSNE) Superfund Site
Southington, Connecticut

DRAFT

Well	Constituent	Data Range					Linear Regression Analysis						Mann-Kendall Analysis			Sen's Slope Analysis	
		Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	% of Data Below Laboratory Minimum Detection Limit	Start Date	End Date	Correlation Coefficient, R^2	p-value of Correlation	Estimated Attenuation Half-life (days)	Trend Direction (slope of trend line)	Trend Significant?	Comments	p-value of Correlation	Trend Direction	Trend Significant?	Estimated Attenuation Half-life (days)	Trend Direction
Shallow Overburden Wells																	
P-13	Total VOCs	2.4	69	0	3/28/1995	6/11/2014	0.40	0.002	2,689	Decreasing	Yes		<0.001	Decreasing	Yes	2,235	Decreasing
MWL-312	Total VOCs	<0.5	49	72	3/27/1995	6/10/2014	0.17	0.09	1,936	Decreasing	Yes	72% of results below detection	0.050	Decreasing	Yes	NA	No Trend
P-101C	Total VOCs	8.0	479	0	3/27/1995	6/12/2014	0.72	<0.001	1,811	Decreasing	Yes		<0.001	Decreasing	Yes	1,873	Decreasing
Middle Overburden Wells																	
MW-03	Total VOCs	0.5	120	0	12/5/1996	6/9/2014	0.25	0.023	1,672	Decreasing	Yes		0.032	Decreasing	Yes	1,414	Decreasing
MW-205B	Total VOCs	<0.5	24	11	3/23/1995	6/12/2014	0.44	0.003	1,447	Decreasing	Yes		0.002	Decreasing	Yes	1,359	Decreasing
P-101B	Total VOCs	12	187,400	0	3/27/1995	6/12/2014	0.74	<0.001	610	Decreasing	Yes		<0.001	Decreasing	Yes	592	Decreasing
MW-127B	Total VOCs	<0.5	22	11	3/23/1995	6/11/2014	0.33	0.01	1,648	Decreasing	Yes		0.018	Decreasing	Yes	1,777	Decreasing
MW-501B	Total VOCs	1.8	65	0	3/24/1995	6/11/2014	0.50	<0.001	1,369	Decreasing	Yes		<0.001	Decreasing	Yes	1,118	Decreasing
Deep Overburden Wells																	
MW-204B	Total VOCs	<0.5	87	17	3/28/1995	6/9/2014	0.21	0.05	1,703	Decreasing	Yes		0.001	Decreasing	Yes	924	Decreasing
MW-502	Total VOCs	630	118,160	0	3/21/1995	6/11/2014	0.71	<0.001	1,149	Decreasing	Yes		<0.001	Decreasing	Yes	1,980	Decreasing
MW-704D	Total VOCs	7.0	665	0	12/18/1996	6/12/2014	0.15	0.09	2,919	Decreasing	Yes		0.052	Decreasing	Yes	2,665	Decreasing
MW-707D	Total VOCs	<0.5	21	53	12/6/1996	6/10/2014	<0.001	0.93	NA	No Trend	No	53% of results below detection	0.223	Decreasing	No	NA	No Trend
Shallow Bedrock Wells																	
MW-127C	Total VOCs	10.14	147	0	3/23/1995	6/11/2014	0.59	<0.001	2,858	Decreasing	Yes		<0.001	Decreasing	Yes	3,150	Decreasing
MW-128	Total VOCs	2.2	15	0	3/23/1995	6/11/2014	0.62	<0.001	2,966	Decreasing	Yes		<0.001	Decreasing	Yes	2,390	Decreasing
MW-204A	Total VOCs	0.9	682	0	3/28/1995	6/9/2014	0.62	<0.001	872	Decreasing	Yes		<0.001	Decreasing	Yes	762	Decreasing
MW-501A	Total VOCs	9	118	0	3/24/1995	6/11/2014	0.85	<0.001	1,795	Decreasing	Yes		<0.001	Decreasing	Yes	1,690	Decreasing
P-11A	Total VOCs	223	26,400	0	3/27/1995	6/11/2014	0.1	0.13	NA	No Trend	No	Changed from decreasing in 2011	0.416	Decreasing	No	NA	NS
Deep Bedrock Wells																	
MW-703DR	Total VOCs	<0.5	8.0	76	12/9/1996	6/10/2014	0.005	0.79	NA	No Trend	No	76% of results below detection	0.401	Decreasing	No	NA	No Trend
MW-704DR	Total VOCs	11	455	0	12/17/1996	6/13/2014	0.53	<0.001	2,534	Decreasing	Yes		<0.001	Decreasing	Yes	3,164	Decreasing
MW-706DR	Total VOCs	2,835	11,240	0	12/10/1996	6/12/2014	0.16	0.08	10,105	Decreasing	Yes		0.142	Decreasing	No	NA	NS
MW-707DR	Total VOCs	<0.5	18	32	12/30/1996	6/11/2014	0.24	0.02	NA	Increasing	Yes		0.024	Increasing	Yes	NA	No Trend
MW-707DR	Total VOCs	2.48	16.86	0	4/20/2004	6/11/2014	0.20	0.19	NA	Decreasing	No	Using data starting in April 2004	0.146	Decreasing	No	NA	NS

Notes and Assumptions:
µg/L = micrograms per liter
NS = no significant trend
NA = not applicable due to increasing trend or non-significant trend

ARCADIS

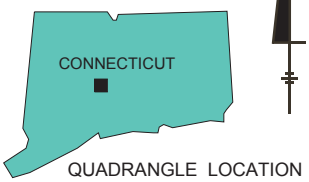
Figures



REFERENCE: SOUTHINGTON, CONN. USGS QUAD. 1968 PR 1992, MERIDEN, CONN. USGS QUAD. 1966 PR 1984, NEW BRITAIN, CONN. USGS QUAD. 1966 PR 1984, & BRISTOL, CONN. USGS QUAD 1967 PR 1984

2000' 0 2000'

APPROX. SCALE: 1" = 2000'



QUADRANGLE LOCATION

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

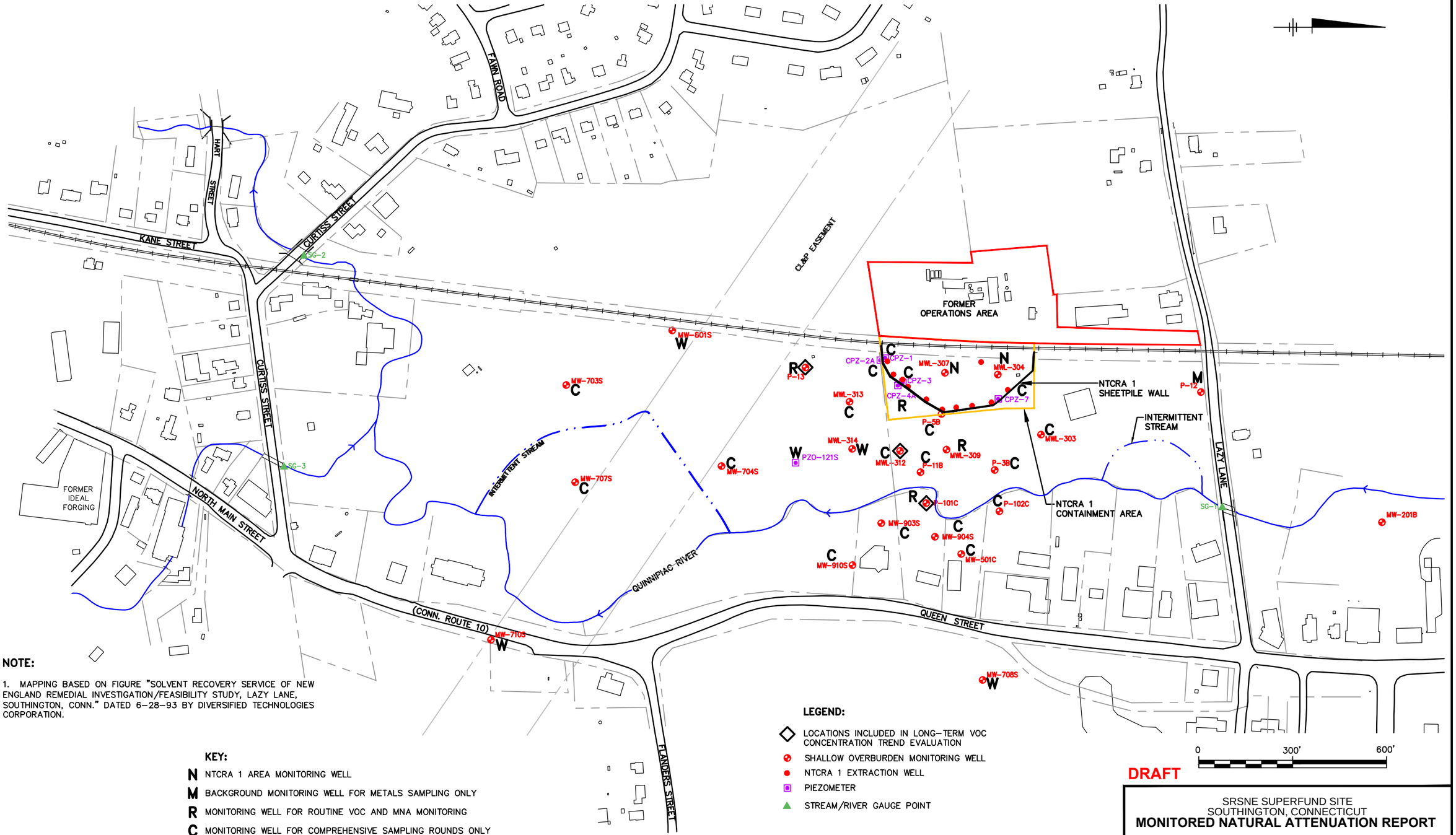
SITE LOCATION MAP

ARCADIS

FIGURE
1

09/16/2010 SYRACUSE, NY-ENV/CAD DJHOWES, LJPOSENAUER
B005463410000102200\CDR\54634N01.CDR

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FR2)
G:\ENVCAD\Manchester\ACTIB\0054634000\00220\054634C02.DWG LAYOUT: 2 SAVED: 9/11/2014 12:27 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 12:27 PM BY: SMALL, BRIAN
XREFS:
IMAGES:
PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

KEY:

- **N** NTCRA 1 AREA MONITORING WELL
- **M** BACKGROUND MONITORING WELL FOR METALS SAMPLING ONLY
- **R** MONITORING WELL FOR ROUTINE VOC AND MNA MONITORING
- **C** MONITORING WELL FOR COMPREHENSIVE SAMPLING ROUNDS ONLY
- **W** MONITORING WELL FOR WATER LEVEL MEASUREMENT ONLY

LEGEND:

- LOCATIONS INCLUDED IN LONG-TERM VOC CONCENTRATION TREND EVALUATION
- SHALLOW OVERBURDEN MONITORING WELL
- NTCRA 1 EXTRACTION WELL
- PIEZOMETER
- STREAM/RIVER GAUGE POINT

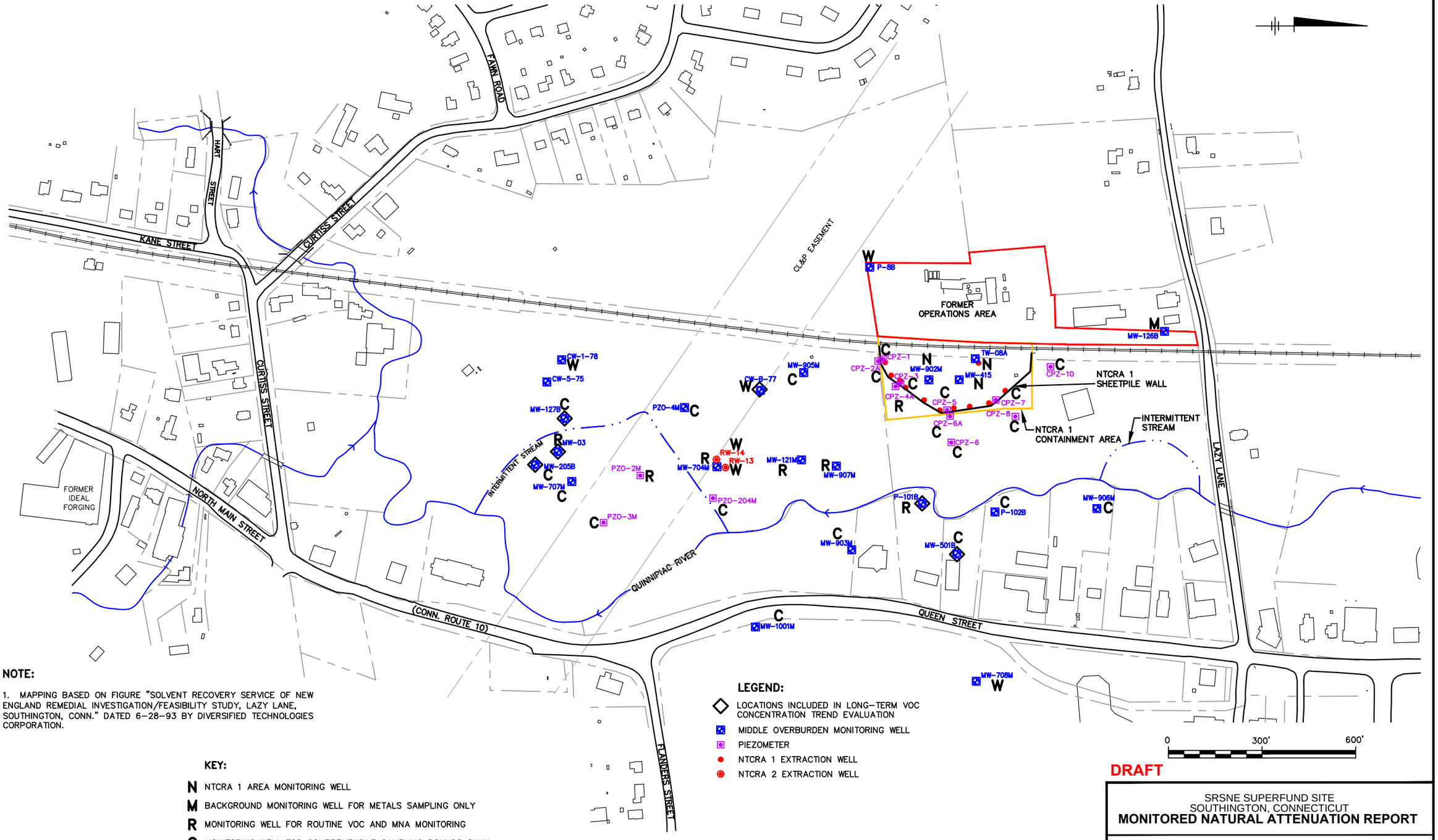
DRAFT

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

GROUNDWATER MONITORING LOCATIONS SHALLOW OVERBURDEN

ARCADIS

FIGURE
2



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

KEY:

- **N** NTCRA 1 AREA MONITORING WELL
- **M** BACKGROUND MONITORING WELL FOR METALS SAMPLING ONLY
- **R** MONITORING WELL FOR ROUTINE VOC AND MNA MONITORING
- **C** MONITORING WELL FOR COMPREHENSIVE SAMPLING ROUNDS ONLY
- **W** MONITORING WELL FOR WATER LEVEL MEASUREMENT ONLY

LEGEND:

- LOCATIONS INCLUDED IN LONG-TERM VOC CONCENTRATION TREND EVALUATION
- MIDDLE OVERBURDEN MONITORING WELL
- PIEZOMETER
- NTCRA 1 EXTRACTION WELL
- NTCRA 2 EXTRACTION WELL

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SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

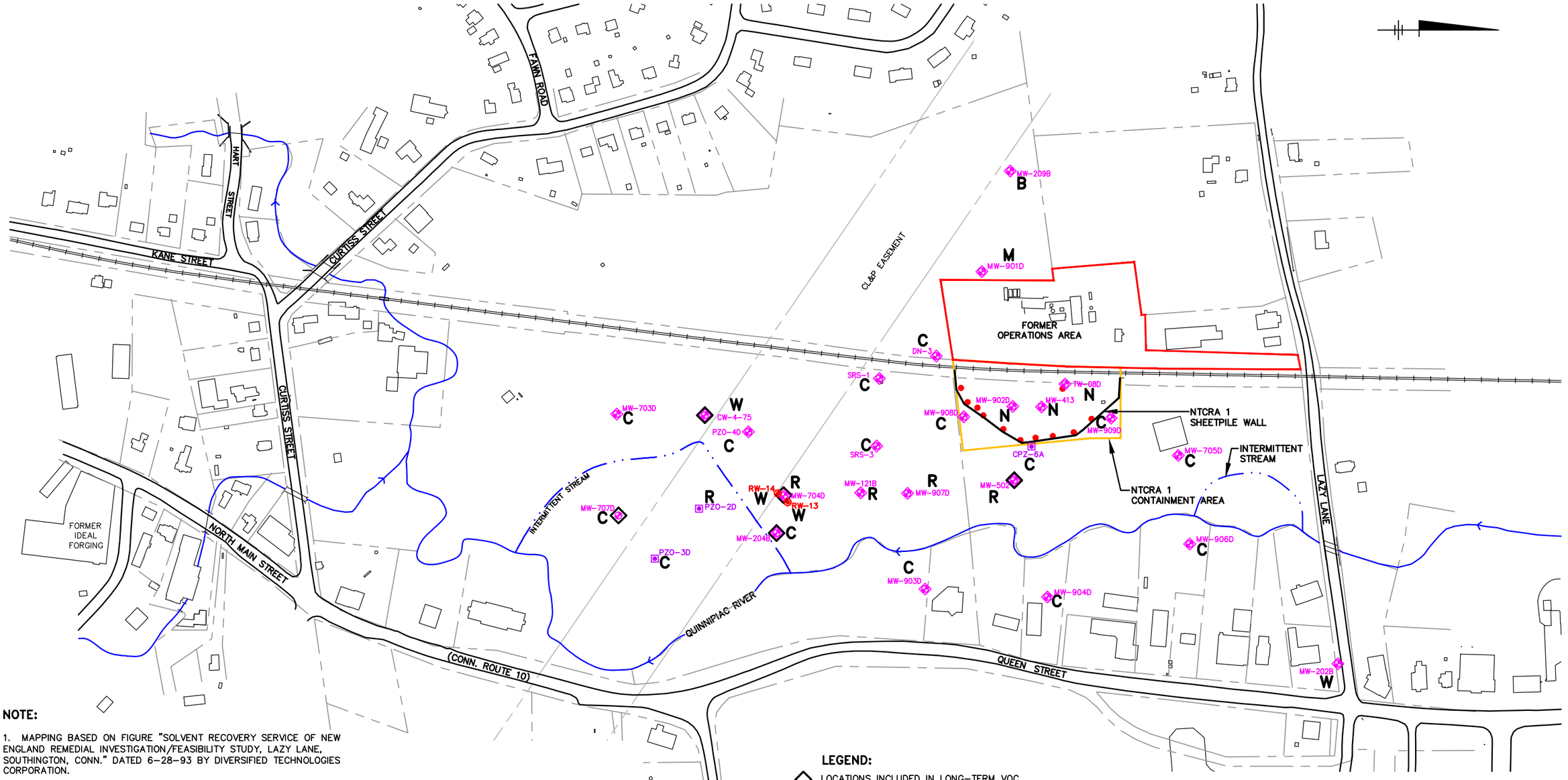
GROUNDWATER MONITORING LOCATIONS MIDDLE OVERBURDEN

ARCADIS

FIGURE
3

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634000\0022000\54634C03.DWG LAYOUT: 3 SAVED: 9/11/2014 12:29 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 12:29 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIVITY\00546340000\0220015463 4C04.DWG LAYOUT: 4 SAVED: 8/13/2014 4:39 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 12:31 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ---
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6–28–93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

KEY:

- **N** NTCRA 1 AREA MONITORING WELL
- **M** BACKGROUND MONITORING WELL FOR METALS SAMPLING ONLY
- **R** MONITORING WELL FOR ROUTINE VOC AND MNA MONITORING
- **B** BACKGROUND MONITORING WELL FOR METALS AND MNA SAMPLING
- **C** MONITORING WELL FOR COMPREHENSIVE SAMPLING ROUNDS ONLY
- **W** MONITORING WELL FOR WATER LEVEL MEASUREMENT ONLY

LEGEND:

- LOCATIONS INCLUDED IN LONG–TERM VOC CONCENTRATION TREND EVALUATION
- DEEP OVERBURDEN MONITORING WELL
- NTCRA 1 EXTRACTION WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL

0 300' 600'

DRAFT

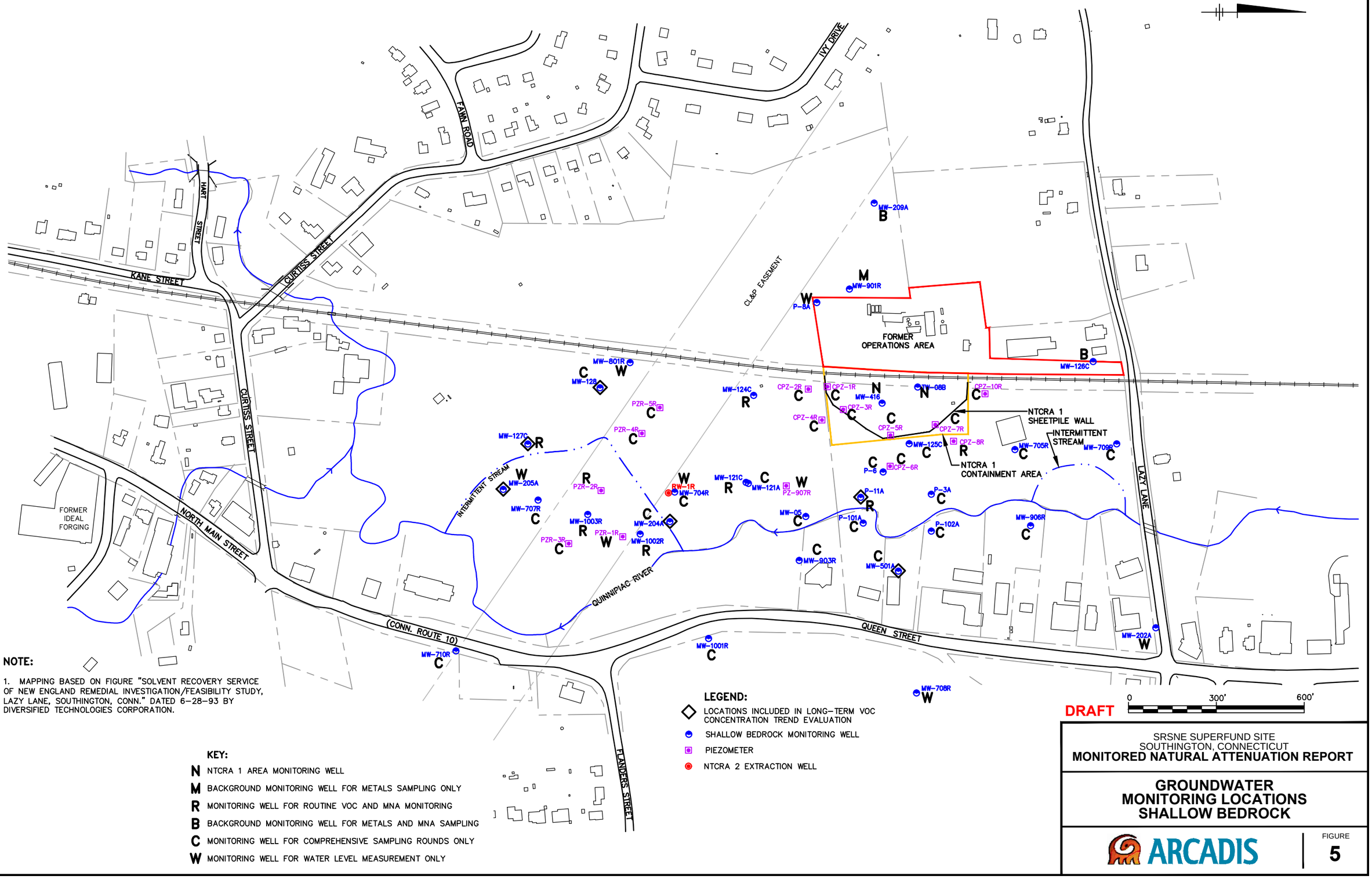
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

GROUNDWATER MONITORING LOCATIONS DEEP OVERBURDEN

ARCADIS

FIGURE 4

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIB\0054634000\0022\00546340C05.DWG LAYOUT: 5 SAVED: 9/11/2014 12:38 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 1:26 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

KEY:

- **N** NTCRA 1 AREA MONITORING WELL
- **M** BACKGROUND MONITORING WELL FOR METALS SAMPLING ONLY
- **R** MONITORING WELL FOR ROUTINE VOC AND MNA MONITORING
- **B** BACKGROUND MONITORING WELL FOR METALS AND MNA SAMPLING
- **C** MONITORING WELL FOR COMPREHENSIVE SAMPLING ROUNDS ONLY
- **W** MONITORING WELL FOR WATER LEVEL MEASUREMENT ONLY

LEGEND:

- LOCATIONS INCLUDED IN LONG-TERM VOC CONCENTRATION TREND EVALUATION
- SHALLOW BEDROCK MONITORING WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL

DRAFT

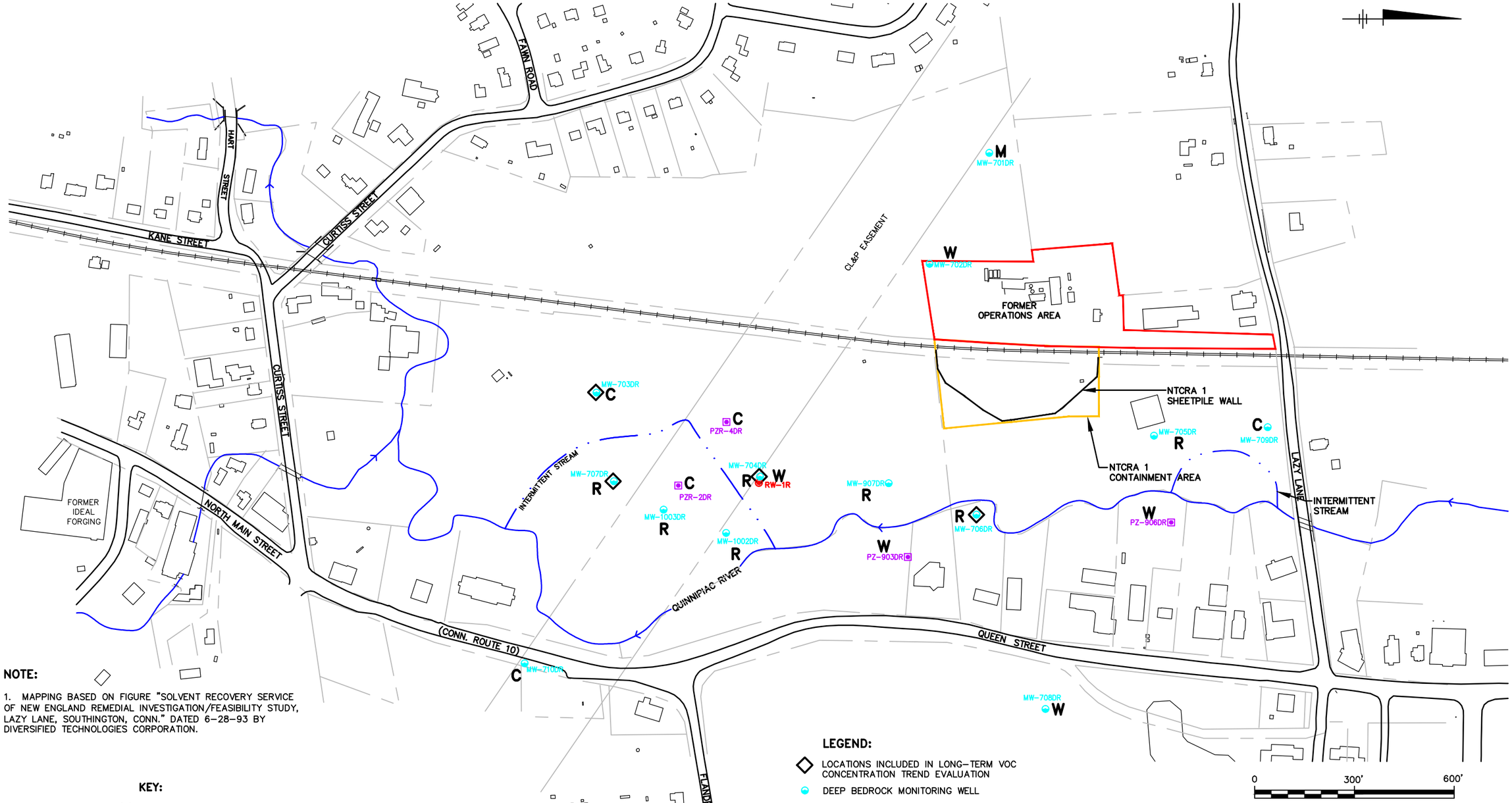
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

GROUNDWATER MONITORING LOCATIONS SHALLOW BEDROCK

ARCADIS

FIGURE
5

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIVE\054634\000\0220054634C06.DWG LAYOUT: 6 SAVED: 9/11/2014 1:26 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 1:26 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

KEY:

- **M** BACKGROUND MONITORING WELL FOR METALS SAMPLING ONLY
- **R** MONITORING WELL FOR ROUTINE VOC AND MNA MONITORING
- **C** MONITORING WELL FOR COMPREHENSIVE SAMPLING ROUNDS ONLY
- **W** MONITORING WELL FOR WATER LEVEL MEASUREMENT ONLY

LEGEND:

- LOCATIONS INCLUDED IN LONG-TERM VOC CONCENTRATION TREND EVALUATION
- DEEP BEDROCK MONITORING WELL
- NTCRA 2 EXTRACTION WELL
- PIEZOMETER

DRAFT

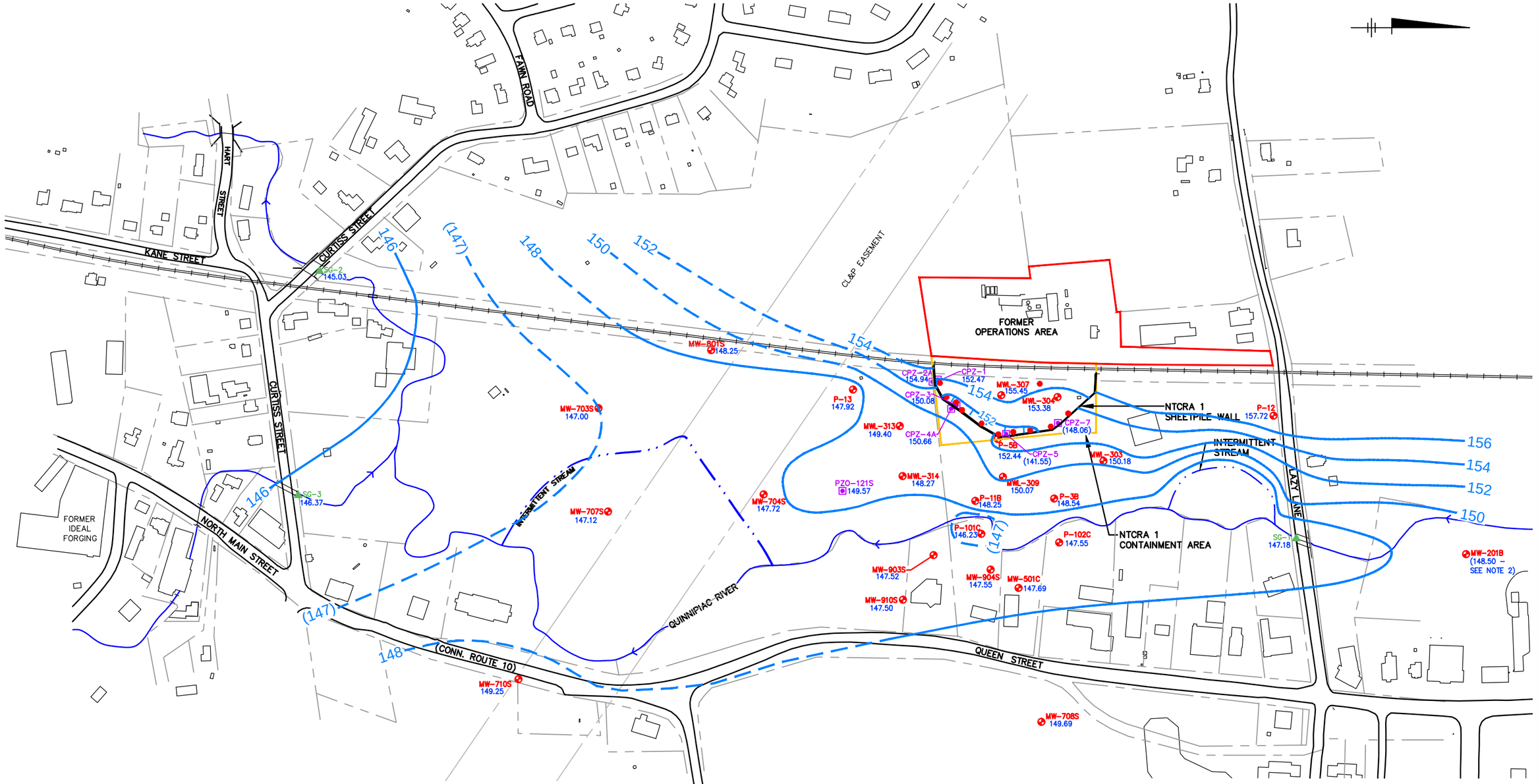
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

GROUNDWATER MONITORING LOCATIONS DEEP BEDROCK

ARCADIS

FIGURE 6

CITY: SYRACUSE, NY DIVGROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIVE\00546340000\0220016346340C07.DWG LAYOUT: 7 SAVED: 9/11/2014 12:57 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 12:57 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
546340X01



NOTES:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6–28–93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.
2. GROUNDWATER ELEVATION AT MW–201B ESTIMATED BASED ON HISTORICAL MEASUREMENTS.
3. HEAD VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING.
4. NTCRA 1 EXTRACTION WELLS WERE NOT INCLUDED IN CONTOURING; GROUNDWATER ELEVATIONS ARE NOT REPRESENTATIVE OF REGIONAL GROUNDWATER CONDITIONS.

LEGEND:

- SHALLOW OVERBURDEN MONITORING WELL
- NTCRA 1 EXTRACTION WELL
- PIEZOMETER
- STREAM/RIVER GAUGE POINT
- 147.50 HYDRAULIC HEAD VALUE
- 154 GROUNDWATER ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERRED)
- FT AMSL FEET ABOVE MEAN SEA LEVEL

DRAFT

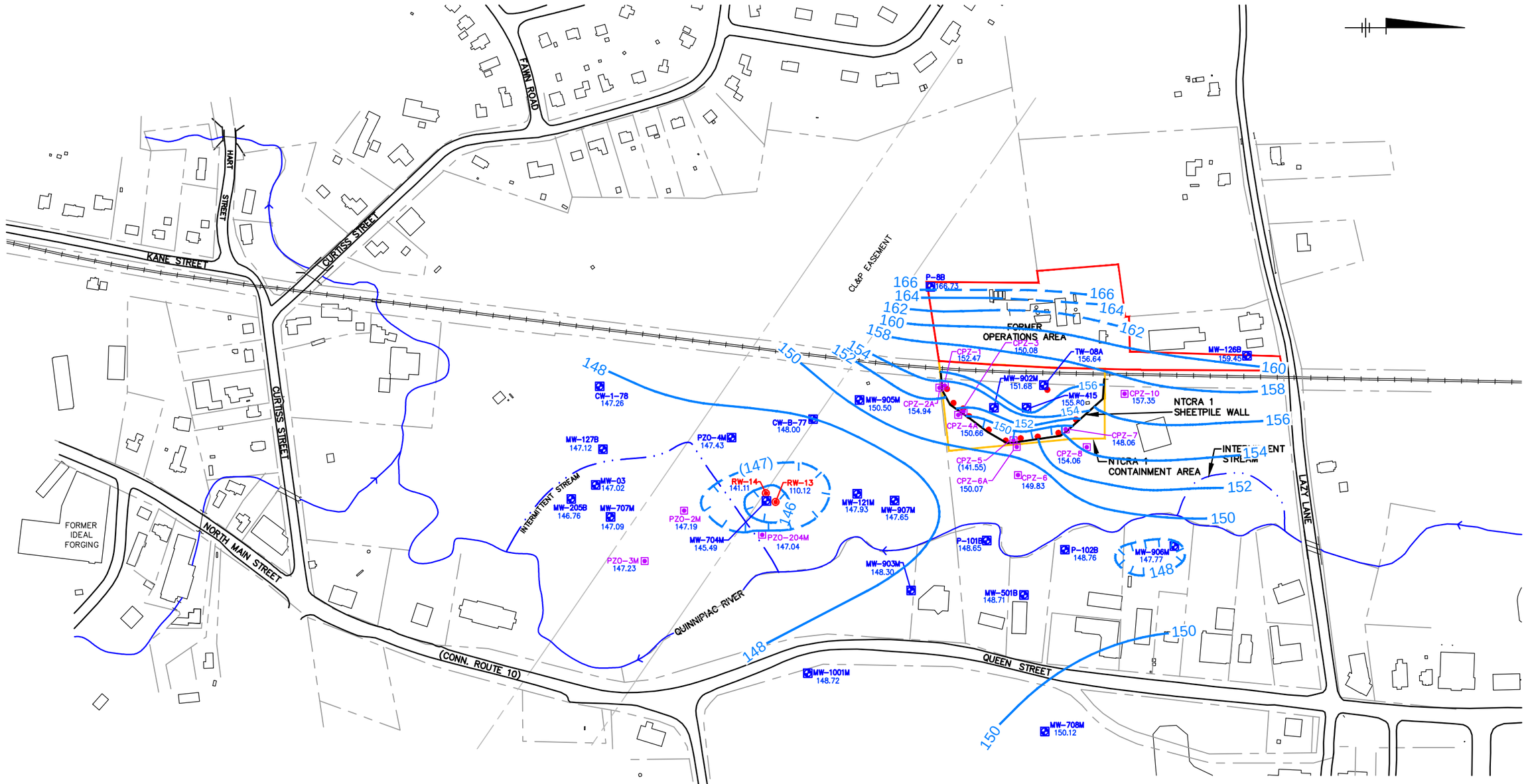
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

SHALLOW OVERBURDEN GROUNDWATER ELEVATION CONTOURS JUNE 9, 2014

ARCADIS

FIGURE 7

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIVITY\005463400\00220\05463400220C208.DWG LAYOUT: 8 SAVED: 9/11/2014 3:36 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 3:36 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTES:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.
2. HEAD VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING.
3. NTCRA 1 EXTRACTION WELLS WERE NOT INCLUDED IN CONTOURING; GROUNDWATER ELEVATIONS ARE NOT REPRESENTATIVE OF REGIONAL GROUNDWATER CONDITIONS.

LEGEND:

- MIDDLE OVERBURDEN MONITORING WELL
- PIEZOMETER
- NTCRA 1 EXTRACTION WELL
- NTCRA 2 EXTRACTION WELL
- 148.71 HYDRAULIC HEAD VALUE
- 154 GROUNDWATER ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERRED)
- FT AMSL FEET ABOVE MEAN SEA LEVEL

DRAFT

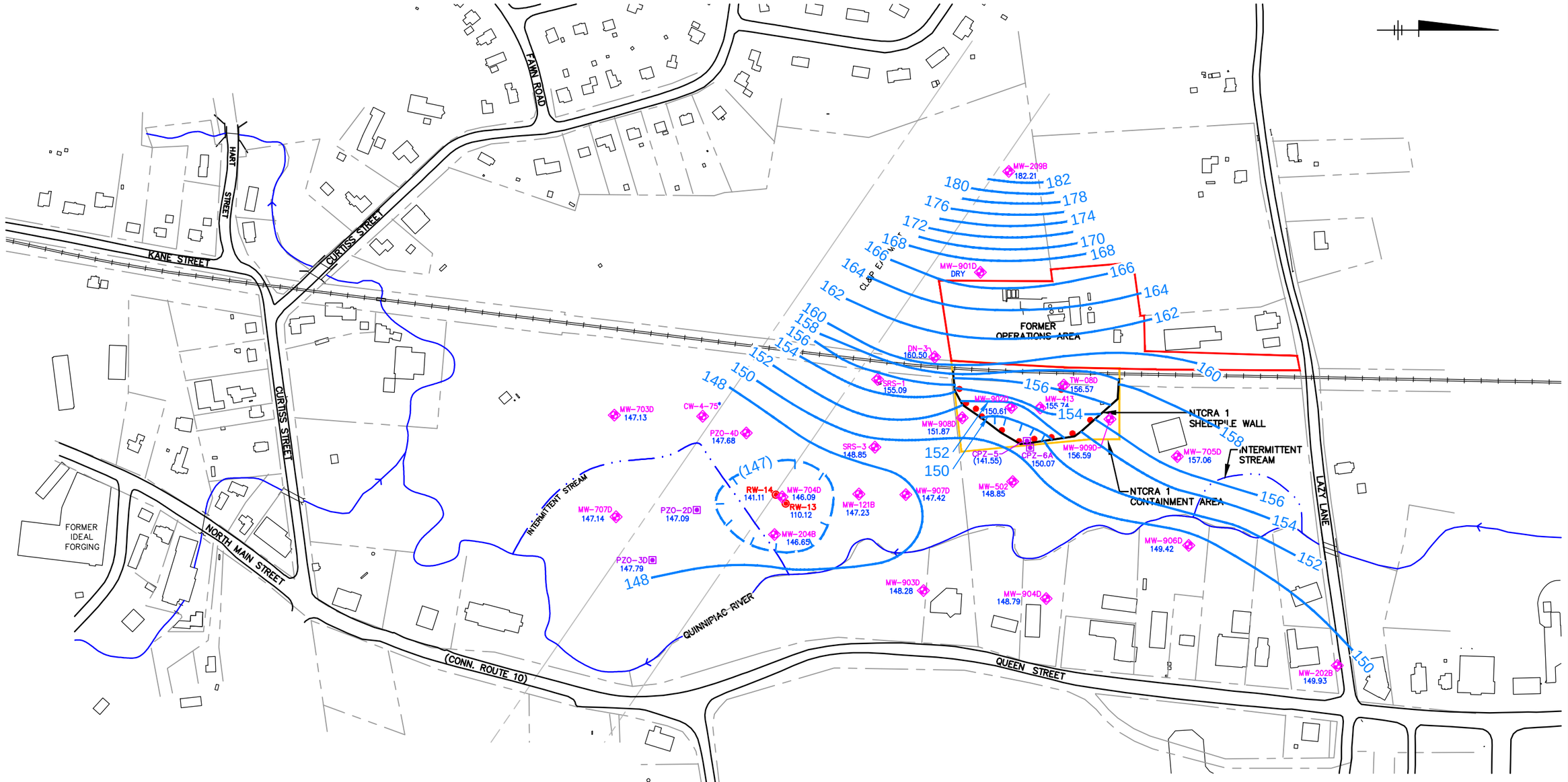
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

MIDDLE OVERBURDEN GROUNDWATER ELEVATION CONTOURS JUNE 9, 2014

ARCADIS

FIGURE 8

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634000\0220054634C09.DWG LAYOUT: 9 SAVED: 9/11/2014 3:51 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 3:51 PM BY: SMALL, BRIAN
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54634X01



NOTES:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.
2. HEAD VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING.
3. NTCRA 1 EXTRACTION WELLS WERE NOT INCLUDED IN CONTOURING; GROUNDWATER ELEVATIONS ARE NOT REPRESENTATIVE OF REGIONAL GROUNDWATER CONDITIONS.

LEGEND:

- DEEP OVERBURDEN MONITORING WELL
- NTCRA 1 EXTRACTION WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL
- 149.93 HYDRAULIC HEAD VALUE
- 154 GROUNDWATER ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERRED)
- FT AMSL FEET ABOVE MEAN SEA LEVEL
- WELL DESTROYED (TO BE ABANDONED)

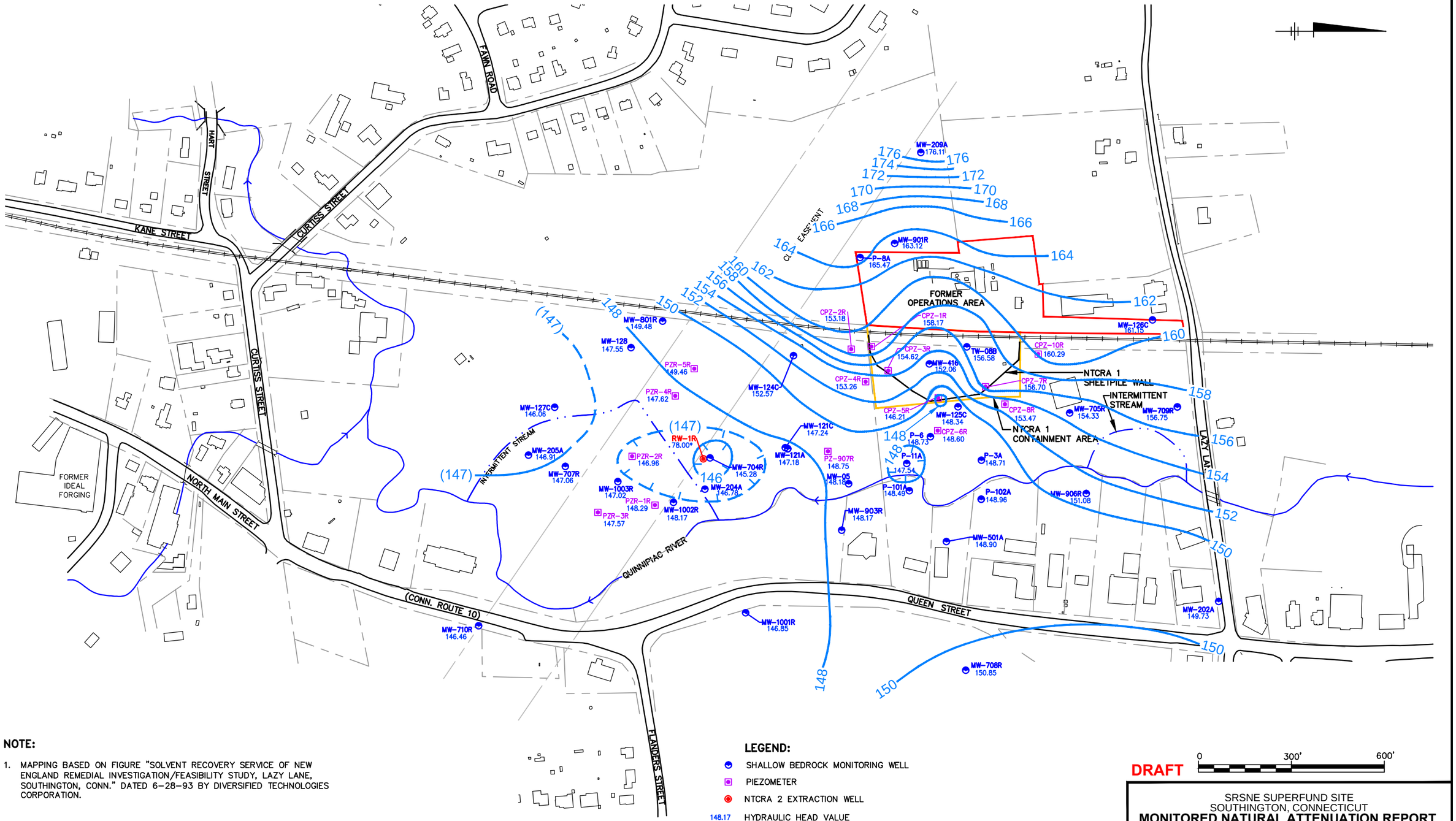
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SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

DEEP OVERBURDEN GROUNDWATER ELEVATION CONTOURS JUNE 9, 2014

ARCADIS

FIGURE
9



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

LEGEND:

- SHALLOW BEDROCK MONITORING WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL
- 148.17 HYDRAULIC HEAD VALUE
- 154 GROUNDWATER ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERRED)
- FT AMSL FEET ABOVE MEAN SEA LEVEL
- * GROUNDWATER ELEVATION AT WELL RW-1R ESTIMATED BASED ON JUNE 10, 2014 MEASUREMENT BY WESTON SOLUTIONS, INC.

DRAFT

0 300' 600'

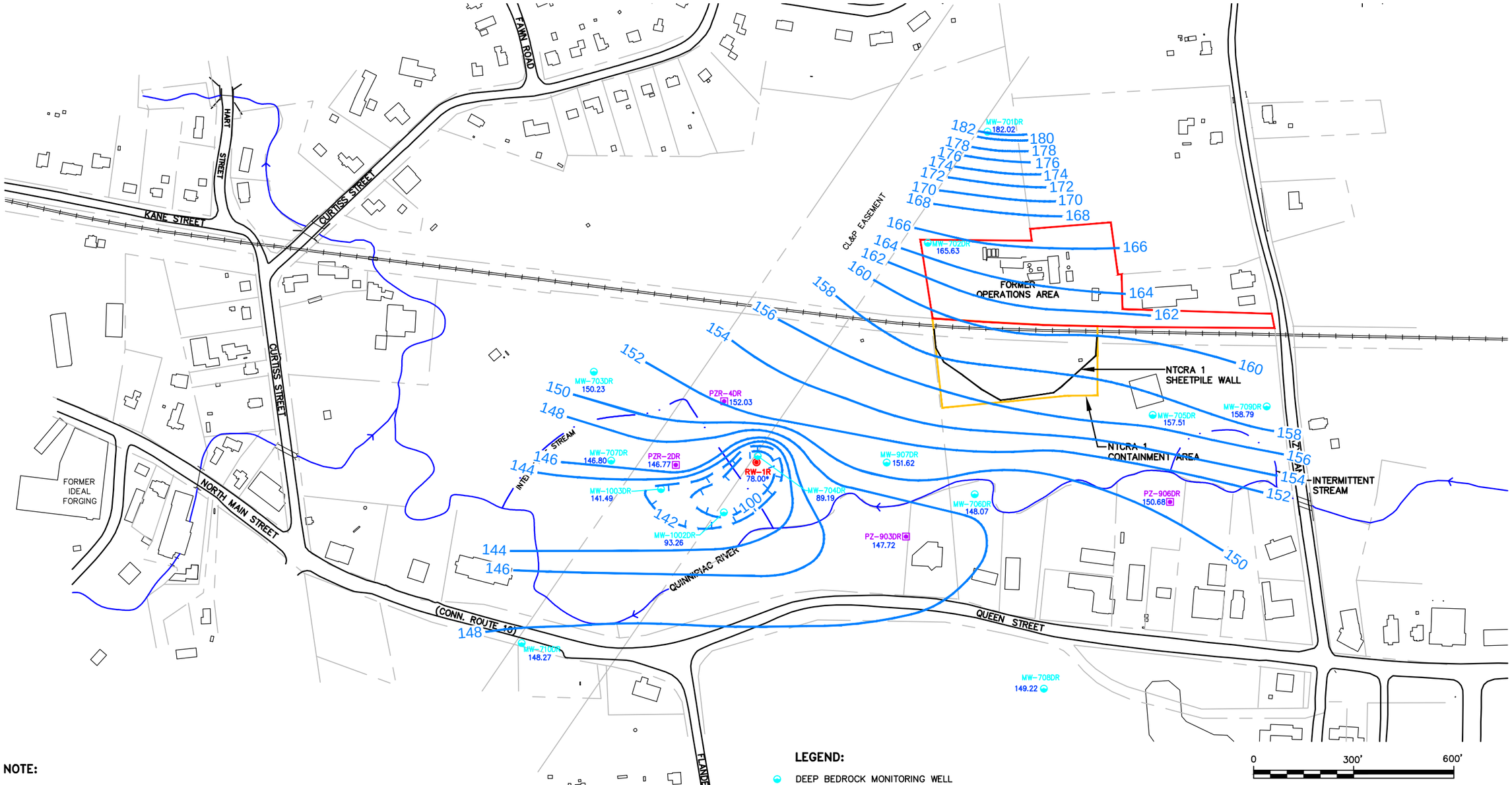
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

SHALLOW BEDROCK GROUNDWATER ELEVATION CONTOURS JUNE 9, 2014

ARCADIS

FIGURE 10

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF; (FR2)
G:\ENVCAD\Manchester\ACTIB\005463400\0022005463\4C10.DWG LAYOUT: 10 SAVED: 9/11/2014 3:47 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
XREFS: IMAGES: PROJECTNAME: ---
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

LEGEND:

- DEEP BEDROCK MONITORING WELL
- NTCRA 2 EXTRACTION WELL
- PIEZOMETER
- 147.72 HYDRAULIC HEAD VALUE
- 154 GROUNDWATER ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERRED)
- FT AMSL FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER ELEVATION AT WELL RW-1R ESTIMATED BASED ON JUNE 10, 2014 MEASUREMENT BY WESTON SOLUTIONS, INC.

DRAFT

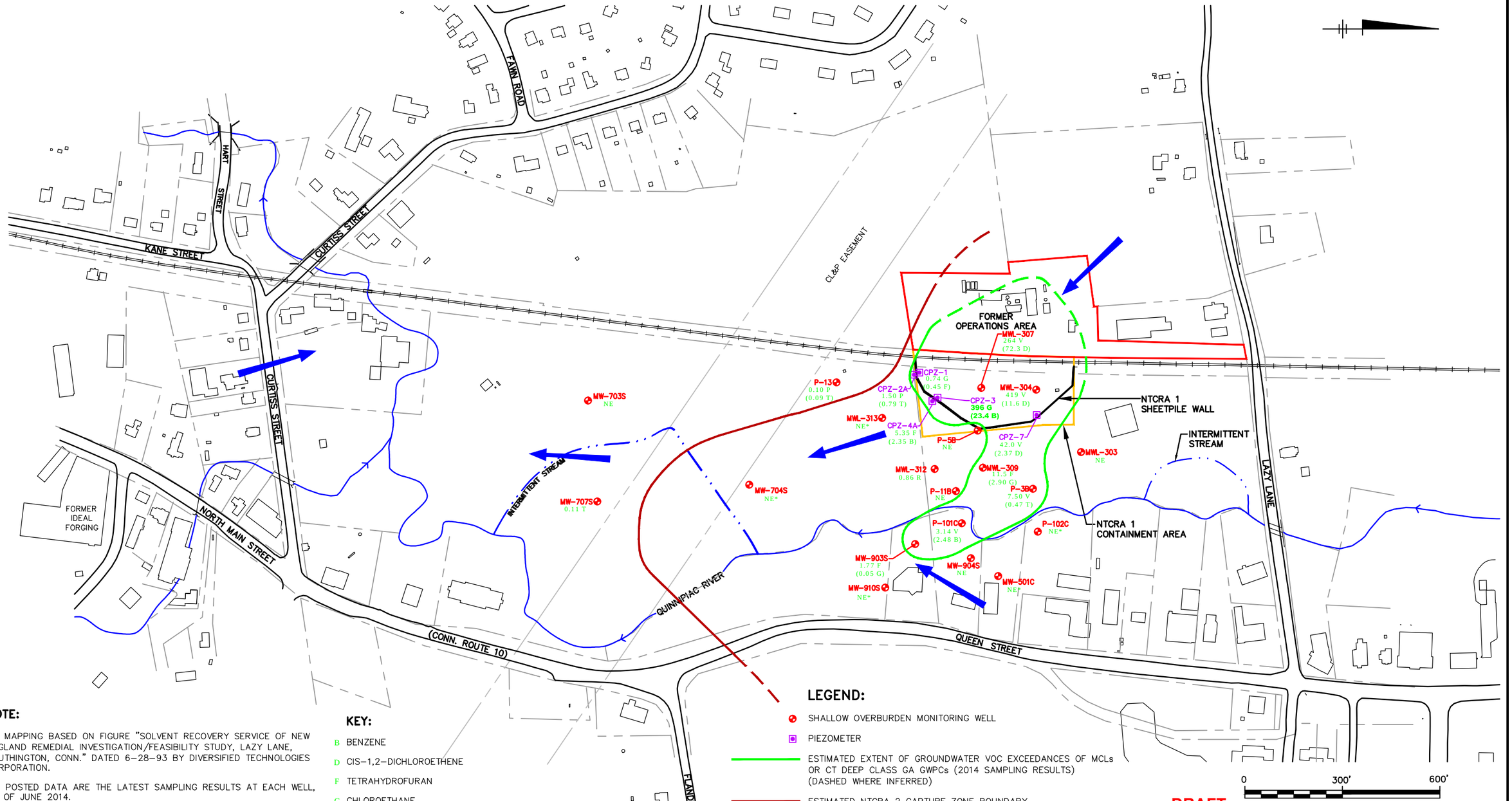
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

DEEP BEDROCK GROUNDWATER ELEVATION CONTOURS JUNE 9, 2014

ARCADIS

FIGURE 11

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF; (FR2)
G:\ENVCAD\Manchester\ACTIVE\00546340000\22005463411.DWG LAYOUT: 11 SAVED: 9/11/2014 3:48 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6–28–93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

2. POSTED DATA ARE THE LATEST SAMPLING RESULTS AT EACH WELL, AS OF JUNE 2014.

KEY:

- B BENZENE
- D CIS–1,2–DICHLOROETHENE
- F TETRAHYDROFURAN
- G CHLOROETHANE
- N ACETONE
- P TETRACHLOROETHENE
- R TRANS–1,3–DICHLOROPROPENE
- T TRICHLOROETHENE
- V VINYL CHLORIDE
- NE EXCEEDANCE RATIO LESS THAN 0.10

LEGEND:

- SHALLOW OVERBURDEN MONITORING WELL
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- P-101C 3.14 V (2.48 B) — WELL WITH REGULATORY EXCEEDANCE RATIO. NUMBERS >1.0 INDICATE GROUNDWATER REGULATORY LIMIT EXCEEDED. NUMBERS <1.0 INDICATE EXCEEDANCE RATIO FOR COMPOUNDS DETECTED BELOW REGULATORY LIMIT. FIRST NUMBER INDICATES MAXIMUM MULTIPLE OF A DETECTED VOC OVER REGULATORY LIMIT (e.g., 130 INDICATES 130 x LIMIT). LETTER INDICATES COMPOUND WITH INDICATED EXCEEDANCE RATIO (e.g., P = TETRACHLOROETHENE). NUMBERS IN PARENTHESES INDICATE OTHER EXCEEDANCE RATIOS FOR SELECT COMPOUNDS AND WELLS. COMPOUNDS DETECTED IN BLANK(S) ARE NOT INCLUDED IN THIS EVALUATION.
- * NO DETECTIONS ABOVE INTERIM CLEANUP LEVELS (ICLs) AT THIS LOCATION.

DRAFT

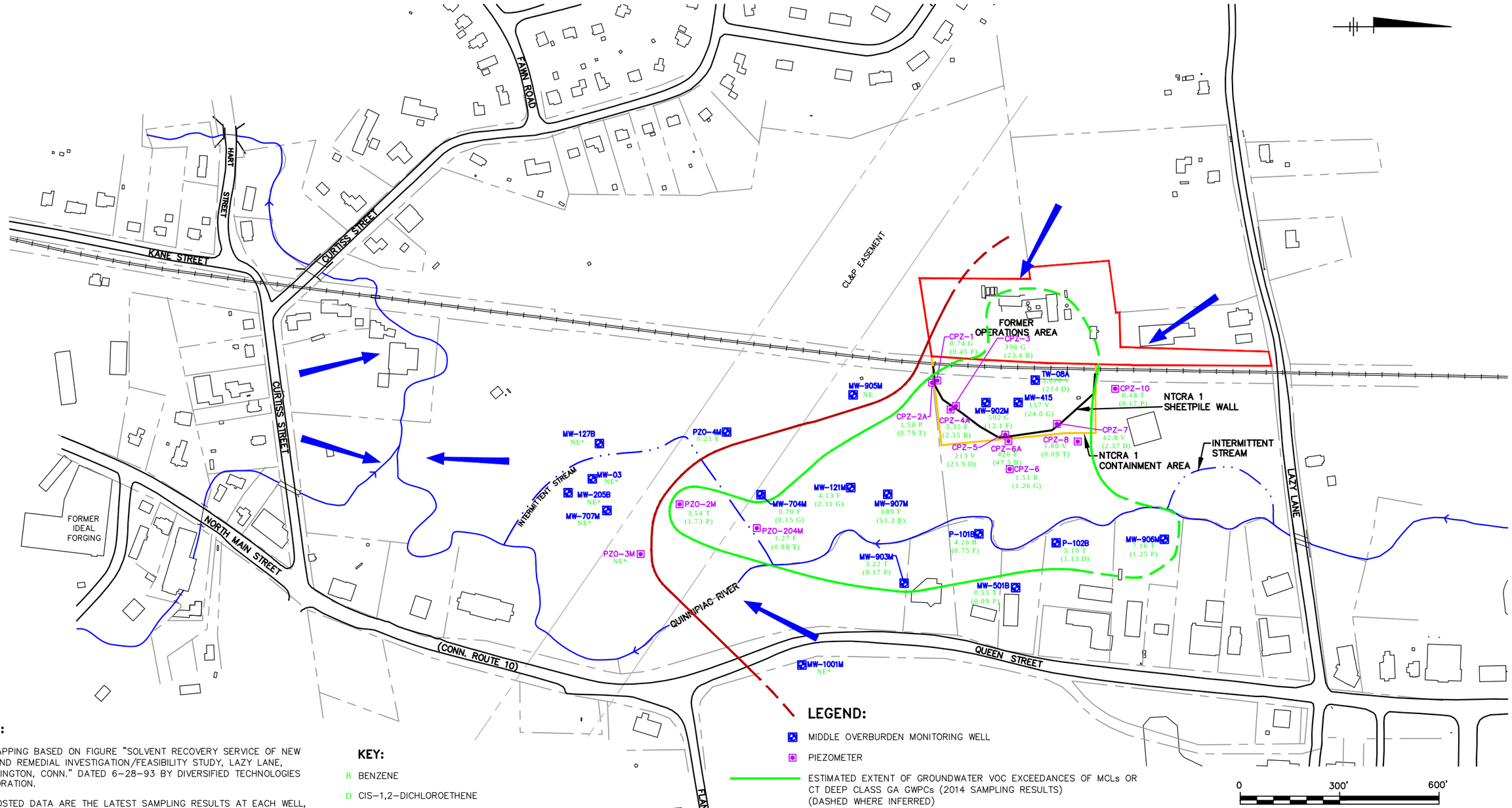
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

VOC EXCEEDANCE PLUME SHALLOW OVERBURDEN

ARCADIS

FIGURE 12

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF,(FR2)
G:\ENVCAD\Manchester\ACTIB\0054634000001900\MNA 2014\VOC\54634C12.DWG LAYOUT: 12 SAVED: 7/22/2014 4:22 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/22/2014 4:22 PM BY: SMALL, BRIAN
XREFS:
IMAGES:
PROJECTNAME: ---
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

2. POSTED DATA ARE THE LATEST SAMPLING RESULTS AT EACH WELL, AS OF JUNE 2014.

KEY:

- B BENZENE
- D CIS-1,2-DICHLOROETHENE
- F TETRAHYDROFURAN
- G CHLOROETHANE
- P TETRACHLOROETHENE
- T TRICHLOROETHENE
- V VINYL CHLORIDE
- NE EXCEEDANCE RATIO LESS THAN 0.10

LEGEND:

- MIDDLE OVERBURDEN MONITORING WELL
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- MW-903M 3.22 T (0.17 P) — WELL WITH REGULATORY EXCEEDANCE RATIO. NUMBERS >1.0 INDICATE GROUNDWATER REGULATORY LIMIT EXCEEDED. NUMBERS <1.0 INDICATE EXCEEDANCE RATIO FOR COMPOUNDS DETECTED BELOW REGULATORY LIMIT. FIRST NUMBER INDICATES MAXIMUM MULTIPLE OF A DETECTED VOC OVER REGULATORY LIMIT (e.g., 130 INDICATES 130 x LIMIT). LETTER INDICATES COMPOUND WITH INDICATED EXCEEDANCE RATIO (e.g., P = TETRACHLOROETHENE). NUMBERS IN PARENTHESES INDICATE OTHER EXCEEDANCE RATIOS FOR SELECT COMPOUNDS AND WELLS. COMPOUNDS DETECTED IN BLANK(S) ARE NOT INCLUDED IN THIS EVALUATION.
- * NO DETECTIONS ABOVE INTERIM CLEANUP LEVELS (ICLs) AT THIS LOCATION.

DRAFT

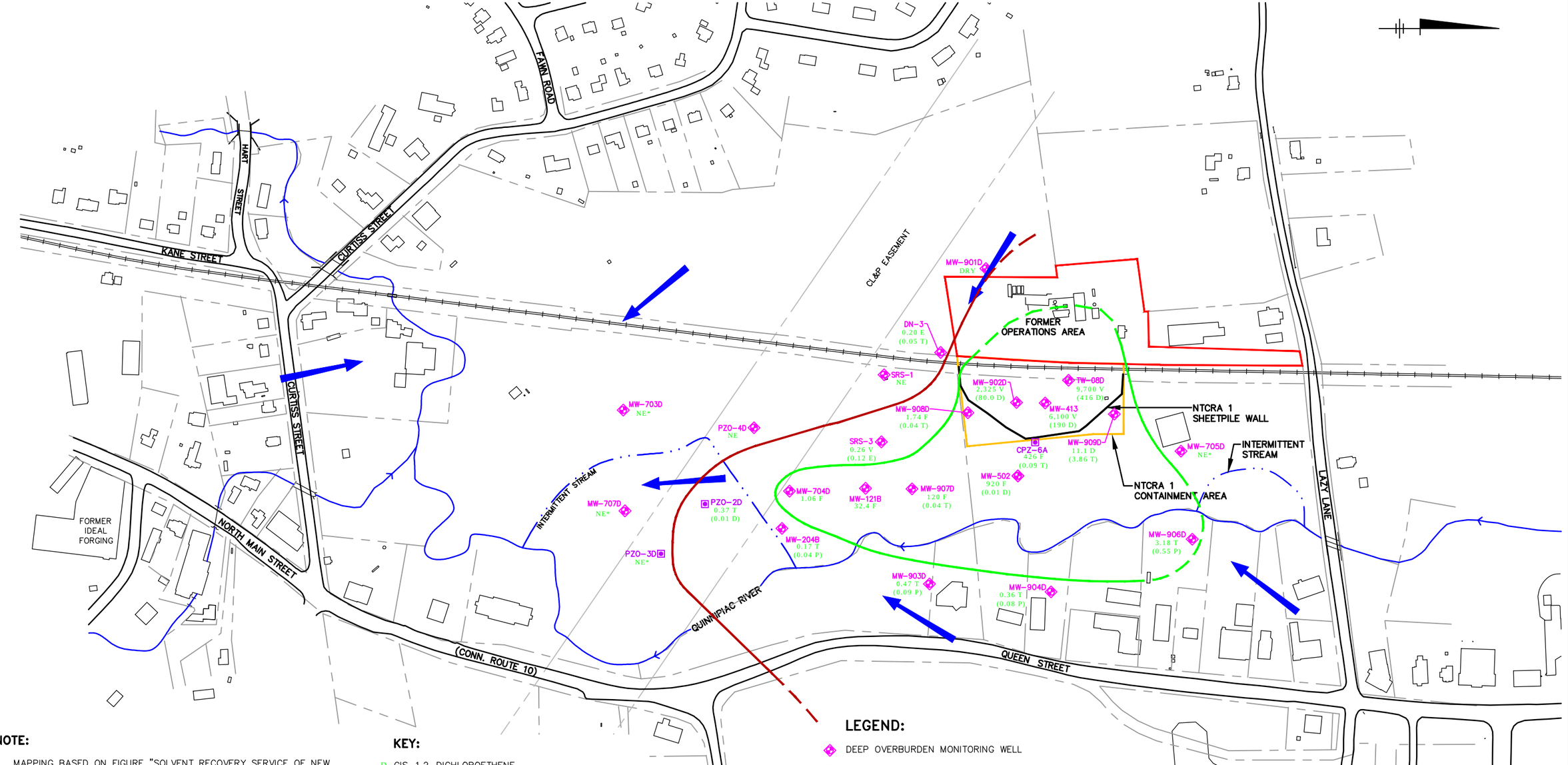
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

VOC EXCEEDANCE PLUME MIDDLE OVERBURDEN

ARCADIS

FIGURE 13

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIB\05463400\01900\MNA 2014\VOC\54634C13.DWG LAYOUT: 13 SAVED: 9/11/2014 1:49 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 1:49 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6–28–93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

2. POSTED DATA ARE THE LATEST SAMPLING RESULTS AT EACH WELL, AS OF JUNE 2014.

KEY:

- D CIS–1,2–DICHLOROETHENE
- E 1,1–DICHLOROETHANE
- F TETRAHYDROFURAN
- P TETRACHLOROETHENE
- T TRICHLOROETHENE
- V VINYL CHLORIDE
- NE EXCEEDANCE RATIO LESS THAN 0.10

LEGEND:

- DEEP OVERBURDEN MONITORING WELL
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- MW-502 920 F (0.01 D) — WELL WITH REGULATORY EXCEEDANCE RATIO. NUMBERS >1.0 INDICATE GROUNDWATER REGULATORY LIMIT EXCEEDED. NUMBERS <1.0 INDICATE EXCEEDANCE RATIO FOR COMPOUNDS DETECTED BELOW REGULATORY LIMIT. FIRST NUMBER INDICATES MAXIMUM MULTIPLE OF A DETECTED VOC OVER REGULATORY LIMIT (e.g., 130 INDICATES 130 x LIMIT). LETTER INDICATES COMPOUND WITH INDICATED EXCEEDANCE RATIO (e.g., P = TETRACHLOROETHENE). NUMBERS IN PARENTHESES INDICATE OTHER EXCEEDANCE RATIOS FOR SELECT COMPOUNDS AND WELLS. COMPOUNDS DETECTED IN BLANK(S) ARE NOT INCLUDED IN THIS EVALUATION.
- * NO DETECTIONS ABOVE INTERIM CLEANUP LEVELS (ICLs) AT THIS LOCATION.

DRAFT

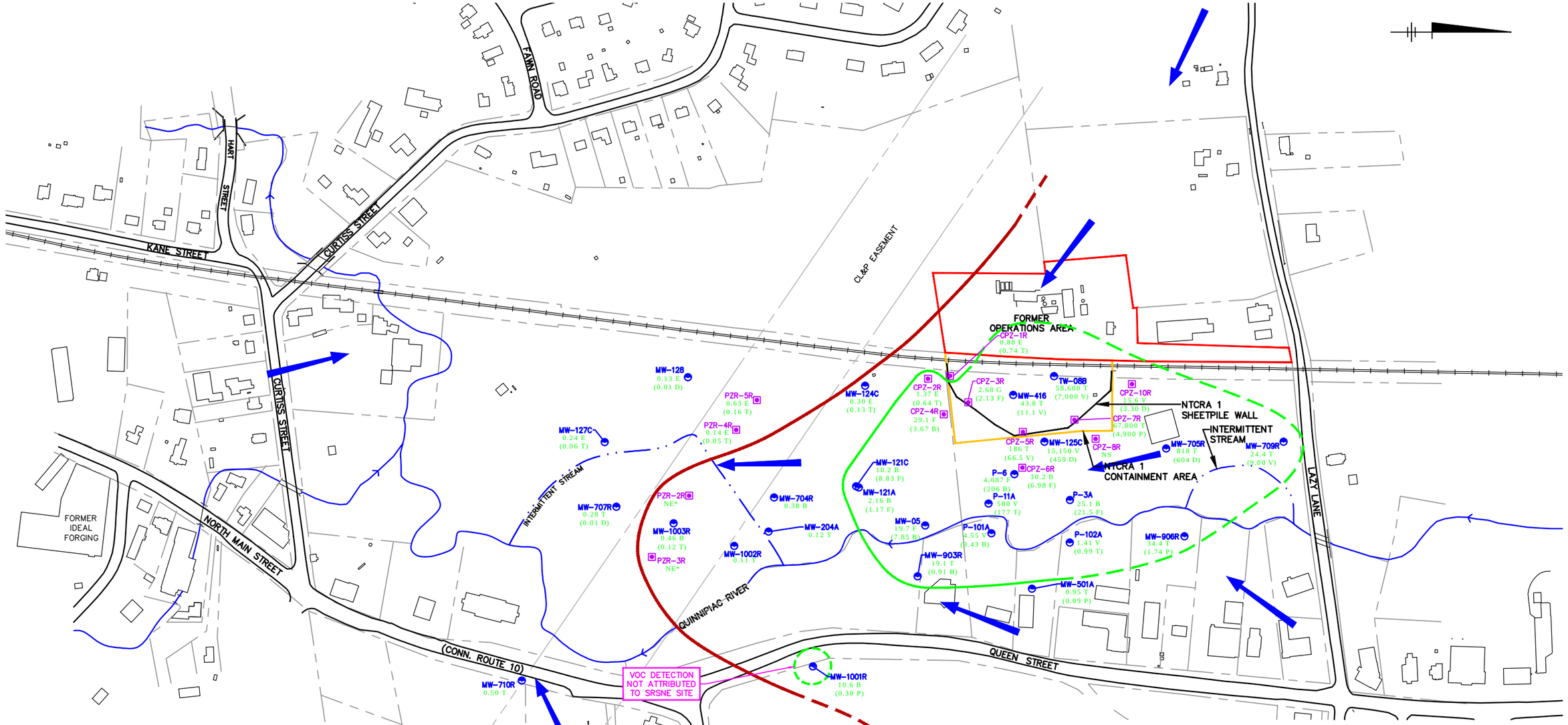
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

VOC EXCEEDANCE PLUME DEEP OVERBURDEN

ARCADIS

FIGURE **14**

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FR2)
G:\ENVCAD\Manchester\ACTIB0054634000\01900\MNA 2014\VOC\54634C14.DWG LAYOUT: 14 SAVED: 9/11/2014 1:54 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

2. POSTED DATA ARE THE LATEST SAMPLING RESULTS AT EACH WELL, AS OF JUNE 2014.

KEY:

- B BENZENE
- D CIS-1,2-DICHLOROETHENE
- E 1,1-DICHLOROETHENE
- F TETRAHYDROFURAN
- G CHLOROETHANE
- P TETRACHLOROETHENE
- T TRICHLOROETHENE
- V VINYL CHLORIDE
- NE EXCEEDANCE RATIO LESS THAN 0.10
- NS NOT SAMPLED

LEGEND:

- SHALLOW BEDROCK MONITORING WELL
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- P-11A 580 V (177 T) WELL WITH REGULATORY EXCEEDANCE RATIO. NUMBERS >1.0 INDICATE GROUNDWATER REGULATORY LIMIT EXCEEDED. NUMBERS <1.0 INDICATE EXCEEDANCE RATIO FOR COMPOUNDS DETECTED BELOW REGULATORY LIMIT. FIRST NUMBER INDICATES MAXIMUM MULTIPLE OF A DETECTED VOC OVER REGULATORY LIMIT (e.g., 130 INDICATES 130 x LIMIT). LETTER INDICATES COMPOUND WITH INDICATED EXCEEDANCE RATIO (e.g., P = TETRACHLOROETHENE). NUMBERS IN PARENTHESES INDICATE OTHER EXCEEDANCE RATIOS FOR SELECT COMPOUNDS AND WELLS. COMPOUNDS DETECTED IN BLANK(S) ARE NOT INCLUDED IN THIS EVALUATION.
- * NO DETECTIONS ABOVE INTERIM CLEANUP LEVELS (ICLs) AT THIS LOCATION.

DRAFT

0 300' 600'

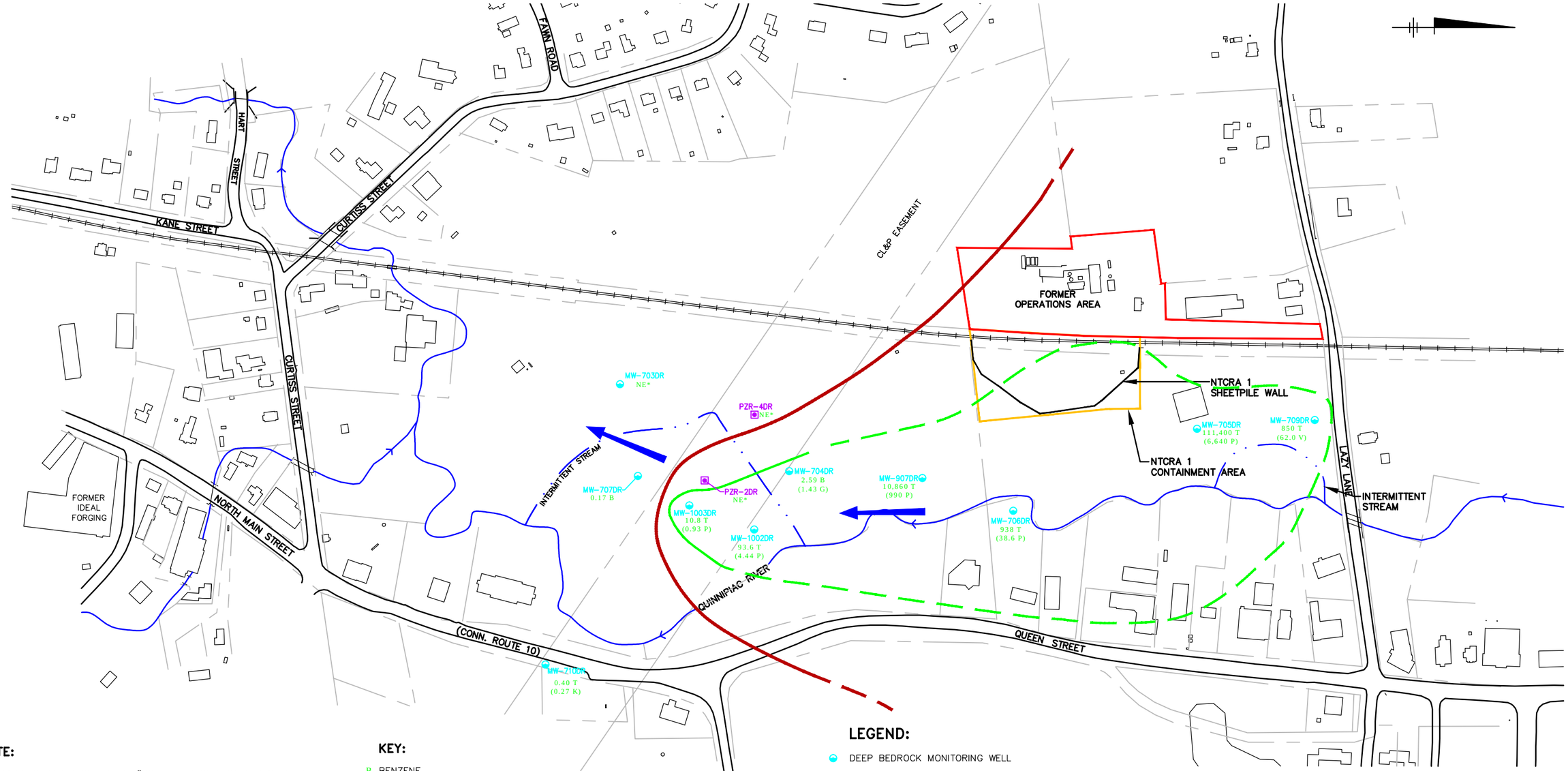
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

VOC EXCEEDANCE PLUME SHALLOW BEDROCK

ARCADIS

FIGURE 15

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DIV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF (FRZ)
G:\ENVCAD\Manchester\ACTIVE\054634000\01900\MNA 2014\VOC\54634C15.DWG LAYOUT: 15 SAVED: 9/11/2014 1:59 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
XREFS: PROJECTNAME: ----
54634X01 IMAGES:



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

2. POSTED DATA ARE THE LATEST SAMPLING RESULTS AT EACH WELL, AS OF JUNE 2014.

KEY:

- B BENZENE
- G CHLOROETHANE
- K 1,2-DICHLOROETHANE
- P TETRACHLOROETHENE
- T TRICHLOROETHENE
- V VINYL CHLORIDE
- NE EXCEEDANCE RATIO LESS THAN 0.10

LEGEND:

- DEEP BEDROCK MONITORING WELL
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- MW-907DR 10,860 T (990 P) — WELL WITH REGULATORY EXCEEDANCE RATIO. NUMBERS >1.0 INDICATE GROUNDWATER REGULATORY LIMIT EXCEEDED. NUMBERS <1.0 INDICATE EXCEEDANCE RATIO FOR COMPOUNDS DETECTED BELOW REGULATORY LIMIT. FIRST NUMBER INDICATES MAXIMUM MULTIPLE OF A DETECTED VOC OVER REGULATORY LIMIT (e.g., 130 INDICATES 130 x LIMIT). LETTER INDICATES COMPOUND WITH INDICATED EXCEEDANCE RATIO (e.g., P = TETRACHLOROETHENE). NUMBERS IN PARENTHESES INDICATE OTHER EXCEEDANCE RATIOS FOR SELECT COMPOUNDS AND WELLS. COMPOUNDS DETECTED IN BLANK(S) ARE NOT INCLUDED IN THIS EVALUATION.
- * NO DETECTIONS ABOVE INTERIM CLEANUP LEVELS (ICLs) AT THIS LOCATION.

0 300' 600'

DRAFT

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

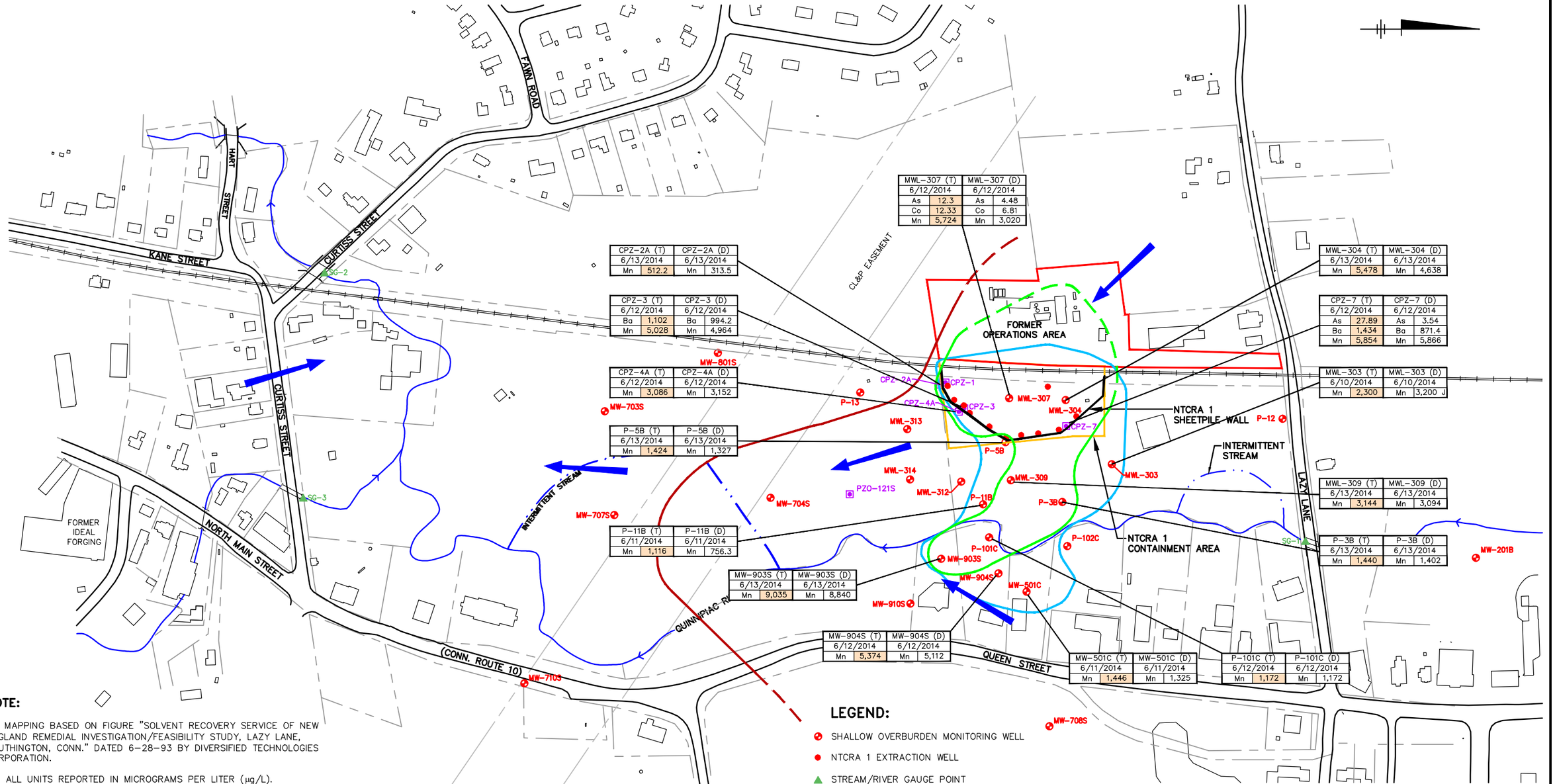
VOC EXCEEDANCE PLUME DEEP BEDROCK

ARCADIS

FIGURE 16

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIVE\00546341000\01900\MNA 2014\VOC\54634C16.DWG LAYOUT: 16 SAVED: 8/13/2014 3:52 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/13/2014 3:53 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FR2)
G:\ENVCAD\Manchester\ACTIB0054634000000220054634C17.dwg LAYOUT: 17 SAVED: 9/11/2014 2:16 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:16 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01



CPZ-2A (T)		CPZ-2A (D)	
6/13/2014		6/13/2014	
Mn	512.2	Mn	313.5

CPZ-3 (T)		CPZ-3 (D)	
6/12/2014		6/12/2014	
Ba	1,102	Ba	994.2
Mn	5,028	Mn	4,964

CPZ-4A (T)		CPZ-4A (D)	
6/12/2014		6/12/2014	
Mn	3,086	Mn	3,152

P-5B (T)		P-5B (D)	
6/13/2014		6/13/2014	
Mn	1,424	Mn	1,327

P-11B (T)		P-11B (D)	
6/11/2014		6/11/2014	
Mn	1,116	Mn	756.3

MW-903S (T)		MW-903S (D)	
6/13/2014		6/13/2014	
Mn	9,035	Mn	8,840

MW-904S (T)		MW-904S (D)	
6/12/2014		6/12/2014	
Mn	5,374	Mn	5,112

MWL-307 (T)		MWL-307 (D)	
6/12/2014		6/12/2014	
As	12.3	As	4.48
Co	12.33	Co	6.81
Mn	5,724	Mn	3,020

MWL-304 (T)		MWL-304 (D)	
6/13/2014		6/13/2014	
Mn	5,478	Mn	4,638

CPZ-7 (T)		CPZ-7 (D)	
6/12/2014		6/12/2014	
As	27.89	As	3.54
Ba	1,434	Ba	871.4
Mn	5,854	Mn	5,866

MWL-303 (T)		MWL-303 (D)	
6/10/2014		6/10/2014	
Mn	2,300	Mn	3,200 J

MWL-309 (T)		MWL-309 (D)	
6/13/2014		6/13/2014	
Mn	3,144	Mn	3,094

P-3B (T)		P-3B (D)	
6/13/2014		6/13/2014	
Mn	1,440	Mn	1,402

MW-501C (T)		MW-501C (D)	
6/11/2014		6/11/2014	
Mn	1,446	Mn	1,325

P-101C (T)		P-101C (D)	
6/12/2014		6/12/2014	
Mn	1,172	Mn	1,172

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

2. ALL UNITS REPORTED IN MICROGRAMS PER LITER (µg/L).

WELL IDENTIFICATION	
SAMPLE DATE	
METAL	ACTION LEVEL*
As = ARSENIC	10
Ba = BARIUM	1,000
Co = COBALT	10
Mn = MANGANESE	500

* = ONLY APPLICABLE TO TOTAL METALS

LEGEND:

- SHALLOW OVERBURDEN MONITORING WELL
- NTCRA 1 EXTRACTION WELL
- STREAM/RIVER GAUGE POINT
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED EXTENT OF GROUNDWATER METALS EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- (D) DISSOLVED
- (T) TOTAL
- J ANALYTE RESULT IS ESTIMATED
- 5,374 ANALYTE DETECTED ABOVE THE ACTION LEVEL

0 300' 600'

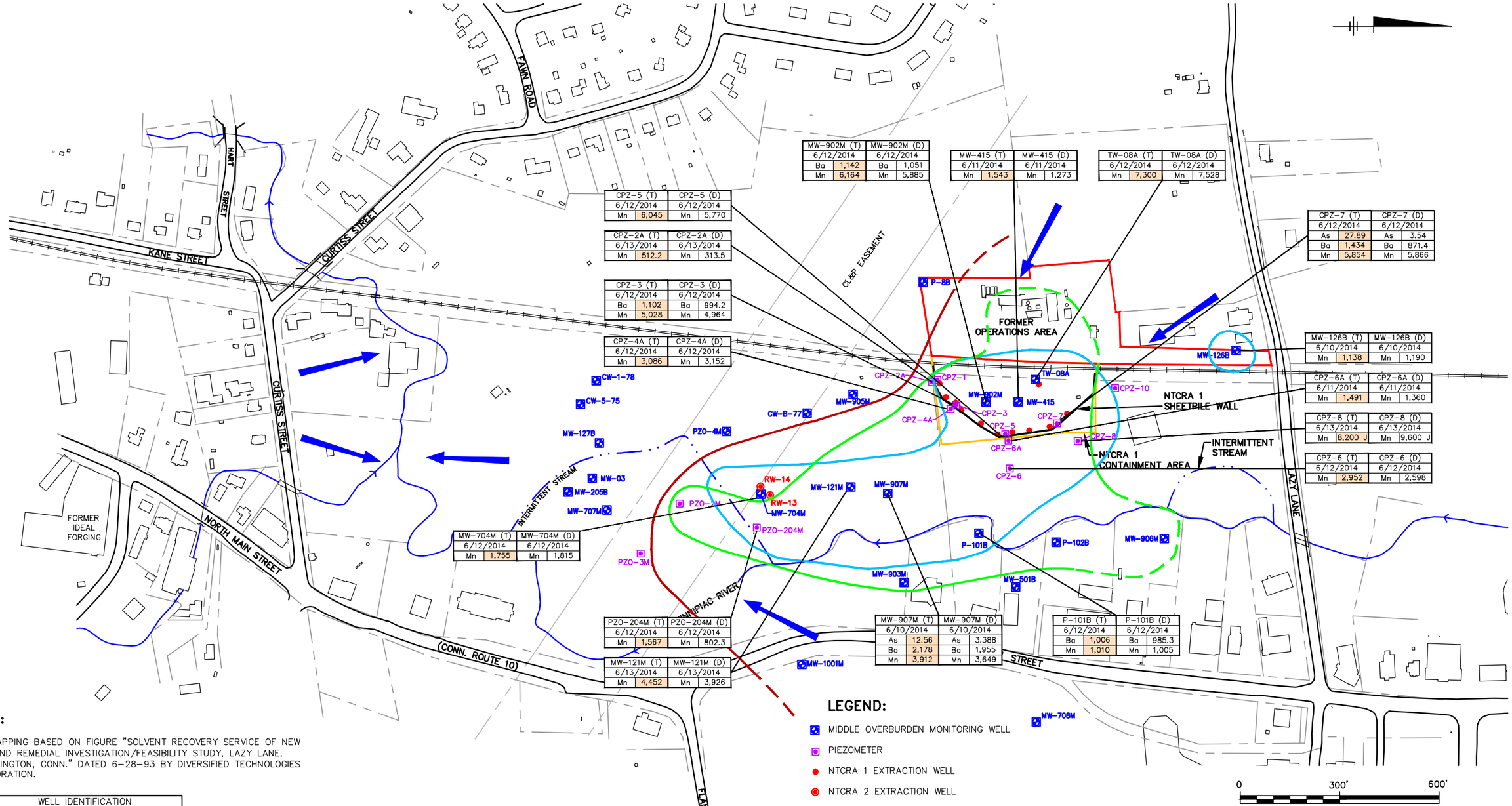
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SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

METALS EXCEEDANCE PLUME SHALLOW OVERBURDEN

ARCADIS

FIGURE 17



MW-902M (T)		MW-902M (D)	
6/12/2014		6/12/2014	
Ba	1,142	Ba	1,051
Mn	6,164	Mn	5,885

MW-415 (T)		MW-415 (D)	
6/11/2014		6/11/2014	
Mn	1,543	Mn	1,273

TW-08A (T)		TW-08A (D)	
6/12/2014		6/12/2014	
Mn	7,300	Mn	7,528

CPZ-5 (T)		CPZ-5 (D)	
6/12/2014		6/12/2014	
Mn	6,045	Mn	5,770

CPZ-2A (T)		CPZ-2A (D)	
6/13/2014		6/13/2014	
Mn	512.2	Mn	313.5

CPZ-3 (T)		CPZ-3 (D)	
6/12/2014		6/12/2014	
Ba	1,102	Ba	994.2
Mn	5,028	Mn	4,964

CPZ-4A (T)		CPZ-4A (D)	
6/12/2014		6/12/2014	
Mn	3,086	Mn	3,152

CPZ-7 (T)		CPZ-7 (D)	
6/12/2014		6/12/2014	
As	27.89	As	3.54
Ba	1,434	Ba	871.4
Mn	5,854	Mn	5,866

MW-126B (T)		MW-126B (D)	
6/10/2014		6/10/2014	
Mn	1,138	Mn	1,190

CPZ-6A (T)		CPZ-6A (D)	
6/11/2014		6/11/2014	
Mn	1,491	Mn	1,360

CPZ-8 (T)		CPZ-8 (D)	
6/13/2014		6/13/2014	
Mn	8,200 J	Mn	9,600 J

CPZ-6 (T)		CPZ-6 (D)	
6/12/2014		6/12/2014	
Mn	2,952	Mn	2,598

MW-704M (T)		MW-704M (D)	
6/12/2014		6/12/2014	
Mn	1,755	Mn	1,815

PZO-204M (T)		PZO-204M (D)	
6/12/2014		6/12/2014	
Mn	1,567	Mn	802.3

MW-121M (T)		MW-121M (D)	
6/13/2014		6/13/2014	
Mn	4,452	Mn	3,926

MW-907M (T)		MW-907M (D)	
6/10/2014		6/10/2014	
As	12.56	As	3.388
Ba	2,178	Ba	1,955
Mn	3,912	Mn	3,649

P-101B (T)		P-101B (D)	
6/12/2014		6/12/2014	
Ba	1,006	Ba	985.3
Mn	1,010	Mn	1,005

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
METAL	ACTION LEVEL*
As = ARSENIC	10
Ba = BARIUM	1,000
Mn = MANGANESE	500

* = ONLY APPLICABLE TO TOTAL METALS

LEGEND:

- MIDDLE OVERBURDEN MONITORING WELL
- PIEZOMETER
- NTCRA 1 EXTRACTION WELL
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED EXTENT OF GROUNDWATER METALS EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- (D) DISSOLVED
- (T) TOTAL
- J ANALYTE RESULT IS ESTIMATED
- 7,630 ANALYTE DETECTED ABOVE THE ACTION LEVEL

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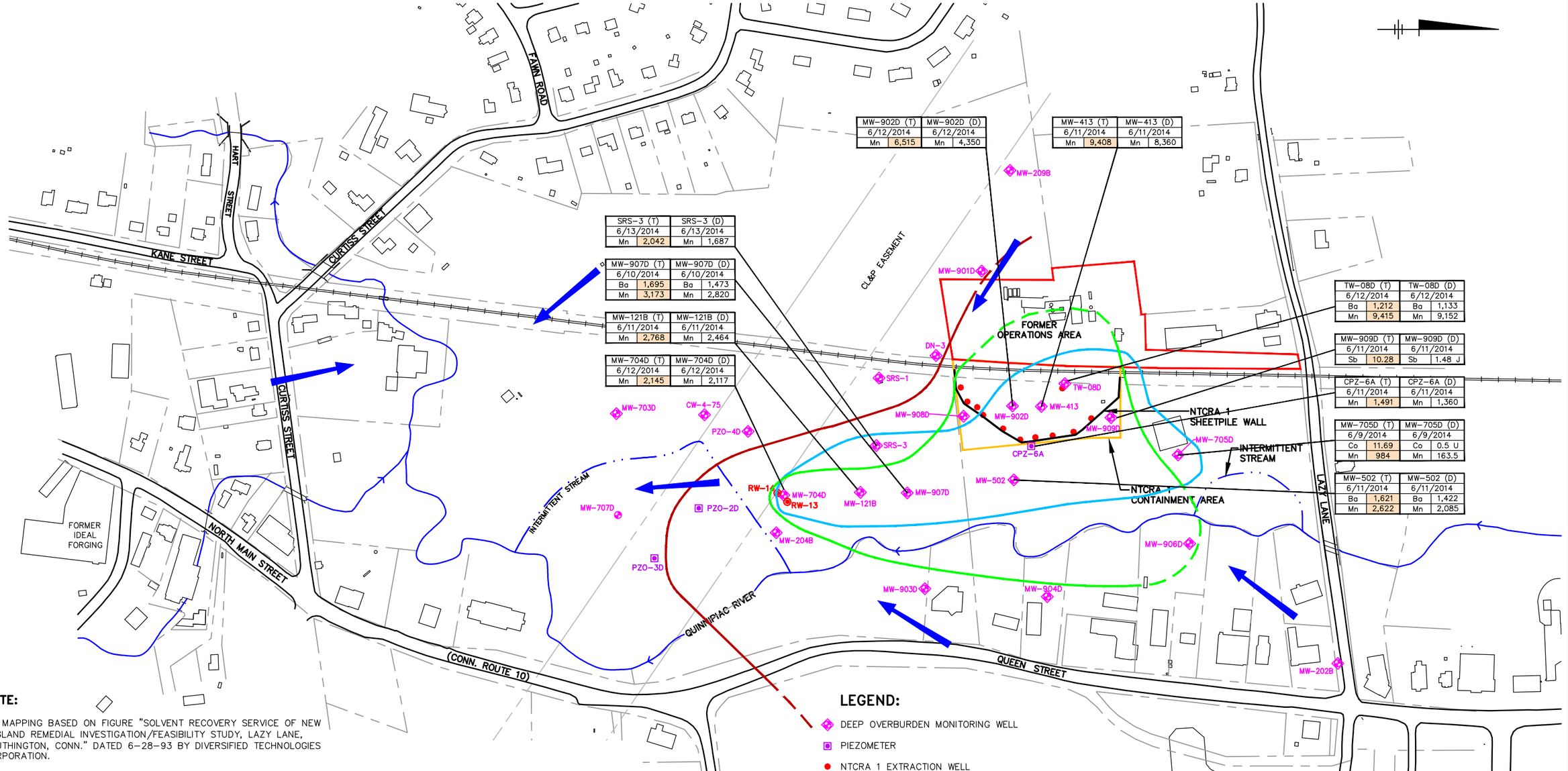
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

METALS EXCEEDANCE PLUME MIDDLE OVERBURDEN

ARCADIS

FIGURE
18

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF,(FRZ)
G:\ENVCAD\Manchester\ACTIB005463400000220054634C18.dwg LAYOUT: 18 SAVED: 9/11/2014 2:16 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
XREFS: IMAGES: PROJECTNAME: ---
54634X01
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:16 PM BY: SMALL, BRIAN



MW-902D (T)		MW-902D (D)	
6/12/2014		6/12/2014	
Mn	6,515	Mn	4,350

MW-413 (T)		MW-413 (D)	
6/11/2014		6/11/2014	
Mn	9,408	Mn	8,360

SRS-3 (T)		SRS-3 (D)	
6/13/2014		6/13/2014	
Mn	2,042	Mn	1,687

MW-907D (T)		MW-907D (D)	
6/10/2014		6/10/2014	
Ba	1,695	Ba	1,473
Mn	3,173	Mn	2,820

MW-121B (T)		MW-121B (D)	
6/11/2014		6/11/2014	
Mn	2,768	Mn	2,464

MW-704D (T)		MW-704D (D)	
6/12/2014		6/12/2014	
Mn	2,145	Mn	2,117

TW-08D (T)		TW-08D (D)	
6/12/2014		6/12/2014	
Ba	1,212	Ba	1,133
Mn	9,415	Mn	9,152

MW-909D (T)		MW-909D (D)	
6/11/2014		6/11/2014	
Sb	10.28	Sb	1.48 J

CPZ-6A (T)		CPZ-6A (D)	
6/11/2014		6/11/2014	
Mn	1,491	Mn	1,360

MW-705D (T)		MW-705D (D)	
6/9/2014		6/9/2014	
Co	11.69	Co	0.5 U
Mn	984	Mn	163.5

MW-502 (T)		MW-502 (D)	
6/11/2014		6/11/2014	
Ba	1,621	Ba	1,422
Mn	2,622	Mn	2,085

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION SAMPLE DATE	
METAL	ACTION LEVEL*
Sb = ANTIMONY	6
Ba = BARIUM	1,000
Co = COBALT	10
Mn = MANGANESE	500

* = ONLY APPLICABLE TO TOTAL METALS

LEGEND:

- DEEP OVERBURDEN MONITORING WELL
- PIEZOMETER
- NTCRA 1 EXTRACTION WELL
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED EXTENT OF GROUNDWATER METALS EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- (D) DISSOLVED
- (T) TOTAL
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- 2,622 ANALYTE DETECTED ABOVE THE ACTION LEVEL

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SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

METALS EXCEEDANCE PLUME DEEP OVERBURDEN

ARCADIS

FIGURE 19

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF,(FRZ)
G:\ENVCAD\Manchester\ACTIVITY\B0054634\0000\0220\0054634C19.dwg LAYOUT: 19 SAVED: 9/11/2014 2:17 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:17 PM BY: SMALL, BRIAN
XREFS: 54634X01 IMAGES: PROJECTNAME: ----

P-6 (T)		P-6 (D)	
6/11/2014		6/11/2014	
Ba	2,280	Ba	1,562
Mn	5,674	Mn	3,169

P-11A (T)		P-11A (D)	
6/11/2014		6/11/2014	
Mn	1,720	Mn	1,399

MW-121A (T)		MW-121A (D)	
6/11/2014		6/11/2014	
Mn	642.9	Mn	234

MW-121C (T)		MW-121C (D)	
6/11/2014		6/11/2014	
Mn	2,269	Mn	0.5 U

MW-704R (T)		MW-704R (D)	
6/11/2014		6/11/2014	
Sb	11.25	Sb	10.86

MW-05 (T)		MW-05 (D)	
6/11/2014		6/11/2014	
Mn	548.5	Mn	584

MW-1001R (T)		MW-1001R (D)	
6/11/2014		6/11/2014	
Cr	108.9 J	Cr	106.5

MW-416 (T)		MW-416 (D)	
6/12/2014		6/12/2014	
Sb	6.904	Sb	1 U

TW-08B (T)		TW-08B (D)	
6/12/2014		6/12/2014	
Ba	1,358	Ba	1,134
Mn	5,760	Mn	5,280

MW-125C (T)		MW-125C (D)	
6/11/2014		6/11/2014	
Ba	1,185	Ba	1,085

CPZ-6R (T)		CPZ-6R (D)	
6/12/2014		6/12/2014	
Mn	1,171	Mn	1,103

P-3A (T)		P-3A (D)	
6/11/2014		6/11/2014	
Mn	922.3 J	Mn	1,458 J

MW-906R (T)		MW-906R (D)	
6/10/2014		6/10/2014	
V	95.14	V	100.2

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
METAL	ACTION LEVEL*
Sb = ANTIMONY	6
Ba = BARIUM	1,000
Cr = CHROMIUM	100
Mn = MANGANESE	500
V = VANADIUM	50

* = ONLY APPLICABLE TO TOTAL METALS

LEGEND:

- SHALLOW BEDROCK MONITORING WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED EXTENT OF GROUNDWATER METALS EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- (D) DISSOLVED
- (T) TOTAL
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- 548.5 ANALYTE DETECTED ABOVE THE ACTION LEVEL

VOC/METALS DETECTION NOT ATTRIBUTED TO SRSNE SITE

DRAFT

0 300' 600'

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

METALS EXCEEDANCE PLUME SHALLOW BEDROCK

ARCADIS

FIGURE **20**

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FR2)
G:\ENVCAD\Manchester\ACTIB\0054634000\0220\054634C20.dwg LAYOUT: 20 SAVED: 9/11/2014 2:17 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
XREFS: PROJECTNAME: ---
IMAGES:
54634X01

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=*REF, (FR2)
G:\ENVCAD\Manchester\ACTIB\005463410000\0220\05463422I.dwg LAYOUT: 21 SAVED: 9/11/2014 2:18 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:18 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ---
54634X01

MW-704DR (T)		MW-704DR (D)	
6/13/2014		6/13/2014	
Sb	19.19	Sb	3.008
Mn	1,072	Mn	1,059

KANE STREET
HART STREET
CURTISS STREET
FAWN ROAD
NORTH MAIN STREET
(CONN. ROUTE 10)
QUEEN STREET
FLANDERS STREET
LAZY LANE
CL&P EASEMENT
FORMER IDEAL FORGING
FORMER OPERATIONS AREA
NTCRA 1 SHEETPILE WALL
NTCRA 1 CONTAINMENT AREA
INTERMITTENT STREAM
INTERMITTENT STREAM
QUINNIPIAC RIVER
MW-701DR
MW-702DR
MW-703DR
MW-705DR
MW-709DR
PZR-4DR
PZR-2DR
MW-704DR RW-1R
MW-907DR
MW-1003DR
MW-1002DR
MW-707DR
MW-706DR
PZ-906DR
PZ-903DR
MW-710DR
MW-708DR

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
METAL	ACTION LEVEL*
Sb = ANTIMONY	6
Mn = MANGANESE	500

* = ONLY APPLICABLE TO TOTAL METALS

LEGEND:

- DEEP BEDROCK MONITORING WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED EXTENT OF GROUNDWATER METALS EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- (D) DISSOLVED
- (T) TOTAL
- 1,072 ANALYTE DETECTED ABOVE THE ACTION LEVEL

0 300' 600'

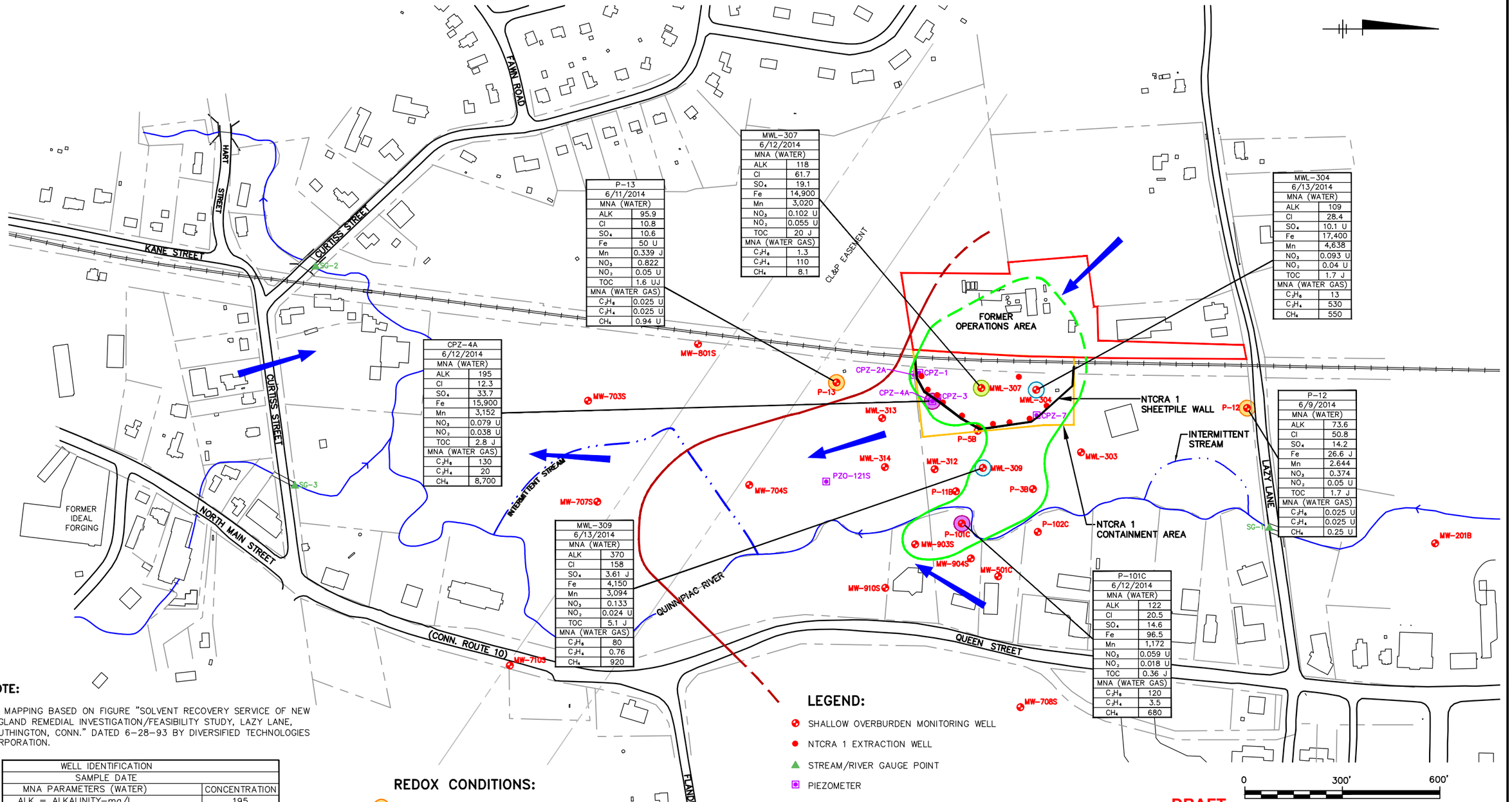
DRAFT

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

METALS EXCEEDANCE PLUME DEEP BEDROCK

ARCADIS

FIGURE 21



P-13	
6/11/2014	
MNA (WATER)	
ALK	95.9
Cl	10.8
SO_4	10.6
Fe	50 U
Mn	0.339 J
NO_3	0.822
NO_2	0.05 U
TOC	1.6 UJ
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.025 U
CH_4	0.94 U

MWL-307	
6/12/2014	
MNA (WATER)	
ALK	118
Cl	61.7
SO_4	19.1
Fe	14,900
Mn	3,020
NO_3	0.102 U
NO_2	0.055 U
TOC	20 J
MNA (WATER GAS)	
C_2H_6	1.3
C_2H_4	110
CH_4	8.1

MWL-304	
6/13/2014	
MNA (WATER)	
ALK	109
Cl	28.4
SO_4	10.1 U
Fe	17,400
Mn	4,638
NO_3	0.093 U
NO_2	0.04 U
TOC	1.7 J
MNA (WATER GAS)	
C_2H_6	13
C_2H_4	530
CH_4	550

CPZ-4A	
6/12/2014	
MNA (WATER)	
ALK	195
Cl	12.3
SO_4	33.7
Fe	15,900
Mn	3,152
NO_3	0.079 U
NO_2	0.038 U
TOC	2.8 J
MNA (WATER GAS)	
C_2H_6	130
C_2H_4	20
CH_4	8,700

P-12	
6/9/2014	
MNA (WATER)	
ALK	73.6
Cl	50.8
SO_4	14.2
Fe	26.6 J
Mn	2.644
NO_3	0.374
NO_2	0.05 U
TOC	1.7 J
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.025 U
CH_4	0.25 U

MWL-309	
6/13/2014	
MNA (WATER)	
ALK	370
Cl	158
SO_4	3.61 J
Fe	4,150
Mn	3,094
NO_3	0.133
NO_2	0.024 U
TOC	5.1 J
MNA (WATER GAS)	
C_2H_6	80
C_2H_4	0.76
CH_4	920

P-101C	
6/12/2014	
MNA (WATER)	
ALK	122
Cl	20.5
SO_4	14.6
Fe	96.5
Mn	1,172
NO_3	0.059 U
NO_2	0.018 U
TOC	0.36 J
MNA (WATER GAS)	
C_2H_6	120
C_2H_4	3.5
CH_4	680

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
MNA PARAMETERS (WATER)	CONCENTRATION
ALK = ALKALINITY-mg/L	195
Cl = CHLORIDE-mg/L	12.3
SO_4 = SULFATE-mg/L	33.7
Fe = IRON (DISSOLVED)-µg/L	15,900
Mn = MANGANESE (DISSOLVED)-µg/L	3,152
NO_3 = NITRATE-mg/L	0.079 U
NO_2 = NITRITE-mg/L	0.038 U
TOC = TOTAL ORGANIC CARBON-mg/L	2.8 J
MNA PARAMETERS (WATER GAS)	
C_2H_6 = ETHANE-µg/L	130
C_2H_4 = ETHENE-µg/L	20
CH_4 = METHANE-µg/L	8,700

REDOX CONDITIONS:

- MILDLY REDUCING
- MODERATELY REDUCING
- STRONGLY REDUCING
- VERY STRONGLY REDUCING

LEGEND:

- SHALLOW OVERBURDEN MONITORING WELL
- NTCRA 1 EXTRACTION WELL
- STREAM/RIVER GAUGE POINT
- PIEZOMETER
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER

DRAFT

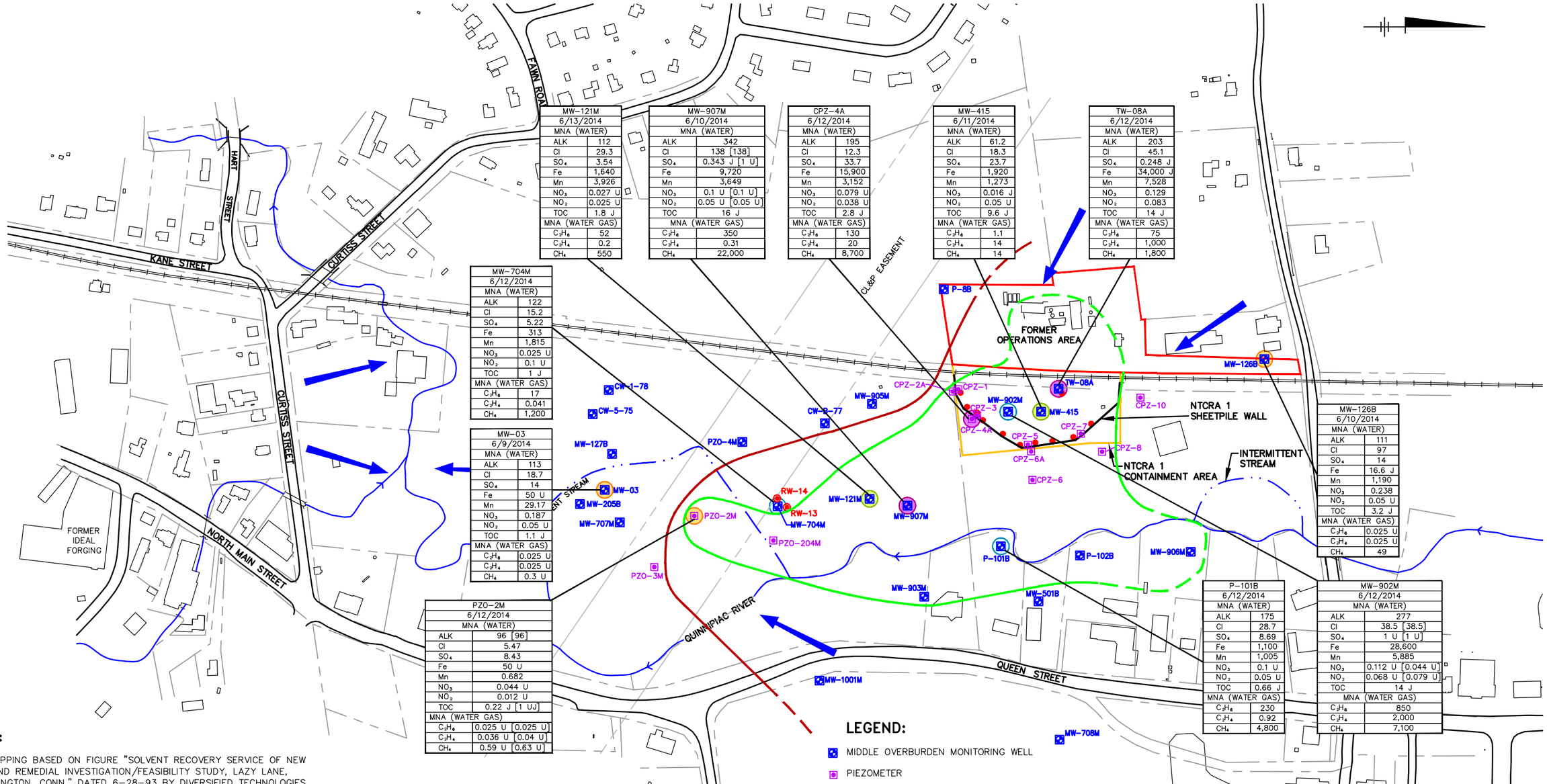
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

MNA PARAMETERS SHALLOW OVERBURDEN

ARCADIS

FIGURE **22**

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=*REF, (FRZ)
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XREFS: IMAGES: PROJECTNAME: ----
54634X01



MW-121M	
6/13/2014	
MNA (WATER)	
ALK	112
Cl	29.3
SO_4	3.54
Fe	1,640
Mn	3,926
NO_3	0.027 U
NO_2	0.025 U
TOC	1.8 J
MNA (WATER GAS)	
C_2H_6	52
C_2H_4	0.2
CH_4	550

MW-907M	
6/10/2014	
MNA (WATER)	
ALK	342
Cl	138 [138]
SO_4	0.343 J [1 U]
Fe	9,720
Mn	3,649
NO_3	0.1 U [0.1 U]
NO_2	0.05 U [0.05 U]
TOC	16 J
MNA (WATER GAS)	
C_2H_6	350
C_2H_4	0.31
CH_4	22,000

CPZ-4A	
6/12/2014	
MNA (WATER)	
ALK	195
Cl	12.3
SO_4	33.7
Fe	15,900
Mn	3,152
NO_3	0.079 U
NO_2	0.038 U
TOC	2.8 J
MNA (WATER GAS)	
C_2H_6	130
C_2H_4	20
CH_4	8,700

MW-415	
6/11/2014	
MNA (WATER)	
ALK	61.2
Cl	18.3
SO_4	23.7
Fe	1,920
Mn	1,273
NO_3	0.016 J
NO_2	0.05 U
TOC	9.6 J
MNA (WATER GAS)	
C_2H_6	1.1
C_2H_4	14
CH_4	14

TW-08A	
6/12/2014	
MNA (WATER)	
ALK	203
Cl	45.1
SO_4	0.248 J
Fe	34,000 J
Mn	7,528
NO_3	0.129
NO_2	0.083
TOC	14 J
MNA (WATER GAS)	
C_2H_6	75
C_2H_4	1,000
CH_4	1,800

MW-704M	
6/12/2014	
MNA (WATER)	
ALK	122
Cl	15.2
SO_4	5.22
Fe	313
Mn	1,815
NO_3	0.025 U
NO_2	0.1 U
TOC	1 J
MNA (WATER GAS)	
C_2H_6	17
C_2H_4	0.041
CH_4	1,200

MW-03	
6/9/2014	
MNA (WATER)	
ALK	113
Cl	18.7
SO_4	14
Fe	50 U
Mn	29.17
NO_3	0.187
NO_2	0.05 U
TOC	1.1 J
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.025 U
CH_4	0.3 U

PZO-2M	
6/12/2014	
MNA (WATER)	
ALK	96 [96]
Cl	5.47
SO_4	8.43
Fe	50 U
Mn	0.682
NO_3	0.044 U
NO_2	0.012 U
TOC	0.22 J [1 UJ]
MNA (WATER GAS)	
C_2H_6	0.025 U [0.025 U]
C_2H_4	0.036 U [0.04 U]
CH_4	0.59 U [0.63 U]

MW-126B	
6/10/2014	
MNA (WATER)	
ALK	111
Cl	97
SO_4	14
Fe	16.6 J
Mn	1,190
NO_3	0.238
NO_2	0.05 U
TOC	3.2 J
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.025 U
CH_4	49

P-101B	
6/12/2014	
MNA (WATER)	
ALK	175
Cl	28.7
SO_4	8.69
Fe	1,100
Mn	1,005
NO_3	0.1 U
NO_2	0.05 U
TOC	0.66 J
MNA (WATER GAS)	
C_2H_6	230
C_2H_4	0.92
CH_4	4,800

MW-902M	
6/12/2014	
MNA (WATER)	
ALK	277
Cl	38.5 [38.5]
SO_4	1 U [1 U]
Fe	28,600
Mn	5,885
NO_3	0.112 U [0.044 U]
NO_2	0.068 U [0.079 U]
TOC	14 J
MNA (WATER GAS)	
C_2H_6	850
C_2H_4	2,000
CH_4	7,100

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION SAMPLE DATE	
MNA PARAMETERS (WATER)	CONCENTRATION
ALK = ALKALINITY-mg/L	195
Cl = CHLORIDE-mg/L	12.3
SO_4 = SULFATE-mg/L	33.7
Fe = IRON (DISSOLVED)-µg/L	15,900
Mn = MANGANESE (DISSOLVED)-µg/L	3,152
NO_3 = NITRATE-mg/L	0.079 U
NO_2 = NITRITE-mg/L	0.038 U
TOC = TOTAL ORGANIC CARBON-mg/L	2.8 J
MNA PARAMETERS (WATER GAS)	
C_2H_6 = ETHANE-µg/L	130
C_2H_4 = ETHENE-µg/L	20
CH_4 = METHANE-µg/L	8,700

REDOX CONDITIONS:

- MILDLY REDUCING
- MODERATELY REDUCING
- STRONGLY REDUCING
- VERY STRONGLY REDUCING

LEGEND:

- MIDDLE OVERBURDEN MONITORING WELL
- PIEZOMETER
- NTCRA 1 EXTRACTION WELL
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- [38.5] DUPLICATE SAMPLE RESULT
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER

DRAFT

SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT

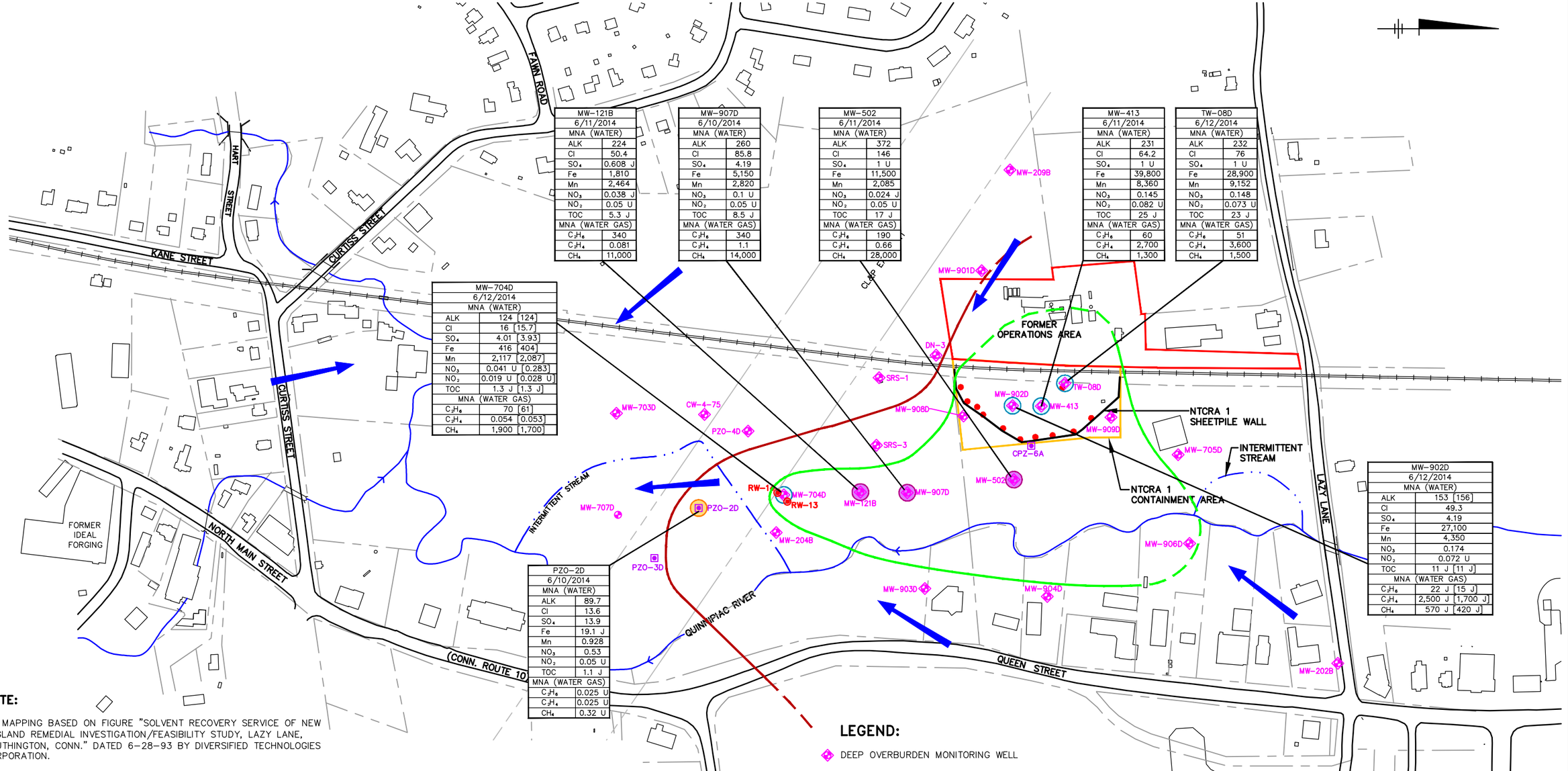
MONITORED NATURAL ATTENUATION REPORT

MNA PARAMETERS MIDDLE OVERBURDEN

ARCADIS

FIGURE 23

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
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NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
MNA PARAMETERS (WATER)	CONCENTRATION
ALK = ALKALINITY-mg/L	89.7
Cl = CHLORIDE-mg/L	13.6
SO_4 = SULFATE-mg/L	13.9
Fe = IRON (DISSOLVED)-µg/L	19.1 J
Mn = MANGANESE (DISSOLVED)-µg/L	0.928
NO_3 = NITRATE-mg/L	0.53
NO_2 = NITRITE-mg/L	0.05 U
TOC = TOTAL ORGANIC CARBON-mg/L	1.1 J
MNA PARAMETERS (WATER GAS)	
C_2H_6 = ETHANE-µg/L	0.025 U
C_2H_4 = ETHENE-µg/L	0.025 U
CH_4 = METHANE-µg/L	0.32 U

REDOX CONDITIONS:

- MILDLY REDUCING
- STRONGLY REDUCING
- VERY STRONGLY REDUCING

LEGEND:

- DEEP OVERBURDEN MONITORING WELL
- PIEZOMETER
- NTCRA 1 EXTRACTION WELL
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- [1,700] DUPLICATE SAMPLE RESULT
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER

0 300' 600'

DRAFT

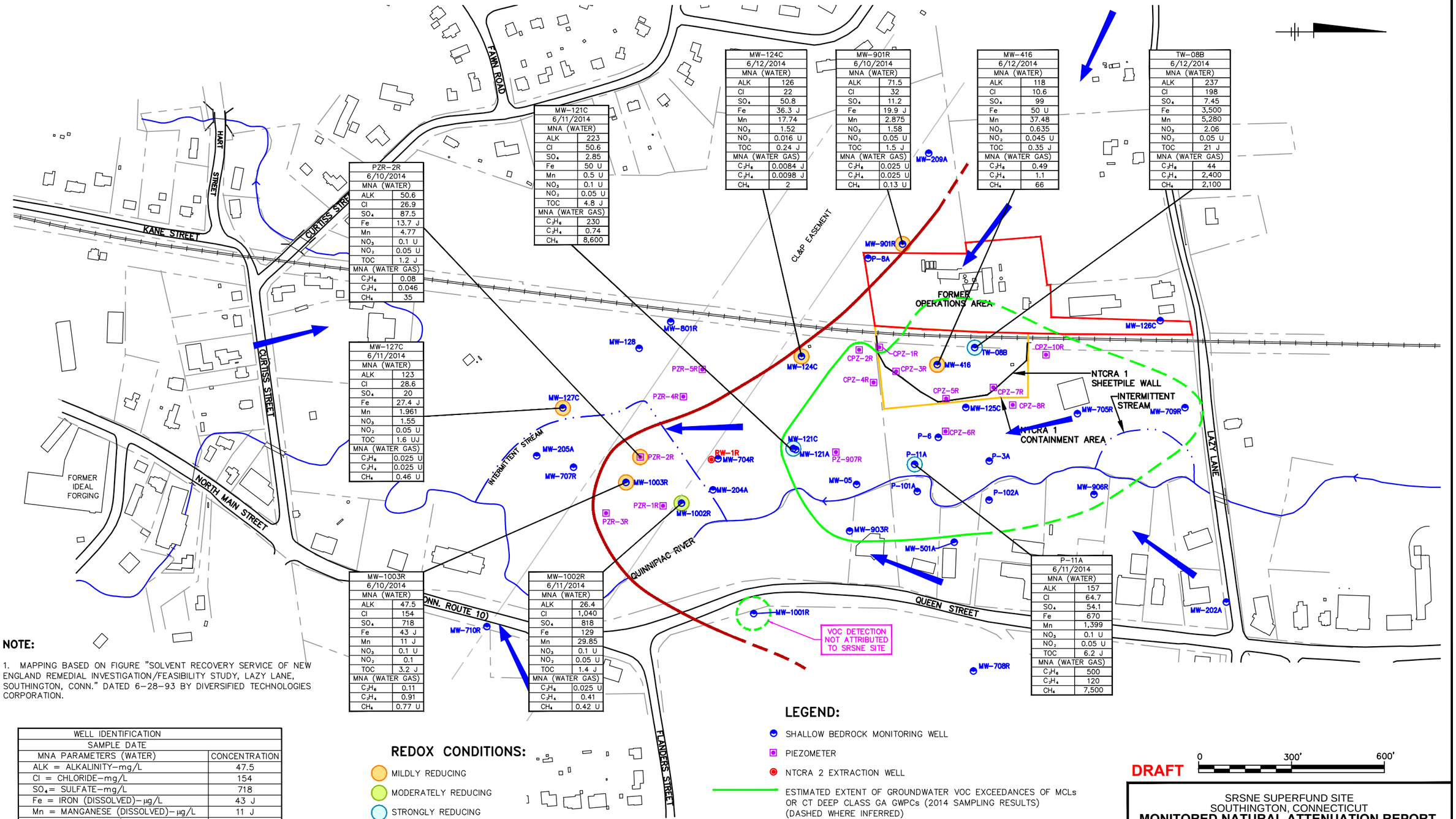
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

MNA PARAMETERS DEEP OVERBURDEN

ARCADIS

FIGURE 24

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF,(FRZ)
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XREFS: 54634X01 IMAGES: PROJECTNAME: ----



PZR-2R	
6/10/2014	
MNA (WATER)	
ALK	50.6
Cl	26.9
SO_4	87.5
Fe	13.7 J
Mn	4.77
NO_3	0.1 U
NO_2	0.05 U
TOC	1.2 J
MNA (WATER GAS)	
C_2H_6	0.08
C_2H_4	0.046
CH_4	35

MW-121C	
6/11/2014	
MNA (WATER)	
ALK	223
Cl	50.6
SO_4	2.85
Fe	50 U
Mn	0.5 U
NO_3	0.1 U
NO_2	0.05 U
TOC	4.8 J
MNA (WATER GAS)	
C_2H_6	230
C_2H_4	0.74
CH_4	8,600

MW-124C	
6/12/2014	
MNA (WATER)	
ALK	126
Cl	22
SO_4	50.8
Fe	36.3 J
Mn	17.74
NO_3	1.52
NO_2	0.016 U
TOC	0.24 J
MNA (WATER GAS)	
C_2H_6	0.0084 J
C_2H_4	0.0098 J
CH_4	2

MW-901R	
6/10/2014	
MNA (WATER)	
ALK	71.5
Cl	32
SO_4	11.2
Fe	19.9 J
Mn	2.875
NO_3	1.58
NO_2	0.05 U
TOC	1.5 J
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.025 U
CH_4	0.13 U

MW-416	
6/12/2014	
MNA (WATER)	
ALK	118
Cl	10.6
SO_4	99
Fe	50 U
Mn	37.48
NO_3	0.635
NO_2	0.045 U
TOC	0.35 J
MNA (WATER GAS)	
C_2H_6	0.49
C_2H_4	1.1
CH_4	66

TW-08B	
6/12/2014	
MNA (WATER)	
ALK	237
Cl	198
SO_4	7.45
Fe	3,500
Mn	5,280
NO_3	2.06
NO_2	0.05 U
TOC	21 J
MNA (WATER GAS)	
C_2H_6	44
C_2H_4	2,400
CH_4	2,100

MW-127C	
6/11/2014	
MNA (WATER)	
ALK	123
Cl	28.6
SO_4	20
Fe	27.4 J
Mn	1.961
NO_3	1.55
NO_2	0.05 U
TOC	1.6 UJ
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.025 U
CH_4	0.46 U

MW-1003R	
6/10/2014	
MNA (WATER)	
ALK	47.5
Cl	154
SO_4	718
Fe	43 J
Mn	11 J
NO_3	0.1 U
NO_2	0.1
TOC	3.2 J
MNA (WATER GAS)	
C_2H_6	0.11
C_2H_4	0.91
CH_4	0.77 U

MW-1002R	
6/11/2014	
MNA (WATER)	
ALK	26.4
Cl	1,040
SO_4	818
Fe	129
Mn	29.85
NO_3	0.1 U
NO_2	0.05 U
TOC	1.4 J
MNA (WATER GAS)	
C_2H_6	0.025 U
C_2H_4	0.41
CH_4	0.42 U

P-11A	
6/11/2014	
MNA (WATER)	
ALK	157
Cl	64.7
SO_4	54.1
Fe	670
Mn	1,399
NO_3	0.1 U
NO_2	0.05 U
TOC	6.2 J
MNA (WATER GAS)	
C_2H_6	500
C_2H_4	120
CH_4	7,500

NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
MNA PARAMETERS (WATER)	CONCENTRATION
ALK = ALKALINITY-mg/L	47.5
Cl = CHLORIDE-mg/L	154
SO_4 = SULFATE-mg/L	718
Fe = IRON (DISSOLVED)-µg/L	43 J
Mn = MANGANESE (DISSOLVED)-µg/L	11 J
NO_3 = NITRATE-mg/L	0.1 U
NO_2 = NITRITE-mg/L	0.1
TOC = TOTAL ORGANIC CARBON-mg/L	3.2 J
MNA PARAMETERS (WATER GAS)	
C_2H_6 = ETHANE-µg/L	0.11
C_2H_4 = ETHENE-µg/L	0.91
CH_4 = METHANE-µg/L	0.77 U

REDOX CONDITIONS:

- MILDLY REDUCING
- MODERATELY REDUCING
- STRONGLY REDUCING

LEGEND:

- SHALLOW BEDROCK MONITORING WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER

DRAFT

0 300' 600'

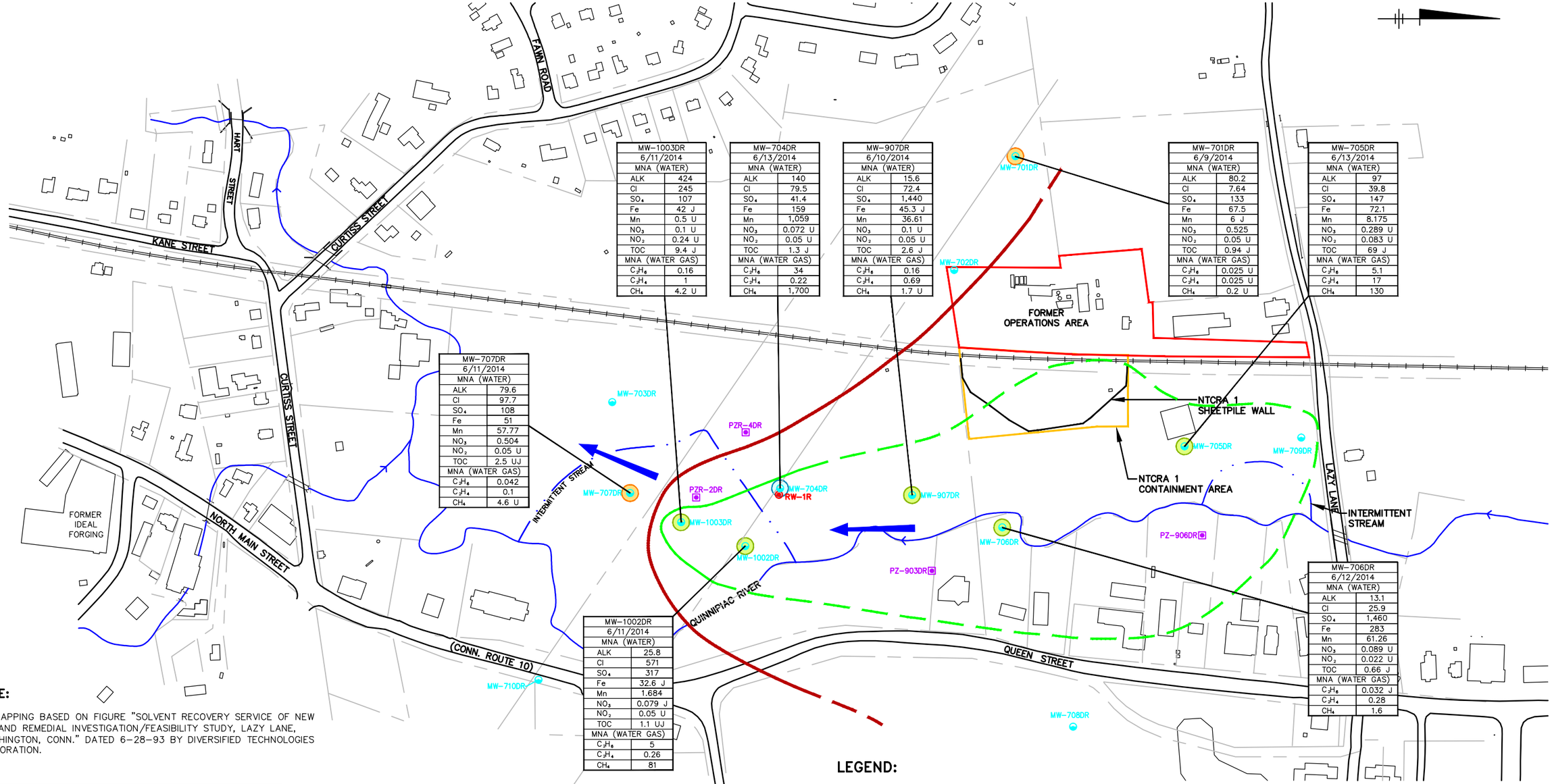
SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

MNA PARAMETERS SHALLOW BEDROCK

ARCADIS

FIGURE 25

CITY: SYRACUSE,NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF; (FRZ)
G:\ENVCAD\Manchester\ACTIVE\00546340000\0220\05463425.dwg LAYOUT: 25 SAVED: 9/11/2014 1:57 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 1:57 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01



NOTE:

1. MAPPING BASED ON FIGURE "SOLVENT RECOVERY SERVICE OF NEW ENGLAND REMEDIAL INVESTIGATION/FEASIBILITY STUDY, LAZY LANE, SOUTHINGTON, CONN." DATED 6-28-93 BY DIVERSIFIED TECHNOLOGIES CORPORATION.

WELL IDENTIFICATION	
SAMPLE DATE	
MNA PARAMETERS (WATER)	CONCENTRATION
ALK = ALKALINITY-mg/L	25.8
Cl = CHLORIDE-mg/L	571
SO_4 = SULFATE-mg/L	317
Fe = IRON (DISSOLVED)-µg/L	32.6 J
Mn = MANGANESE (DISSOLVED)-µg/L	1.684
NO_3 = NITRATE-mg/L	0.079 J
NO_2 = NITRITE-mg/L	0.05 U
TOC = TOTAL ORGANIC CARBON-mg/L	1.1 UJ
MNA PARAMETERS (WATER GAS)	
C_2H_6 = ETHANE-µg/L	5
C_2H_4 = ETHENE-µg/L	0.26
CH_4 = METHANE-µg/L	81

REDOX CONDITIONS:

- MILDLY REDUCING
- MODERATELY REDUCING
- STRONGLY REDUCING

LEGEND:

- DEEP BEDROCK MONITORING WELL
- PIEZOMETER
- NTCRA 2 EXTRACTION WELL
- ESTIMATED EXTENT OF GROUNDWATER VOC EXCEEDANCES OF MCLs OR CT DEEP CLASS GA GWPCs (2014 SAMPLING RESULTS) (DASHED WHERE INFERRED)
- ESTIMATED NTCRA 2 CAPTURE ZONE BOUNDARY
- GENERALIZED GROUNDWATER FLOW DIRECTION
- U ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- J ANALYTE RESULT IS ESTIMATED
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER

DRAFT

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SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

MNA PARAMETERS DEEP BEDROCK

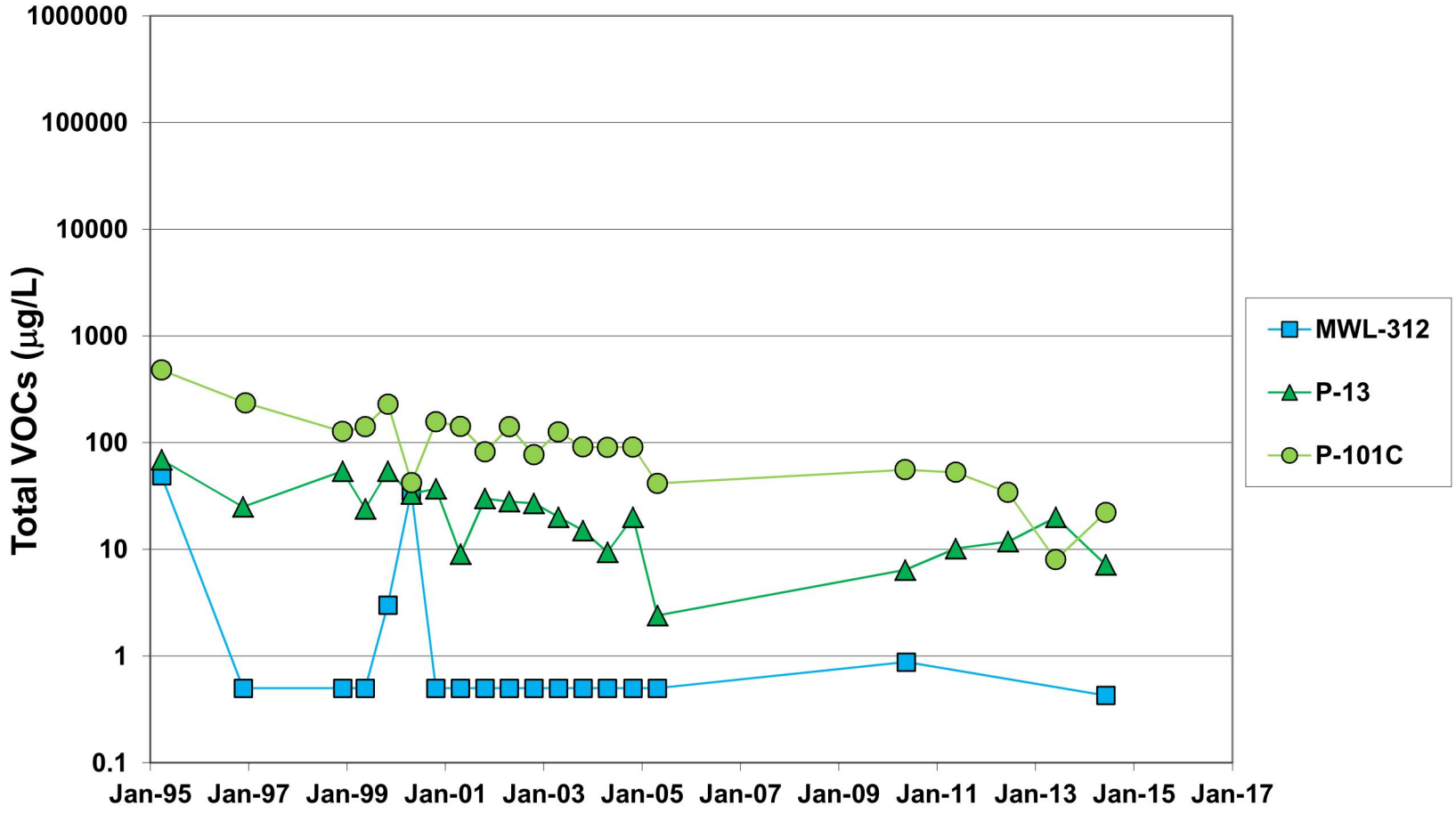
ARCADIS

FIGURE **26**

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM: J. HOLDEN TM/TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACTIVE\00546341000\022000\54634C26.dwg LAYOUT: 26 SAVED: 9/11/2014 2:02 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:02 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----
54634X01

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C27.dwg LAYOUT: 27 SAVED: 9/11/2014 2:09 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:09 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----

Shallow Overburden Wells



SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

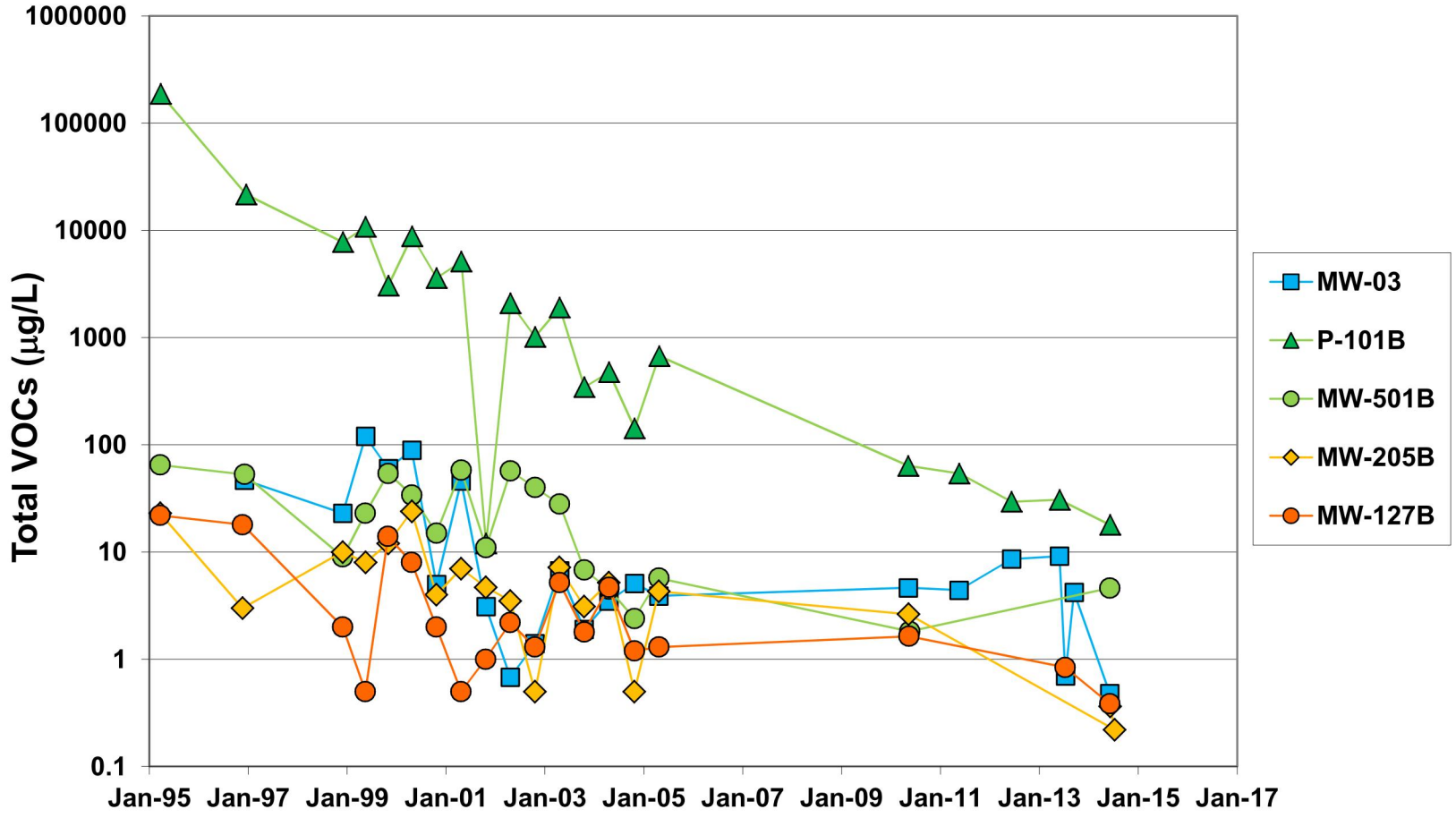
GROUNDWATER TOTAL VOC CONCENTRATIONS WITH TIME SHALLOW OVERBURDEN

ARCADIS

FIGURE
27

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C28.dwg LAYOUT: 28 SAVED: 9/11/2014 2:09 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:09 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----

Middle Overburden Wells



SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

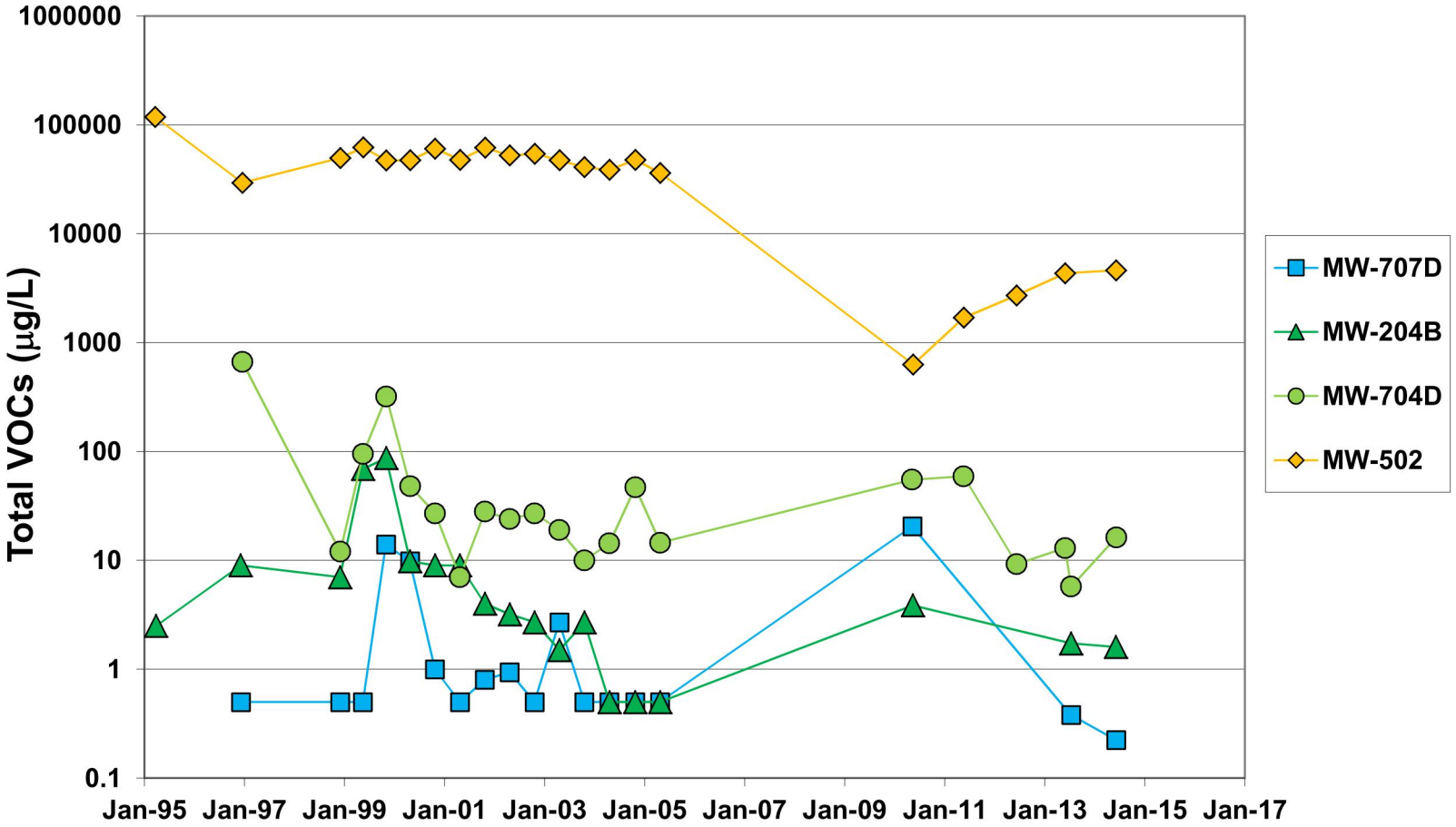
GROUNDWATER TOTAL VOC CONCENTRATIONS WITH TIME MIDDLE OVERBURDEN

ARCADIS

FIGURE
28

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C29.dwg LAYOUT: 29 SAVED: 8/19/2014 10:07 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:08 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----

Deep Overburden Wells



SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

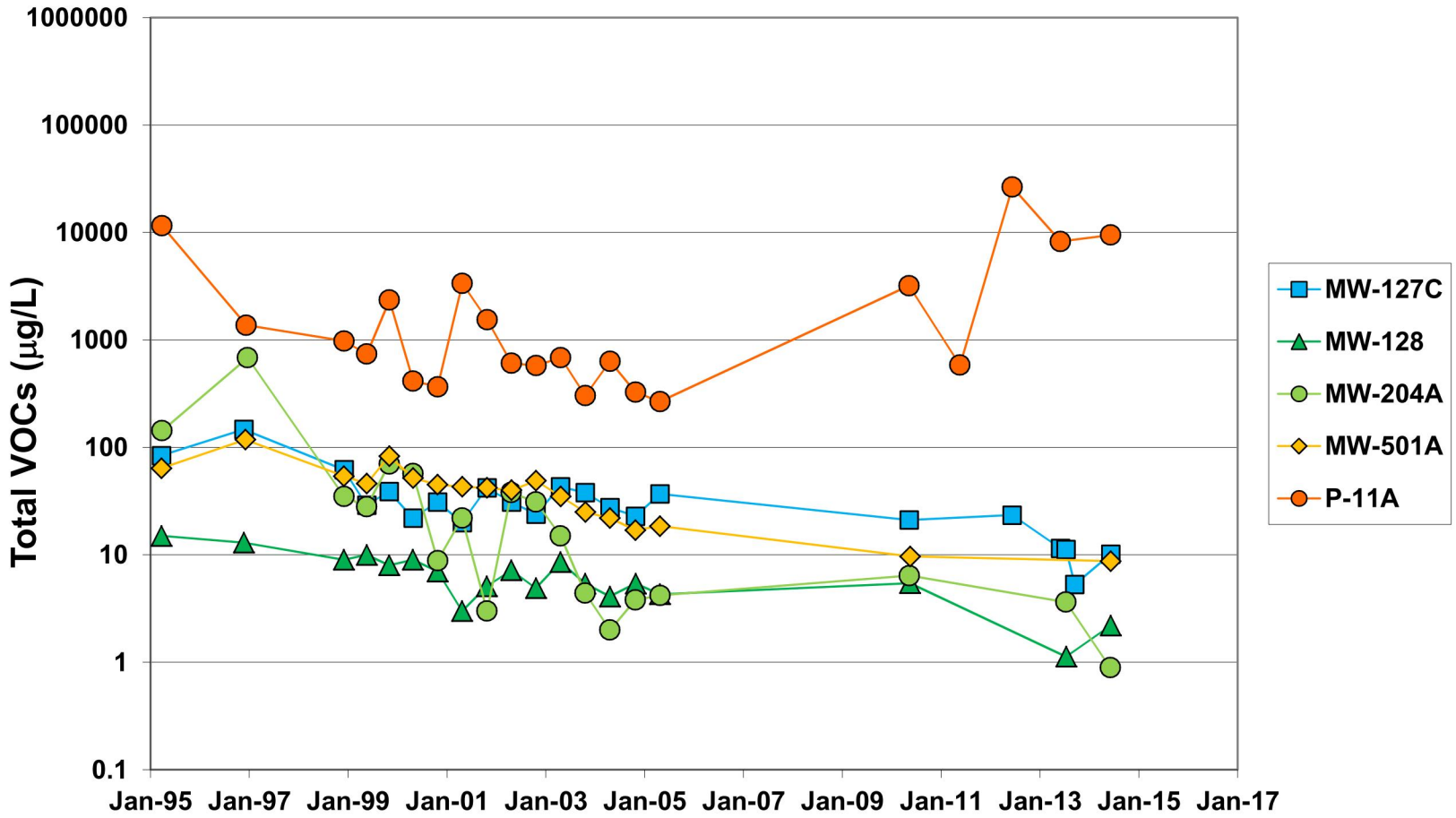
GROUNDWATER TOTAL VOC CONCENTRATIONS WITH TIME DEEP OVERBURDEN

ARCADIS

FIGURE
29

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C30.dwg LAYOUT: 30 SAVED: 8/19/2014 10:09 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:10 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----

Shallow Bedrock Wells



SRSNE SUPERFUND SITE
SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

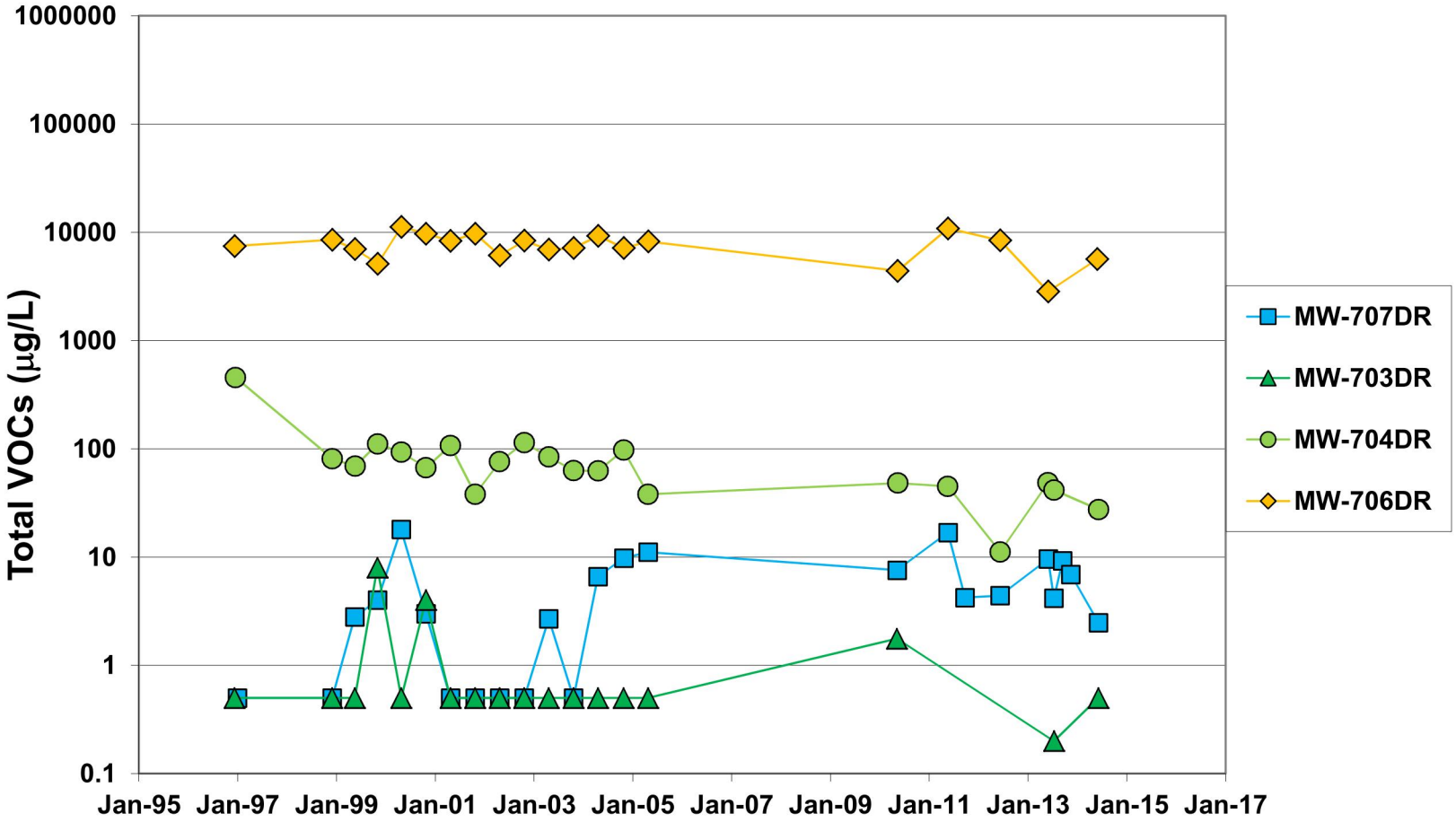
GROUNDWATER TOTAL VOC CONCENTRATIONS WITH TIME SHALLOW BEDROCK

ARCADIS

FIGURE
30

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C31.dwg LAYOUT: 31 SAVED: 9/11/2014 4:21 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 4:21 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----

Deep Bedrock Wells



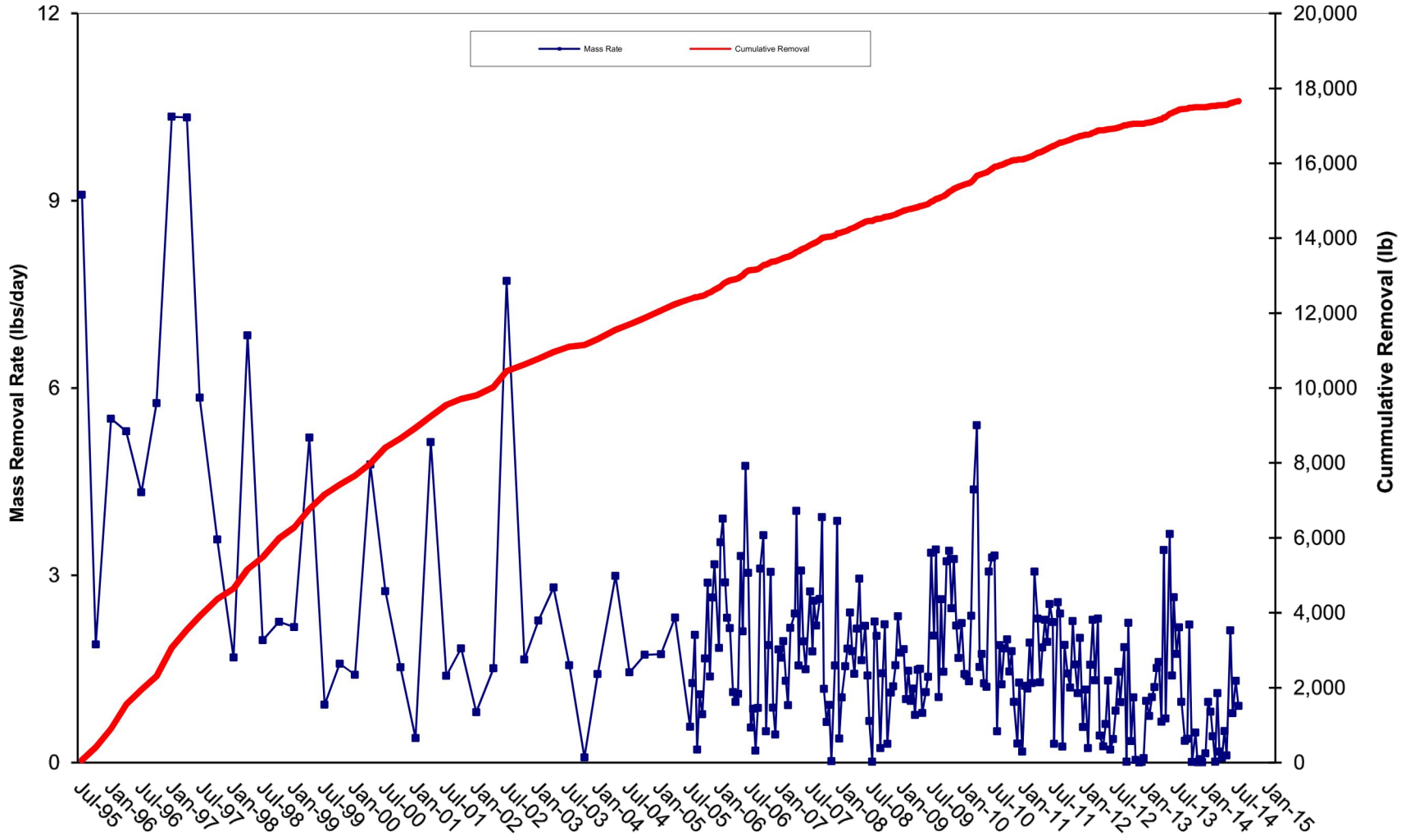
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SOUTHINGTON, CONNECTICUT
MONITORED NATURAL ATTENUATION REPORT

GROUNDWATER TOTAL VOC CONCENTRATIONS WITH TIME DEEP BEDROCK

ARCADIS

FIGURE
31

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C32.dwg LAYOUT: 32 SAVED: 8/20/2014 2:55 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:12 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----



SAMPLE DATE

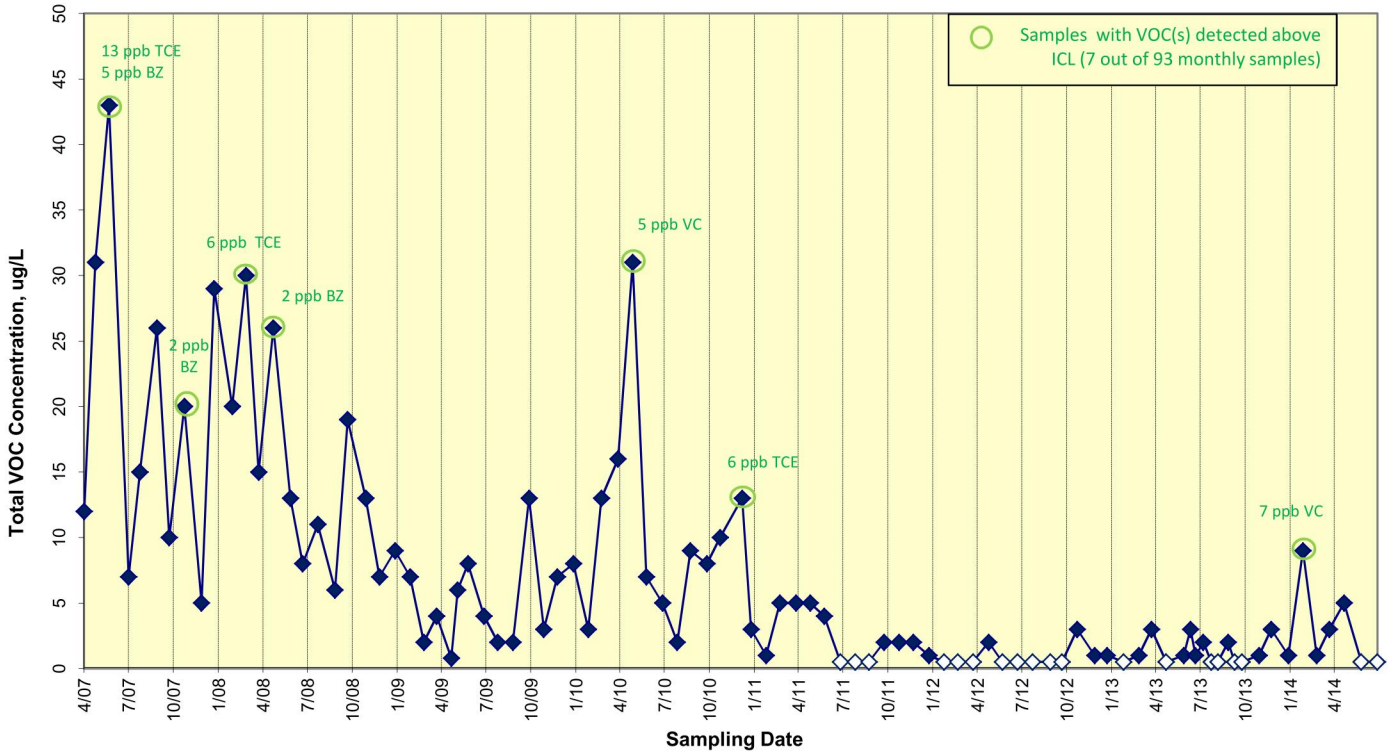
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MONITORED NATURAL ATTENUATION REPORT

TOTAL MASS OF VOCs REMOVED BY NTCRA 1 AND NTCRA 2 GROUNDWATER EXTRACTION WELLS

ARCADIS

FIGURE
32

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER PM: M. GEFELL TM: M. GEFELL TR: R. STEVENSON LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\Manchester\ACT\B0054634\0000\02200\54634C33.dwg LAYOUT: 33 SAVED: 9/11/2014 2:14 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/11/2014 2:14 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ----



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 4.03E-14

Results of Sen's Estimator of Slope: **DECREASING TREND**

Median Slope Estimate = -4.6E-03 ppb/day

95% Confidence Interval = -5.9E-03 to -3.3E-03 ppb/day

Notes:

p value < 0.05 indicates a statistically significant trend (95% confidence level).

open symbols indicate no detection of VOCs

ppb - micrograms/liter

BZ - benzene, VC - vinyl chloride, TCE - trichloroethene

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MONITORED NATURAL ATTENUATION REPORT

NTCRA 2 TOTAL VOC CONCENTRATION VS. TIME

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FIGURE
33

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Appendices

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Appendix A

Field Sampling Forms

CPZ-10

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS NE
Well Number CPZ-10 Date 6/9/2014
Field Personnel RGJ
Sampling Organization HazCADS
Identify MP TOD of inner PVC casing

Depth to 6.09 (9) / 19.1 (9.1) of screen (below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~16 ft bgs, ~15 ft BMP
Purging Device; (pump type) bladder / QED / ~250psi N2 tank
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1220	6.09	3CPM	75ml/min	–	13.01	382	7.19	203.6	5.52	81.6	
1225	6.10	3CPM	60ml/min	–	13.34	376	7.17	214.9	5.28	79.2	
1230	6.10	↓	60ml/min		13.86	376	7.19	215.3	5.26	73.4	
1235	6.11	↓	60 ↓	–	14.56	377	7.20	216.0	5.27	62.1	(sm came out)
1240	6.11	3CPM	60	–	13.97	377	7.20	217.7	5.26	53.7	
1245	6.12	3 ↓	60	–	13.53	378	7.20	219.8	5.29	44.9	
1250	6.12	4	60	–	13.88	378	7.20	220.2	5.23	29.4	
1255	6.12	↓	60 ↓	–	13.84	378	7.21	221.0	5.23	26.2	
1300	6.12	4CPM	60 ml/min	~1.5gal	13.87	378	7.20	221.8	5.20	24.2	
1305				—	SAMPLE COLLECTED				—		
Stabilization Criteria					3% ✓	3% ✓	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.09
Depth to Bottom: 19.1

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-03 Date 6-9-14
Field Personnel Dane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 52.5 / 82.5 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) ~65 bgs
Purging Device; (pump type) Micro purge Bladder pump
Total Volume Purged Approx 5L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1115	6.77	140/60 PSI	70		14.35	125	7.35	-63.6	2.19	1.56	7 GPM
1120	6.77	140/60	70		14.07	124	7.57	-35.2	1.24	4.44	
1125	6.77	140/60	70	~ 1	14.22	125	7.67	14.4	0.85	5.00	
1130	6.77	140/60	70		13.90	125	7.70	13.89	0.95	5.72	
1135	6.77	140/60	70		13.64	125	7.69	70.1	0.97	4.78	
1140	6.77	140/60	70	~ 2	13.70	125	7.67	82.4	0.95	3.71	
1145	6.77	140/60	70		13.58	125	7.71	95.0	0.96	4.46	
1150	6.77	140/60	70		13.46	125	7.70	101.7	0.91	4.12	
1155	6.77	140/60	70	~ 3	13.54	125	7.71	108.4	0.90	3.88	
1200	6.77	140/60	70		13.34	125	7.71	113.4	0.86	2.24	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.75
Depth to Bottom: 80.50

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-03 Date 6-9-2014
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 52.5 / 82.5 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~65 bgs
Purging Device; (pump type) micro purge bladder pump
Total Volume Purged Approx 5L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1205	6.77	140/60 psi	70		13.58	125	7.71	116.9	0.85	2.66	7 CPM
1210	6.77	140/60 psi	70	~4	13.16	125	7.72	122.5	0.86	2.20	
1215	6.77	140/60 psi	70		13.78	125	7.72	127.4	0.87	1.73	
1220	6.77	140/60	70		13.47	125	7.73	128.8	0.86	1.69	
1225	6.77	140/60	70	~5	13.49	125	7.73	132.3	0.85	1.62	
1230	SAMPLED										12:30
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.75
Depth to Bottom: 80.50

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 204A Date 6/2/14
Field Personnel MATT GRUBB
Sampling Organization GTM
Identify MP

Depth to 89 / 114 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 102
Purging Device; (pump type) BLADDER PUMP
Total Volume Purged 11.7 L
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
12:00	4.03	CPM4 10.5	100	~~3500~~	12.61	8	6.56	10.3	3.98	15.8	
12:05	4.05	CPM4 ~~10.5~~ 9.6	140	~~1300~~	11.95	7	7.46	58.0	8.21	19.6	
12:10	4.05	" "	140	1700 ~~3500~~	11.83	7	7.63	73.2	8.24	17.4	
12:15	4.05	" "	140	2600 ~~5300~~	11.91	7	7.67	51.5	7.84	15.8	
12:20	4.05	" "	140	3300	11.89	7	7.68	21.4	7.47	13.5	
12:25	4.05	" "	140	4000	11.91	7	7.69	5.6	7.34	14.4	
12:30	4.05	" "	140	4700	11.89	7	7.71	-3.9	7.35	11.5	
12:35	4.05	" "	140	5400	11.92	7	7.73	-8.4	7.45	11.5	
12:40	4.05	" "	140	6100	11.79	7	7.75	-10.6	7.58	12.08	
12:45	4.05	" "	140	6800	11.78	7	7.77	-11.3	7.60	11.88	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.0
Depth to Bottom: 115.65

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 204A Date 6/19/14
Field Personnel MATT CRUSS
Sampling Organization OTM
Identify MP

Depth to 89/114 of screen
(below MP) top bottom PID:
Pump Intake at (ft. below MP) 102
Purging Device; (pump type) BLADDER PUMP
Total Volume Purged 11.7L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
12:50	4.05	cpm 4 2.6	140	7,500	11.77	7	7.80	-11.1	7.75	10.74	
12:55	4.05	" "	140	8,200	11.81	7	7.81	-12.0	7.82	9.52	
13:00	4.05	" "	140	8900	11.82	7	7.82	-11.4	7.88	10.17	
13:05	4.05	" "	140	9600	11.84	7	7.84	-10.3	7.95	8.55	
13:10	4.05	" "	140	10,300	11.84	7	7.85	-9.0	8.02	8.05	
13:15	4.05	" "	140	11,000	11.82	7	7.86	-6.8	8.04	7.10	
13:20	4.05	" "	140	[redacted] 11,700	11.82	7	7.87	-5.8	8.05	8.10	SAMPLE TIME - 13:20
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.0
Depth to Bottom: 115.65

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 2046 Date 6/9/14
Field Personnel Pete Burden
Sampling Organization cdm inc
Identify MP

Depth to 68 / 78 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 73
Purging Device; (pump type) Bladder
Total Volume Purged 5.5
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ mL	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1200	4.27	cpm 4 10-5	100	500	12.98	81	6.62	87.3	7.81	18.9	
1205	4.27	"	100	1000	12.35	77	7.31	99.8	7.32	~~30.9~~ 20.9	
1210	4.27	"	100	1500	12.23	77	7.53	112.7	7.15	18.5	
1215	4.27	"	100	2000	12.22	77	7.60	126.9	6.96	13.6	
1220	4.27	"	100	2500	12.26	77	7.67	133.5	6.80	12.3	
1225	4.27	"	100	3000	12.15	76	7.73	138.4	6.68	8.91	
1230	4.27	"	100	3500	12.21	76	7.75	144.0	6.47	7.43	
1235	4.27	"	100	4000	12.22	76	7.77	148.3	6.39	5.84	
1240	4.27	"	100	4500	11.97	76	7.79	152.3	6.10	4.68	
1245	4.27	"	100	5000	12.05	76	7.80	156.7	6.00	4.44	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.89
Depth to Bottom: 79.98

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 2043 Date 6/9/14
Field Personnel Pete Burton
Sampling Organization ORNL
Identify MP

Depth to 68 / 78 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 73
Purging Device; (pump type) Bladder
Total Volume Purged 55

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1250				5.5	11.99	76	7.81	158.5	5.93	4.32	Sample 1255
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: _____

Depth to Bottom: _____

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number [illegible] 701DR Date 6-9-2014
Field Personnel [illegible] / Shaun Hutchins
Sampling Organization
Identify MP

Depth to 93.3 / 107.8 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 100
Purging Device; (pump type)
Total Volume Purged

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1245	16.7										
1410	16.4	125			15.31	6	6.25	168.5	7.68	9.49	
1415	16.4	125			14.86	6	6.49	153.4	6.53	6.66	
1420	16.6	125			14.69	5	5.65	174.2	6.43	4.96	
1425	16.6	125			14.52	5	6.40	188.0	4.89	5.47	
1430	16.7	125			14.38	5	6.37	201.0	4.44	5.92	
1435	16.7	125			14.35	6	6.52	197.0	4.03	10.74	
1440	16.7	125			14.46	6	6.69	196.9	4.36	12.1	
1445	16.8	125			14.10	6	7.02	189.0	4.59	12.3	
1450		125			11.38	6	7.06	201.1	4.83	12.7	Sample Time 1500
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example, hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25° C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 16.7
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW-701 DR Date 6-9-2014
Field Personnel B. Morris / SEAN Hutchins
Sampling Organization Ocm
Identify MP

Depth to 93.3 / 107.8 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 100
Purging Device; (pump type) micro QED
Total Volume Purged

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1535	17.0				11.65	7	7.77	141.8	4.70	14.0	
1540	17.1				11.65	8	7.72	149.6	4.32	13.4	
1545	17.1				11.58	8	7.79	159.0	4.07	10.32	
1550	16.9				12.21	8	7.80	161.9	4.02	7.77	
1555	16.9				12.41	8	7.81	163.9	4.05	8.13	
1600	16.9				12.40	8	7.82	165.0	4.06	8.10	
											Sample Time 1610
Note: Purging restarted due to initial sampling prior to stabilized parameters											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 16.7
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-703D Date
Field Personnel D. Garrigan / C Fuerst
Sampling Organization O'Brien, Inc
Identify MP Top of Case (TOC) Marked

Depth to 74' / 84' of screen (below MP) top bottom
Pump Intake at (ft. below MP) 82'
Purging Device; (pump type) Bladder
Total Volume Purged 2.5 gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1415	8.30		100	—	—	—	—	—	—	Initial	2 CAMC & 3 vols @ 60 PSI
1420	8.32		100	500	10.66	12.0	6.35	66.8	4.93	19.0	" " "
1425	8.32		100	1000	10.59	12.0	6.49	66.7	6.92	35.8	
1430	8.4'		100	1500	10.66	13.0	6.50	54.6	8.42	25.7 → 25.7	
1435	8.32		100	2000	10.81	13	6.49	65.5	8.42	22.9	
1440	8.31		100	2500	10.68	13	6.49	69.6	8.55	28.3	
1445	8.35		100	3000	10.76	13	6.50	73.3	8.62	22.7	
1450	8.36		100	3500	10.56	13	6.51	76.5	8.50	25.9	
1455	8.32		100	4000	10.60	13	6.51	78.1	8.51	28.4	
1500	8.32		100	4500	10.50	13	6.50	51.2	8.52	27.2	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.30 BTOC
Depth to Bottom: _____
Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-703D Date
Field Personnel D Garrigan / C Faerst
Sampling Organization O+M Jnc
Identify MP TOC

Depth to 74' / 84' of screen (below MP) top bottom
Pump Intake at (ft. below MP) 82'
Purging Device; (pump type) Bladder
Total Volume Purged 2.5 gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1505 ~~15:05~~	8.32		100	5000	10.53	13	6.51	66.0	8.48	28.3	
1510 ~~15:10~~	8.35		100	5500	10.52	13	6.51	74.8	8.52	8.35	
1515 ~~15:15~~	8.36		100	6000	10.66	13	6.51	78.3	8.49	21.9	
1520 ~~15:20~~	8.36		100	6500	10.66	13	6.51	81.5	8.54	21.4	
	1525-	Collected Sample			MW-703D from well 06092014						MW-703D.
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.30' BTOC
Depth to Bottom: _____

Comments: Good well. Makes good water

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSLE
Well Number MW705D Date 6/9/2014
Field Personnel AMG
Sampling Organization ARCADIS
Identify MP Top of inner PVC casing

Depth to 25 / 35 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) ~32 (30 bgs)
Purging Device; (pump type) bladder (QED)
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1440	4.61	4CPM	150ml/min	–	12.70	336	6.38	247.3	1.33	>	Turbid, light red brown
1445	4.61	↓	150ml/min	–	12.55	352	6.44	250.0	0.36	>	Turbid, over range cms (-0.43)
1450	4.50	↓	75ml/min	–	12.56	352	6.44	251.6	0.34	>	
1455	4.50	↓	75ml/min	–	12.57	353	6.43	252.2	0.36	>	↓
1500	4.45	↓	↓	–	13.01	352	6.43	251.9	0.32	>	↓
1505	4.45	↓	↓	–	13.07	352	6.43	251.8	0.33	>	↓
1510		↓	↓	–	13.32	355	6.43	252.1	0.56	>	↓
1515		2CPM	↓	–	13.14	350	6.41	250.8	0.42	>	↓
1520		↓	↓	–	12.63	349	6.41	253.6	0.36	>	↓
1525		↓	↓	~2gal	12.46	348	6.40	254.1	0.21	>	↓
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.81
Depth to Bottom:

Comments: very turbid, reddish brown milky color.

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS ME
Well Number MW 705D Date 6/9/2014
Field Personnel AMG
Sampling Organization ARCADIS
Identify MP top of in casing (pvc)

Depth to 25 / 35 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) ~32 (~30' bgs)
Purging Device; (pump type) bladder/QED
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1530	4.45	2CPM	75 ml/min	–	12.55	344	6.38	254.4	0.18	>	very turbid. reddish/brown, opaque
1535	4.45	3CPM		–	12.64	343	6.37	254.3	0.36	>	reads as either -0.4 or 0 "over range"?
1540	4.45	↓		–	12.84	340	6.37	254.1	0.42	>	
1545	4.45			–	12.98	341	6.38	259.4	0.36	>	
1550	4.45			–	13.03	342	6.38	264.1	0.16	>	
1555	4.45			–	13.09	341	6.38	263.1	0.15	>	
1600	4.45			–	13.16	340	6.39	258.3	0.12	>	
1605	4.45			–	13.24	339	6.36	253.6	0.11	>	
1610	4.45	↓	↓	–	13.91	340	6.37	255.4	0.12	>	
1615	4.45	CPM	75	~4gal	13.45	341	6.38	256.8	0.12	>	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.81
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SESLE
Well Number MW 705D Date 6/9/2024
Field Personnel AMB
Sampling Organization ARCADIS
Identify MP top of inner casing

Depth to 25 / 35 of screen (below MP) top bottom
Pump Intake at (ft. below MP) ~32 (30)
Purging Device; (pump type) bladder
Total Volume Purged _____
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1630	4.45	20PM	75ml/m	–	13.00	342	6.38	257.7	0.14	>	
1635	4.45	↓	↓	–	12.91	340	6.37	256.8	0.14	↙	3669 mV
1630	4.45	↓	↓	–	12.84	336	6.36	256.1	0.14	355 mV	everything stable
1635	4.45	↓	↓	–	12.62	333	6.34	254.4	0.14	316 mV	except turbidity.
1640	4.45	↓	↓	–	12.62	333	6.33	254.0	0.14	–	checking in w/ Mike, others
1645	4.45	↓	↓	–	12.60	331	6.32	254.1	0.14	–	
1650	4.45	20PM	↓	–	12.62	330	6.31	253.1	0.15	359 mV	
1655	4.45	↓	↓	–	12.72	330	6.34	254.3	0.15	246 mV	
1700	4.45	↓	↓	–	12.74	329	6.36	256.6	0.15	191 mV	
1705	4.45	↓	↓	6gal	12.76	329	6.37	256.8	0.15	–	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.81
Depth to Bottom: _____

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW 705D Date 6/19/2014
Field Personnel AMG
Sampling Organization ARCADIS
Identify MP BTOC

Depth to 25 / 35 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~32 (30)
Purging Device; (pump type) bladder
Total Volume Purged —

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1710	4.45	2CPM	75ml/min	—	12.89	329	6.34	257.6	0.15	—	
1715	4.45	2CPM	↓	—	13.36	326	6.35	253.8	0.15	1826 AV	
1720	4.45	L	↓	—	13.29	329	6.34	250.5	0.08	1818 AV	
1725	4.45	2CPM	75ml/min	—	13.26	330	6.34	250.4	0.16	2045 AV	yes, went up
1730	4.45	↓	↓	—	13.15	332	6.34	250.1	0.24	1890 AV	
1735	4.45	2CPM	75ml/min	—	13.18	332	6.34	249.8	0.18	—	
1740	4.45	↓	↓	—	13.34	330	6.34	248.9	0.18	1863 AV	
1745	4.45	2CPM	75ml/min	—	13.29	333	6.35	247.6	0.07	1772 AV	
1750	4.45	↓	↓	—	13.13	333	6.35	246.8	0.10	1998 AV	
1755	4.45	↓	↓	8 gall	13.19	333	6.35	246.3	0.08	2016 AV	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.81
Depth to Bottom: _____

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SPSMT
Well Number MW 7050 Date 6/9/2014
Field Personnel MW
Sampling Organization ARCADIS
Identify MP BTC

Depth to 25 / 35 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~32' bmp (30' bgs)
Purging Device; (pump type) bladder
Total Volume Purged ~10 gal

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1800	4.45	20%	75	—	13.06	333	6.35	215.3	0.09	2056 NU	sampled after confirming
1805	4.45	↓	↓	—	12.83	333	6.35	214.6	0.10	2035 NU	w/in +/- 10% of high
1810	4.45	↓	↓	10 gal	12.95	324	6.36	213.2	0.10	2007 NU	turbidity -
1815	—	SAMPLE		COLLECTED	—						
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.81
Depth to Bottom: _____

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number P-12 Date 6-9-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC.

Depth to 5 / 14 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~10.5
Purging Device; (pump type) Bladder Pump
Total Volume Purged ~5 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1440	6.90	25/10 PSI	150		13.76	153	6.46	205.7	1.35	2953	Purged 1-2L of muddy water before readings 3 CPM
1445	6.96	25/10 PSI	150	1.5	13.47	151	6.43	207.9	1.02	3693	(Muddy Purge H2O)
1450	6.98	25/10	150		13.25	151	6.43	209.1	0.95	overrange	Emptied Cell to Clear
1455	6.96	25/10	150	3	13.17	150	6.42	210.9	0.91	"	Still muddy.
1500	6.96	25/10	150		13.01	149	6.43	212.6	0.94	"	
1505	6.95	25/10	150	4.5	12.98	148	6.42	214.3	0.98	"	
1510	6.96	25/10	150		13.22	147	6.41	215.7	0.93	"	
1515	6.96	25/10	150	6	13.14	146	6.41	219.1	0.92	3823	
1520	6.94	25/10	150		13.41	144	6.40	221.0	0.83	3777	
1525	6.95	25/10	150	7.5	13.60	144	6.40	221.2	0.81	3640	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.81
Depth to Bottom: 16.18

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number P-12 Date 6-9-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 5 / 14 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~10.5
Purging Device; (pump type) Bladder Pump
Total Volume Purged 5 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1530	6.95	25/10	100	~ 8	13.63	143	6.40	225.0	0.69	2165	2 GPM
1535	6.96	25/10	100		14.02	146	6.40	235.0	0.96	1567	
1540	6.95	25/10	90	~ 9	13.58	145	6.40	229.8	0.83	1433	
1545	6.93	25/10	90		13.59	145	6.38	227.4	0.89	1056	
1550	6.93	25/10	90	~ 10	13.80	145	6.39	223.5	0.80	822	
1555	6.92	25/10	90		13.76	144	6.38	223.7	0.79	651	
1600	6.91	25/10	90	~ 11	13.84	144	6.38	223.7	0.77	620	
1605	6.90	25/10	90		13.72	144	6.38	224.4	0.77	225	
1610	6.90	25/10	90	12	13.93	143	6.38	224.8	0.76	137	
1615	6.90	25/10	90		13.78	143	6.38	225.4	0.76	126	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.81
Depth to Bottom: 16.18

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number P-12 Date 6-9-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 5 / 14 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~10.5
Purging Device; (pump type) Bladder Pump
Total Volume Purged ~ 3 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1530 (1620)	6.90	25/10	90	~13	13.44	143	6.38	225.8	0.76	81.1	2CPM
1625	6.90	25/10	90		13.84	143	6.38	225.4	0.76	94.5	
1630	6.90	25/10	90	~14	13.71	143	6.38	225.6	0.77	83.2	
1635	6.90	25/10	90		13.81	142	6.38	225.3	0.75	51.9	
1640	6.90	25/10	90	~15	13.78	142	6.38	225.7	0.75	63.7	
1645	6.90	25/10	90		13.72	142	6.38	226.1	0.74	47.8	
1650	6.90	25/10 (25)	90	~16	13.72	141	6.38	226.6	0.77	49.3	
1655	6.90	25/10	90		13.77	141	6.38	226.4	0.75	48.9	
1700	SAMPLED										1700
1705											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.81
Depth to Bottom: 16.18

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1003R Date 6-10-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 121 / 106 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~ 114
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2-2¼ Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0855	8.26	150/70	150		14.40	749	7.44	-194.9	2.18	7.69	CPMS
0900	8.51	150/70	150	1.5	13.79	835	8.87	-318.7	0.59	34.5	
0905	8.95	140/70	100	2	13.78	854	9.21	-361.6	0.40	26.5	CPM4
0910	10.07	140/70	100		14.55	850	9.25	-371.6	0.34	20.3	CPM 3
0915	10.88*	120/50	50		14.21	665	9.36	-383.16	0.30	16.8	CPM 3
0920	11.40	120/50	60		16.76	689	9.42	-411.3	0.33	14.1	↓
0925	12.06	120/50	60		16.84	682	9.47	-406.9	0.31	17.8	
0930	12.44	120/50	60		16.69	673	9.49	-417.2	0.32	13.09	
0935	12.63	120/50	60		16.76	664	9.49	-426.0	0.34	11.74	
0940	12.89	120/50	70	4	16.80	662	9.50	-432.5	0.34	11.64	↓
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

* Any lower rate, flow stops * w/ dropping*

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.22
Depth to Bottom: 121

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1003R Date 6-10-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 106 / 121 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~ 114
Purging Device; (pump type) Bladder Pump
Total Volume Purged ~2 Gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0945	13.38	120/50	70		16.86	648 748	9.56	-468.4	0.31	13.2	3 CPM
0950	13.91	120/50	70		17.04	636	9.52	-494.7	0.27	12.13	
0955	14.11	120/50	70		17.19	631	9.52	-501.6	0.27	10.33	
1000	14.60	120/50	70		17.51	625	9.54	-502.0	0.24	10.92	
1005	14.95	120/50	70		17.24	616	9.55	-518.2	0.25	12.48	
1010	15.51	120/50	70		16.92	601	9.60	-509.7	0.22	9.52	
1015	15.90	120/50	70		16.57	590	9.63	-565.9	0.20	11.28	
1020	16.33	120/50	70		16.72	586	9.66	-579.9	0.19	9.26	
1025	16.60	120/50	70		16.74	584	9.69	-595.4	0.19	10.74	
1030	17.31	120/50	70	8	16.81	582	9.71	-591.0	0.18	9.39	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.22
Depth to Bottom: 121

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1003R Date 6-10-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 106 / 121 of screen
(below MP) top bottom
PID: 6.0
Pump Intake at (ft. below MP) ~ 114
Purging Device; (pump type) Bladder Pump
Total Volume Purged ~ 2 Gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1035	17.66	120/50	70		16.81	577	9.76	-616.3	0.17	12.36	3 CPM
1040	18.00	120/50	70		16.84	579	9.77	-629.9	0.14	11.21	
1045	18.41	120/50	70		16.92	578	9.78	-636.2	0.18	10.55	
1050	18.88	120/50	70		17.17	574	9.82	641.0	0.13	8.79	
1055	19.29	120/50	70		17.33	576	9.85	-639.2	0.14	8.50	
1100	19.71	120/50	70		17.19	570	9.90	-642.0	0.13	9.93	
1105	20.02	120/50	70		17.13	567	10.00	-639.7	0.14	10.03	
1110	20.27	120/50	70		17.30	566	10.09	-642.6	0.14	9.73	
1115	20.90	120/50	70		17.51	568	10.16	-645.0	0.13	9.64	
1120	21.41	120/50	70	~ 9	17.52	568	10.27	-653.3	0.14	9.50	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.22
Depth to Bottom: 121

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1003R Date 6-10-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 106 / 121 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 114
Purging Device; (pump type) Bladder
Total Volume Purged 2¼ - 2 Gallons

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1125	21.77	120|50	70		17.38	565	10.37	-667.3	0.13	8.97	3 GPM
1130	22.50	120|50	70		16.86	561	10.51	-652.6	0.14	9.03	
1135	~~23.45~~	120|50	70		16.87	561	10.59	-643.8	0.13	9.24	
1140	23.45	120|50	70		17.31	567	10.61	-645.7	0.14	7.81	
1145	23.91	120|50	70		18.43	578	10.66	-612.7	0.15	7.40	* sun after Cloudy all morning
1150	24.24	120|50	70		18.48	575	10.616	-613.3	0.15	7.71	Causes temp increase.
1155	S	A	M	P L	E D						
1200											
1205											
1210											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.22
Depth to Bottom: 121

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW126B Date 6/10/14
Field Personnel Pete Burton
Sampling Organization O&M Inc
Identify MP

Depth to 7.5 / 12.5 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 10
Purging Device; (pump type) Bladder
Total Volume Purged 9.0
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1] 12.5/25	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
~~1455~~	2.95	~~12.5/25~~	150	750	15.17	25	6.38	104.0	1.65	0.88	
1500	2.95	12.5/25	150	~~1500~~ 1500	14.63	25	6.36	105.0	1.22	0.72	
1505	2.95	12.5/25	150	~~2250~~ 2250	14.28	26	6.35	105.8	0.98	0.40	
1510	2.95	12.5/25	150	~~3000~~ 3000	13.95	26	6.35	106.0	0.93	0.18	
1515	2.95	12.5/25	150	~~3750~~ 3750	14.19	26	6.34	106.2	0.78	0.28	
1520	2.95	12.5/25	150	~~4500~~ 4500	14.07	26	6.34	104.9	0.72	1.68	
1525	2.95	12.5/25	150	5250	13.98	26	6.34	103.5	0.69	2.85	
1530	2.95	12.5/25	150	6000	13.42	26	6.33	101.3	0.64	0.20	
1535	2.95	12.5/25	150	6750	13.51	26	6.34	98.4	0.62	0.16	
1540	2.95	12.5/25	150	7500	13.64	26	6.34	95.5	0.61	0.06	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 2.95
Depth to Bottom: 12.2

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW126B Date 6/16/14
Field Personnel Pete Burton
Sampling Organization O'sM Inc.
Identify MP

Depth to 7.5/12.5 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 10
Purging Device; (pump type) Bladder
Total Volume Purged

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1545	2.95	150	8250	12.5/25	13.33	26	6.31	92.5	0.60	0.12	
1550	2.96	150	9000	12.5/25	13.45	26	6.34	90.5	0.58	0.08	Sampled
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water:

Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW-126C Date 6/10/14
Field Personnel MATT GRUBB
Sampling Organization ORM
Identify MP

Depth to 24 / 34 of screen
(below MP) top bottom
PID: ——
Pump Intake at (ft. below MP) 29
Purging Device; (pump type) BLADDER PUMP
Total Volume Purged 7.0 L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
14:55	1.53	RPM 4 10.5	200	1000	13.90	32	6.61	140.7	6.89	5.95	
15:00	1.55		200	2000	13.69	32	6.60	148.0	6.63	6.32	
15:05	1.55		200	3000	13.61	32	6.60	153.9	6.71	5.89	
15:10	↓		↓	4000	13.59	32	6.60	157.9	6.67	4.21	
15:15				5000	13.57	32	6.60	161.0	6.67	3.64	
15:20				6000	13.56	32	6.60	163.2	6.67	3.79	
15:25	↓	↓	↓	7000	13.21	32	6.60	164.8	6.70	3.18	SAMPLE TIME : 15:25
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 1.48
Depth to Bottom: 33.38

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) _____
Well Number MW 209A Date 6/10/2014
Field Personnel Bob Morris, Sean Hutchins
Sampling Organization OEM Inc
Identify MP _____

Depth to 38 / 18 of screen
(below MP) top bottom
PID: 0
Pump Intake at (ft. below MP) 28
Purging Device; (pump type) QED Micro Purge
Total Volume Purged _____

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0815	21.8	CPM6									
0830	21.7				11.08	25	5.60	190.1	7.40	4.99	
0835	21.7				12.72	22	5.94	164.4	7.55	4.80	
0840	21.7				12.92	22	6.01	160.0	7.49	4.79	
0845	21.7				12.82	22	6.05	167.6	7.51	4.81	
											SAMPLE TIME
											0850
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 21.8
Depth to Bottom: _____

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-703DR Date 6-10-14
Field Personnel D. Garrigan
Sampling Organization OPUS, Inc
Identify MP TOC

Depth to 144.3 / 174.3 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) 159'
Purging Device; (pump type) Bladder Pump
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0845	3.14'	*	100	0	—	—	—	—	—	—	Start CAMZ / Discharge 4 secs 65psi
0850	4.18	"	100	500	10.93	31	7.94	6.7	2.62	17.9	
0855	4.40	"	100	1000	12.02	32	8.61	-51.8	1.14	8.37	
0900	4.71	"	100	1500	10.93	31	8.85	-126.3	0.63	6.30	
0905	5.42'	"	100	2000	10.58	31	8.76	-132.6	0.26	4.39	Flow 100/ml/min
0910	6.00'	"	100	2500	10.71	31	8.94	-155.6	0.13	3.20	
0915	6.65'	"	100	3.000	10.79	31	9.13	-178.9	0.32	2.38	
0920	7.12	"	100	3500	10.81	31	9.19	-188.3	0.06	1.99	
0925	7.70	"	100	4000	10.78	31	9.24	-193.1	0.04	3.61	
	0935 - Collected Sample MW-703DR-0610 2014										from well MW-703DR
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.14'
Depth to Bottom:

Comments: Good well. Pump @ 100 mL/min

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number M703S Date 06-10-2014
Field Personnel Christopher J. Fuerst
Sampling Organization G+M Inc
Identify MP TOC

Depth to 25.0 / 35.0 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 33 Ft
Purging Device; (pump type) Bladder Pump
Total Volume Purged
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0845	8.83'		100	0	—	—	—	—	—	—	2 GPM / Discharge 4 / 20 psi
0850	8.83'		100	500	11.86	9	6.50	200.0	8.59	14.5	
0855	8.70'		100	1000	11.93	9	7.21	64.7	7.14	20.0	
0900	8.70'		100	1500	11.93	9	7.41	146.2	6.55	20.1	
0905	8.83'		100	2000	11.62	9	7.53	157.1	6.13	16.3	
0910	8.83'		100	2500	11.98	9	7.60	159.0	5.82	12.9	
0915	8.83'		100	3000	11.95	9	7.66	159.1	5.63	12.0	
0920	8.83'		100	3500	11.97	9	7.70	158.5	5.44	11.5	
0925	8.83'		100	4000	11.86	9	7.75	156.2	5.28	7.99	
0930	8.83'		100	4500	12.11	9	7.78	154.4	5.13	8.24	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.83'
Depth to Bottom: Not Taken

Comments: Good well
Pumped @ 100 mL/min

Pg 2 of 2

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-703S Date 06-10-2014
Field Personnel Christopher Fuery
Sampling Organization Geo iso
Identify MP TOC

Depth to 25.0 / 35.0 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) _____
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5 gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0935	8.83'	100	~~5000~~ 100	5000	11.89	9	7.93	149.7	4.87	6.40	
0940	8.83'		100	5500	12.01	9	7.85	148.0	4.89	6.38	
0945	8.83'		100	6000	12.03	9	7.87	145.5	4.84	6.29	
0950	8.83'		100	6500	12.30	9	7.88	142.1	4.72	6.33	
	100'-	Collected	Sample	MW-703S	-06102014				from	well MW-703S.	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.83'
Depth to Bottom: Not Taken

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 707D Date 6/10/14
Field Personnel MATT GRUBB
Sampling Organization O+M
Identify MP

Depth to 84.9 / 94.9 of screen
(below MP) top bottom
PID: —
Pump Intake at (ft. below MP) 91
Purging Device; (pump type) BLADDER PUMP
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
8:25	8.00	10.5	120	600	11.38	21	7.08	174.4	8.65	11.40	
8:30	↓	↓	↓	1200	11.27	22	7.51	166.5	8.74	9.25	
8:35				1800	11.20	21	7.66	162.1	8.77	11.05	
8:40				2400	11.33	22	7.75	158.1	8.71	10.99	
8:45				3000	11.25	22	7.81	155.6	8.70	12.17	
8:50				3600	11.38	22	7.84	153.9	8.63	14.80	
8:55				4200	11.40	22	7.87	152.4	7.87	15.30	
9:00				4800	11.59	22	7.89	151.6	8.65	14.90	
9:05				5400	11.25	22	7.91	151.3	8.68	11.90	
9:10	↓	↓	↓	6000	11.58	22	7.92	151.0	8.61	12.56	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.95
Depth to Bottom: 96.14

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 7070 Date 6/10/14
Field Personnel MATT GRUBBS
Sampling Organization GTM
Identify MP

Depth to 84.9 / 94.9 of screen (below MP) top bottom
PID: —
Pump Intake at (ft. below MP) 91
Purging Device; (pump type) BLADDER PUMP
Total Volume Purged 8.6 L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
9:15	8.00	CPM4 10.5	120	6600	11.22	22	7.94	150.8	8.66	12.22	
9:20	↓	↓	↓	7200	11.41	22	7.94	150.8	8.58	11.92	
9:25	↓	↓	↓	8000	11.47	22	7.95	150.7	8.61	11.96	
9:30	↓	↓	↓	8600	11.31	22	7.95	150.9	8.60	11.98	SAMPLE TIME: 9:30
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.95
Depth to Bottom: 96.14

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 707R Date 6/10/14
Field Personnel Rob Burton
Sampling Organization O&M Inc
Identify MP

Depth to 115 / 125 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 121
Purging Device; (pump type) Bladder
Total Volume Purged 9.0

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0825	8.94	10-25 cmp4	200	1000	11.68	25	6.11	132.7	6.66	24.7	
0830	8.94	"	200	2000	11.33	30	6.91	131.3	6.42	16.7	
0835	8.94	"	200	3000	11.37	30	7.15	132.6	6.18	9.72	
0840	8.94	"	200	4000	11.16	30	7.27	136.7	6.14	6.74	
0845	8.94	"	200	5000	11.33	30	7.32	141.0	6.16	4.25	
0850	8.94	"	200	6000	11.33	30	7.38	143.8	6.45	4.03	
0855	8.94	"	200	7000	11.35	30	7.47	143.6	6.08	2.74	
0900	8.94	"	200	8000	11.51	29	7.51	145.8	6.13	2.25	
0905	8.94	"	200	9000	11.49	29	7.54	148.0	6.19	2.39	Sampled
											labeled MW-707R-061014
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.98
Depth to Bottom: 125.20

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW-901R Date 6-10-2014
Field Personnel Rob Morris
Sampling Organization Arm
Identify MP

Depth to 25 / 40 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 32
Purging Device; (pump type) QED
Total Volume Purged

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1450	16.1				13.74	21	6.50	203.9	8.22	18.9	
1455	16.1				13.71	20	6.49	205.3	8.21	31.1	
1500	16.1				13.62	20	6.48	205.9	8.00	24.8	
1505	16.2				13.64	20	6.48	205.5	7.53	20.4	
1510	16.2				13.46	20	6.49	205.9	7.67	19.8	
1515	16.2				13.75	20	6.47	204.7	7.41	19.5	
											SAMPLE TIME
											1520
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 16.1
Depth to Bottom: 42.1

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SAS
Location: Southington, CT
Well ID: MW-903M

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 80.54' **Screened Interval (ftbgs):** 70.6'-80.6'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1315
Weather Conditions: Cloudy/Humid/71°F
Depth to groundwater at time of deployment: 25.59'
Total well depth at time of deployment: 82.54'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0
(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.
Deployment Depth (Top of HydraSleeve™) (ftbgs): 75'

Retrieval

Date and Time of Retrieval: Date: 06/10/14 Time: 1535
Total # of days deployed: 1
Weather Conditions: Sunny/Humid/74°F
Depth to groundwater at time of retrieval: 25.58'
Total well depth at time of retrieval: 82.54'
Downhole Field Parameters Upon Retrieval:
Temp: 19.06 (°C) **ORP:** 134.5 (mV) **Water quality meter:** YSI 556/LaMotte 2020we
pH: 8.62 **DO:** 2.56 (mg/L) **Serial #:** 14F100000 (Probe-14C31)/752-1011

Notes/Observations:
Turbidity = 58.8 NTU
Conductivity = 3 ms/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitor	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-903R

Well Type: • Monitoring • Other: _____
Well Finish: • Stick Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify): _____
Total Depth As Constructed (ftbgs): 148.83' **Screened Interval (ftbgs):** 133' - 148'
Well Casing: Diameter: 2" Material: PVC (SCH 80)
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1330
Weather Conditions: Light Rain / 70°F
Depth to groundwater at time of deployment: 25.62'
Total well depth at time of deployment: 150.83'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 140.5'

Retrieval

Date and Time of Retrieval: Date: 06/10/14 Time: 1515
Total # of days deployed: 1
Weather Conditions: Cloudy / Humid / 72°F
Depth to groundwater at time of retrieval: 25.61'
Total well depth at time of retrieval: 150.83'
Downhole Field Parameters Upon Retrieval:
Temp: 19.96 (°C) **ORP:** -17.9 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 10.70 **DO:** 1.79 (mg/L) **Serial #:** 14F100060 (Probe - 14C31) / 752-101(

Notes/Observations:
Turbidity = 47.1 NTU
Conductivity = 23 µs/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Scarthington CT
Well ID: MW-906D

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____
Total Depth As Constructed (ftbgs): 68.49' **Screened Interval (ftbgs):** 58'-68'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1125
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of deployment: 6.75'
Total well depth at time of deployment: 72.49'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 63'

Retrieval

Date and Time of Retrieval: Date: 06/10/14 Time: ~~1445~~ 1420 (AM)
Total # of days deployed: 1
Weather Conditions: Cloudy / Humid / 72°F
Depth to groundwater at time of retrieval: 6.63'
Total well depth at time of retrieval: 72.49'
Downhole Field Parameters Upon Retrieval:
Temp: 18.38 (°C) **ORP:** 47.8 (mV) **Water quality meter:** YSI 556 / La Motte 2020 we
pH: 6.95 **DO:** 3.91 (mg/L) **Serial #:** 14F100660 (probe - 14C31) / 782-1011

Notes/Observations:
DTB - 72.49' Conductivity = 345/cm
Turbidity = 25.6 NTU

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-90SM

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 48.45' **Screened interval (ftbgs):** 38'-48'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 08/09/14 Time: 1145
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of deployment: 2.13'
Total well depth at time of deployment: 52.45'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 43'

Retrieval

Date and Time of Retrieval: Date: 08/10/14 Time: 1440
Total # of days deployed: 1
Weather Conditions: Cloudy / Humid / 72°F
Depth to groundwater at time of retrieval: 2.11'
Total well depth at time of retrieval: 52.45'
Downhole Field Parameters Upon Retrieval:
Temp: 19.25 (°C) **ORP:** 101.9 (mV) **Water quality meter:** YSI 556 / La Motte 2020we
pH: 7.79 **DO:** 6.98 (mg/L) **Serial #:** 14F100060 (Date - 14C3) / 752-1011

Notes/Observations:

Turbidity = 39.0 NTU
Conductivity = 5 µs/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington CT
Well ID: MW-906R

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____
Total Depth As Constructed (ftbgs): 115.48' **Screened Interval (ftbgs):** 98' - 113'
Well Casing: Diameter: 2" Material: Metal
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1105
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of deployment: 6.55'
Total well depth at time of deployment: 119.48'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 107'

Retrieval

Date and Time of Retrieval: Date: 06/10/14 Time: 1355
Total # of days deployed: 1
Weather Conditions: Cloudy / Humid / 72°F
Depth to groundwater at time of retrieval: 6.54'
Total well depth at time of retrieval: 119.48'
Downhole Field Parameters Upon Retrieval:
Temp: ~~18.44~~ (°C) 19.77°C **ORP:** 37.4 (mV) **Water quality meter:** YSI 556 / LaMotte 2020 we
pH: 9.27 **DO:** 1.40 (mg/L) **Serial #:** 14F100060 (Probe - 14C31) / 752-1011

Notes/Observations:

Turbidity: 10.14 NTU
Conductivity: 14 µS/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitor	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-907D

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): PVC / Marker
Total Depth As Constructed (ftbgs): 50 **Screened Interval (ftbgs):** 40
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1115
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 7.32
Total well depth at time of deployment: ~~54.86~~ 54.86
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 48.0'

Retrieval

Date and Time of Retrieval: Date: 6-10-14 Time: 1500
Total # of days deployed: 1
Weather Conditions: 80° Partial Sunshine
Depth to groundwater at time of retrieval: 7.34
Total well depth at time of retrieval: 54.86
Downhole Field Parameters Upon Retrieval: Turb: 25.1 Cond: 69
Temp: 18.69 (°C) **ORP:** -92.3 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.93 **DO:** 0.85 (mg/L) **Serial #:** 14F100062

Notes/Observations:
MS/MSD collected for TOC, DG & AK.

Field Sampling Technician: Name(s) and Company

Name	Company
RM	O&M Inc.
MM	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-907 DR

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): PVC
Total Depth As Constructed (ftbgs): 174.00 **Screened Interval (ftbgs):** 159.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1053
Weather Conditions: 70° Humid, cloudy
Depth to groundwater at time of deployment: 0.0
Total well depth at time of deployment: 174.71
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 166.0

Retrieval

Date and Time of Retrieval: Date: 6-10-14 Time: 13:15
Total # of days deployed: 1
Weather Conditions: 75° Cloudy
Depth to groundwater at time of retrieval: 0.0
Total well depth at time of retrieval: 174.71
Downhole Field Parameters Upon Retrieval: TURB 4.07 Cond 208
Temp: 20.14 (°C) **ORP:** -14.08 (mV) **Water quality meter:** YSI 556 MPS
pH: 8.07 **DO:** 1.83 (mg/L) **Serial #:** 14E 1000112

Notes/Observations:

PID: 6.0 PPM
MS/MSD collected for MNA

Field Sampling Technician: Name(s) and Company

Name	Company
RM	O+M Inc.
MM	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: JRSNE
Location: Southington CT
Well ID: MW-907M

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): Mark on PVC
Total Depth As Constructed (ftbgs): 38.1 **Screened Interval (ftbgs):** 28.1
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1160
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 6.79
Total well depth at time of deployment: 40.12
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 33.0

Retrieval

Date and Time of Retrieval: Date: 6-10-14 Time: 1430
Total # of days deployed: 1
Weather Conditions: 75° Cloudy, Humid
Depth to groundwater at time of retrieval: 6.8
Total well depth at time of retrieval: 40.12
Downhole Field Parameters Upon Retrieval:
Temp: 18.50 (°C) **ORP:** -46.4 (mV) TURB 82 COND. 94 **Water quality meter:** YSI 556 MPS
pH: 6.78 **DO:** 0.93 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 PPM
Collected Duplicate for MNA

Field Sampling Technician: Name(s) and Company

Name	Company
Marcia MacKenzie	ARCADIS
Ryan Malone	ARCADIS

Well appeard to go dry during sampling, rate dropped to ~ 10 ml/m during sampling

Sample time 1545

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW1-303 Date 6-10-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 3 / 13 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~10-12 **
Purging Device; (pump type) Bladder
Total Volume Purged ~1 Gallon

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1455	8.75	20/10	120		20.51	181	6.86	-141.6	0.87	57.7	3 CPM
1500	10.00	20/10	90		22.01	174	6.82	-130.9	0.95	66.7	
1505	10.10	20/10	70 *		22.71	166	6.77	-120.6	0.97	51.6	2 CPM
1510	10.26	20/10	70		23.92	158	6.70	-108.0	0.84	52.0	
1515	10.57	20/10	70		24.63	152	6.68	-102.2	0.59	44.4	
1520	10.80	20/10	70		24.05	148	6.67	-101.8	0.54	32.8	
1525	10.92	20/10	70		23.26	146	6.67	-101.7	0.52	26.3	
1530	11.00	20/10	70		23.38	142	6.63	-97.7	0.53	18.3	
1535	11.13	20/10	70		23.14	141	6.63	-96.7	0.53	18.0	
1540	11.29	20/10	70		23.29	140	6.62	-96.0	0.54	17.8	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

* lowest purge rate

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.23
Depth to Bottom: 12.85

Comments: Well Standpipe full of Ants

** Lowered pump

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MWL-312 Date 6-10-2014
Field Personnel Bob Moore
Sampling Organization Ctm
Identify MP

Depth to 11 / 1 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 10
Purging Device; (pump type)
Total Volume Purged

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0940	7.8				/						
0950	7.6				12.88	3	5.67	213.7	1.91	13.3	
0955	7.5				12.74	2	5.68	214.5	1.62	12.3	
1000	7.5				12.47	2	5.68	218.1	1.50	12.1	
1005	7.5				1249	2	5.67	220.6	1.57	11.8	
											SAMPLE TIME
											1015
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.8
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SLS
Well Number MWL-313 Date 6-10-2014
Field Personnel B.G. Means
Sampling Organization Ecm
Identify MP

Depth to 1 / 11 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 8
Purging Device; (pump type)
Total Volume Purged

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1135	7.1				14.64	9	6.05	198.6	4.04	73.0	
1140	7.1				13.44	9	6.05	202.4	4.22	29.9	
1145	7.1				13.56	9	6.05	196.5	4.24	18.3	
1150	7.1				14.18	9	6.05	201.6	3.62	9.69	
1155	7.0				14.19	9	6.05	202.9	3.65	7.62	
1200	7.0				14.11	9	6.06	205.4	3.48	7.57	
1205	7.0				13.98	9	6.05	206.7	3.51	7.44	
											SAMPLE TIME
											1210
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.1
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number P-102A Date 6/16/14
Field Personnel Pete Bunyun
Sampling Organization Savannah
Identify MP

Depth to 81 / 91 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 87
Purging Device; (pump type) Bladder
Total Volume Purged 5.65

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1105	1.60	12.5/25	40	200	18.64	13	7.21	84.1	5.49	21.7	
1110	1.95	"	40	400	18.49	25	7.38	-68.9	3.69	83	
1115	2.15	"	40	600	18.83	33	7.78	-123.8	2.60	1159	
1120	2.21	13.0/25	10	650	19.39	37	8.08	-150.8	1.91	1297	
1125	2.21	13.0/25	10	700	20.18	38	8.14	-167.1	1.52	1500	
1130	2.21	13.0/25	10	750	20.85	40	8.16	-172.6	1.50	1458	
1135	2.30	12.5/25	40	950	21.62	41	8.18	-177.3	1.52	1775	
1140	2.45	12.5/25	40	1150	21.79	42	8.19	-177.9	1.45	1693	
1145	2.68	12.0/30	50	1400	19.25	40	8.21	-184.0	1.38	2567	
1150		12.0/30	50	1650	—	—	—	—	—	—	Clean Cell
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 0.6
Depth to Bottom: 94.0

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number P-102A Date 6/10/14
Field Personnel Pete Burton
Sampling Organization O&M Inc
Identify MP

Depth to 81 / 91 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 87
Purging Device; (pump type) Bladder
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1155	3.09	12.0/30	50	1900	18.80	39	8.11	-188.6	1.02	2756	
1200	3.33	12.0/30	50	2150	18.66	39	8.08	-197.9	0.67	2630	
1205	3.60	12.0/30	50	2400	18.24	38	8.06	-201.0	0.48	2270	
1210	3.85	12.0/30	50	2650	17.59	37	8.00	-201.8	0.44	1952	
1215	4.10	12.0/30	50	2900	17.71	37	7.94	-202.7	0.39	1602	
1220	4.38	12.0/30	50	3150	17.46	36	7.81	-202.2	0.36	1235	
1225	4.55	12.0/30	50	3400	17.19	35	7.78	-199.7	0.33	1136	
1230	4.80	12.0/30	50	3650	17.20	31	7.61	-190.0	0.31	942	
1235	5.00	12.0/30	50	3900	17.26	27	7.45	-177.6	0.29	732	
1240	5.20	12.0/30	50	4150	17.38	24	7.36	-160.7	0.28	168	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water:
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number P102A Date 6/10/14
Field Personnel Pete Burton
Sampling Organization O&M Bne
Identify MP

Depth to 81 / 91 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 87
Purging Device; (pump type) Bladder
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1245	5.35	12.0/30	50	4400	17.25	22	7.35	-148.0	0.28	94	
1250	5.50	12.0/30	50	4650	16.88	21	7.32	-138.7	0.30	107	
1255	5.70	12.0/30	50	4900	16.58	20	7.30	-131.0	0.28	66	
1300	5.86	12.0/30	50	5150	16.62	20	7.30	-126.7	0.27	46	
1305	6.00	12.0/30	50	5400	16.51	20	7.31	-123.1	0.25	51	
1310	6.14	12.0/30	50	5650	16.53	20	7.30	-120.0	0.24	43	Sampled
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water:
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SPS
Well Number P-102C Date 6/10/2014
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 3 / 13 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 9
Purging Device; (pump type) BLADDER
Total Volume Purged 9.5 L
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
11:00	5.15	cpm4 10,5	300	1500	13.10	32	6.43	38.4	0.71	98.3	
11:05	5.20	cpm4 11.5-3.5	200	2500	12.84	32	6.43	37.6	0.49	38.5	
11:10	5.20	↓	↓	3500	12.87	32	6.44	38.1	0.44	42.0	
11:15	5.20			4500	12.76	31	6.44	38.7	0.52	24.0	
11:20	5.20			5500	12.66	32	6.44	38.1	0.49	18.4	
11:25	↓			6500	12.77	32	6.45	37.7	0.45	11.4	
11:30				7500	12.85	32	6.45	36.5	0.40	10.73	
11:35				8500	12.81	32	6.46	34.0	0.40	9.95	
11:40	↓	↓	↓	9500	12.79	32	6.46	31.4	0.44	9.15	SAMPLE TIME: 11:40
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.42
Depth to Bottom: 15.42

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number PZ0-2D Date 6/10/14
Field Personnel Sean Hutchins
Sampling Organization O+M
Identify MP inner casing

Depth to 75/85 of screen
(below MP) top bottom
Pump Intake at (ft. below MP)
Purging Device; (pump type) bladder
Total Volume Purged 36

PID: 5.7

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1210	7.05	3CPM	100 ml/min		13.86	17	7.55	134.4	12.88	1.50	
1215	7.20	3CPM	↓		11.53	17	8.05	127.0	4.69	45.9	
1220	7.15	3CPM	↓		13.25	17	8.09	122.3	4.51	32.1	
1225	7.10	3CPM	↓		13.06	17	8.10	120.9	4.51	26.1	
1235	7.0	3CPM	↓		13.31	17	8.08	114.7	4.42	15.7	
1240	7.0	3CPM	↓		13.06	17	8.05	113.2	4.36	14.4	
1245	7.0	3CPM	↓		13.15	17	8.10	110.0	4.34	11.60	
1250	7.0	3CPM	↓		12.46	17	8.09	107.7	4.41	11.43	
1255	7.0	3CPM	↓		12.67	17	8.06	105.0	4.46	11.19	
1300			SAMPLE		COLLECTED			—			
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.0
Depth to Bottom: 85.3

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZO-3D Date 06-10-2014
Field Personnel Christopher J Fuerst
Sampling Organization O+M Inc
Identify MP TOC

Depth to 88 / 98 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 96 feet
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5 gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1145	*5.31	—	*150	—	—	—	—	—	—	—	2 GPM / 4 sec discharge 35 sec
1150	5.50		~~300~~ 100	600	15.45	11	7.96	37.0	7.07	100.4	
1200	5.53		150	1200	12.85	10	8.05	54.7	7.47	95.0	
1205	5.50		150	1800	12.51	10	8.06	51.7	7.94	106	← when I slow to 50 ml/s; lowered flow to 100 ml/s
1210	5.50		~~150~~ 100	~~2300~~ 1400	12.52	11	8.14	62.7	8.51	114	
1215	5.52		~~150~~ 100	2800	12.37	11	8.12	62.5	8.43	84	
1220	5.50		~~150~~ 100	3300	12.49	10	8.13	70.9	8.72	98	
1225	5.50		~~150~~ 100	3800	12.27	10	8.15	83.9	8.93	103	
1230	5.53		~~150~~ 100	4300	12.10	10	8.15	91.0	8.76	96	
1235	5.50		~~150~~ 100	4800	12.35	10	8.15	104.5	8.82	97	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

Paused

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.35
Depth to Bottom: 101.6 feet

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZO-3D Date 06-10-2014
Field Personnel Christopher J. Fuerst
Sampling Organization O&M Inc
Identify MP TOC

Depth to 88 / 98 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 96 feet
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5 gal
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1240	5.49		100	5300	12.29	11	8.15	106.3	8.90	84	
1245	5.50		100	5800	12.20	11	8.16	104.2	9.07	99	
1250	5.50		100	6300	12.08	10	8.16	108.0	8.93	81	
1255	5.49		100	6800	12.09	11	8.17	113.3	9.48	76	
1300	5.50		100	7300	12.10	11	8.16	114.2	9.05	77	
1305	5.50		100	7800	12.05	10	8.16	113.3	9.90	79	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.35 feet
Depth to Bottom: 101.6 feet
Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number PZR-2R Date 6/10/2014
Field Personnel R Gullmot
Sampling Organization ARCADIS
Identify MP inner PVC

Depth to 120.5 / 140.5 of screen (below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) 132' (130' bgs)
Purging Device; (pump type) bladder
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1300	6.30	2CPM	150 ml/min	—	21.44	37	7.90	-34.4	4.21	132.8	deepwell, needed slo-fo pressure
1310	8.75	↓		—	18.63	34	7.82	-39.6	3.86	120.6	
1320	9.93	↓		—	11.41	33	7.76	-47.6	1.81	92.0	
1325	12.05	↓		—	11.35	33	7.78	-49.5	1.47	100.8	
1330	13.56	↓		—	11.25	33	7.78	-51.6	1.45	99.3	
1335	15.10	↓	↓	—	11.15	33	7.78	-52.2	1.44	96.7	
1340	15.83	↓	↓	—	11.18	33	7.78	-54.3	1.42	92.6	
1345	16.42	↓	↓	—	11.20	33	7.78	-56.9	1.40	91.7	
1350	17.65	↓	↓	—	11.22	33	7.78	-56.4	1.39	91.4	
~~1355~~ 1400	18.88	2CPM	150	~2L	11.24	33	7.79	-56.8	1.37	90.7	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.82
Depth to Bottom: 141.6

Comments:
~~ST 1405~~ (1400)
collected for 1,4 Dio + metals

1400 STime

DUP-GW-06102014-2

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZR-3R Date 6-10-14
Field Personnel D. Garrigan / C. Fuest
Sampling Organization OHM, Inc
Identify MP TOC

Depth to 120.3 / 140.3 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) ~~133~~ 133'
Purging Device; (pump type) Bladder
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1145	4.75'	~~5~~	160	0	—	—	—	—	—	—	~~5~~ Discharge 2 GPM; 4 Secs; 85 PSI
1150	5.14	"	100	500	14.23	33	8.03	-133.4	1.73	14.0	" " "
1155	5.14	"	100	1000	13.34	37	8.06	-172.8	0.51	4.86	" " "
1200	5.13	"	100	1500	13.81	41	8.06	-192.7	0.45	3.41	light Sulfur Odor
1205	5.16	"	100	2000	13.88	47	8.08	-211.8	0.41	6.28	No Color
1210	5.13	"	100	2500	13.59	52	8.11	-223.4	0.37	5.31	
1215	5.13	"	100	3000	13.46	63	8.13	-237.7	0.55	6.88	
1220	5.15	"	100	3500	13.51	75	8.14	-242.2	0.28	4.80	
1225	5.14	"	100	4000	13.17	92	8.16	-244.2	0.23	7.23	
1230	5.15	"	100	4500	13.07	106	8.19	-241.1	0.23	6.16	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.91
Depth to Bottom: 141.29' BTOC

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZR-3R Date 6-10-14
Field Personnel D. Gamigan/C. Fuerst
Sampling Organization Orth, Inc
Identify MP TOC

Depth to 120.3/ 140.3 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 133'
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5 gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1235	5.16	*	100	5000	13.08	116	8.28	-228.7	0.20	6.43	
1240	5.15	*	100	5500	12.92	117	8.32	-222.7	0.19	6.05	
1245	5.14	*	100	6000	12.91	117	8.35	-219.1	0.18	5.96	Flow 100 mL/min
1250	5.12	*	100	6500	12.89	116	8.36	-215.2	0.20	3.12	
1300-	Collected	Sample	PZR-3R	+	Dupe		GW -	0610	2014		from well PZR-3R
					06102014						
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.78
Depth to Bottom: 141.29' BTOC

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: CPZ-14R

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 65.38' **Screened Interval (ftbgs):** 45.9' - 65.9'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1015
Weather Conditions: Cloudy / Humid / 65°F
Depth to groundwater at time of deployment: 5.57'
Total well depth at time of deployment: 69.38'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 55'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1525
Total # of days deployed: 1
Weather Conditions: Cloudy / Light Wind / 68°F
Depth to groundwater at time of retrieval: 5.61'
Total well depth at time of retrieval: 69.38'
Downhole Field Parameters Upon Retrieval:
Temp: 16.04 (°C) **ORP:** -21.4 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 7.68 **DO:** 1.64 (mg/L) **Serial #:** 14F100059 / 1238-0811

Notes/Observations:
Turbidity = 22.5 NTU
Conductivity = 96 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: CPZ-6A

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick-Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 24.74' **Screened Interval (ftbgs):** 9.1'-24.1'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1120
Weather Conditions: Cloudy / Humid / 70°F
Depth to groundwater at time of deployment: 7.88'
Total well depth at time of deployment: 26.74'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 6.0

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 17'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1500
Total # of days deployed: 1
Weather Conditions: Light Rain / Humid / 71°F
Depth to groundwater at time of retrieval: 8.05'
Total well depth at time of retrieval: 26.74
Downhole Field Parameters Upon Retrieval:
Temp: 16.44 (°C) **ORP:** -96.4 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 7.07 **DO:** 1.29 (mg/L) **Serial #:** 14F100059 / 738-0811

Notes/Observations:
Turbidity = 3.78 NTU
Conductivity = 58 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-05

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____
Total Depth As Constructed (ftbgs): 76.84' **Screened Interval (ftbgs):** 66.5' - 76.5'
Well Casing: Diameter: 1.5" Material: PVC
Well Screen: Diameter: 1.5"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1640
Weather Conditions: Light Rain / Humid / 71°F
Depth to groundwater at time of deployment: 2.33'
Total well depth at time of deployment: 78.84'
Dimensions of HydraSleeve™: Length (in.) 30" Diameter (in.) 1.5"
Deployment Method/Position of Weight:
PID (ppm): 0.0
(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.
Deployment Depth (Top of HydraSleeve™) (ftbgs): 74.5'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1220
Total # of days deployed: 1.5
Weather Conditions: Cloudy / Light Wind / 70°F
Depth to groundwater at time of retrieval: 2.41'
Total well depth at time of retrieval: 78.84'
Downhole Field Parameters Upon Retrieval:
Temp: 17.72 (°C) **ORP:** -42.6 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 7.55 **DO:** 1.23 (mg/L) **Serial #:** 14F100059 / 7338-0811

Notes/Observations:
Turbidity = 36.4 NTU
Conductivity = 40 µs/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 1001 M Date 6/11/14
Field Personnel Pete Bauer
Sampling Organization CDM
Identify MP

Depth to 85.6 / 95.6 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 91
Purging Device; (pump type) Bladder
Total Volume Purged 6.5 L

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0840	46.92	11.0/4.0	100	500	13.13	4	7.51	139.5	8.47	67.3	
0845	46.92	11.0/4.0	100	1000	13.08	4	7.73	140.6	8.37	61.8	
0850	46.92	11.0/4.0	100	1500	12.91	4	7.82	142.8	8.30	64.4	
0855	46.92	11.0/4.0	100	2000	12.93	4	7.88	143.2	8.26	68.1	
0900	46.92	11.0/4.0	100	2500	12.89	4	7.91	144.8	8.19	62.2	
0905	46.92	11.0/4.0	100	3000	12.87	4	7.93	144.8	8.19	47.7	
0910	46.92	11.0/4.0	100	3500	13.01	4	7.92	146.3	8.16	38.1	
0915	46.92	11.0/4.0	100	4000	12.85	4	7.94	147.5	8.26	33.1	
0920	46.92	11.0/4.0	100	4500	12.96	4	7.98	148.9	8.37	30.8	
0925	46.92	11.0/4.0	100	5000	12.95	4	8.00	148.2	8.43	22.8	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 46.6
Depth to Bottom: 94.7

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 1001M Date 6/11/14
Field Personnel Pete Burton
Sampling Organization O&M Inc
Identify MP

Depth to 85.6 / 95.6 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 91
Purging Device; (pump type) Bladder
Total Volume Purged 6.5 L
PID: ←

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0930	46.92	11.0/4.0	100	5500	18.99	4	8.02	149.0	8.47	19.2	
0935	46.92	11.0/4.0	100	6000	13.01	4	8.04	147.8	8.56	18.4	
0940	46.92	11.0/4.0	100	6500	13.01	4	8.05	148.4	8.53	19.9	Sampled
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 46.6
Depth to Bottom: 94.7

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 1001R Date 6/11/14
Field Personnel MATT & ZUBR
Sampling Organization O+M
Identify MP

Depth to 175.3/190.3 of screen
(below MP) top bottom PID: —
Pump Intake at (ft. below MP) 183
Purging Device; (pump type) BLADDER PUMP
Total Volume Purged 11.5 L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
8:40	47.7	CHNG 4 9.5.5.5	100	500	13.40	56	11.65	-125.9	2.28	5.74	
8:45	48.5			1000	13.27	49	11.61	-173.2	1.32	7.19	
8:50	49.4			1500	13.05	48	11.61	-199.1	0.87	8.89	
8:55	50			2000	12.89	47	11.63	-218.6	0.64	8.10	
9:00	50.8			2500	12.85	47	11.65	-231.3	0.51	6.72	
9:05	51.6			3000	12.90	47	11.68	-238.9	0.45	5.54	
9:10	52.35			3500	13.08	48	11.70	-244.9	0.41	5.19	
9:15	53.3			4000	12.82	48	11.73	-250.5	0.38	5.03	
9:20	54.1			4500	12.79	48	11.75	-254.3	0.36	4.64	
9:25	54.7	↓	↓	5000	12.81	48	11.77	-256.1	0.33	4.67	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 46.2
Depth to Bottom: 192

Comments: - BOTTOM SEEMED SOFT

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 1001R Date 6/11/14
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 175.31 190.3 of screen
(below MP) top bottom PID: —
Pump Intake at (ft. below MP) 183
Purging Device; (pump type) BLADDER
Total Volume Purged 11.5 L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters ~~ml~~	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
9:30	55.7	CHNG 9.5, 5.3	100	5500	12.92	49	11.81	-259.2	0.32	3.97	
9:35	56.5		100	6000	12.90	51	11.88	-263.7	0.28	3.88	
9:40	57.3			6500	12.83	54	11.96	-269.0	0.26	4.01	
9:45	58.2			7000	13.08	56	12.01	-273.9	0.24	4.69	
9:50	59.0			7500	12.98	57	12.05	-275.8	0.23	3.87	
9:55	59.8			8000	12.97	57	12.06	-281.1	0.22	3.91	
10:00	60.7			8500	13.19	57	12.07	-282.2	0.21	4.33	
10:05	61.4			9000	13.13	57	12.08	-284.6	0.18	3.78	
10:10	62.2	↓	↓	9500	13.15	58	12.09	-285.6	0.17	3.82	2.45 GALLONS
10:15	62.8	CHNG 10, 5, 4.5	80	9900	13.48	58	12.09	-285.6	0.17	3.56	REDUCED FLOW TO 80 ml/min
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 46.2
Depth to Bottom: 192

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 1001R Date 6/11/14
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 175.31 190.3 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 183
Purging Device; (pump type) BLADDER
Total Volume Purged 11.5 L
PID: —

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
10:20	63.3	40PM 10.5 HZ	80	10,300	14.17	59	12.08	-273.9	0.17	3.38	
10:25	63.89	↓	80	10,700	14.33	59	12.09	-268.9	0.22	4.12	
10:30	64.35	↓	80	11,100	14.13	59	12.10	-259.3	0.23	3.87	
10:35	64.9	↓	80	11,500	14.12	59	12.10	-257	0.24	3.78	SAMPLE TIME: 10:35
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 46.2
Depth to Bottom: 192

Comments:

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Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW 1002 DR

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): PVC top
Total Depth As Constructed (ftbgs): 186.0 **Screened Interval (ftbgs):** 171.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1145
Weather Conditions: 70° Humid. Cloudy
Depth to groundwater at time of deployment: 60.53
Total well depth at time of deployment: 191.07
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 179.0

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 1400
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 61.12
Total well depth at time of retrieval: 191.07
Downhole Field Parameters Upon Retrieval: Turb: 49.0 Cond: 30
Temp: 14.76 (°C) **ORP:** -141.2 (mV) **Water quality meter:** YSI 556 MPS
pH: 8.85 **DO:** 1.46 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.2 ppm
0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SESNE
Well Number MW-1002R Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PC

Depth to 105 / 120 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) ~120 112 (DC)
Purging Device; (pump type) Bladder
Total Volume Purged ~3 3/4 Gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1] Ex	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1315	2.60	140/60	80		16.38	1431	7.60	-59.9	1.81	11.46	4 CPM
1320	3.05	140/60	120		14.26	1331	7.87	-62.0	1.48	24.0	
1325	4.89	140/60	120		13.48	1288	8.02	-76.1	0.87	15.7	
1330	5.17	140/60	120	~ 2	13.47	1278	8.04	-93.4	0.48	11.4	
1335	5.80	140/60	120		13.69	1280	8.04	-98.9	0.44	9.96	
1340	7.01	140/60	120		13.27	1270	8.03	-109.9	0.32	9.27	
1345	7.99	140/60	120		13.23	1268	8.03	-113.0	0.33	9.83	
1350	8.90	140/60	120		12.43	1238	8.00	-112.2	0.25	13.9	3CPM
1355	10.00	140/60	120		12.37	1240	7.89	-111.6	0.22	7.92	
1400	11.11	140/60	120	~5	12.37	1240	7.76	-127.8	0.19	7.76	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 330
Depth to Bottom: 122.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-100R Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 105 / 120 of screen (below MP) top bottom
Pump Intake at (ft. below MP) ~112
Purging Device; (pump type) Bladder
Total Volume Purged ~3 3/4 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1] Ft	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1405	12.50	130/55 PM	90		12.26	1242	7.71	-141.8	0.18	6.40	3 GPM
1410	13.01	130/55	90		13.28	1271	7.67	-155.7	0.14	4.68	
1415	13.90	130/55	90		13.25	1276	7.67	-160.0	0.19	4.44	
1420	14.83	130/55	90	~ 8	13.15	1272	7.666	-161.5	0.18	4.03	
1425	15.19	130/55	90		12.87	1261	7.66	-164.8	0.18	3.71	
1430	15.77	130/55	90		13.31	1270	7.65	-167.6	0.19	4.17	
1435	16.25	130/55	90		13.07	1261	7.64	-169.0	0.15	4.66	
1440	16.91	130/55	90		13.17	1258	7.64	-172.4	0.17	4.04	
1445	17.30	130/55	90		13.16	1261	7.63	-173.8	0.13	4.25	
1450	17.71	130/55	90	~ 12	13.08	1268	7.63	-173.4	0.16	3.35	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.30
Depth to Bottom: 122.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1002R Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP TOP OF PVC

Depth to 105 / 120 of screen (below MP) top bottom
Pump Intake at (ft. below MP) ~112
Purging Device; (pump type) Bladder
Total Volume Purged ~ 3 3/4 G
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1455	18.25	130/55	90		13.17	1264	7.64	-173.3	0.14	2.17	3 CPM
1500	19.00	130/55	90		13.07	1265	7.64	-172.9	0.13	2.16	
1505	19.66	130/55	90	~15	13.20	1281	7.66	-167.1	0.14	2.11	
1510	SAMPLED										1510
1515											
1520											
1525											
1530											
1535											
1540											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.30
Depth to Bottom: 122.15

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW 1003 DR

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): Top PVC
Total Depth As Constructed (ftbgs): 192.0 **Screened Interval (ftbgs):** 177.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1125
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 13.24
Total well depth at time of deployment: 197.46
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• (Top-Down:) Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 187.5

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 1315
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 13.37
Total well depth at time of retrieval: 197.46
Downhole Field Parameters Upon Retrieval: Turb: 21.0 Cond: 46
Temp: 17.04 (°C) **ORP:** -121.5 (mV) **Water quality meter:** YSI 556 MPS
pH: 12.21 **DO:** 4.26 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm
0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O+M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-121A

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 95.10' **Screened Interval (ftbgs):** 74'-95'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1425
Weather Conditions: Rain / 68°F
Depth to groundwater at time of deployment: 5.79'
Total well depth at time of deployment: 97.10'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 84.5'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1255
Total # of days deployed: 2
Weather Conditions: Cloudy / Light Wind / 70°F
Depth to groundwater at time of retrieval: 5.84'
Total well depth at time of retrieval: 97.10'
Downhole Field Parameters Upon Retrieval:
Temp: 15.54 (°C) **ORP:** 37.0 (mV) **Water quality meter:** YSI 556 / LaMotte 2020 we
pH: 7.78 **DO:** 1.75 (mg/L) **Serial #:** 14F100059 / 7338-0811

Notes/Observations:

Turbidity: 7.78 NTU
Conductivity = 19 µS/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-121B

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 52.0 **Screened Interval (ftbgs):** 42-0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1544
Weather Conditions: 70° Rain
Depth to groundwater at time of deployment: 5.67
Total well depth at time of deployment: 54.28
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 46.28

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 1540
Total # of days deployed: 2
Weather Conditions: 70° Rain
Depth to groundwater at time of retrieval: 5.75
Total well depth at time of retrieval: 54.28
Downhole Field Parameters Upon Retrieval: Turb: 17.3 Cond: 7
Temp: 15.11 (°C) **ORP:** -125.9 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.21 **DO:** 2.36 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm (retrieval)
Collected MS/MSD for DG, AIK, + Toc

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

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Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Burlington CT
Well ID: MW-121C

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): PVC w/ mark
Total Depth As Constructed (ftbgs): 68.7 **Screened Interval (ftbgs):** 58.7
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1555
Weather Conditions: 70° Rain
Depth to groundwater at time of deployment: 5.67
Total well depth at time of deployment: 71.18
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 50.7

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 14:45
Total # of days deployed: 2
Weather Conditions: 70° Light Rain
Depth to groundwater at time of retrieval: 5.76
Total well depth at time of retrieval: 71.18
Downhole Field Parameters Upon Retrieval: Turb: 37.8 Cond: 7
Temp: 14.40 (°C) **ORP:** -100.9 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.53 **DO:** 6.98 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm (retrieval)
Collected MS/MSD for MNA

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	Otm Inc
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Scarthingston, CT
Well ID: MW-125C

Well Type: • Monitoring • Other: _____
Well Finish: • Stick Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify): _____
Total Depth As Constructed (ftbgs): 50.14' **Screened Interval (ftbgs):** 40.5'-50.5'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1610
Weather Conditions: Light Rain / Humid / 71°F
Depth to groundwater at time of deployment: 7.94'
Total well depth at time of deployment: 53.14'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 45.5'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1400
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 70°F
Depth to groundwater at time of retrieval: 7.96'
Total well depth at time of retrieval: 53.14'
Downhole Field Parameters Upon Retrieval:
Temp: 16.19 (°C) **ORP:** -73.5 (mV) **Water quality meter:** YSI 556 / ProSolo 2020wc
pH: 7.32 **DO:** 1.22 (mg/L) **Serial #:** 14F100059 / 738-0811

Notes/Observations:
Turbidity = 4.94 NTU
Conductivity = 48 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitor	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW127B Date 6/11/14
Field Personnel Sean Hutchins
Sampling Organization O&M Inc
Identify MP

Depth to 37 / 47 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 42
PID: 0.0
Purging Device; (pump type) QED Micro Purge Basics
Total Volume Purged 9.6

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0850	3.1	CPM4			11.45	4	6.2	282	7.25	6.34	
0855	3.1	CPM4			11.28	4	6.24	294.9	7.23	10.09	
0900	3.1	CPM4			11.27	4	6.34	294.9	7.12	5.60	
0905	3.1	CPM4			11.21	4	6.41	289.6	7.16	4.13	
0910	3.1	CPM4			11.22	4	6.48	278.9	7.19	4.06	
0915	3.1	CPM4			11.15	4	6.50	271.7	7.09	3.53	
0920	3.1	CPM4			11.16	4	6.57	258.7	7.09	3.47	
0925	3.1	CPM4			11.16	4	6.60	247.7	7.09	2.06	
0930	3.1	CPM4			11.12	4	6.61	238.8	7.10	2.38	
0935	3.1	CPM5			11.14	4	6.65	225.4	7.08	2.42	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.1
Depth to Bottom: 48.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW127B Date 6/11/14
Field Personnel Sean Hutchins
Sampling Organization O&M Inc
Identify MP

Depth to 37 / 47 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 42
PID: 0.0
Purging Device; (pump type) GEO Micro Purge Basics
Total Volume Purged 42

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0945	3.1	CPM6			12.23	4	6.70	214.4	6.79	2.42	
0950	3.1	CPM6									CLEANED SENSOR
0955	3.1	CPM6			12.18	4	6.82	185.5	6.63	1.75	
1000	3.1	CPM6			14.15	5	6.64	181.3	6.71	1.77	Changed YSI Meter
1005	3.1	CPM6			14.82	5	6.64	184.0	6.73	1.11	
1010	3.1	CPM6			15.13	5	6.64	187.3	6.53	1.20	
1015	3.1	CPM6			15.11	5	6.63	188.3	6.43	1.07	
1030		SAMPLES	COLLECTED								
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.1
Depth to Bottom: 48.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SPS
Well Number MW-127C Date 6-12-2014
Field Personnel Bob Morris
Sampling Organization Arcadis
Identify MP

Depth to 91.51 101.5 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 96.5
Purging Device; (pump type) QED
Total Volume Purged
PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0840	3.0				13.96	8	7.30	132.2	5.19	13.0	
0845	3.0				13.86	8	7.46	143.9	4.80	11.2	
0850	3.2				13.73	7	7.49	148.5	4.72	9.0	
0855	3.2				13.69	7	7.50	150.1	4.68	8.91	
0900	3.3				13.67	7	7.51	151.7	4.62	8.27	
											SAMPLE TIME
											0915
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.0
Depth to Bottom: 101.9

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-128 Date 6/10 - (6/11) /2014
Field Personnel A. Gillman
Sampling Organization ARCADIS
Identify MP BTIC

Depth to 55 / 65 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) 62' (60'-65')
Purging Device; (pump type) bladder Pump Microperge MP10
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
845	9.05	3CPM	150ml/m	—	12.13	32	6.67	83.5	4.23	824 NTU	
855	10.18	↓	↓	—	11.63	39	6.63	-10.8	2.61	107 NTU	
855	11.20	2CPM	↓	—	10.54	40	6.59	-99.6	0.25	28.6 NTU	
900	13.35	↓	100ml/min	—	10.80	40	6.50	-122.0	0.99	21.1 NTU	
905	14.21	↓	↓	—	11.39	40	6.44	-129.0	0.15	18.5	
910	15.35	2CPM	↓	—	11.37	40	6.38	-131.6	0.15	11.0	
915	16.69	↓	↓	—	11.39	40	6.34	-131.6	0.15	10.29	
920	17.88	↓	↓	—	11.56	40	6.25	-121.1	0.05	8.48	
925	18.35	↓	↓	—	11.50	39	6.20	-125.0	0.20	7.16	
930	19.18	↓	↓	—	11.63	39	6.15	-123.5	0.21	5.48	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.87
Depth to Bottom: 67.80

Comments: small wasp nest
DUP-GW-06112014 collected here for 1,4-dioxane and TAL metals

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS NE
Well Number MW-128 Date 6/11/2014
Field Personnel A Gillmer
Sampling Organization ARCADIS
Identify MP BTIC

Depth to 55 / 65 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) 62' (60' bgs)
Purging Device; (pump type) bladder / QED MP10
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
935	19.80	2 CPM	100	–	11.60	39	6.12	-123.4	0.12	4.74	
940	21.01	↓	↓	~9L	11.67	39	6.09	-124.5	0.11	5.30	
945		SAMPLE		COLLECTED							
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.85
Depth to Bottom: 67.80

Comments: DUP-06112014-1 collected here for 1,4D + TAL metals

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Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW 413

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing (•) Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 19.8 **Screened Interval (ftbgs):** 14.8
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1250
Weather Conditions: 70° Light Rain
Depth to groundwater at time of deployment: 4.76
Total well depth at time of deployment: 22.11
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 16.5

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 10:45
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 14.92
Total well depth at time of retrieval: 22.11
Downhole Field Parameters Upon Retrieval: Turb: 4.26 Cond: 8
Temp: 15.32 (°C) **ORP:** -90.8 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.26 **DO:** 2.20 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID = 0.5 ppm
= 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW 415

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): PVC w/mark
Total Depth As Constructed (ftbgs): 11.8 Screened Interval (ftbgs): 6-8
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 14.05
Weather Conditions: 70° Rain
Depth to groundwater at time of deployment: 4.97
Total well depth at time of deployment: 14.07
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 8.5

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 0955
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 5.13
Total well depth at time of retrieval: 14.07
Downhole Field Parameters Upon Retrieval: Turb: 18.2 Cond: 4.
Temp: 18.53 (°C) ORP: 9.5 (mV) Water quality meter: YSI 556 MPS
pH: 5.75 DO: 2.15 (mg/L) Serial #: 14F100062

Notes/Observations:

PID: 0.3 ppm
: 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcsa MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 501A Date 6/11/14
Field Personnel Pete Burton
Sampling Organization O&M Inc
Identify MP

Depth to 86.0 / 91.2 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 88.5
Purging Device; (pump type) Bladder
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1505	20.25	11.0/40	60	300	18.38	4	7.45	185.7	8.10	9.25	
1510	20.25	11.0/40	60	600	17.26	4	7.56	193.1	7.03	43.1	
1515	20.25	11.0/40	60	900	17.00	4	7.93	183.6	6.62	54.7	
1520	20.25	11.0/40	60	1200	17.07	4	8.21	174.3	6.36	56.7	
1525	20.25	11.0/40	60	1500	16.99	4	8.32	170.3	6.34	59.6	
1530	20.25	11.0/40	60	1800	16.71	4	8.37	168.2	6.16	41.8	
1535	20.25	11.0/40	60	2100	16.71	4	8.36	167.8	6.06	34.7	
1540	20.25	11.0/40	60	2400	16.46	4	8.32	168.6	6.03	25.8	
1545	20.25	11.0/40	60	2700	16.67	4	8.29	169.0	5.82	17.0	
1550	20.25	11.0/40	60	3000	16.68	4	8.30	168.2	5.98	11.9	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 20.20
Depth to Bottom: 90.65

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number S01A Date 10/11/19
Field Personnel Pete Baker
Sampling Organization O&M Co.
Identify MP

Depth to 86.01/91 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 88.5
Purging Device; (pump type) Bladder
Total Volume Purged

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1555	20.25	11.0/4.0	60	33.00	16.70	4	8.23	166.9	5.80	10.97	
1600	20.25	11.0/4.0	60	36.00	16.86	4	8.26	165.7	5.69	9.90	Sample
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 20.20
Depth to Bottom: 90.65

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 501B Date 6/11/14
Field Personnel Matt Grubb
Sampling Organization Cam Inc
Identify MP

Depth to 55 / 65 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 60
Purging Device; (pump type) Bladder
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
15:00	20.3	CPM 10.5	100	500	16.34	5	7.62	88.2	8.78	1286	
15:05	20.3		100	1,000	15.98	5	8.00	84.4	8.51	1609	
15:10				1,500	15.99	5	8.16	84.1	7.96	1493	
15:15				2,000	15.59	5	8.18	86.1	8.04	1333	
15:20				2,500	15.97	5	8.17	88.4	7.73	1175	
15:25				3,000	15.31	5	8.16	90.8	7.66	1098	
15:30				3,500	15.23	5	7.62	93.1	7.61	770	
15:35				4,000	15.17	5	8.14	94.9	7.50	630	
15:40				4,500	15.20	5	8.13	96.5	7.41	79	
15:45	↓	↓	↓	5,000	15.23	5	8.13	97.6	7.33	47	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 20.27
Depth to Bottom: 64.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 501B Date 6/11/14
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 55 / 65 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 60
Purging Device; (pump type) BLADDER
Total Volume Purged
PID: —

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
15:50	20.3	CPM 10.5	100	5,500	15.41	5	8.14	98.8	7.31	46	
15:55	↓	↓	↓	6,000	15.24	5	8.13	99.5	7.32	13	
16:00				6,500	15.35	5	8.13	100.6	7.31	17	
16:05				7,000	15.34	5	8.13	101.6	7.28	104.1	
16:10				7,500	15.69	5	8.14	102.8	7.32	98.8	
16:15	↓	↓	↓	8,000	15.47	5	8.13	103.5	7.36	102.4	SAMPLE TIME: 16:15
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 20.27
Depth to Bottom: 64.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW-501C Date 6/11/14
Field Personnel MATT GRUBB
Sampling Organization O+M
Identify MP

Depth to 20 / 30 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 25
Purging Device; (pump type) BLADDER
Total Volume Purged 11 L
PID: —

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
12:35	21.20	CPM4 9.6	200	1,000	13.90	18	6.41	-86.4	0.36	10.06	SUSPENDED BLACK SPECS IN PURGE WATER
12:40	21.20	↓	↓	2,000	13.66	18	6.44	-91.6	0.19	7.81	
12:45	21.20			3,000	13.65	18	6.46	-91.6	0.29	6.46	
12:50	21.20			4,000	13.40	18	6.48	-87.0	0.34	6.11	
12:55	21.20			5,000	13.40	18	6.50	-79.3	0.38	4.11	
13:00	21.20			6,000	13.33	17	6.52	-65.0	0.43	2.28	
13:05	21.20			7,000	13.45	17	6.53	-52.6	0.52	2.56	
13:10	21.20			8,000	13.47	16	6.54	-43.3	0.52	2.22	LESS BLACK SPECS
13:15	21.20			9,000	13.39	16	6.54	-35.8	0.59	1.87	
13:20	21.20	↓	↓	10,000	13.48	16	6.55	-30.5	0.59	2.09	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 21.15
Depth to Bottom: 28.99

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW-501C Date 6/11/14
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 20 / 30 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 25
Purging Device; (pump type) BLADDER
Total Volume Purged 11 L
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
13:25	21.20	CPM 4 1.6	200	11,000	13.40	16	6.55	-25.5	0.63	1.83	SAMPLE TIME: 13:25
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 21.15
Depth to Bottom: 28.90

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW 502

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 35.0 **Screened Interval (ftbgs):** 15.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1340
Weather Conditions: 70° Cloudy / Humid
Depth to groundwater at time of deployment: 6.95
Total well depth at time of deployment: 35.47
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 22.5

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 09:15
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 7.06
Total well depth at time of retrieval: 35.47
Downhole Field Parameters Upon Retrieval: Turb: 1050 Cond: 15
Temp: 14.22 (°C) **ORP:** -57.7 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.25 **DO:** 4.37 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm
PID: 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-704R

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 90.44' **Screened Interval (ftbgs):** 79'-89'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1500
Weather Conditions: Light Rain / 68°F
Depth to groundwater at time of deployment: 8.01'
Total well depth at time of deployment: 92.44'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 84'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 0950
Total # of days deployed: 1.5
Weather Conditions: Cloudy / Humid / 70°F
Depth to groundwater at time of retrieval: 8.07'
Total well depth at time of retrieval: 92.44'
Downhole Field Parameters Upon Retrieval:
Temp: 15.46 (°C) **ORP:** -166.8 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 11.16 **DO:** 1.36 (mg/L) **Serial #:** 14F100059 / 738-0811

Notes/Observations:
Turbidity = 98.6 NTU
Conductivity = 26 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitor	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-704S

Well Type: (•) Monitoring ( ) Other: _____

Well Finish: ( ) Stick Up (•) Flush Mount

Measuring Pt: (•) Top of Casing ( ) Other (specify): _____

Total Depth As Constructed (ftbgs): 18.18' **Screened Interval (ftbgs):** 4'-19'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1445

Weather Conditions: Rain / 68°F

Depth to groundwater at time of deployment: 3.11'

Total well depth at time of deployment: 18.18'

Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"

Deployment Method/Position of Weight:

PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.

( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 10.5'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1025

Total # of days deployed: 1.5

Weather Conditions: Cloudy / Humid / 69°F

Depth to groundwater at time of retrieval: 3.12'

Total well depth at time of retrieval: 18.18'

Downhole Field Parameters Upon Retrieval:

Temp: 16.00 (°C) **ORP:** 219.3 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we

pH: 6.41 **DO:** 5.96 (mg/L) **Serial #:** 14710059 / 738-0811

Notes/Observations:

Turbidity: 21.1 NTU
Conductivity: 5 µS/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southbington, CT
Well ID: MW-705R

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick-Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____

Total Depth As Constructed (ftbgs): 53.92' **Screened Interval (ftbgs):** 44' - 54'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 08/09/14 Time: 1540
Weather Conditions: Rain / 70°F
Depth to groundwater at time of deployment: 7.12'
Total well depth at time of deployment: 56.92'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 49'

Retrieval

Date and Time of Retrieval: Date: 08/11/14 Time: 1425
Total # of days deployed: 2
Weather Conditions: Rain / Humid / 71°F
Depth to groundwater at time of retrieval: 7.13'
Total well depth at time of retrieval: 56.92'
Downhole Field Parameters Upon Retrieval:
Temp: 15.52 (°C) **ORP:** -12.1 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 6.90 **DO:** 2.24 (mg/L) **Serial #:** 14F100059 / 738-0811

Notes/Observations:

Turbidity = 26.4 NTU
Conductivity = 14 µS/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-707DR Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Amadis
Identify MP TOP OF PVC

Depth to 1621 192 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 177
Purging Device; (pump type) Bladder
Total Volume Purged 7 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0830	9.75	190/90	12.0		12.55	208	6.79	-52.0	2.83	12.4	4 CPM
0835	10.51	190/90	100		11.96	252	7.24	-116.2	2.37	12.8	
0840	10.81	190/90	80		11.98	379	7.61	-125.1	0.89	123	Silty Purge
0845	10.91	190/90	60-80		11.53	397	7.74	-126.6	0.61	158	some cycles 3CPM - do not produce water
0850	11.18	190/90	60-80	+/- 2	12.02	399	7.79	-132.4	0.46	130	
0855	12.02	190/90	70-80		10.8	380	7.83	-140.2	0.38	139	
0900	12.41	200/100	140-210		10.91	378	7.83	-145.8	0.21	690	3CPM
0905	13.08	200/100	180		11.32	370	7.83	-159.5	0.12	134	
0910	13.44	200/100	200		11.03	368	7.82	-163.4	0.18	104	
0915	13.81	200/100	200	+/- 4	10.92	362	7.82	-160.0	0.15	131	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	Well is missing expanding plug (2")

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.00
Depth to Bottom: 194.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-707DR Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 1621 192 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 177
Purging Device; (pump type) Bladder
Total Volume Purged 7 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0920	14.30	200/100	200	~5	10.82	353	7.78	-173.6	0.08	129	3 CPM
0925	15.40	200/100	210		10.97	346	7.73	-184.4	0.07	141	
0930	15.48	200/100	200		11.11	341	7.69	-196.3	0.05	126	2 CPM
0935	15.51	190/90	160	9	11.28	334	7.63	-207.9	0.05	111	
0940	15.00	200/100	200		11.38	330	7.59	-216.9	0.08	88.4	
0945	15.44	200/100	200		11.15	319	7.56	-232.8	0.06	55.5	
0950	15.48	200/100	200	~12	11.05	317	7.55	-238.4	0.06	50.1	
0955	15.88	200/100	200		11.11	313	7.52	-246.1	0.05	48.2	
1000	15.99	200/100	200		11.02	310	7.53	-252.1	0.04	43.5	
1005	16.06	200/100	200	~16	11.17	309	7.53	-254.6	0.06	49.3	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.00
Depth to Bottom: 194.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW707DR Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 162 / 192 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 177
Purging Device; (pump type) bladder
Total Volume Purged 7 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1010	16.19	200/100	200		11.29	308	7.52	-259.4	0.06	52.8	
1015	16.32	200/100	200		11.10	307	7.53	-259.0	0.07	45.8	
1020	16.44	200/100	200	~20	11.34	305	7.56	-256.0	0.12	27.7	
1025	16.56	200/100	200		11.20	300	7.59	-251.1	0.17	30.6	
1030	16.62	200/100	200		11.17	280	7.65	-239.2	0.31	28.5	
1035	16.70	200/100	200		11.17	258	7.61	-232.5	0.42	30.1	
1040	16.78	200/100	200	~24	11.04	237	7.57	-231.3	0.53	31.2	
1045	16.84	200/100	200		11.27	224	7.53	-231.0	0.67	29.3	
1050	16.88	200/100	200		11.02	217	7.52	-230.2	0.73	26.8	
1055	16.96	200/100	200		11.11	212	7.52	-222.0	0.87	26.9	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.00
Depth to Bottom: 194.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW 707DR Date 6-11-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 162 / 192 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 177
Purging Device; (pump type) Bladder
Total Volume Purged 7 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1100	16.90	200/100	200	28	11.23	212	7.52	-221.5	0.85	28.1	
1105	16.93	200/100	200		11.17	209	7.51	-219.6	0.86	27.0	
1110	S	A	M	P L	ED					1	
1115											
1120											
1125											
1130											
1135											
1140											
1145											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.00
Depth to Bottom: 194.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW 707M Date 6/11/14
Field Personnel Christopher Fuerst
Sampling Organization O&M Inc
Identify MP TOC

Depth to 58 / 68 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 65'
Purging Device; (pump type) Bladder Pump
Total Volume Purged 1.2 Gallons
PID: 0.00

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1515	8.11'	*	100	0	—	—	—	—	—	—	* Start 2 GPM/4 sec discharge
1520	8.12	*	100	500	11.75	5	7.73	126.3	5.53	3.62	
1525	8.12	*	100	1000	11.63	5	8.02	127.8	6.76	4.54	
1530	8.12	*	100	1500	11.46	5	8.06	131.4	6.84	3.38	No Color / No Odor
1535	8.13	*	100	2000	11.26	5	8.09	133.5	6.95	2.80	
1540	8.14	*	100	2500	11.24	5	8.10	136.4	6.79	3.07	
1545	8.12	*	100	3000	11.28	5	8.11	138.4	6.79	3.62	
1550	8.14	*	100	3500	11.29	5	8.11	139.6	6.79	3.54	
1555 -	Collected Sample			MW-707M-061	2014		from	well	MW-707M		
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: ~~8.10~~ 8.11' BTOC
Depth to Bottom: 69.71' BTOC

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Super
Well Number MW-7073 Date 6/11/14
Field Personnel D. Corrigan / C. Fuess
Sampling Organization Bem, Inc
Identify MP TOC

Depth to 20' / 30' of screen 10' Screen
(below MP) top bottom PID: 0.00
Pump Intake at (ft. below MP) 27' BTOC
Purging Device; (pump type) Bladder Pump
Total Volume Purged 1.4

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1510	8.10'	*	100	0	—	—	—	—	—	—	*CPM 2 4 discharge
1515	8.10'	*	100	500	13.95	4	8.05	110.3	6.98	32.6	
1520	8.10'	*	100	1000	12.41	3	8.13	113.6	7.40	29.1	
1525	8.10'	*	100	1500	12.28	3	8.15	120.4	7.67	24.8	
1530	8.10'	*	100	2000	12.38	3	8.14	121.9	7.65	24	
1535	8.10'	*	100	2500	12.23	3	8.14	122.1	7.62	24.9	
1540	8.10'	*	100	3000	11.73	3	8.14	123.5	7.65	30.0	
1545	8.10'	*	100	3500	12.00	3	8.14	125.7	7.77	29.7	
1550	8.10'	*	100	4000	11.97	3	8.15	126.0	7.52	22.2	
1555	8.10'	*	100	4500	11.89	3	8.15	127.9	7.44	23.4	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.10' BTOC
Depth to Bottom: 31.47

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name)_____
Well Number_____ Date_____
Field Personnel_____
Sampling Organization_____
Identify MP_____

Depth to _____/_____ of screen
(below MP) top bottom
Pump Intake at (ft. below MP)_____
Purging Device; (pump type)_____
Total Volume Purged _____

PID: _____

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1600	8.10'	*	100	5000	11.84	3	8.15	125.6	7.49	23.5	
	Collected Sample at ~~MW~~ MW7078-06112014 from well MW-7078										
					Duplicate Metals Samples (Total and Dissolved) MW-7075						
					DUP-GW 06112014						
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: _____

Depth to Bottom:_____

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: MW-709DR

Well Type: • Monitoring • Other:
Well Finish: • Stick Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify):

Total Depth As Constructed (ftbgs): 133.21' **Screened Interval (ftbgs):** 120'-134'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1230
Weather Conditions: Cloudy/Humid/68°F
Depth to groundwater at time of deployment: 2.87'
Total well depth at time of deployment: 133.21'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 127'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 0840
Total # of days deployed: 1.5
Weather Conditions: Cloudy/Light Wind/68°F
Depth to groundwater at time of retrieval: 2.83'
Total well depth at time of retrieval: 133.21'
Downhole Field Parameters Upon Retrieval:
Temp: 14.61 (°C) **ORP:** 43.9 (mV) **Water quality meter:** YSI 556/LaMotte 2020we
pH: 7.12 **DO:** 1.16 (mg/L) **Serial #:** 14F100059/728-0811

Notes/Observations:

Turbidity = 72.4 NTU
Conductivity = 126 µS/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingle	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SPS
Location: Southington, CT
Well ID: MW-209R

Well Type: (Monitoring) Other: _____
Well Finish: (Stick Up) Flush Mount
Measuring Pt: (Top of Casing) Other (specify): _____
Total Depth As Constructed (ftbgs): 69.96' **Screened Interval (ftbgs):** 50'-70'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1210
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of deployment: 4.92'
Total well depth at time of deployment: 69.96'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 60'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 0815
Total # of days deployed: 1.5
Weather Conditions: Cloudy / Light Wind / 68°F
Depth to groundwater at time of retrieval: 4.98'
Total well depth at time of retrieval: 69.96'
Downhole Field Parameters Upon Retrieval:
Temp: 14.83 (°C) **ORP:** 141.3 (mV) **Water quality meter:** YSI 556 / LaMotte 2020 we
pH: 7.02 **DO:** 2.11 (mg/L) **Serial #:** 14F100059 / 73E-0811

Notes/Observations:

Turbidity = 14.3 NTU
Conductivity = 14 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitz	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-903D Date 6-11-14
Field Personnel D. Gonzigan / C. Fuerst
Sampling Organization OHM, Inc
Identify MP TOC

Depth to 93 / 103 of screen 10' Screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) 102' BTOC
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5 gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1150	25.39	*	100	0	—	—	—	—	—	—	* 2 GPM; 8 sec discharge 50 psi
1155	25.39	*	100	500	14.20	4	7.95	159.3	6.72	1.53	
1200	25.39	*	100	~~500~~ 1000	14.18	4	8.05	156.6	6.53	1.33	Flow Check 100 mL/min
1205	25.41	*	100	1500	14.14	4	8.07	155.2	6.62	1.37	
1210	25.39	*	100	2000	14.06	4	8.11	154.4	6.55	1.37	
1215	25.40	*	100	2500	13.93	4	8.14	153.0	6.60	3.37	
1220	25.41	*	100	3000	13.85	4	8.18	151.7	6.83	7.23	
1225	25.39	*	100	3500	14.01	4	8.23	150.9	7.10	7.73	
1230	25.41	*	100	4000	13.86	4	8.26	148.6	7.55	8.52	
1235	25.41	*	100	4500	13.85	4	8.28	150.0	7.68	7.16	Flow Check · 100 mL/min
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 25.39' BTOC
Depth to Bottom: 103.51' BTOC

Comments: Good well! Pump @ 100 mL/min

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-903D Date 6-11-14
Field Personnel D. Garigan, C. Fuerst
Sampling Organization Sam, Inc
Identify MP TOC

Depth to 93' / 103' of screen 10' Screen
(below MP) top bottom
PID: 0.00
Pump Intake at (ft. below MP) 102' BTOC
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5 gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1240	25.39	*	100	5000	13.86	4	8.28	149.7	7.52	6.59	* 2CPM/8sec discharge/50 psi
1245 - Collected sample MW-903D-061120 14 from well MW-903D.											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 25.39' BTOC
Depth to Bottom: 103.51' BTOC

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 904D Date 6/11/14
Field Personnel Pete Bufton
Sampling Organization OAM Inc
Identify MP

Depth to (below MP) 69.0 / 79.0 of screen top bottom
Pump Intake at (ft. below MP) 74
Purging Device; (pump type) Bladder
Total Volume Purged 7.0
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1235	19.25	12.0/30	140	700	14.04	5	8.09	175.4	7.10	75.5	
1240	19.25	12.0/30	140	1400	14.11	5	8.17	172.9	6.93	65.7	
1245	19.25	12.0/30	140	2100	14.21	5	8.19	171.0	6.92	70.2	
1250	19.25	12.0/30	140	2800	14.07	5	8.19	169.2	6.81	56.0	
1255	19.25	12.0/30	140	3500	14.06	5	8.19	168.2	6.57	53.5	
1300	19.25	12.0/30	140	4200	14.08	5	8.18	166.9	6.28	38.0	
1305	19.25	12.0/30	140	4900	14.30	5	8.17	165.7	6.15	36.1	
1310	19.25	12.0/30	140	5600	14.35	5	8.17	164.3	6.30	28.1	
1315	19.25	12.0/30	140	6300	14.18	5	8.17	163.4	6.35	25.9	
1320	19.25	12.0/30	140	7000	14.20	5	8.18	162.4	6.53	25.1	Sample
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 19.20
Depth to Bottom: 78.85

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW905M Date 6/11/14
Field Personnel Sean Hutchins
Sampling Organization O&M, TAC
Identify MP

Depth to 17 / 26 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 21.5
Purging Device; (pump type) QED Micro Purge
Total Volume Purged 2.6

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1340	8.1	6CPM			10.47	4	6.67	296.5	7.87	34.1	
1345	8.1	6CPM			10.37	4	6.58	319.0	7.71	23.9	
1350	7.9	6CPM			11.71	4	6.70	320.3	7.60	17.4	
1355	7.9	6 CPM			11.57	4	6.85	315.9	7.75	22.4	
1400	7.9	6 CPM			11.51	4	6.92	314.2	7.77	22.7	
1405	7.9	6 CPM			11.49	4	6.96	310.3	7.69	25.2	
1410	7.9	6 CPM			11.37	4	6.98	305.6	7.75	24.5	
1415	7.9	6 CPM			11.57	4	7.00	301.4	7.73	24.6	
1420		SAMPLE		COLLECTED							
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.1
Depth to Bottom: 28.3

Comments:

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Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Scathington, CT
Well ID: MW-9080

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 29.53' **Screened Interval (ftbgs):** 24.9'-29.9'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1525
Weather Conditions: Light Rain / 68°F
Depth to groundwater at time of deployment: 9.01'
Total well depth at time of deployment: 32.53'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 27.5'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 1330
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 71°F
Depth to groundwater at time of retrieval: 9.12'
Total well depth at time of retrieval: 32.53
Downhole Field Parameters Upon Retrieval:
Temp: 16.18 (°C) **ORP:** 58.5 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 9.59 **DO:** 1.10 (mg/L) **Serial #:** 14F100059 / 738-0811

Notes/Observations:
Turbidity = 44.4 NTU
Conductivity = 14 mS/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-909D

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): PVC/Mark
Total Depth As Constructed (ftbgs): 27.7 **Screened Interval (ftbgs):** 22.7
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1500
Weather Conditions: 70° Light Rain
Depth to groundwater at time of deployment: 4.85
Total well depth at time of deployment: 29.84
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 25.0

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 1610
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 4.90
Total well depth at time of retrieval: 29.84
Downhole Field Parameters Upon Retrieval: Turb: 12.4 Cond: 4
Temp: 16.71 (°C) **ORP:** 103.3 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.06 **DO:** 6.13 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID = 0.0 ppm
= 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-910S Date
Field Personnel Christopher Fuerst
Sampling Organization O+M Inc
Identify MP TOC

Depth to 20.7 / 30.7 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 31.0' BTOC
Purging Device; (pump type) Bladder Pump
Total Volume Purged
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1150	29.03	—	100	0	—	—	—	—	—	—	2 GPM / 4 Discharge 55 psi
1200	29.02	—	100	500	15.25	12	6.26	144.2	3.40	27.6	Started Pumping
1205	29.04	—	100	1000	15.31	12	6.26	148.0	3.14	22.2	
1210	29.03	—	100	1500	15.21	12	6.26	148.9	3.20	22.4	
1215	29.04	—	100	2000	15.02	12	6.27	151.0	3.16	21.8	
1220	29.04	—	100	2500	14.82	11	6.27	153.8	2.98	19.5	
1225	29.03	—	100	3000	15.02	12	6.27	160.0	2.87	18.4	
1230	29.03	—	100	3500	14.94	12	6.27	161.1*	2.77	17.0	ORP = 167.1
1235	29.03	—	100	4000	14.95	12	6.28	167.2	3.12	18.3	
1240	29.03	—	100	4500	15.22	12	6.27	173.8	3.45	16.6	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 29.04
Depth to Bottom: 34.99

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Sample Site
Well Number MW-910S Date 06/11/2014
Field Personnel Christopher J. Fuerst
Sampling Organization O&M Inc
Identify MP TOC

Depth to 20.7 / 30.7 of screen
(below MP) top bottom PID: _____
Pump Intake at (ft. below MP) _____
Purging Device; (pump type) Bladder Pump
Total Volume Purged _____

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1245	29.03	—	100	5000	15.17	12	6.27	192.8	3.19	20.9	
1250	29.03	—	100	5500	15.39	12	6.29	194.5	3.28	15.8	
1255	29.04	—	100	6000	15.27	12	6.27	200.4	3.22	11.2	
1300	29.03	—	100	6500	15.16	12	6.27	206.5	3.26	11.35	
1305	29.04	—	100	7000	15.34	12	6.27	205.3	3.24	11.0	
1310	29.04	—	100	7500	15.44	12	6.27	207.5	3.17	10.73	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 29.04
Depth to Bottom: 34.99

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: P-11A

Well Type: • Monitoring • Other:
Well Finish: • Stick Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify):
Total Depth As Constructed (ftbgs): 68.0 **Screened Interval (ftbgs):** 58.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1325
Weather Conditions: 70° Humid, cloudy
Depth to groundwater at time of deployment: 5.19
Total well depth at time of deployment: 68.32
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 61.32

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 0800
Total # of days deployed: 2
Weather Conditions: 65° Cloudy
Depth to groundwater at time of retrieval: 5.28
Total well depth at time of retrieval: 68.32
Downhole Field Parameters Upon Retrieval: Turb: 7.94 Cond: 14.0
Temp: 14.12 (°C) **ORP:** 260.3 (mV) **Water quality meter:** YSI 556 MPS
pH: 3.59 **DO:** 2.00 (mg/L) **Serial #:** 14F100067

Notes/Observations:

PID: 0.0 ppm
PID: 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
RM	O&M Inc.
MM	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: P-11B

Well Type: (Monitoring) Other:
Well Finish: (Stick Up) Flush Mount
Measuring Pt: (Top of Casing) Other (specify):
Total Depth As Constructed (ftbgs): 14.15' **Screened Interval (ftbgs):** 9'-14'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/09/14 Time: 1405
Weather Conditions: Rain / 70°F
Depth to groundwater at time of deployment: 6.63'
Total well depth at time of deployment: 16.15'
Dimensions of HydraSleeve™: Length (in.) 30" Diameter (in.) 1.5"
Deployment Method/Position of Weight:

PID (ppm): 0.0

- Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
- (Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.)

Deployment Depth (Top of HydraSleeve™) (ftbgs): 11.5'

Retrieval

Date and Time of Retrieval: Date: 06/11/14 Time: 0915
Total # of days deployed: 1.5
Weather Conditions: Cloudy / Humid / 69°F
Depth to groundwater at time of retrieval: 6.69'
Total well depth at time of retrieval: 16.15'
Downhole Field Parameters Upon Retrieval: Collected via downhole; not enough volume in HS @ 11.5' bgs
Temp: 9.13 (°C) **ORP:** 184.5 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 7.32 **DO:** 0.30 (mg/L) **Serial #:** 14710059 / 738-0811

Notes/Observations:

Turbidity = n/a *Not enough volume to collect from HS
Conductivity = 10 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number P-13 Date 6-4-2014
Field Personnel Bdo Morris
Sampling Organization Ecm
Identify MP

Depth to 4.9 / 14.9 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 12.5
Purging Device; (pump type)
Total Volume Purged

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1340	10.1				11.32	5	7.80	161.5	7.48	18.4	
1345	10.2				11.04	5	7.85	164.5	7.24	16.3	
1350	10.2				11.16	5	7.83	164.9	7.08	17.4	
1355	10.2				11.09	5	7.81	164.8	7.05	17.2	
											Sample Time
											1400
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 10.1
Depth to Bottom: 17.0

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: P-3A

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): Mark on PVC
Total Depth As Constructed (ftbgs): 64.5 **Screened Interval (ftbgs):** 54.5
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1300
Weather Conditions: 70° Cloudy
Depth to groundwater at time of deployment: 2.98
Total well depth at time of deployment: 67.93
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 59.0

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 11:15
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 12.95'
Total well depth at time of retrieval: 67.93
Downhole Field Parameters Upon Retrieval: Turb: 5.28 Cond: 8
Temp: 14.55 (°C) **ORP:** -79.0 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.96 **DO:** 2.84 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm
: 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSWE
Location: Southington CT
Well ID: P-6

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 57.5 **Screened Interval (ftbgs):** 47.5
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1513
Weather Conditions: 70° Light Rain
Depth to groundwater at time of deployment: 5.06
Total well depth at time of deployment: 59.91
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 54.0

Retrieval

Date and Time of Retrieval: Date: 6-11-14 Time: 0845
Total # of days deployed: 2
Weather Conditions: 66° Cloudy
Depth to groundwater at time of retrieval: 5.18
Total well depth at time of retrieval: 59.91
Downhole Field Parameters Upon Retrieval: Turb: 100.1 Cond: 35
Temp: 13.93 (°C) ORP: -21.2 (mV) Water quality meter: YSI 556 MPS
pH: 5.99 DO: 1.46 (mg/L) Serial #: 14F100062

Notes/Observations:

PID: 0.0 ppm
PID: 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number PZ0-3M Date 6/11/2014
Field Personnel A Guilmor
Sampling Organization ARCADIS
Identify MP marked inner PVC casing

Depth to 46 / 56 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) 51' bgs ~53' bmp ~ 50
Purging Device; (pump type) bladder, MP10 / QED
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1250	6.15	3CPM	100 ml/min	–	13.86	6	6.13	161.3	7.14	18.6	
1255	6.61	3CPM	100 ml/min	–	14.05	6	6.11	168.9	7.26	14.9	
1300	7.12	↓		–	14.84	6	6.02	179.7	7.38	10.6	
1305	~~7.20~~	↓	↓	–	13.40	6	6.06	184.8	7.10	12.6	
1310	7.95	↓	↓	–	12.87	6	6.38	174.8	5.06	11.5	dropped flow a bit to attempt to
1315	8.19	2CPM	75 ml/min	–	13.63	6	6.48	182.1	4.69	10.57	minimize drawdown
1320	8.26	↓	↓	–	13.94	6	6.44	181.6	5.00	7.90	
1325	8.37	↓	↓	–	13.90	6	6.42	181.4	5.27	7.08	
1330	8.49	↓	↓	–	13.82	6	6.36	181.3	5.48	6.57	
1335	8.55	↓	↓	–	13.98	6	6.34	180.8	5.68	5.70	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.44
Depth to Bottom:

Comments: MS/MSD collected for
- 1,4 Dioxane
- total TAL Metals
- Dissolved TAL Metals

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS NE
Well Number PZO-3M Date 6/11/2014
Field Personnel A Guillmor
Sampling Organization ARCADIS
Identify MP marlc/BTIC

Depth to 46 / 56 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) 53' bmp (51' bgs)
Purging Device; (pump type) bladder
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
											SCond
1340	8.60	2GPM	75ml/min	–	↙	13.65	6.29	181.0	6.21	4.68	6 mS/cm
1345	8.67	↓	↓	~8L	↙	13.65	6.27	183.6	6.28	4.28	6 ↓
1350			SAMPLE		COLLECTED						
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.44
Depth to Bottom: 57.90

Comments:
MS/MSD collected for
- 1,4 Dioxane
- Total TAL Metals
- Dissolved TAL Metals

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZO-4D Date 6/11/14
Field Personnel Chris Eggbeer J Fuerst
Sampling Organization O&M Inc
Identify MP TOC

Depth to 46 / 56 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 54 feet
Purging Device; (pump type) Bladder
Total Volume Purged 12 gallons

PID: 0.00

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0800	6.40		100	0	—	—	—	—	—	—	2 GPM / 4 Discharge SS pg 3
0820	6.40		100	1000	10.92	2	6.33	171.0	11.36	873	Pump problem!!!
0840	6.40		100	1500	11.69	2	6.59	141.5	11.00	—	Did not pump out of range
0845	6.40		300	3000	9.59	2	6.46	157.0	11.05	—	
0850	6.40		300	4500	9.46	2	6.46	156.4	10.96	—	300mL/min
0855	6.40		300	6000	9.46	2	6.45	155.9	10.90	3399	3 GPM at 9 sec 40 pg 3
0900	6.40		300	7500	9.39	2	6.44	156.7	10.89	1890	
0805	6.40		300	9000	9.49	2	6.47	151.9	10.92	737	
0810	6.40		300	10500	9.47	2	6.49	150.6	10.85	91	Iron in water
0815	6.40		300	12,000	9.41	2	6.51	155.4	10.85	93	No Odor
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.35'
Depth to Bottom: 58.31' BTOC

Comments: Good well.
300 mL/min

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZO-4D Date
Field Personnel Christopher J. Fuerst
Sampling Organization O&M Inc
Identify MP TOC

Depth to 46 / 56 of screen
(below MP) top bottom
Pump Intake at (ft. below MP)
Purging Device; (pump type)
Total Volume Purged

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0920	6.40	—	300	13500	9.52	2	6.52	155.9	10.85	100.2	
0925	6.40	—	300	15000	9.45	2	6.51	156.3	10.88	75.7	
0930	6.40	—	300	16500	9.46	2	6.52	156.9	10.77	65.9	
0935	6.40	—	300	18,200	~~9.52~~ 9.44*	2	6.52	157.7	10.83	51.5	Temp: 9.44*
0940	6.40	—	300	19,700	9.48	2	6.52	158.1	10.85	47.7	
0945	6.40	—	300	21,200	9.61	2	6.50	158.2	10.91	42.1	
0950	6.40	—	300	22,700	9.47	2	6.33	165.4	10.79	34.5	
0955	6.40	—	300	24,200	9.47	2	6.15	190.2	10.75	27.9	
1000	6.40	—	300	25,700	9.69	2	6.07	185.5	10.91	24.5	
1005	6.40	—	300	27,200	9.49	2	6.06	186.2	10.82	21.9	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water:
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name)_____
Well Number_____ Date_____
Field Personnel_____
Sampling Organization_____
Identify MP_____

Depth to _____/_____ of screen
(below MP) top bottom
Pump Intake at (ft. below MP)_____
Purging Device; (pump type)_____
Total Volume Purged _____

PID: _____

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1010	6.40		300	28,700	9.61	2	6.06	187.7	10.70	19.1	
1015	6.40		300	30,200	9.54	2	6.07	186.2	10.80	15.5	
1020	6.40		300	31,700	9.53	2	6.06	179.2	10.84	14.6	
1025	6.40		300	33,200	9.52	2	6.07	182.6	10.80	13.5	
	P20-4D-06112014 from well P20-4D: Collected										
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: _____

Depth to Bottom: _____

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZO-4M Date 6/11/14
Field Personnel D. Corrigan / C. Fuerst
Sampling Organization
Identify MP TOC

Depth to 29 / 39 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 37
Purging Device; (pump type) Bladder Pump
Total Volume Purged
PID: 0.00 PPM

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0810	6.26	8	100	0	—	—	—	—	—	—	8 2 CPM, 4/sec discharge 30 PSI
0820	6.26	8	100	1000	~~1000~~ 10.94	3	6.02	194.6	10.95	3.89	
0825	6.26	8	100	1500	10.91	2	6.15	196.7	10.90	3.69	
0835	6.27	8	100	2500	10.69	2	6.30	201.7	10.89	1.90	
0840	6.27	8	100	3000	10.67	2	6.34	203.2	10.73	1.97	
0845	6.26	8	100	3500	10.33	2	6.39	203.9	10.63	1.66	
0850	6.27	8	100	4000	10.44	2	6.39	204.5	10.92	1.95	
0855	6.27	8	100	4500	10.31	2	6.38	206.2	10.91	1.49	
0900	6.25	8	100	5000	10.30	2	6.39	206.9	10.89	1.59	
0910	— Collected sample PZO-4M-06112014 From well PZO-4M.										
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.20' BTOC
Depth to Bottom: ~ 41.11' BTOC

Comments: Good well
100 mL/min
Low Turbidity

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Sites
Well Number CPZ-1 Date 06-12-13
Field Personnel Christopher Faers
Sampling Organization O+M Inc
Identify MP TOC

Depth to (below MP) top 4.6 / bottom 19.6 of screen
Pump Intake at (ft. below MP) 13.1
Purging Device; (pump type) Bladder pump
Total Volume Purged 25
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1235	7.20'	—	100	—	—	—	—	—	—	—	← Held and started at 1255
1300	7.25'	—	100	500	13.43	4	6.20	169.5	8.71	6.59	
1305	7.25'	—	100	1000	13.16	4	6.21	174.8	7.90	5.93	
1310	7.25'	—	100	1500	13.17	4	6.21	178.9	7.58	4.75	
1315	7.25'	—	100	2000	13.18	4	6.22	174.5	7.27	4.69	
1320	7.25'	—	100	2500	13.12	4	6.21	182.2	6.74	5.33	
1325	7.25'	—	100	3000	13.13	4	6.21	187.3	6.57	4.67	
1330	7.25'	—	100	3500	13.12	4	6.22	193.5	6.58	3.93	
1335	7.28'	—	100	4000	13.08	4	6.27	194.5	6.14	3.80	
1340	7.26'	—	100	4500	13.12	4	6.22	196.7	6.03	3.48	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.20'
Depth to Bottom: 21.59

Comments: 1410 - 1430 Collected Sample CPZ-1-06132014 from well CPZ-1. MS-MSD collected this location

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington CT
Well ID: CPZ-10R

Well Type: (Monitoring) • Other:
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify):
Total Depth As Constructed (ftbgs): 63.53' **Screened Interval (ftbgs):** 40.3'-60.3'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 0900
Weather Conditions: Cloudy / Humid / 65°F
Depth to groundwater at time of deployment: 2.75'
Total well depth at time of deployment: 64.53'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 57.3'

Retrieval

Date and Time of Retrieval: Date: 06/12/14 Time: 1425
Total # of days deployed: 2
Weather Conditions: Cloudy / Cool / 66°F
Depth to groundwater at time of retrieval: 2.93'
Total well depth at time of retrieval: 64.53'
Downhole Field Parameters Upon Retrieval:
Temp: 17.15 (°C) **ORP:** 148.0 (mV) **Water quality meter:** YSI 556 / LaMotte 2020 we
pH: 6.60 **DO:** 5.00 (mg/L) **Serial #:** 14F100059 / 2135-1412

Notes/Observations:

Turbidity = 8.53 NTU
Conductivity = 2 ms/cm

Collected MS/MSD Samples for VOCs Only.
(CPZ-10R-HS-06122014-MS
CPZ-10R-HS-06122014-MSD)

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Lingster	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Tubing would not move lower.

Location (Site/Facility Name) SRS Superfund Site
Well Number CP2-1R Date 6-12-14
Field Personnel D. Garrigan / C. Forest
Sampling Organization OVM, Inc
Identify MP TOC

Depth to 41' / 61' of screen 20' Screen
(below MP) top bottom 36'
Pump Intake at (ft. below MP) ~~55.4'~~ BTOC
Purging Device; (pump type) ~~Bladder Pump~~ Parastaltic Pump
Total Volume Purged 2.0 gallons
PID: 0.00

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1305	2.98'	—	750	0	—	—	—	—	—	—	No Dial Reading (Very Slow)
1310	3.91	—	750	750	13.04	5	7.01	131.0	4.52	2.53	
1315	4.59	—	750	1500	13.05	5	6.98	136.9	3.79	2.18	
1320	5.10	—	750	2250	12.99	5	6.97	143.8	3.50	1.72	Pump stopped
1325	5.38	—	750	3000	12.85	5	6.96	147.9	3.51	2.95	
1330	5.85	—	750	3750	12.79	5	6.96	152.5	3.46	1.75	
1335	6.11	—	750	4500	13.40	5	6.96	155.6	3.43	2.00	Pump stopped
1340	6.22	—	750	5250	13.16	5	6.97	157.6	3.43	1.85	
1345	6.47	—	750	6000	12.95	5	6.96	158.1	3.43	1.92	
1350	6.72	—	750	6750	12.82	5	6.96	162.6	3.42	1.99	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 2.94' BTOC
Depth to Bottom: 61.01

Comments: Needs Lock. Obstruction @ about 3' BTOC. 2" Pump will not Pass.

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number CPZ-1R Date 6-12-14
Field Personnel D. Garrigan / C. Fuerst
Sampling Organization Ocm, Inc
Identify MP TOC

Depth to 41' / 61' of screen 20' Screen
(below MP) top bottom PID: 0.00
Pump Intake at (ft. below MP) 36' (See Page 1)
Purging Device; (pump type) Peristaltic
Total Volume Purged 2.0 gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1355	7.01	—	750	7500	12.83	5	6.77	165.0	3.43	2.21	
1910 -	Collected sample CPZ-1R-06122014 from well CPZ-1R.										
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 2.94 BTOC
Depth to Bottom: 61.01

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SPS
Location: Southington, CT
Well ID: CPZ-3

Well Type: (Monitoring) • Other: _____
Well Finish: ~~Stick-Up~~ • Flush Mount
Measuring Pt: • Top of Casing • Other (specify): _____
Total Depth As Constructed (ftbgs): 24.51' **Screened Interval (ftbgs):** 9.2'-24.2'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1040
Weather Conditions: Cloudy / Humid / 66°F
Depth to groundwater at time of deployment: 8.93'
Total well depth at time of deployment: 25.51'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 10.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 17'

Retrieval

Date and Time of Retrieval: Date: 06/12/14 Time: 0915
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of retrieval: 8.99'
Total well depth at time of retrieval: 25.51'
Downhole Field Parameters Upon Retrieval:
Temp: 13.95 (°C) **ORP:** -66.2 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 6.68 **DO:** 0.82 (mg/L) **Serial #:** 14F100059 / 2135-1412

Notes/Observations:
Turbidity = 13.3 NTU
Conductivity = 4 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Scathington, CT
Well ID: CPZ-3R

Well Type: • Monitoring • Other: _____
Well Finish: • Stick Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify): _____

Total Depth As Constructed (ftbgs): 63.28' **Screened Interval (ftbgs):** 43.2'-63.2'
Well Casing: Diameter: 2.0" Material: PVC
Well Screen: Diameter: 2.0"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1050
Weather Conditions: Cloudy / Humid / 66°F
Depth to groundwater at time of deployment: 6.15'
Total well depth at time of deployment: 67.28'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 53'

Retrieval

Date and Time of Retrieval: Date: 06/12/14 Time: 0950
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of retrieval: 6.32'
Total well depth at time of retrieval: 67.28'
Downhole Field Parameters Upon Retrieval:
Temp: 15.16 (°C) **ORP:** 23.6 (mV) **Water quality meter:** YSI556 / LaMotte 2020 we
pH: 7.54 **DO:** 1.48 (mg/L) **Serial #:** 14F100059 / 21135-1412

Notes/Observations:

Turbidity = 11.30 NTU
Conductivity = 15 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SPSLF
Well Number CPZ-414 Date 6/10/2014
Field Personnel A Gillmor
Sampling Organization ARCADIS
Identify MP mark on pvc

Depth to 8.3 / 23.3 of screen (below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~15.8 'bgs
Purging Device; (pump type) bladder, QED ~15.8' pump intake
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1415					10.75						
~~1410~~	9.35	30PM	200	–	~~10.49~~	02	7.24	-54.1	0.14	46.5	
1420	9.45	↓	150	–	10.51	2	7.13	-62.8	0.06	56.3	iron particles floating in purge water
1425	9.40		100	–	11.16	2	7.05	-66.2	0.04	46.1	
1430	9.40	↓	100	–	11.58	2	7.18	-75.4	0.06	32.9	* DO begins reading negative briefly as passes by.
1435	9.40		100	–	11.24	2	7.21	-82.7	0.07	28.3	
1440	9.40	↓	100	–	11.36	2	7.24	-86.5	0.10	27.3	
1445	9.40	↓	100	–	11.39	2	7.27	-90.6	0.10	26.5	
1450	9.40		100	–	11.35	2	7.29	-92.5	0.08	22.1	
1455	9.40	↓	100	–	11.53	2	7.30	-93.3	0.06	20.4	
1500	9.40	↓	100	–	11.45	2	7.31	-93.4	0.06	22.3	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 9.86
Depth to Bottom: 26.95

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number CP2-414 Date 6/12/2014
Field Personnel Aguilino
Sampling Organization ARCADIS
Identify MP mark on PVC

Depth to 8.3 / 23.3 of screen
(below MP) top bottom PID: 0.0
Pump Intake at (ft. below MP) ~18.5'bmp
Purging Device; (pump type) bladder
Total Volume Purged ~15 L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1505	9.40	30PM	100ml/min	—	11.40	2	7.23	-95.3	0.02	18.6	slight sheen in purge water
1510	9.40	↓	↓	~15L	11.41	2	7.25	-95.6	0.03	18.0	
1515		—	SAMPLE COLLECTED	—							
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.86
Depth to Bottom: 26.95

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: CP2-5

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____
Total Depth As Constructed (ftbgs): 24.86' **Screened Interval (ftbgs):** 9.1'-24.1'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 08/10/14 Time: 1115
Weather Conditions: Cloudy / Humid / 70°F
Depth to groundwater at time of deployment: 16.81'
Total well depth at time of deployment: 26.86'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 19.5'

Retrieval

Date and Time of Retrieval: Date: 08/12/14 Time: 1020
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of retrieval: 16.80'
Total well depth at time of retrieval: 26.86'
Downhole Field Parameters Upon Retrieval:
Temp: 14.24 (°C) **ORP:** 24.9 (mV) **Water quality meter:** YSI 556 / MPS 2020we
pH: 6.52 **DO:** 3.23 (mg/L) **Serial #:** 14F100059 / 21358-1412

Notes/Observations:
Turbidity = 42.5 NTU
Conductivity = 4 us/cm

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: CPZ-5R

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____

Total Depth As Constructed (ftbgs): 62.77' **Screened Interval (ftbgs):** 42'-62'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1105
Weather Conditions: Cloudy / Humid / 71°F
Depth to groundwater at time of deployment: 11.44'
Total well depth at time of deployment: 64.77'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 52'

Retrieval

Date and Time of Retrieval: Date: 06/12/14 Time: 1045
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of retrieval: 11.55'
Total well depth at time of retrieval: 64.77'
Downhole Field Parameters Upon Retrieval:

Temp: 15.81 (°C) **ORP:** 17.2 (mV) **Water quality meter:** YSI 556 / La Motte 2020 we
pH: 8.11 **DO:** 2.31 (mg/L) **Serial #:** 14F100059 / 2135-1412

Notes/Observations:

Turbidity = 9.70 NTU Conductivity = 2 ms/cm	Collected Duplicate Sample for VOCs only (DUP-GW-06122014-#3)

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington, CT
Well ID: CPZ-6D

Well Type: • Monitoring • Other:
Well Finish: • Stick-Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify): /

Total Depth As Constructed (ftbgs): 25.27' **Screened Interval (ftbgs):** 10.2'-25.2'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1205
Weather Conditions: Cloudy / Humid / 70°F
Depth to groundwater at time of deployment: 4.67'
Total well depth at time of deployment: 26.27'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 18'

Retrieval

Date and Time of Retrieval: Date: 06/12/2014 Time: 0805
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of retrieval: 4.70'
Total well depth at time of retrieval: 26.27'
Downhole Field Parameters Upon Retrieval:
Temp: 14.59 (°C) **ORP:** 51.5 (mV) **Water quality meter:** YSI 556 / La Motte 2020 we
pH: 6.80 **DO:** 1.45 (mg/L) **Serial #:** 14F100059 / 2135-1412

Notes/Observations:

Turbidity: 15.0 NTU Conductivity: 4 mS/cm	Collected duplicate for VOCs. (DUP-GW-06122014-#2)

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitor	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SBS
Location: Southington, CT
Well ID: CP2-ER

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____
Total Depth As Constructed (ftbgs): 70.02' **Screened Interval (ftbgs):** 50.1'-70.1'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 1145
Weather Conditions: Cloudy / Humid / 70°F
Depth to groundwater at time of deployment: 5.70'
Total well depth at time of deployment: 72.02'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 60'

Retrieval

Date and Time of Retrieval: Date: 06/12/14 Time: 0840
Total # of days deployed: 2
Weather Conditions: Cloudy / Humid / 68°F
Depth to groundwater at time of retrieval: 5.64'
Total well depth at time of retrieval: 72.07'
Downhole Field Parameters Upon Retrieval:
Temp: 14.83 (°C) **ORP:** -31.0 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 7.03 **DO:** 1.60 (mg/L) **Serial #:** 14F100059 / 2135-1412

Notes/Observations:

Turbidity = 10.13 NTU
Conductivity = 5 us/cm

Collected MS/MSD for VOCs only
(CP2-ER-HS-06122014-MS
CP2-ER-HS-06122014-MSD)

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Scarthington, CT
Well ID: CP2-7

Well Type: (•) Monitoring ( ) Other: _____
Well Finish: (•) Stick Up ( ) Flush Mount
Measuring Pt: (•) Top of Casing ( ) Other (specify): _____

Total Depth As Constructed (ftbgs): 20.84' **Screened Interval (ftbgs):** 3.9' - 23.9'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 06/10/14 Time: 0925
Weather Conditions: Cloudy / Humid / 65°F
Depth to groundwater at time of deployment: 11.44'
Total well depth at time of deployment: 22.84'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

(•) Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
( ) Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 21.9'

Retrieval

Date and Time of Retrieval: Date: 06/12/14 Time: 1315
Total # of days deployed: 2
Weather Conditions: Light Rain / Cool / 68°F
Depth to groundwater at time of retrieval: 11.42'
Total well depth at time of retrieval: 22.84
Downhole Field Parameters Upon Retrieval:
Temp: 15.91 (°C) **ORP:** 248 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 6.61 **DO:** 4.16 (mg/L) **Serial #:** 14F100059 / 2135-1412

Notes/Observations:

Turbidity = 871 NTU
Conductivity = 3 ms/cm

Collected duplicate sample for VOCs only (DUP-GW-06122014-#5)

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRS
Location: Southington CT
Well ID: CP2-7R

Well Type: (Monitoring) • Other: _____
Well Finish: (Stick Up) • Flush Mount
Measuring Pt: (Top of Casing) • Other (specify): _____

Total Depth As Constructed (ftbgs): 60.70' **Screened Interval (ftbgs):** 41' - 61'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 08/11/14 Time: 0950
Weather Conditions: Cloudy / Humid / 65°F
Depth to groundwater at time of deployment: 1.94'
Total well depth at time of deployment: 62.70'
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 44.5

(• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 50'

Retrieval

Date and Time of Retrieval: Date: 08/12/14 Time: 1350
Total # of days deployed: 2
Weather Conditions: Light Rain / Cool / 66°F
Depth to groundwater at time of retrieval: 2.17'
Total well depth at time of retrieval: 62.70'
Downhole Field Parameters Upon Retrieval:
Temp: 16.02 (°C) **ORP:** 20.6 (mV) **Water quality meter:** YSI 556 / LaMotte 2020we
pH: 7.31 **DO:** 1.77 (mg/L) **Serial #:** 14F100059 / 2135 - 1412

Notes/Observations:

Turbidity = 11.6 NTU
Conductivity = 5 ms/cm

Collected MS/MSD for VOCs Only
(CP2-7R-HS-08122014-MS)
(CP2-7R-HS-08122014-MSD)

Field Sampling Technician: Name(s) and Company

Name	Company
Matthew Pingitore	ARCADIS
Rachel Drew	ARCADIS

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number DN3 Date 6-12-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP TOP OF PVC

Depth to 8.8 / 21.8 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~ 15
Purging Device; (pump type) Bladder
Total Volume Purged ~ 2 Gallons

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1300	5.62	25/12	120		15.44	4	6.51	182.8	6.18	18.0	4 CPM
1305	5.65	25/12	120		14.95	4	6.45	193.5	5.10	12.3	
1310	5.65	25/12	120	2	14.86	4	6.44	204.2	4.95	17.2	(Black floaters)
1315	5.65	25/12	120		14.96	4	6.45	206.9	4.92	15.5	
1320	5.65	25/12	120		15.08	4	6.45	214.3	4.86	13.6	
1325	5.65	25/12	120	4	14.90	4	6.45	221.6	4.80	15.6	
1330	5.65	25/12	120		14.85	4	6.45	223.1	4.81	12.2	
1335	5.65	25/12	120		15.02	4	6.45	229.9	4.76	7.17	
1340	5.64	25/12	120	6	14.99	4	6.45	232.7	4.72	7.28	
1345	5.64	25/12	120		15.02	4	6.45	242.3	4.64	6.32	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.60
Depth to Bottom: 23.35

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number DN-3 Date 6-12-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 8.8 / 21.8 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) ~15
Purging Device; (pump type) Bladder
Total Volume Purged ~2 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1350	5.65	25/12	120	8	15.05	4	6.45	243.6	4.65	5.84	
1355	5.65	25/12	120		14.82	4	6.45	250.4	4.64	5.62	
1400	5.65	25/12	120		14.79	4	6.45	251.7	4.62	5.69	
1405	SAMPLED										1405
1410											
1415											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.60
Depth to Bottom: 23.35

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-124C Date 6-12-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 35.91 / 45.9 of screen (below MP) top bottom
Pump Intake at (ft. below MP) ~41
Purging Device; (pump type) Bladder
Total Volume Purged 2½ Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0830	5.95	60/30 PSI	160		11.18	10	6.42	231.9	6.97	73.5	4 CPM
0835	7.00	60/30	160		11.15	5	6.85	155.7	6.70	85.4	
0840	7.05	60/30	75		12.33	5	6.94	134.9	6.41	73.6	3 CPM
0845	7.11	55/25	75		12.22	5	7.07	102.2	6.27	89.1	
0850	7.13	55/25	75		12.33	5	7.08	99.4	6.18	95.4	
0855	7.13	55/25	75		12.32	5	7.10	96.8	6.16	75.7	
0900	7.13	55/25	75		12.20	5	7.13	96.9	6.18	79.0	
0905	7.12	55/25	75		12.39	5	7.17	99.9	6.04	56.9	
0910	7.17	55/25	75		12.37	5	7.17	100.0	6.00	45.1	
0915	7.22	55/25	75		12.68	5	7.17	101.1	5.99	40.3	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.98
Depth to Bottom: 47.45

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-124C Date 10-12-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 35.91 / 45.9 of screen (below MP) top bottom
Pump Intake at (ft. below MP) ~41
Purging Device; (pump type) Bladder
Total Volume Purged 2½ Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0920	7.30	55 ft/25 ft	75		12.59	5	7.18	101.4	6.07	43.2	3 CPM
0925	7.29	55/25	75		12.46	5	7.18	101.8	6.05	33.5	
0930	7.27	55/25	75		12.58	5	7.19	103.9	6.00	39.6	
0935	7.31	55/25	75		12.64	5	7.20	105.3	5.99	30.8	
0940	7.30	55/25	75		12.75	5	7.21	106.0	5.98	30.0	
0945	7.30	55/25	75		12.77	5	7.21	107.3	5.93	27.1	
0950	7.31	55/25	75		12.88	5	7.22	109.3	5.90	27.6	
0955	7.30	55/25	75		12.81	5	7.23	111.2	5.88	23.4	
1000	7.30	55/25	75		12.73	5	7.23	113.2	5.89	21.3	
1005	7.30	55/25	75		12.68	5	7.24	115.5	5.87	20.1	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.98
Depth to Bottom: 47.45

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-124C Date 6-12-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP TOP of PVC

Depth to 35.9 / 45.9 of screen (below MP) top bottom
Pump Intake at (ft. below MP) ~41
Purging Device; (pump type) Bladder
Total Volume Purged 2 1/2 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1010	7.30	55/25	75		12.68	5	7.24	116.9	5.89	18.3	3 CPM
1015	7.30	55/25	75		12.70	5	7.24	117.6	5.84	18.9	
1020	7.31	55/25	75		12.81	5	7.24	121.0	5.82	14.9	
1025	7.30	55/25	75		12.54	5	7.25	124.9	5.84	13.7	
1030	7.31	55/25	75		12.61	5	7.25	125.8	5.86	13.9	
1035	SAMP	LED									1035
1040											
1045											
1050											
1055											
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.98
Depth to Bottom: 47.45

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SESWE
Well Number MW-205B Date 6/12/2024
Field Personnel A Guilmette
Sampling Organization ARCADIS
Identify MP mark, btoc

Depth to 39 / 49 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 41' bgs 43' bmp
Purging Device; (pump type) bladder, QED MP10
Total Volume Purged 9L | 29gal
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0840	5.12	30PM	200	–	10.71	2	6.99	300.7	10.85	2.69	
0845	5.13	↓	150 ml/min	–	10.91	2	7.44	257.2	8.78	2.34	
0850	5.16	↓	↓	–	10.86	2	7.75	247.6	8.18	1.23	
0855	5.16	↓	↓	–	12.35	2	7.61	221.0	8.55	0.96	
0900	5.16	↓	↓	–	10.81	2	7.83	214.6	8.66	0.66	
0905	5.16	↓	↓	–	10.75	2	7.83	217.3	8.65	0.45	
0910	5.16	↓	↓	–	10.72	2	7.84	220.1	8.64	0.19	
0915	5.16	↓	↓	–	10.87	2	7.81	228.2	8.56	0.24	
0920	5.16	↓	↓	–	10.76	2	7.79	228.3	8.63	0.21	
0925	—	↓	150 ml/min	~9L	SAMPLE		CO	LLECTED		—	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.12
Depth to Bottom: ~~44~~ 48.41

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number WM-704D Date 6-12-2014
Field Personnel Bob Morris
Sampling Organization
Identify MP

Depth to 53 / 63 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 58
Purging Device; (pump type) QED
Total Volume Purged 2 gal

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0835	5.0	CPMS	200	1000 mL	11.19	4	7.21	-75.7	.10	5.04	
0840	5.0	"	"	1000 mL	11.02	4	7.24	-82.3	.04	4.71	
0845	5.0	"	"	1000 mL	11.07	4	7.27	-85.2	.02	3.90	
0850	5.0			1000 mL	11.03	4	7.25	-89.8	.02	4.12	
											Sample Time
											0850
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.0
Depth to Bottom: 60.8

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW 704M Date 06/12/2014
Field Personnel Sean Hutchins
Sampling Organization GTM INC
Identify MP

Depth to 37 / 47 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 42
Purging Device; (pump type) Peristaltic
Total Volume Purged 3.6
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0910	7.0		200 ml/min		11.94	5	7.08	92.4	0.41	0.91	
0915	7.0		150 ml/min		12.13	5	7.36	35.3	0.28	0.92	
0920	7.1		150		12.63	5	7.61	-4.2	0.28	2.05	
0925	6.9		150		14.70	6	7.77	-37.2	0.36	1.41	
0930	6.9		150		14.04	5	7.92	-60.4	0.55	1.11	
0935	7.1		150		12.02	5	7.96	-69.4	0.41	0.45	
0940	7.1		150		12.12	5	7.93	-74.0	0.35	0.11	
0945	7.1		150		12.23	5	7.88	-77.1	0.26	0.03	
0950	7.1		150		12.37	5	7.90	-80.7	0.36	0.08	
0955	7.1		150		12.29	5	7.95	-85.5	0.27	0.06	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.0
Depth to Bottom: 47.6

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW 704M Date 06/12/2014
Field Personnel Sean Hutchins
Sampling Organization O&M Inc
Identify MP

Depth to 37 / 47 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 42
Purging Device; (pump type) Peristaltic
Total Volume Purged 3.6

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1000	7.1	~~150~~	150		12.10	5	7.96	-87.7	0.34	0.28	
1005	7.1		150		11.77	5	7.94	-85.9	0.32	0.53	
1010	7.1		150		11.84	5	7.96	-86.8	0.32	0.31	
1015			SAMPLES COLLECTED								
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 7.0
Depth to Bottom: 47.6

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington, CT
Well ID: MW-5706DR

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick-Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): PVC w/guard
Total Depth As Constructed (ftbgs): 126.5 **Screened Interval (ftbgs):** 116.5
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 1030
Weather Conditions: 70° Humid Sunny
Depth to groundwater at time of deployment: 2.57'
Total well depth at time of deployment: 130.65
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 118.0

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 08:30
Total # of days deployed: 2
Weather Conditions: 65° Cloudy
Depth to groundwater at time of retrieval: 1.37
Total well depth at time of retrieval: 130.65
Downhole Field Parameters Upon Retrieval: Turb: 34.1 Cond: 42
Temp: 13.80 (°C) **ORP:** 437.2 (mV) **Water quality meter:** YSI 556 MPS
pH: 2.95 **DO:** 3.09 (mg/L) **Serial #:** 14F100062

Notes/Observations:
0.0 PID (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

3.26 GALLONS = 12.6 L
12,600 ml

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 710DR Date 6/12/14
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 186.5 / 206.5 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 196.5
Purging Device; (pump type) BLADDER
Total Volume Purged
PID: —

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
9:00	13.3	40Hz 9.6	100	500	12.98	66	6.69	141.7	4.12	2.64	
9:05	14.28			1000	12.62	111	7.05	68.1	2.38	18.8	
9:10	15.00			1500	12.63	134	7.43	7.1	1.12	27.4	
9:15	15.89			2000	12.62	138	7.61	-27.1	0.70	29.8	
9:20	16.59			2500	12.60	138	7.69	-42.8	0.56	29.1	
9:30	17.41			3000	12.61	136	7.70	-49.3	0.47	21.2	
9:40	18.30			3.500	12.59	135	7.72	-52.2	0.40	19.0	
9:40	19.31			4000	12.68	133	7.72	-55.1	0.35	18.9	
9:45	19.90			4500	12.74	131	7.73	-58.9	0.33	20.5	
9:50	20.90	↓	↓	5000	12.69	129	7.74	-61.5	0.31	20.4	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 12.3
Depth to Bottom: 204.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 710DR Date 6/12/14
Field Personnel MATT GRUBB
Sampling Organization OTM
Identify MP

Depth to 186.5 204.5 of screen
(below MP) top bottom
PID:
Pump Intake at (ft. below MP) 196.5
Purging Device; (pump type) BLADDER
Total Volume Purged

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
9:55	22.2	CPM4 9.6	100	5500	12.67	124	7.79	-66.7	0.29	23.4	
10:00	23.0			6000	12.56	102	7.92	-72.9	0.25	29.6	
10:05	23.71			6500	12.62	94	8.00	-77.7	0.23	21.7	
10:10	24.70			7000	12.60	88	8.02	-83.7	0.22	16.4	
10:15	25.76			7500	12.71	81	7.95	-90.2	0.19	15.9	
10:20	26.05			8000	12.62	77	7.92	-94.6	0.18	13.5	
10:25	26.90			8500	12.67	73	7.85	-98.8	0.17	11.4	
10:30	27.50			9000	12.69	71	7.79	-100.6	0.17	13.8	
10:35	28.40			9500	12.65	70	7.77	-100.2	0.15	12.7	
10:40	29.25	↓	↓	10,000	12.69	69	7.76	-100.6	0.14	13.0	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 12.3
Depth to Bottom: 204.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 710DR Date 6/12/14
Field Personnel MATT CRUSE
Sampling Organization O+M
Identify MP

Depth to 186.5 / 206.5 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 196.5
Purging Device; (pump type) BLADDER
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
10:45	30.05	60Hz 9.6	100	10,500	12.71	69	7.75	-102.9	0.13	11.83	
10:50	30.80			11,000	12.81	69	7.75	-101.6	0.13	11.98	
10:55	31.50			11,500	12.84	69	7.75	-99.4	0.12	11.40	
11:00	32.30			12,000	12.81	69	7.75	-100.7	0.12	13.5	
11:05	33.00			12,500	12.72	69	7.76	-107.7	0.11	11.5	12,600 ml = 12.6 L APPROX 3.3L GALLONS
11:10	33.76			13,000	12.80	70	7.76	-109.5	0.10	13.9	
11:15	34.50			13,500	12.78	69	7.75	-111.3	0.10	11.7	
11:20	35.20	↓	↓	14,000	12.76	69	7.74	-113.6	0.10	11.73	SAMPLE TIME: 11:20
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 12.3
Depth to Bottom: 204.15

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number 710R Date 6/12/14
Field Personnel Pete Burton
Sampling Organization Ed On Enc
Identify MP

Depth to 133.5 1435 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 138.5
Purging Device; (pump type) Bladder
Total Volume Purged

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0910	16.46	110/50	40	300	17.23	12	6.26	83.8	7.75	305	NO LOCK
0915	16.46	105/45	50	450	17.15	11	6.77	71.4	4.21	4.80	
0920	16.55	105/45	50	700	16.72	10	7.17	97.9	3.68	12.5	
0925	16.55	105/45	50	950	16.61	10	7.34	110.9	2.78	22.4	
0930	16.55	105/45	50	1200	16.58	10	7.42	112.6	2.28	21.0	
0935	16.55	105/45	50	1450	16.51	10	7.49	114.1	1.87	23.2	
0940	16.55	105/45	50	1750	16.77	10	7.52	115.1	1.58	24.1	
~~0945~~	16.55	105/45	50	2000	17.06	10	7.55	1158	1.42	25.8	
~~0950~~ 1000	16.55	105/45	50	2250	17.12	10	7.57	116.6	1.37	25.4	
~~0955~~ 1005	16.55	105/45	50	2500	17.11	10	7.59	118.1	1.28	26.9	Sample
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 16.15
Depth to Bottom: 142.86

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: Southington CT
Location: SPSNE J
Well ID: MW-902 D

Well Type: • Monitoring • Other:
Well Finish: • Stick Up • Flush Mount
Measuring Pt: • Top of Casing • Other (specify): STEEL w/ mark
Total Depth As Constructed (ftbgs): 24.0 **Screened Interval (ftbgs):** 19.0
Well Casing: Diameter: 2" Material: STEEL
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0800
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 9.30
Total well depth at time of deployment: 21.44
Dimensions of HydraSleeve™: Length (in.) 37" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.2

• Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 16.5

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 1345
Total # of days deployed: 2
Weather Conditions: 70° Drizzle
Depth to groundwater at time of retrieval: 9.43
Total well depth at time of retrieval: 21.44
Downhole Field Parameters Upon Retrieval: Turb: 9.91 Cond: 8
Temp: 15.30 (°C) **ORP:** -122.0 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.54 **DO:** 1.6 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm (retrieval)
Dup. # 7 AIK, TOC, & DG

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-902M

Well Type: (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): SS
Total Depth As Constructed (ftbgs): 17.5 **Screened Interval (ftbgs):** 12.5
Well Casing: Diameter: 2" Material: SS
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0815
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 8.66
Total well depth at time of deployment: 26.03
Dimensions of HydraSleeve™: Length (in.) 37" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• (Top-Down) Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 21.5

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 1420
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 8.71
Total well depth at time of retrieval: 26.03
Downhole Field Parameters Upon Retrieval: Turb: 8.45 Cond: 11
Temp: 14.45 (°C) **ORP:** -118.3 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.66 **DO:** 1.00 (mg/L) **Serial #:** 14F100662

Notes/Observations:

Dup #8 for MNA
PID: 0.0 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number MW-904S Date 6-12-2014
Field Personnel Bob Morris
Sampling Organization Geo
Identify MP

Depth to 5 / 15 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 10
Purging Device; (pump type) QED
Total Volume Purged 1.25 gal

PID: 2.9 ppm

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1445	8.2	CPM6 1.0	175		13.98	9	6.56	-10.9	.34	3.12	
1450	8.2	"	"		13.80	10	6.56	-48.4	.26	2.56	
1455	8.2	"	"		13.76	10	6.56	-50.0	.26	1.59	
1500	8.2	"	"		13.91	10	6.56	-50.4	.44	2.20	
1505	8.2	"	"		14.19	10	6.56	-47.1	.72	1.71	
1510	8.3	"	"		14.84	10	6.56	-45.9	1.02	1.29	
1515	8.3	"	"		15.00	10	6.56	-44.9	1.03	1.38	
1520	8.3	"	"		15.01	10	6.56	-43.0	1.04	1.32	
											SAMPLE TIME
											1530
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 8.2
Depth to Bottom: 18.4

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MWL-307

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 11.0 **Screened Interval (ftbgs):** 1-0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0744
Weather Conditions: 68° Humid, cloudy
Depth to groundwater at time of deployment: 3.67
Total well depth at time of deployment: 12.68
Dimensions of HydraSleeve™: Length (in.) 22" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 1.2
• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.
Deployment Depth (Top of HydraSleeve™) (ftbgs): 5.0

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 1110
Total # of days deployed: 2
Weather Conditions: 70° cloudy
Depth to groundwater at time of retrieval: 3.80
Total well depth at time of retrieval: 12.68
Downhole Field Parameters Upon Retrieval: Turb: 10.07 Cond: 12
Temp: 15.88 (°C) **ORP:** -21.9 (mV) **Water quality meter:** YSI 556 MPS
pH: 5.99 **DO:** 1.49 (mg/L) **Serial #:** 14F100062

Notes/Observations:
PID: 4.1 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MWL 4/6

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 49.4 **Screened Interval (ftbgs):** 39.4
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0750
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 7.91
Total well depth at time of deployment: 49.66
Dimensions of HydraSleeve™: Length (in.) 37" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 37.0

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 1320
Total # of days deployed: 2.
Weather Conditions: 70° Drizzle
Depth to groundwater at time of retrieval: 8.06
Total well depth at time of retrieval: 49.66
Downhole Field Parameters Upon Retrieval: Turb: 6.94 Cond: 7
Temp: 14.55 (°C) **ORP:** 1.61 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.56 **DO:** -75.8 (mg/L) **Serial #:** 14F100062

Notes/Observations:
PID: 0.0 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SESNE
Location: Southington, CT
Well ID: P-101-A

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify)): PVC w/mark
Total Depth As Constructed (ftbgs): 96.0 **Screened Interval (ftbgs):** 66.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 1016
Weather Conditions: 70° Humid, Cloudy
Depth to groundwater at time of deployment: 1.82
Total well depth at time of deployment: 98.49
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 0.0

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 81.0

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 0845
Total # of days deployed: 2
Weather Conditions: 65° Cloudy
Depth to groundwater at time of retrieval: 1.91
Total well depth at time of retrieval: 98.49
Downhole Field Parameters Upon Retrieval: Turb: 73.6 Cond: 7
Temp: 13.74 (°C) **ORP:** 85.0 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.40 **DO:** 5.13 (mg/L) **Serial #:** 14F1000 62

Notes/Observations:
PID: 0.0 ppm - retrieval

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	Ox-in Inc.
Marcia Mackenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SLS
Well Number P-101B Date 6-12-2014
Field Personnel Bob Morris
Sampling Organization Dem
Identify MP

Depth to 34 / 44 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 39
Purging Device; (pump type) QED
Total Volume Purged 1.75 gal

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1140	2.0	CPM4	200mL		12.56	5	7.63	-69.2	.92	13.5	
1145	2.0	CPM5	200 mL		12.86	5	7.63	-81.2	.55	14.7	
1150	2.0	"	"		12.34	5	7.63	-87.5	.41	15.1	
1155	2.0	"	"		12.49	5	7.63	-92.1	.32	13.0	
1200	2.0	"	"		12.81	5	7.63	-95.1	.28	10.15	
1205	2.0	"	"		12.48	5	7.62	-97.2	.21	10.31	
1210	2.0	"	"		11.88	5	7.62	-99.8	.20	10.48	
1215	2.0	"	"		11.85	5	7.62	-100.3	.20	9.97	
1220	2.1	"	"		11.88	5	7.62	-105.9	.19	9.84	
											SAMPLE TIME 1225
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 2.0
Depth to Bottom: 46.4

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number # 101C Date 6/12/2014
Field Personnel Sean Hutchins
Sampling Organization O'M Env
Identify MP

Depth to 3 / 13 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 8
Purging Device; (pump type) QED Micro Purge
Total Volume Purged 1.5 G
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1140	3.6	6 GPM	150 ml/m		11.09	5	7.86	93.4	0.45	8.60	
1145	3.6	6 cpm	150		10.68	5	7.95	40.2	0.34	11.7	
1150	3.6	6 cpm	125		10.87	5	8.08	6.1	0.28	17.0	
1155	3.6	6 cpm	125		10.87	5	8.14	-16.2	0.22	11.2	
1200	4.0	6 cpm	125		10.96	6	8.13	-30.5	0.22	10.0	
1205	4.6	6 cpm	125		11.04	6	8.12	-37.0	0.22	9.38	
1210	4.6	6 cpm	125		11.05	6	8.12	-44.7	0.23	9.59	
1215	4.6	6 cpm	125		11.10	6	8.11	-49.7	0.23	8.14	
1220	4.6	6 cpm	125		11.05	6	8.11	-52.7	0.22	7.86	
1225		SAMPLES	COLLECTED								
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.6
Depth to Bottom: 15.0

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: P-102D/B

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 39.0 **Screened Interval (ftbgs):** 29.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0952
Weather Conditions: 70° Cloudy, Humid
Depth to groundwater at time of deployment: 2.21
Total well depth at time of deployment: 41.53
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.0

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 33.5

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 0910
Total # of days deployed: 2
Weather Conditions: 65°
Depth to groundwater at time of retrieval: 2.25
Total well depth at time of retrieval: 41.53
Downhole Field Parameters Upon Retrieval: Turb: 30.4 Cond: 3
Temp: 12.80 (°C) **ORP:** 27.1 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.01 **DO:** 4.76 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm - retrieval 0.0 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Maccy Mackenzie	Arcadis

3.03
1/16/14

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: P20-204M

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): PVC w/ Mark
Total Depth As Constructed (ftbgs): 55.7 **Screened Interval (ftbgs):** 45.7
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0916
Weather Conditions: 70° Cloudy, Humid
Depth to groundwater at time of deployment: 4.10
Total well depth at time of deployment: 57.34
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 0.5

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.)
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 50.0

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 10:30
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 4.20
Total well depth at time of retrieval: 57.34
Downhole Field Parameters Upon Retrieval: Turb: 37.1 Cond: 8
Temp: 13.41 (°C) **ORP:** -100.3 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.42 **DO:** 1.40 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 0.0 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	D&M Inc
Marcia Mackenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: P20-J2M

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC w/ mark
Total Depth As Constructed (ftbgs): 56.0 **Screened Interval (ftbgs):** 46.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0900
Weather Conditions: 70° Humid, Cloudy
Depth to groundwater at time of deployment: 7.55
Total well depth at time of deployment: 58.85
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 5.2

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 51.5

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 09:50
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 7.61
Total well depth at time of retrieval: 58.85
Downhole Field Parameters Upon Retrieval: Turb: 4.81 Cond: 3
Temp: 13.69 (°C) **ORP:** -0.5 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.77 **DO:** 1.18 (mg/L) **Serial #:** 14F1000 62

Notes/Observations:

PID: 0.0 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O+M INC
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number PZR-2DR Date 6/12/12
Field Personnel Pete Bolan
Sampling Organization O & M Env
Identify MP

Depth to 1840 / 2040 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 1941.0
Purging Device; (pump type) Bladder
Total Volume Purged 115
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
~~1450~~ 1450	9.70	10 dso	100	500	14.22	22	7.48	-118.4	3.96	28.0	
1455	9.11	10/5	100	1000	13.19	21	7.52	-141.9	1.38	34.5	
1500	9.70	10/5	100	1500	12.77	53	7.58	-141.4	0.82	23	
1505	10.11	10/5	100	2000	12.59	66	7.70	-126.0	0.65	52	
1510	10.50	10/5	100	2500	12.70	69	7.70	-118.4	0.55	96	cloudy & Pinkish in color
1515	10.91	10/5	100	3000	12.78	68	7.76	-117.0	0.48	612	clear color
1520	11.15	10/5	100	3500	12.77	66	7.79	-136.0	0.69	119	
1525	11.48	10/5	100	4000	12.57	65	7.80	-153.4	0.32	92	
1530	11.70	10/5	100	4500	12.57	63	7.83	-156.7	0.26	56	
1535	11.91	10/5	100	5000	12.45	60	7.82	-161.5	0.21	33	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.97
Depth to Bottom: 20.25

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number PZR-2PR Date 6/12/14
Field Personnel Pete Bsten
Sampling Organization CH2M Hill
Identify MP

Depth to 184.0 / 204.0 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 194.0
Purging Device; (pump type) Bladder
Total Volume Purged

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1540	12.12	10/5	100	5500	12.55	57	7.83	-165.9	0.21	26	
1545	12.30	10/5	100	6000	12.93	53	7.89	-170.9	0.22	15	
1550	12.45	10/5	100	6500	12.76	49	7.91	-175.5	0.29	16	
1555	12.51	10/5	100	7000	12.85	47	7.93	-179.5	0.26	3	
1600	12.62	10/5	100	7500	12.75	44	7.95	-183.7	0.25	7.7	
1605	12.71	10/5	100	8000	12.98	42	7.96	-135.0	0.24	27	
1610	12.83	10/5	100	8500	12.69	38	8.02	-190.5	0.23	40	
1615	12.94	10/5	100	9000	12.43	35	8.05	-195.9	0.22	35	
1620	13.01	10/5	100	9500	12.38	33	8.05	-199.7	0.22	20	
1625	13.13	10/5	100	10000	12.66	32	8.09	-202.9	0.23	62.5	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water:

Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number PZR-2D Date (6/12/14
Field Personnel Rob Bilton
Sampling Organization GeoMatrix
Identify MP

Depth to 1840/2040 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 1940
Purging Device; (pump type) Bladder
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1630	13.21	10/5	100	10500	12.40	30	8.09	-206.8	0.20	51.9	
1635	13.31	10/5	100	11000	12.27	29	8.10	-209.7	0.19	46.7	
1640	13.38	10/5	100	11500	12.33	29	8.11	-211.9	0.17	48.0	sampled
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water:
Depth to Bottom:

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZR-4DR Date 6/12/14
Field Personnel Christopher Fuerst
Sampling Organization O&M Inc
Identify MP TOC

Depth to 135 / 155 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 148'
Purging Device; (pump type) Bladder Pump
Total Volume Purged 2.5
PID: 0.6

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0900	0.52	—	100	—	—	—	—	—	—	—	
0905	1.40	—	100	500	12.03	38	4.90	-79.9	1.59	1.61	CPM2
0910	2.35	—	100	1000	11.98	38	6.99	-120.5	1.01	4.49	Discharge Rate 4.0
0915	2.87	—	100	1500	11.89	38	7.88	-77.2	0.86	3.98	PSI 89
0920	3.25	—	100	2000	11.73	38	8.28	-75.9	0.99	3.14	Water level falls 0.52
0925	3.20	—	100	2500	11.87	38	8.29	-37.0	1.00	1.68	feet down. Overflow
0930	3.60	—	100	3000	11.89	38	8.34	-36.5	1.25	2.26	tubing. Pump Working
0935	3.70	—	100	4000	11.66	38	8.53	-51.9	1.68	2.69	
0940	4.00	—	1000	4500	11.55	38	8.60	-93.7	2.08	1.82	
0945	4.75	—	100	5000	11.48	38	8.65	-84.1	2.01	1.90	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 0.52
Depth to Bottom: 157.31' TOC

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS SuperFund Site
Well Number PZR 4DR Date 06/12/2014
Field Personnel Christopher Fuerst
Sampling Organization DMTEC
Identify MP TOC

Depth to 135 / 155 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 148'
Purging Device; (pump type) Bladder pump
Total Volume Purged 2.5
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
~~0915~~	~~5.52~~	-									
0950	5.50	—	100	5500	11.36	37	8.68	86.5	2.28	2.00	
0955	5.70	—	100	6060	11.04	37	8.71	55.0	2.42	1.98	
1000	6.38	—	100	6500	10.89	37	8.72	34.0	2.65	2.01	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 0.52
Depth to Bottom: 157.31

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZR-4R Date 6-12-14
Field Personnel D. Garrigan / C. Forest
Sampling Organization Otm
Identify MP TOC

Depth to 69.7 / 89.7 of screen 20' Screen
(below MP) top bottom PID: 0.00
Pump Intake at (ft. below MP) 91.7' BTOC
Purging Device; (pump type) Bladder Pump
Total Volume Purged 3.0 gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0855	6.21	*	100	0	—	—	—	—	—	—	60 PSI 2 cpm, 4 Discharge
0900	6.23	*	100	500	10.90	7	5.89	127.4	5.65	7.31	
0905	6.24	*	100	1000	10.76	6	6.59	127.9	5.38	5.23	
0910	6.24	*	100	1500	10.75	6	6.95	133.0	4.88	4.29	(7)
0915	6.24	*	100	2000	10.69	6	7.10	135.2	3.76	4.32	Increased Flow 60 PSI 4 cpm, 4 sec discharge
0920	6.26	(1)	200	3000	9.82	6	7.22	137.2	3.34	3.36	
0925	6.27	(1)	200	4000	9.87	6	7.31	138.0	3.75	4.63	Flow Check 200 mL/min
0930	6.28	(1)	200	5000	9.79	6	7.31	140.6	4.41	4.31	
0935	6.28	(1)	200	6000	9.95	6	7.30	145.2	5.28	4.34	
0940	6.28	(1)	200	7000	9.90	5	7.28	151.4	5.61	4.87	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.20' BTOC
Depth to Bottom: 91.71' BTOC

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number PZR-9R Date 6-12-14
Field Personnel D. Garrigan / C. Fuengt
Sampling Organization Ostm, Inc
Identify MP TOC

Depth to 69.7 / 89.7 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 81.7'
Purging Device; (pump type) Bladder Pump
Total Volume Purged 3.0 gallons
PID: 0.00

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0945	6.29	(1)	200	8000	10.05	5	7.26	154.6	5.88	5.60	(1) See Page 1
0950	6.27	(1)	200	9000	9.92	5	7.24	156.3	5.98	6.51	Flow Check 200 mL/min
0955	6.27	(1)	200	10,000	9.85	5	7.23	159.3	6.17	8.13	
1000	6.30	(1)	200	11,000	9.93	5	7.23	160.8	6.18	7.57	
1005	6.27	(1)	200	12,000	9.93	5	7.22	161.4	6.19	8.93	
1015 -	Collected sample PZR-9R-06122014 from well PZR-9R. Duplicate Sample										
	DUP-GW-06122014-01 Collected this location.										
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.20' BTOC
Depth to Bottom: 91.71' BTOC

Comments: Good well!
200 mL/min.
Low Turbidity

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSME
Well Number PZR-5R Date 6/12/2014
Field Personnel RGuillmor
Sampling Organization ARCADIS
Identify MP BTC

Depth to 53 / 73 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) 63' bgs, 65' bmp
Purging Device; (pump type) bladder
Total Volume Purged ~8L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
10:00	4.68	30PM	125	-	12.09	10	8.15	146.3	4.36	5.01	
1105	5.53	↓	75	-	12.16	10	8.19	124.6	0.56	5.85	
1110	6.03		75ml/min	-	12.06	10	8.16	111.9	0.52	6.38	
1115	6.41			-	11.85	10	8.15	106.3	0.49	5.54	
1120	6.78			-	11.77	10	8.13	99.8	0.44	4.15	
1125	6.95			-	11.75	10	8.18	98.1	0.41	4.68	
1130	7.21			-	11.81	10	8.18	100.8	0.36	5.16	
1135	7.38			-	11.61	10	8.18	101.2	0.36	4.72	
1140	7.51			-	11.61	10	8.18	101.9	0.35	4.32	
1145	7.71	↓	↓	~8L	11.50	10	8.17	102.6	0.34	4.85	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.28
Depth to Bottom: 75.35

Comments: ST 1150

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number SRS-1 Date 06/12/2014
Field Personnel Sean Hutchins
Sampling Organization O&M Inc
Identify MP

Depth to 17 / 22 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 19.5
Purging Device; (pump type) QED
Total Volume Purged 5000 ml

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1530	7.3	5 CPM	100ml	1500ml	11.70	4	6.85	216.9	9.94	20	
1535	7.3	5cpm	100ml	2000ml	12.17	4	6.85	214.1	9.84	26	
1540	7.3	5cpm	100ml	2500ml	11.69	4	6.87	210.3	9.79	24	
1545	7.3	5cpm	100ml	3000ml	11:53	4	6.88	206.7	9.83	108.7	
1550	7.3	5cpm	100ml	3500ml	11.57	4	6.88	204.3	9.75	109.0	
1555	7.3	5cpm	100ml	4000ml	11.63	4	6.89	202.2	9.77	94.5	
1600	7.3	5cpm	100ml	4500 ml	11.54	4	6.90	199.2	9.74	86.3	
1605	7.3	5cpm	100ml	5000 ml	11.58	4	6.90	198.0	9.59	86.8	
1610		SAMPLES	COLLECTED								
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.9
Depth to Bottom: 21.6

Comments:

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: TW-08A

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): STEEL w/mark
Total Depth As Constructed (ftbgs): 14.0 **Screened Interval (ftbgs):** 4.0
Well Casing: Diameter: 2" Material: STEEL
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1420
Weather Conditions: 70° Rain
Depth to groundwater at time of deployment: 5.34
Total well depth at time of deployment: 14.33
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:
PID (ppm): 4.5

• (Top-Down: Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 7.0

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 1450
Total # of days deployed: 3
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 5.58
Total well depth at time of retrieval: 14.33
Downhole Field Parameters Upon Retrieval: Turb: 59.3 Cond: 12
Temp: 17.15 (°C) **ORP:** -114.0 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.52 **DO:** 1.82 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 7.1 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Mahon	O&M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: TW-08B

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick-Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): STEEL w/mark
Total Depth As Constructed (ftbgs): 31.5 **Screened Interval (ftbgs):** 21.5
Well Casing: Diameter: 2" Material: STEEL
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1430
Weather Conditions: 70° Rain
Depth to groundwater at time of deployment: 5.44
Total well depth at time of deployment: 28.37
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 20.3

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 1500
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 5.68
Total well depth at time of retrieval: 28.37
Downhole Field Parameters Upon Retrieval: Turb: 827.0 Cond: 19
Temp: 16.95 (°C) **ORP:** -110.2 (mV) **Water quality meter:** YSI 556 MPS
pH: 7.00 **DO:** 2.02 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 60.7 ppm
: 56.4 ppm

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Marcia MacKenzie	Arcadis

ARCADIS

Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: EW-ORU ID

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick-Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): STEEL - Top
Total Depth As Constructed (ftbgs): 22.0 **Screened Interval (ftbgs):** 17.0
Well Casing: Diameter: 2" Material: STEEL
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1436
Weather Conditions: 70° Rain.
Depth to groundwater at time of deployment: 4.92
Total well depth at time of deployment: 25.86
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 20.5

Retrieval

Date and Time of Retrieval: Date: 6-12-14 Time: 15:10
Total # of days deployed: 2
Weather Conditions: 70° Cloudy
Depth to groundwater at time of retrieval: 5.15
Total well depth at time of retrieval: 25.86
Downhole Field Parameters Upon Retrieval: Turb: 16.8 Cond: 12
Temp: 17.28 (°C) **ORP:** -122.0 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.59 **DO:** 1.37 (mg/L) **Serial #:** ~~EXP~~ 14F100062

Notes/Observations:

PID: ~~Start~~ Ppm Retrieval: 1.9
35.0 PPM

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O&M Inc.
Mascra Mackenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number CPZ-24A Date 6/13/14
Field Personnel Pete B. Aier / Matt Crumbb
Sampling Organization CDM
Identify MP

Depth to 7.3 / 223 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 148
Purging Device; (pump type) Bladder
Total Volume Purged

PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0840	4.32	12/3	125	625	13.89	4	6.32	215.7	1.38	40.7	
0845	4.32	12/3	125	1250	13.97	4	6.38	226.3	1.20	26.6	
0850	4.32	12/3	125	1875	14.00	4	6.41	225.8	1.32	20.9	
0855	4.32	12/3	125	2500	14.87	4	6.42	242.6	0.95	18.5	
0900	4.32	12/3	125	3125	15.47	4	6.44	246.0	0.93	13.9	
0905	4.32	12/3	125	3750	15.58	4	6.45	250.6	0.92	13.7	
0910	4.32	12/3	125	4375	15.72	4	6.46	253.1	0.90	12.8	sample
0915	4.32	12/3	125	5000							
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 4.10
Depth to Bottom: 24.6'

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number CPZ-2R Date 6-13-2014
Field Personnel Bob Morris
Sampling Organization Arm
Identify MP

Depth to 40.1 / 60.1 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 50
Purging Device; (pump type) QED
Total Volume Purged 1.25 gal

PID: 0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0855	2.8	CPMS 2-4	100		13.05	7	7.10	107.2	2.81	5.07	
0900	3.5	"	"		12.89	6	7.23	110.1	2.81	10.17	
0905	4.5	"	"		13.21	6	7.27	118.1	2.74	6.94	
0910	4.6	"	"		13.63	6	7.28	121.4	2.73	6.60	
0915	4.9	"	"		13.80	6	7.29	125.0	2.73	8.01	
0920	4.9	"	"		13.79	6	7.30	127.6	2.76	9.19	
0925	5.0	"	"		13.91	6	7.31	129.8	2.72	8.97	
											SAMPLE TIME
											0940
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 1.8
Depth to Bottom: 63.6

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number CPT-8 Date 06-13-2014
Field Personnel Christopher Fuesy
Sampling Organization O&M Inc
Identify MP TOC

Depth to 10.5 / 20.5 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 19.5'
Purging Device; (pump type) Bladder Pump
Total Volume Purged
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0845	6.06	—	50	0	—	—	—	—	—	—	
0850	6.06	—	~~150~~ 250	250	15.50	6	6.21	12.3	1.62	38.7	18 psi
0855	6.10	—	50	500	16.20	6	6.30	8-6.3	1.44	27.7	CPM3 / Discharge 9.0
0900	6.07	—	50	750	13.58	5	6.41	-36.8	0.66	17.3	ORP would not stop changing....
0905	6.10	—	50	1000	14.26	5	6.42	-17.3	0.52	14.0	
0910	6.09	—	50	1250	14.96	6	6.46	-17.2	0.54	14.0	
0915	6.10	—	50	1500	15.38	6	6.48	-23.4	0.53	12.2	
0920	6.10	—	50	1750	15.69	6	6.50	-11.7	0.57	12.6	
0925	6.10	—	50	2000	15.63	6	6.53	-41.6	0.57	13.1	
0930	6.10	—	50	2250	15.32	6	6.53	-56.7	0.54	12.9	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.57'
Depth to Bottom: 23.48'

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number CPZ-8 Date 06/12/2017
Field Personnel
Sampling Organization
Identify MP TOC

Depth to 10.5 / 20.5 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 19.51
Purging Device; (pump type) Bladder Pump
Total Volume Purged
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0935	6.10	—	50	2500	15.36	6	6.56	-60.5	0.49	12.7	
0940	6.10	—	50	2750	15.30	6	6.57	-61.0	0.45	11.9	*Changed: PSI-20
0950	6.09	—	100	3250	13.33	5	6.59	-65.4	0.47	11.9	CPM 3 / Discharge 4.0
0955	6.10	—	100	3750	12.21	5	6.59	-65.5	0.53	9.83	100mL/Min
1000	6.10	—	100	4250	11.85	5	6.60	-67.4	0.44	7.69	ORP Finally
1005	6.10	—	100	4750	11.75	5	6.63	-69.8	0.43	7.71	Stabalized.....
1010	6.10	—	100	5250	11.74	5	6.65	-71.0	0.45	7.23	
1015	6.10	—	100	5750	11.76	5	6.66	-74.3	0.45	7.11	
1020	6.10	—	100	6250	11.75	5	6.66	-74.8	0.44	6.98	
1025	6.10	—	100	6750	11.74	5	6.66	-75.5	0.45	6.97	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.57
Depth to Bottom: 23.48

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-121M Date 6-13-14
Field Personnel Diane Cimmpagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 21 / 31 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 26
Purging Device; (pump type) Bladder Pump
Total Volume Purged ~5 Gallons
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
815	6.60	60/30	200		12.25	8	6.67	75.4	0.72	142	4 CPM (Muddy)
820	6.71	60/30	200		12.15	8	6.89	0.7	0.25	72.9	
825	6.80	60/30	200		12.08	8	6.97	-22.2	0.23	54.5	
830	6.71	60/30	200		12.01	8	7.03	-42.3	0.10	25.8	
835	6.73	60/30	200		12.20	8	7.06	-58.4	0.07	29.1	
840	6.80	60/30	200		12.00	8	7.10	-67.8	0.03	13.7	
845	6.71	60/30	200		12.63	8	7.12	-75.1	0.04	12.9	
850	6.68	60/30	200		12.52	9	7.17	-81.2	0.03	12.7	
855	6.67	60/30	190		12.32	8	7.19	-86.2	0.04	4.43	CPM 3
900	6.65	60/30	190		12.40	8	7.20	-88.2	0.04	4.04	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.02
Depth to Bottom: 33.0
Very soft bottom

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-121M Date 6-13-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 21 / 31 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 26
Purging Device; (pump type) Bladder
Total Volume Purged ~5 Gallons

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
905	6.61	60/30	190		12.32	8	7.22	-92.9	0.12	3.62	3 GPM
910	6.61	60/30	190		12.24	8	7.23	-93.4	0.15	3.18	
915	6.60	60/30	190		12.40	8	7.23	-94.7	0.08	2.72	
920	6.60	60/30	190		12.25	8	7.23	-96.5	0.06	2.33	
925	6.61	60/30	190		12.53	8	7.24	-98.2	0.05	2.09	
930	6.63	60/30	190		12.29	8	7.24	-98.8	0.02	1.90	
935	6.61	60/30	190		12.67	9	7.24	-99.4	0.03	1.89	
940	6.60	60/30	190		12.32	8	7.25	-101.0	0.03	1.65	
945	6.60	60/30	190		12.50	9	7.25	-101.2	0.00	1.29	
950	6.61	60/30	190		12.35	8	7.25	-102.1	0.00	0.21	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.02
Depth to Bottom: 33.0

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-121M Date 6-13-14
Field Personnel Diane Champagne
Sampling Organization Arcadis
Identify MP Top of PVC

Depth to 21 / 31 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 26
Purging Device; (pump type) Bladder
Total Volume Purged ~5 Gallons

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0955	6.60	60/30	190		12.57	8	7.28	-103.3	0.00	0.57	3 CPM
1000	6.61	60/30	190		12.60	8	7.26	-103.4	0.01	0.33	
1005	SA	MPLED									1005
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 6.02
Depth to Bottom: 330

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS Superfund Site
Well Number MW-704DR Date 6-13-14
Field Personnel D. Garrigan
Sampling Organization Geosyntec
Identify MP TOC

Depth to 102' / 132' of screen 30' Screen
(below MP) top bottom PID: 0.00
Pump Intake at (ft. below MP) 119' BTOC
Purging Device; (pump type) Bladder Pump
Total Volume Purged 1.5 gallons

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0840	63.59	*	100	0	—	—	—	—	—	—	@ 75 PSI 2 GPM, 5 sec. discharge
0845	64.90	*	100	500	12.11	8	6.81	161.6	5.13	6.40	
0850	65.20	*	100	1000	12.18	8	6.86	152.2	4.92	6.16	No Color or Odor
0855	65.89	*	100	1500	12.08	8	6.97	146.6	5.62	5.43	Flow Check 100 mL/min
0900	66.30	*	100	2000	11.95	8	7.03	147.2	5.80	5.64	
0905	66.75	*	100	2500	12.06	8	7.08	142.5	6.00	7.90	
0910	67.11	*	100	3000	11.93	8	7.13	142.0	6.05	5.62	
0915	67.64	*	100	3500	11.96	8	7.18	142.8	6.07	5.42	
0920	67.87	*	100	4000	11.98	8	7.20	147.6	6.07	4.23	Flow Check 100 mL/min
0925	68.11	*	100	4500	11.95	8	7.22	146.8	6.06	3.88	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 63.59' BTOC
Depth to Bottom: 134.3' BTOC

Comments:

0940 - Collected sample MW-704DR-06132014 from well MW-704DR.

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Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-705 DR

Well Type: • (Monitoring) • Other: _____
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other) (specify): PVC w/mark

Total Depth As Constructed (ftbgs): 100.0 **Screened Interval (ftbgs):** 90.0
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-10-14 Time: 0825
Weather Conditions: 70° Humid
Depth to groundwater at time of deployment: 3.53
Total well depth at time of deployment: 105.92
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

PID (ppm): 99.0

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 98.0

Retrieval

Date and Time of Retrieval: Date: 6-13-14 Time: 0945
Total # of days deployed: 3
Weather Conditions: 70° Light Rain
Depth to groundwater at time of retrieval: 3.09
Total well depth at time of retrieval: 105.92
Downhole Field Parameters Upon Retrieval: Turb: 44.4 Cond: 2
Temp: 16.03 (°C) **ORP:** 45.9 (mV) **Water quality meter:** YSI 556 MPS
pH: 10.80 **DO:** 1.82 (mg/L) **Serial #:** 14F100062

Notes/Observations:
PID = 57.0 ppm (retrieval)

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	O+M Inc.
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE, Southington, CT
Well Number MW-903S Date 06/13/14
Field Personnel Matthew Pingitore
Sampling Organization ARCADIS
Identify MP TOC

Depth to 19' / 29' of screen (below MP) top bottom
Pump Intake at (ft. below MP) 23.5'
Purging Device; (pump type) Bladder
Total Volume Purged 7.0 Liters
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0900	21.01'	11/4	100	0.5	15.32	1801	6.41	-48.0	26.31	11.2	
0905	21.02'	11/4	100	1.0	15.30	1798	6.41	-51.2	24.87	9.29	
0910	21.04'	11/4	100	1.5	15.24	1764	6.42	-48.6	24.99	9.14	
0915	21.07'	11/4	100	2.0	12.96	1691	6.43	-53.7	24.91	7.47	
0920	21.07'	11/4	100	2.5	12.56	1675	6.44	-59.0	23.29	5.94	
0925	21.07'	11/4	100	3.0	12.50	1665	6.46	-60.4	20.65	4.02	
0930	21.08'	11/4	100	3.5	12.52	1664	6.46	-62.1	20.42	2.67	
0935	21.08'	11/4	100	4.0	12.56	1662	6.48	-63.7	19.18	2.44	
0940	21.08'	11/4	100	4.5	12.53	1668	6.49	-64.9	19.29	2.07	
0945	21.09'	11/4	100	5.0	12.55	1665	6.50	-65.7	12.20	1.58	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 21.01'
Depth to Bottom: 28.24'

Comments: Collected MS/MSD samples for VOCs, Total Metals and Dissolved Metals.
(MW-903S-06132014-MS
MW-903S-06132014-MSD)

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE Southington, CT
Well Number MW-903S Date 06/13/14
Field Personnel Matthew Pingitore
Sampling Organization ARCADIS
Identify MP TOC

Depth to (below MP) 19' / 29' of screen top bottom
Pump Intake at (ft. below MP) 23.5'
Purging Device; (pump type) Bladder
Total Volume Purged 7.0 Liters

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0950	21.09'	11/4	100	5.5	12.53	1659	6.50	-67.9	10.34	1.34	
0955	21.09'	11/4	100	6.0	12.57	1656	6.57	-69.4	7.17	1.30	
1000	21.09'	11/4	100	6.5	12.50	1654	6.50	-70.7	7.35	1.19	
1005	21.09'	11/4	100	7.0	12.50	1654	6.50	-72.0	7.28	1.22	
1010	Sampled MW-903S										
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 21.01'
Depth to Bottom: 28.24'

Comments: Collected MS/MSD Samples for VOCs, Total and Dissolved Metals (MW-903S-06132014-MS / MW-903S-06132014-MSD)

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Appendix B-2
HydraSleeve™ Field Form

Site: SRSNE
Location: Southington CT
Well ID: MW-304

Well Type: • (Monitoring) • Other:
Well Finish: • (Stick Up) • Flush Mount
Measuring Pt: • Top of Casing • (Other (specify): PVC - High Pt.

Total Depth As Constructed (ftbgs): 10.0 **Screened Interval (ftbgs):** 1
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 6-9-14 Time: 1410
Weather Conditions: 70° Rain
Depth to groundwater at time of deployment: 6.84
Total well depth at time of deployment: 15.96
Dimensions of HydraSleeve™: Length (in.) 32" Diameter (in.) 2"
Deployment Method/Position of Weight:

• (Top-Down): Weight attached to bottom of HydraSleeve™. Weight suspended in well.
• Top-Down: Weight attached to top of HydraSleeve™. Weight suspended in well.

Deployment Depth (Top of HydraSleeve™) (ftbgs): 6.0

Retrieval

Date and Time of Retrieval: Date: 6-13-14 Time: 0900
Total # of days deployed: 3
Weather Conditions: 66° Light Rain
Depth to groundwater at time of retrieval: 7.1
Total well depth at time of retrieval: 15.96
Downhole Field Parameters Upon Retrieval: Turb: 18.7 Cond: 2
Temp: 15.55 (°C) **ORP:** -19.7 (mV) **Water quality meter:** YSI 556 MPS
pH: 6.03 **DO:** 1.30 (mg/L) **Serial #:** 14F100062

Notes/Observations:

PID: 1.8 ppm Retrival 0.0

Field Sampling Technician: Name(s) and Company

Name	Company
Ryan Malone	Arcadis Inc.
Marcia MacKenzie	Arcadis

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-309 Date 06/13/2014
Field Personnel Rachel Drew
Sampling Organization Arcadis
Identify MP TOC

Depth to 1' / 11' of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 11'
Purging Device; (pump type) Bladder
Total Volume Purged 10L

PID: cap was off

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0835	5.21*										
0840	5.88	4	100	0	12.54	5	6.90	123.7	1.99	71.9	
0845	7.42	4	100	0.5	12.84	3	6.94	112.9	4.08	37.4	
0850	8.97	4	100	1	13.61	3	6.75	114.5	4.57	47	
0855	9.96	4	100	1.5	13.53	4	6.94	86.7	3.82	65	
0900	10.36	4	100	2	13.20	4	7.00	69.0	3.21	74	
0905	10.78	4	100	2.5	13.23	5	7.05	46.4	2.34	55	
0910	~11.00	4	75	3	13.26	6	7.08	20.8	1.08	89.3	
0915	~11.00	4	75	3.35	14.95	8	7.06	-24.1	1.07	60.9	
0920	~11.00	3	70	3.7	14.83	8	7.06	-28.6	0.95	61.3	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

* Initial Depth to Water: 5.21'
Depth to Bottom: 13.10'

Comments: Page 1 of 3

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-309 Date 06/13/2014
Field Personnel Rachel Drew
Sampling Organization Arcadis
Identify MP TOC

Depth to 1' / 11' of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 11'
Purging Device; (pump type) Bladder
Total Volume Purged 10L

PID: cap was off

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0925	11.00	3	70	4.05	14.85	9	7.06	-38.0	0.70	32.9	
0930	11.00	3	70	4.4	15.05	9	7.06	-41.4	0.69	30.5	
0935	11.00	3	70	4.75	15.33	9	7.06	-43.6	0.79	31.1	
0940	11.00	3	70	5.10	15.61	10	7.07	-48.3	1.04	29.3	Lowered pump 0.5'
0945	11.31	3	70	5.45	15.67	10	7.07	-50.9	1.16	32.9	
0950	11.40	3	70	5.8	15.12	11	7.06	-77.7	0.54	90.0	
0955	11.51	3	70	6.15	15.13	11	7.07	-80.4	1.61	71.6	
1000	11.54	3	70	6.5	15.39	11	7.07	-74.9	0.35	72.1	
1005	11.56	3	70	6.85	15.54	11	7.07	-73.7	0.32	72.9	
1010	11.57	3	70	7.2	15.44	10	7.08	-71.1	0.36	64.6	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.21'
Depth to Bottom: 13.10'

Comments: Page 2 of 3

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-309 Date 06/13/2014
Field Personnel Rachel Drew
Sampling Organization Arcadis
Identify MP TOC

Depth to 1' / 11' of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 11.5'
Purging Device; (pump type) Bladder
Total Volume Purged 10L

PID: Cap was off

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1015	11.60	3	70	7.55	15.46	10	7.08	-69.3	0.40	43.7	
1020	11.64	3	70	7.9	15.70	10	7.08	-70.5	0.43	36.5	
1025	11.71	3	70	8.25	15.87	10	7.09	-72.0	0.53	40.6	
1030	11.66	3	70	8.6	16.22	11	7.09	-72.7	0.53	30.1	
1035	11.72	3	70	8.95	15.90	~~75.5~~ 11	7.09	-75.5	0.49	35.4	
1040	11.75	3	70	9.3	15.98	11	7.10	-75.4	0.53	26.6	
1045	11.77	3	70	9.65	15.87	11	7.10	-76.2	0.55	25.8	
1050	11.78	3	70	10	15.75	11	7.10	-76.4	0.56	24.3	
1055	SAMPLE	COLLECTED									
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, ~~cycles/min~~, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.21'
Depth to Bottom: 13.10'

Comments: Page 3 of 3
Duplicate collected.
2 → DUP-GW-06132014-#1

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SESME
Well Number P-3B Date 06/13/2014
Field Personnel Aguilmor
Sampling Organization ARCADIS
Identify MP MARK PVC

Depth to 13 / 17 of screen
(below MP) top bottom
PID: 0.0
Pump Intake at (ft. below MP) ~15.5' bmp, 14' bgs
Purging Device; (pump type) bladder, QED backpack
Total Volume Purged 8L

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0850	1.24	30PM	250	~	10.92	4	7.22	21.9	0.84	27.3	
0855	2.71	↓	150	~	12.08	4	7.42	-33.8	0.21	31.3	
0900	3.29	↓	100	~	11.92	4	7.47	-45.9	0.14	36.0	
0905	4.05	↓	100	~	11.71	4	7.48	-52.3	0.09	35.7	
0910	4.45	↓	↓	~	11.74	4	7.48	-53.9	0.08	34.6	
0915	4.79	↓	↓	~	11.59	4	7.48	-54.7	0.05	33.8	
0920	5.16	↓	↓	~	11.49	4	7.47	-56.7	0.09	31.5	
0925	5.49	↓	↓	~	11.38	4	7.47	-57.3	0.09	32.6	
0935	6.05	↓	↓	~	11.25	4	7.47	-58.7	0.09	33.2	
0940	6.46	↓	↓	~8L	11.35	4	7.48	-59.6	0.08	31.3	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 1.24
Depth to Bottom: 18.61

Comments: SAMPLE COLLECTED 0945

6/13/14 - LET WELL RECHARGE OVERNIGHT
INTIAL DTW - 6.35
- CYCLED PUMP TO CLEAR WATER FROM TUBING (WATER CLEAR)
* COLLECTED P-5B SAMPLE @ 0800
- DTW AFTER COLLECTING SAMPLE - 7.98

6.35 @ 0:00
7.98

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number P-5B Date 6/12/14
Field Personnel MATT GRUBB
Sampling Organization GTM
Identify MP

Depth to 4 / 9 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 6.5
Purging Device; (pump type) BLADDER
Total Volume Purged
PID:

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ ml	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
15:05	8.00	cpm 4 13.5,1.5	100	500	15.76	9	6.89	-79.0	2.95	107.7	
15:10	8.40	cpm 4 14.1	50	750	16.48	9	6.88	-65.6	2.89	135	
15:15	8.60	↓	↓	1000	17.17	9	6.88	-55.4	2.63	84	8.60 TOP OF PUMP NO WATER MEASURED
15:20	" "	↓	↓	1250	17.27	9	6.88	-53.3	2.47	38	
15:25	9.00	cpm 2 29.1	35 TO 40	1450	17.97	10	6.88	-54.1	2.00	127	
15:30	9.15	↓	40 35 TO	1700 1650	18.09	10	6.89	-57.1	2.08	109.8	
15:35	9.25	↓	↓	1950	18.48	11	6.89	-67.5	2.06	133	
15:40	9.30	↓	↓	2200	18.93	12	6.89	-72.3	1.89	110	
15:45	9.40	↓	↓	2450	19.13	12	6.89	-76.4	1.77	100.4	15:50 GRAB W/ WATER ABOUT SLOW RECHARGE
15:50	9.54	cpm 1 58.2	35	2575	18.96	12	6.89	-80.5	1.61	98.5	SET TOP OF PUMP TO 10.54' WELL DRY @ 16:05
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

10.54' & 8.54 TO PUMP DRY AND SAMPLE ON 6/13/14

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25 °C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 5.28
Depth to Bottom: 11.90

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number SRS 3 Date 06/13/2014
Field Personnel Sean Hutchins
Sampling Organization OEM Inc
Identify MP

Depth to 31 / 41 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 36
Purging Device; (pump type) QED Micro Purge
Total Volume Purged

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0910	3.7	CPM4	100ml	1000ml	10.80	5	7.09	210.0	0.61	66.4	
0915	3.7	CPM4	100ml	1500	10.76	5	7.13	190.4	0.65	96.9	
0920	3.7	CPM4	100ml	2000	10.79	5	7.18	152.6	0.67	18.0	
0925	3.7	CPM4	100ml	2500	10.91	5	7.18	132.4	0.59	8.0	
0930	3.7	CPM4	100ml	3000	11.05	5	7.23	118.4	0.79	7.0	
0935	3.7	CPM4	100ml	3500	10.87	5	7.27	105.2	0.77	13.0	
0940	3.7	CPM4	100ml	4000	11.22	5	7.28	95.8	0.71	-5	
0945	3.7	CPM4	100ml	4500	10.98	5	7.29	87.7	0.67	-13	
0950	3.7	CPM4	100ml	5000	10.81	5	7.29	78.6	0.60	110.0	Recalibrated Lamotte
0955	3.7	CPM4	100ml	5500	10.96	5	7.31	70.3	0.52	92.9	
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. "Siemens per cm(same as µmhos/cm)at 25°C.
3. ...duction potential (ORP)

Initial Depth to Water: 3.7
Depth to Bottom: 39.3

Comments:

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRS
Well Number SRS-3 Date 06/13/2014
Field Personnel Sean Hutchins
Sampling Organization O&M Inc
Identify MP

Depth to 31 / 41 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 36
Purging Device; (pump type) QED MicroPurge
Total Volume Purged

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1000	3.7	CPM4	100ml	6000	11.04	5	7.31	63.2	0.48	74.9	
1005	3.7	CPM4	100ml	6500	10.80	5	7.31	61.5	0.48	82.0	
1010	3.7	CPM4	100ml	7000	10.98	5	7.32	57.5	0.44	75.2	
1015	3.7	CPM4	100ml	7500	10.97	5	7.32	53.8	0.43	66.0	
1020	3.7	CPM4	100ml	8000	11.11	5	7.32	52.4	0.41	67.7	
1025	3.7	CPM4	100ml	8500	10.77	5	7.30	48.6	0.40	59.4	
1030	3.7	CPM4	100ml	9000	10.79	5	7.29	46.3	0.38	54.8	
1035	3.7	CPM4	100ml	9500	10.96	5	7.29	46.2	0.37	56.6	
1040		SAMPLES	COLLECTED								
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 3.7
Depth to Bottom: 39.3

Comments:

SDG 266528

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1001R Date 9/16/14
Field Personnel MS/RM
Sampling Organization Ryan Malone
Identify MP TIC

Depth to 175.3 / 190.3 of screen (below MP) top bottom
Pump Intake at (ft. below MP) 182
Purging Device; (pump type) Bladder
Total Volume Purged
PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
0955	67.40		50	—	15.21	11	11.17	-5.9	4.20	—	
1010	68.49		60	—	14.04	8	11.18	-95.6	2.00	—	
1030	69.67		60	—	13.89	8	11.45	-146.0	1.01	—	
1040	70.63		150	~1.5	13.49	8	11.61	-163.8	0.81	6.19	
1100	72.00		200	~3	12.90	8	11.70	-175.8	0.85	4.70	
1110	73.88		200	~~300~~ 4	12.56	8	11.65	-197.9	0.47	6.99	
1115	74.95		150	4.5	12.57	8	12.58	-214.3	0.32	5.14	
1120	75.85		150	5.5	12.57	8	11.69	-220.7	0.30	5.55	
											Stop pumping to refill
1135	76.44		150	6.0	13.45	8	11.71	-188.7	0.55	6.01	Compressor w/ gas
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: 69.65'
Depth to Bottom: 190.27'

Comments: Purge Plus 2.45 gal

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) SRSNE
Well Number MW-1001R Date 9/10/14
Field Personnel MS/RM
Sampling Organization Ryan Malone
Identify MP TIC

Depth to ____/____ of screen (below MP) top bottom
Pump Intake at (ft. below MP) ____
Purging Device; (pump type) Bladder
Total Volume Purged ____

PID: 0.0

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP[3] mv	DO mg/L	Turb-idity NTU	Comments
1140	77.43	—	150	6.5	13.00	8	11.75	-208.8	0.43	4.53	
1145	78.45	—	150	7.0	13.36	8	11.94	-216.3	0.37	4.43	
1150	79.84	—	100	7.5	14.59	8	11.77	-223.9	0.48	5.16	
1155	80.67	—	100	8.0	13.94	7	11.86	-232.1	0.74	5.94	
1200	81.68	—	100	8.5	13.71	7	11.94	-234.8	0.32	6.86	
1205	82.89	—	100	9.0	13.62	7	12.04	-238.0	0.28	6.63	
1208	83.27	—	100	9.5	13.70	9	12.08	-238.4	0.27	5.51	
1211	83.82	—	100	10	13.59	7	12.11	-241.0	0.30	4.81	SAMPLE
Stabilization Criteria					3%	3%	±0.1	± 10 mv	10%	10%	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (ORP)

Initial Depth to Water: ____
Depth to Bottom: ____

Comments:

ARCADIS

Appendix B

Equipment Calibration Logs

Barrigan
6-9-14

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6-9-14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556-MPS	Serial Number: 14F100063
Brand: LaMotte	Model: 2020 WE	Serial Number: 1191-3011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful OK	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	3.28
7.00	7.00	7.00		7.00	6.79
10.00	10.00	10.00		10.00	1.88
Turbidity (NTUs)					
0	0.0	0		0	0.0
1	—	10		10	9.74
10	9.86				9.74
Conductivity (µmhos/cm)					
10	10	10		10	3
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.00	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	231				216.2
(Light's Solution)	435				366.7
Temperature (C)	23.16 °C				19.7 °C

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6-9-2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100059
Brand:	Model:	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	
7.00	7.00	7.00		7.00	
10.00	10.00	10.00		10.00	
Turbidity (NTUs)					
0	0	0		0	
1					
10	10.1	10		10	
Conductivity (µmhos/cm)					
10	10	10		10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.02	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	234.0				
(Light's Solution)	439				
Temperature (C)	22				

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/9/14

Diane Champagne

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556	Serial Number: 14F10064
Brand: Lamotte	Model: 2020e	Serial Number: 1185-9011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.99	4.00	3.95	4.00	
7.00	7.01	7.00	7.02	7.00	
10.00	10.00	10.00	10.03	10.00	
Turbidity (NTUs)					
0	0	0	0	0	
1		10	10.1	10	
10	10.05				
Conductivity (µmhos/cm)					
10	10	10	11	10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	-0.02	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	199.9		202.1		
(Light's Solution)	383.3		389.2		
Temperature (C)	21.83		19.55		

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/9/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100065
Brand:	Model:	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	4.0	4.00	4.00
7.00	7.00	7.00		7.00	7.00
10.00	10.00	10.00		10.00	10.00
Turbidity (NTUs)					
0	-0.01	0		0	0.00
1		10		10	9.96
10	10.01				
Conductivity (µmhos/cm)					
10	10.0	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.00	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	234.0				237.5
(Light's Solution)	440.3				385.7
Temperature (C)	22				20

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/9/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100061
Brand:	Model:	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.00
7.00	7.00	7.00		7.00	7.00
10.00	10.00	10.00		10.00	10.01
Turbidity (NTUs)					
0	-0.01	0		0	-0.01
1	10.00	10		10	10.02
10					
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	-0.02	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	234				237.4
(Light's Solution)	442.5				386.2
Temperature (C)	22				20

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/9/2014

INSTRUMENT IDENTIFICATION

Brand: YSI 556 MPS	Model: 556 MPS	Serial Number: 14F100058
Brand: 1	Model: 1	Serial Number: 1

CALIBRATION RECORD

started in afternoon

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.99	4.00		4.00	3.98
7.00	7.00	7.00	2.0 Bad	7.00	7.00
10.00	10.00	10.00		10.00	10.00
Turbidity (NTUs)					
0	0	0		0	Bad 0.50
1					
10	10.63	10		10	10.21
Conductivity (µmhos/cm)					
10 00	mS/cm 1,000	10		10	10
	1,114 SC				
Dissolved Oxygen (mg/L)					
100% Zero DO Solution	99.6% Sat @ 20°C 8.47mg/L	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	200.0				
(Light's Solution)				470	
Temperature (C)	20.28			18.76	

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6-10-14

INSTRUMENT IDENTIFICATION Diane Champagne

Brand: YSI	Model: 556	Serial Number: 014F10064
Brand: Lamotte	Model: 2020we	Serial Number: 219-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	4.16	4.00	
7.00	7.00	7.00	7.00	7.00	
10.00	9.95	10.00	9.88	10.00	
Turbidity (NTUs)					
0	✓	0	✓	0	
1	9.5	7.52	10 over range to calibrate	10	
10	9.54				
Conductivity (µmhos/cm)					
10	✓	10	12	10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.02	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	200.0		184.1		
(Light's Solution)	360.3		394.5		
Temperature (C)	17.56		28.36		

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: _____

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100065
Brand: LaMotte	Model: 2020WE	Serial Number: 241-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.00
7.00	7.00	7.00		7.00	7.00
10.00	10.00	10.00		10.00	10.00
Turbidity (NTUs)					
0	0.02	0		0	0.00
1					
10	10	10		10	9.99
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.04	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	241.0				224.7
(Light's Solution)	425				228.8
Temperature (C)	18				30

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6-10-2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F 100063
Brand:	Model:	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	3.81
7.00	7.00	7.00		7.00	6.93
10.00	10.00	10.00		10.00	9.91
Turbidity (NTUs)					
0	0	0		0	.90
1		10		10	11.21
10					
Conductivity (µmhos/cm)					
10	10	10		10	12
Dissolved Oxygen (mg/L)					
Zero DO Solution	0	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	241				227
(Light's Solution)	429.4				459.2
Temperature (C)	18.0				28.1 [c]

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/10/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100061
Brand: LAMOTTE	Model: 2020 we	Serial Number: 1832-0412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	—	4.00	4.00
7.00	7.06	7.00	=	7.00	7.00
10.00	10.00	10.00	/	10.00	~~10.00~~ 9.97
Turbidity (NTUs)					
0	0.08	0	—	0	0.00
1					
10	10.05	10	/	10	9.98
Conductivity (µmhos/cm)					
10	10	10	/	10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	-0.04	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	241		—	224.5	224.7
(Light's Solution)	426.2		=		224.5
Temperature (C)	18		/		30

240

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

D. Garrigan

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6-10-14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100058
Brand: Lamotte	Model: 2020 WE	Serial Number: 229-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.06	4.00		4.00	4.45
7.00	7.00	7.00		7.00	7.64
10.00	10.00	10.00		10.00	10.62
Turbidity (NTUs)					
0	~0.01	0		0	0
1		10		10	
10	7.56				7.23
Conductivity (µmhos/cm)					
10	10	10		10	5
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.04	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	240.7				431.9
(Light's Solution)	412.0				424.0
Temperature (C)	18°C				29.0°C

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

Christopher Fuerst
Christopher Fuerst

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 06-10-2014

INSTRUMENT IDENTIFICATION

Brand: Lamontte	Model: 2020we	Serial Number: 243-4110
Brand: YSI	Model: 556 MPS	Serial Number: 14F100066

1550
1250

SRS

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.11	4.00		4.00	3.94
7.00	6.93	7.00		7.00	7.07
10.00	10.00	10.00		10.00	10.04
Turbidity (NTUs)					
0	0.40	0		0	0.58
1	~~0.90~~ –	10		10	7.12
10	9.90				
Conductivity (µmhos/cm)					
10	10	10		10	15
Dissolved Oxygen (mg/L)		**Not Applicable**		**Not Applicable**	
Zero DO Solution	0.00				
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	241				227
(Light's Solution)	424				438.8
Temperature (C)	18°C				28.20

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/10/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 16100863
Brand: LaMotte	Model: 2020 we	Serial Number: 1135-3011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	3.86	4.00	3.86
7.00	7.04	7.00	~~6.95~~	7.00	6.98
10.00	10.00	10.00		10.00	9.87
Turbidity (NTUs)					
0	0.01	0		0	0.46
1	10.00	10		10	9.78
10					
Conductivity (µmhos/cm)					
10	10	10	~~27~~	10	27
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.13	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	241.0				336.4
(Light's Solution)	428.8				437.6
Temperature (C)	18				28.02

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/10/2014

INSTRUMENT IDENTIFICATION

Brand: YSI-FT	Model: 556 MPS	Serial Number: 14F100059
Brand: LaMotte	Model: 2020we	Serial Number: 2129-1412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.03
7.00	7.00	7.00		7.00	7.03
10.00	10.00	10.00		10.00	9.98
Turbidity (NTUs)					
0	0.03	0		0	-0.03
1	(no std)				
10	10.32	10		10	9.73
Conductivity (µmhos/cm)					
10	10 mS/cm	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.02	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	237.4			207.8 @ 28°C	
(Light's Solution)	408.0			428.5	
Temperature (C)	20 237 mV, 20°C (237.5 mV)			28°C	

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/10/2014 RD + MP

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100060 Probe - 14C31
Brand:	Model:	Serial Number:

CALIBRATION RECORD

Not used in morning.

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	/	4.00	4.01 → 4.00	4.00	4.14 → 4.00
7.00	/	7.00	7.11 → 7.00	7.00	6.88 → 7.00
10.00	/	10.00	9.82 → 9.97	10.00	10.39
Turbidity (NTUs)					
0	/	0	0.02/0.0	0	-0.06
1					
10	/	10	9.95/10.0	10	9.61
Conductivity (µmhos/cm)					
10	/	10	552 → 10	10	3
Dissolved Oxygen (mg/L)					
Zero DO Solution	/	Not Applicable	0.00	Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	/		224.5 → 193.0		405.7
(Light's Solution)			392.7		399.4
Temperature (C)	/		24.47		28.36

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

Ryan Malony
Marcia Mackenzie

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6·10·14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F1000402
Brand: LaMotte	Model: 2020 we	Serial Number: 738-0811

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	3.93
7.00	7.00	7.00		7.00	7.02
10.00	3.99	10.00		10.00	10.01
Turbidity (NTUs)					
0	0.47	0		0	0.85
1	—	10		10	10.30
10	10.04				
Conductivity (µmhos/cm)					
10	10	10		10	12
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.0	Not Applicable		Not Applicable	
REDOX (mV)	440.0	Chart [1]		Chart [1]	
(Zobel Solution)	~~240.2~~				444.0
(Light's Solution)	474.1				435.5
Temperature (C)	22.23				28.79

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/11/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F1000621
Brand: LAMOTTE	Model: 2020WE	Serial Number: 1832-0412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	—	4.00	3.99
7.00	7.00	7.00	—	7.00	7.00
10.00	10.00	10.00	—	10.00	10.00
Turbidity (NTUs)					
0	-0.02	0	—	0	-0.00
1	10.00	10	—	10	10.00
10					
Conductivity (µmhos/cm)					
10	10	10	—	10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.00	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
240 (Zobel Solution)	240		—	232	232
(Light's Solution)	409		—		449.1
17 Temperature (C)	17		—	24.32	24.32

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/11/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100045
Brand: LaMotte	Model: 2020 we	Serial Number: 24-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	—	4.00	3.97
7.00	7.00	7.00	—	7.00	7.00
10.00	~~9.99~~ 10.00	10.00	—	10.00	10.00
Turbidity (NTUs)					
0	0	0	—	0	-0.01
1	999	10	—	10	10.00
10					
Conductivity (µmhos/cm)					
10	10	10	—	10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.05	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	240		—	232.0	232
(Light's Solution)	422.4		—	230.7	
Temperature (C)	17		—	29.32	

240

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/11/14

INSTRUMENT IDENTIFICATION — Diane Champagne

Brand: YSI	Model: 556	Serial Number: 14F1000664
Brand: LaMotte	Model: 2020	Serial Number: 752-1011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	3.93	4.00	
7.00	7.00	7.00	7.00	7.00	
10.00	10.00	10.00	9.88	10.00	
Turbidity (NTUs)					
0	✓	0	✓	0	
1		10	✓	10	
10	✓				
Conductivity (µmhos/cm)					
10	✓	10	✓	10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.01	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	200.1		147.4		
(Light's Solution)	363.5		406.4		
Temperature (C)	16.23		23.64		

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6·11·14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F1000162
Brand: LaMotte	Model: 2020 we	Serial Number: 219-~~446~~ 1412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.98	4.00		4.00	4.03
7.00	6.98	7.00		7.00	7.00
10.00	10.01	10.00		10.00	9.97
Turbidity (NTUs)					
0	0.06	0		0	0.73
1 10	9.98	10		10	9.06
Conductivity (µmhos/cm)					
10	10	10		10	5
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.04	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	200				185.7
(Light's Solution)	420				403.4
Temperature (C)	17.39				23.74

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 06/11/2014

INSTRUMENT IDENTIFICATION

Brand:	YSI	Model:	556 MPS	Serial Number:	14F100060
Brand:	YSI	Model:	556 MPS	Serial Number:	14F100060

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)	4.00				
4.00	~~10.00~~ (12)	4.00		4.00	3.96
7.00	7.00	7.00		7.00	6.89
10.00	9.96	10.00		10.00	10.18
Turbidity (NTUs)					
0	0.00	0		0	0.01
1					
10	9.86	10		10	8.99
Conductivity (µmhos/cm)					
10	10	10		10	9
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.00	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	342.5				231.1
(Light's Solution)	400.6				465.9
Temperature (C)	18°C				22c

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6-11-2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100063
Brand: LaMotte	Model: 2020 we	Serial Number: 1191-3011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.0	4.00	4.08	4.00	3.99
7.00	7.0	7.00	6.99	7.00	7.02
10.00		10.00	9.95	10.00	9.99
Turbidity (NTUs)					
0	0	0	.01	0	.82
1 10	10	10	10.04	10	10.98
Conductivity (µmhos/cm)					
10	10	10	10	10	14
Dissolved Oxygen (mg/L)					
Zero DO Solution	0	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	240				235
(Light's Solution)	409.8				441.0
Temperature (C)	17.02				22°

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/11/14

INSTRUMENT IDENTIFICATION

Brand: LaMotte	Model: 2020we	Serial Number: 1185-3011
Brand: YSI	Model: 556 MPS	Serial Number: 16100863

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.18
7.00	7.09	7.00		7.00	7.22
10.00	10.00	10.00		10.00	10.16
Turbidity (NTUs)					
0	0.02	0		0	-0.95
1	10.0	10		10	10.18
10					
Conductivity (µmhos/cm)					
10	10	10		10	12
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.19	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	240				235
(Light's Solution)	408.1		440.2		432.1
Temperature (C)	17				22

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: 6/11/2014

RD + MP

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100059
Brand: LaMotte	Model: 2020 we	Serial Number: 738-0811

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.69→4.00	4.00		4.00	4.29
7.00	7.25→7.00	7.00		7.00	7.11
10.00	9.85→9.98	10.00		10.00	10.00
Turbidity (NTUs)					
0	0.00	0		0	0.88
~~0~~ 10	9.57	10		10	10.52
Conductivity (µmhos/cm)					
10	15→10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.01	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	228.9→244.0				232.0
(Light's Solution)	433.3				439.5
Temperature (C)	17.13				21.97

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

Christopher Fuerst

YSI & Turbidity Meter Calibration Log

DATE: 06/11/2014

INSTRUMENT IDENTIFICATION

Brand: LaMotte	Model: 2020we	Serial Number: 243-4110
Brand: YSI	Model: 556 MPS	Serial Number: 14F100066

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.90	4.00		4.00	4.04
7.00	7.00	7.00		7.00	7.14
10.00	10.00	10.00		10.00	10.07
Turbidity (NTUs)					
0	0.55	0		0	0.83
1	X	10		10	9.52
10	9.85				
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.02	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	240				236.9
(Light's Solution)	425				418.3
Temperature (C)	17.02				24.32

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

ARCADIS
Infrastructure, environment, facilities

Marcia MacKenzie
Ryan Malone

YSI & Turbidity Meter Calibration Log

DATE: 10.12.14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100062
Brand: LaMotte	Model: 2020WE	Serial Number: 2129.1412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.94	4.00		4.00	4.04
7.00	6.99	7.00		7.00	7.16
10.00	10.02	10.00		10.00	10.05
Turbidity (NTUs)					
0	0.00	0		0	1.64
~~1~~ 10	9.98	10		10	11.51
Conductivity (µmhos/cm)					
10	10	10		10	7
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.09	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	199.9				180.3
(Light's Solution)	349.7				384.6
Temperature (C)	16.07				21.20

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 06/12/2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 11G100863
Brand: LaMotte	Model: 2020we	Serial Number: 1185391

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.62
7.00	7.00	7.00		7.00	7.65
10.00	10.00	10.00	[illegible]	10.00	10.54
Turbidity (NTUs)					
0	0.00	0	[illegible]	0	-0.01
1					
10	10.03	10		10	9.80
Conductivity (µmhos/cm)					
10	10	10	[illegible]	10	23
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.23	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243				231.8
(Light's Solution)	414.9				441.2
Temperature (C)	16				22

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6-12-2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F1000613
Brand: LaMotte	Model: 2020 we	Serial Number: 1191-3011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.21
7.00	7.0	7.00		7.00	7.30
10.00	10.0	10.00		10.00	10.26
Turbidity (NTUs)					
0	0	0	.79	0	.79
1					
10	10	10	10.46	10	10.46
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243				235
(Light's Solution)	4222				437.0
Temperature (C)	16				21.97

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/12/2014

AG

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100060
Brand: LaMotte	Model: 738-0811	Serial Number: 2020We

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.02	4.00		4.00	4.60
7.00	7.02	7.00		7.00	7.62
10.00	10.01	10.00		10.00	10.64
Turbidity (NTUs)					
0	0.0	0		0	0.10
1	9.62	10		10	10.18
10					
Conductivity (µmhos/cm)					
10	10	10		10	6
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.02	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243				209.5
(Light's Solution)	447.5				446.5
Temperature (C)	16°C				23°C

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/12/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 12F100061
Brand: LAMOTTE	Model: 2020 WE	Serial Number: 18320412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.00
7.00	7.04	7.00		7.00	7.00
10.00	10.00	10.00		10.00	9.99
Turbidity (NTUs)					
0	0.00	0		0	0.40
1					
10	10.00	10		10	10.00
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.02	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243				234
(Light's Solution)	416				438
Temperature (C)	16				22.48

243

16.00

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/12/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14P1000605
Brand: LaMotte	Model: 2020 we	Serial Number: 241 9410

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.00
7.00	7.09	7.00		7.00	7.00
10.00	10.00	10.00		10.00	9.99
Turbidity (NTUs)					
0	0.01	0		0	<0.25
1	10.00	10		10	9.99
10					
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.03	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243			234	234
(Light's Solution)	4280			439	
Temperature (C)	16			22.4	

243

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

Garrigan

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YSI & Turbidity Meter Calibration Log

DATE: 6-12-14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MP	Serial Number: 14F100058
Brand: Lamotte	Model: 2020 WE	Serial Number: 229-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.06	4.00		4.00	4.20
7.00	7.00	7.00		7.00	6.95
10.00	10.00	10.00		10.00	10.05
Turbidity (NTUs)					
0	0.01	0		0	0.65
1		10		10	10.59
10	9.91				
Conductivity (µmhos/cm)					
10	10	10		10	9
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.03	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243				255
(Light's Solution)	419.6				437
Temperature (C)	16°C				22.69°C

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/12/14

INSTRUMENT IDENTIFICATION Diane Champagne

Brand: YSI	Model: 556	Serial Number:
Brand: Lamotte	Model: 2020 e	Serial Number: 752-1011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.97	4.00	3.99	4.00	
7.00	✓	7.00	7.03	7.00	
10.00	✓	10.00	9.99	10.00	
Turbidity (NTUs)					
0	✓	0	✓	0	
1		10	9.04	10	
10	9.93				
Conductivity (µmhos/cm)					
10	✓	10	8	10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.00	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	199.7		191.4		
(Light's Solution)	367.0		289.9		
Temperature (C)	16.95		20.85		

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/12/2014

INSTRUMENT IDENTIFICATION RD + MP

Brand: YSI	Model: 556 MPS	Serial Number: 14F100059
Brand: LaMotte	Model: 2020we	Serial Number: 2135-1412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.21→4.00	4.00		4.00	4.13
7.00	6.85→7.00	7.00		7.00	~~7.15~~
10.00	10.04→10.01	10.00		10.00	10.11
Turbidity (NTUs)					
0	0.01	0		0	0.47
~~4~~ 10	9.96	10		10	9.53
Conductivity (µmhos/cm)					
10	29→10	10		10	~~7~~
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.04	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	244.0				234.3
(Light's Solution)	427.4				430.1
Temperature (C)	15.92				20.24

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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Infrastructure, environment, facilities

YSI & Turbidity Meter Calibration Log

DATE: _____

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100066
Brand: LaMotte	Model: 2020we	Serial Number: 243-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.26
7.00	7.00	7.00		7.00	7.00
10.00	10.06	10.00		10.00	10.09
Turbidity (NTUs)					
0	0.05	0		0	0.06
1	~	10		10	10.0
10	10.08				
Conductivity (µmhos/cm)					
10	10	10		10	8
Dissolved Oxygen (mg/L)		**Not Applicable**		**Not Applicable**	
Zero DO Solution	0.06				
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	243				231.6
(Light's Solution)	243 428.7				426.7
Temperature (C)	16				27.69

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 06-13-2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100058
Brand: LaMotte	Model: 2020wp	Serial Number: 2135-1412

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.14
7.00	7.00	7.00		7.00	7.16
10.00	10.00	10.00		10.00	10.06
Turbidity (NTUs)					
0	0.01	0		0	0.01
1	—	10		10	10
10	10.00				
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.09	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239				277.2
(Light's Solution)	420.7				422.9
Temperature (C)	19.00				20.4

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6-13-14

Garrigan

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100066
Brand: LaMotte	Model: 2020 WE	Serial Number: 229-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.08
7.00	7.00	7.00		7.00	7.23
10.00	10.00	10.00		10.00	10.15
Turbidity (NTUs)					
0	0	0		0	0.59
1	-	10		10	10.51
10	10				
Conductivity (µmhos/cm)					
10	10	10		10	28
Dissolved Oxygen (mg/L)					
Zero DO Solution	2.14	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239				232.9
(Light's Solution)	462.1				460.4
Temperature (C)	19°C				20.4°C

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 06/13/2014 Agilline

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100060
Brand:	Model:	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	3.98
7.00	7.00	7.00		7.00	7.10
10.00	10.00	10.00		10.00	9.95
Turbidity (NTUs)					
0	0.01	0		0	-0.43
1		10		10	8.59
10					
Conductivity (µmhos/cm)					
10	10	10		10	80
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.04	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	240.0				231.2
(Light's Solution)	466				430.9
Temperature (C)	18.5				20.32
	240				

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6-13-2014

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100063
Brand: LaMotte	Model: 2020we	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.0	4.00		4.00	3.81
7.00		7.00		7.00	6.94
10.00	10.0	10.00		10.00	9.90
Turbidity (NTUs)					
0	0	0		0	-.01
1					
10	10	10		10	10.36
Conductivity (µmhos/cm)					
10	10	10		10	34
Dissolved Oxygen (mg/L)					
Zero DO Solution	.05	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239				259.4
(Light's Solution)	450.6				452.6
Temperature (C)	19 C				20.7

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6-13-2014

INSTRUMENT IDENTIFICATION

Diane Champagne

Brand: YSI	Model: 556	Serial Number: 14F100064
Brand: Lamotte	Model: 2020 we	Serial Number: 752-1011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.98	4.00	3.84	4.00	
7.00	✓	7.00	7.05	7.00	
10.00	✓	10.00	10.00	10.00	
Turbidity (NTUs)					
0	✓	0	✓	0	
1		10	9.93	10	
10	✓				
Conductivity (µmhos/cm)					
10	✓	10	161	10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.06	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	200 / 234		201.2		
(Light's Solution)	417.6		432.9		
Temperature (C)	18.40		20.04		

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

3/3

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YSI & Turbidity Meter Calibration Log

DATE: 6/13/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 11G00863
Brand: Lamotte	Model: 2020 we	Serial Number: 11 35-3011

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.06
7.00	7.00	7.00		7.00	6.98
10.00	10.00	10.00		10.00	9.84
Turbidity (NTUs)					
0	0.03	0		0	0.01
1					
10	10.00	10		10	10.33
Conductivity (µmhos/cm)					
10	10	10		10	30
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.15	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239				281.0
(Light's Solution)	458.6				476.3
Temperature (C)	19				19

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 06/13/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 650 MDS	Serial Number: 02F0869AC Probe = 04C2866AA
Brand: LaMotte	Model: 2020we	Serial Number: 219-4110

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.01/4.00	4.00		4.00	4.03
7.00	7.13/7.00	7.00		7.00	7.07
10.00	9.96/10.00	10.00		10.00	9.98
Turbidity (NTUs)					
0	0.00	0		0	0.04
1	—	10		10	9.36
10	9.47				
Conductivity (µmhos/cm)					
10	9.87/10.00	10		10	9.71
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.08	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	188.6/237.5				241.8
(Light's Solution)	429.6				414.5
Temperature (C)	20.02				19.52

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/13/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F000645
Brand: Lamotte	Model: 2020we	Serial Number:

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00		4.00	4.00
7.00	7.00	7.00		7.00	7.00
10.00	10.00	10.00		10.00	10.00
Turbidity (NTUs)					
0	0.03	0		0	-0.01
1	999	10		10	10.02
10					
Conductivity (µmhos/cm)					
10	10	10		10	10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.00	**Not Applicable**		**Not Applicable**	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239.0				237.0
(Light's Solution)	484.9				462.9
Temperature (C)	19				20.4

239

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 6/13/14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100061
Brand: LAMOTTE	Model: 2020 WE	Serial Number: 18320412

CALIBRATION RECORD * NOT USED 6/13/14

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	4.00	4.00	—	4.00	—
7.00	7.00	7.00	—	7.00	—
10.00	10.00	10.00	—	10.00	—
Turbidity (NTUs)					
0	0.01	0	—	0	—
1					
10	10.00	10	—	10	—
Conductivity (µmhos/cm)					
10	10	10	—	10	—
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.06	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239		—		—
(Light's Solution)	460.0		—		—
Temperature (C)	14.0		—		—

239

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

Marcia Mackenzie
Ryan Malone

ARCADIS
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YSI & Turbidity Meter Calibration Log

DATE: 6·13·14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 600 MPS	Serial Number: 14F100062
Brand: LaMotte	Model: 2020 WE	Serial Number: 2129.1915

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.99	4.00		4.00	3.98
7.00	6.99	7.00		7.00	6.97
10.00	10.01	10.00		10.00	10.04
Turbidity (NTUs)					
0	0.02	0	0.02	0	0.94
1	10.03	10		10	10.83
10					
Conductivity (µmhos/cm)					
10	10	10		10	10.
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.16	Not Applicable		Not Applicable	
REDOX (mV)	239.0	Chart [1]		Chart [1]	
(Zobel Solution)	~~200.00~~				212.6
(Light's Solution)	421.9				430.3
Temperature (C)	18.40				20.14

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 06/13/2014

INSTRUMENT IDENTIFICATION RD

Brand: YSI	Model: 556 MPS	Serial Number: 14F100059
Brand: LaMotte	Model: 2020we	Serial Number: 738-0811

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.96→4.00	4.00		4.00	4.11→4.00
7.00	7.06→7.00	7.00		7.00	7.05→7.00
10.00	9.94→9.99	10.00		10.00	9.92→10.00
Turbidity (NTUs)					
0	0.01	0		0	.22→0
~~5~~ 10	9.47	10		10	10.16→10.00
Conductivity (µmhos/cm)					
10	7→10	10		10	11→10
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.04	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	239.8→240.0				232.9→240.0
(Light's Solution)	426.4				430.6
Temperature (C)	18.48				20

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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YSI & Turbidity Meter Calibration Log

DATE: 9-16-14

INSTRUMENT IDENTIFICATION

Brand: YSI	Model: 556 MPS	Serial Number: 14F100660
Brand: LaMotte	Model: 2020we	Serial Number: 738-0811

CALIBRATION RECORD

Morning Calibration		Afternoon Check		Evening Check	
Standard	Calibration Successful	Standard	Reading	Standard	Reading
pH (S.I. units)					
4.00	3.95-4.0	4.00	3.95	4.00	
7.00	7.02-7.0	7.00	7.00	7.00	
10.00	9.98-10.0	10.00	10.01	10.00	
Turbidity (NTUs)					
0	0.02	0	-0.01	0	
1	-	10	9.54	10	
10	10.02				
Conductivity (µmhos/cm)					
10	9	10	10 ~~10.01~~	10	
Dissolved Oxygen (mg/L)					
Zero DO Solution	0.08	Not Applicable		Not Applicable	
REDOX (mV)		Chart [1]		Chart [1]	
(Zobel Solution)	247/Cal 242		239.3/242		
(Light's Solution)	225		434.5		
Temperature (C)	12		18		

[1] The REDOX of the Zobel solution is temperature dependent, a chart is provided with the meter to check the reading for the appropriate temperature. REDOX must be calibrated by the manufacturer.

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Appendix C

Distribution of Select VOCs in NAPL and Water in Contact with NAPL

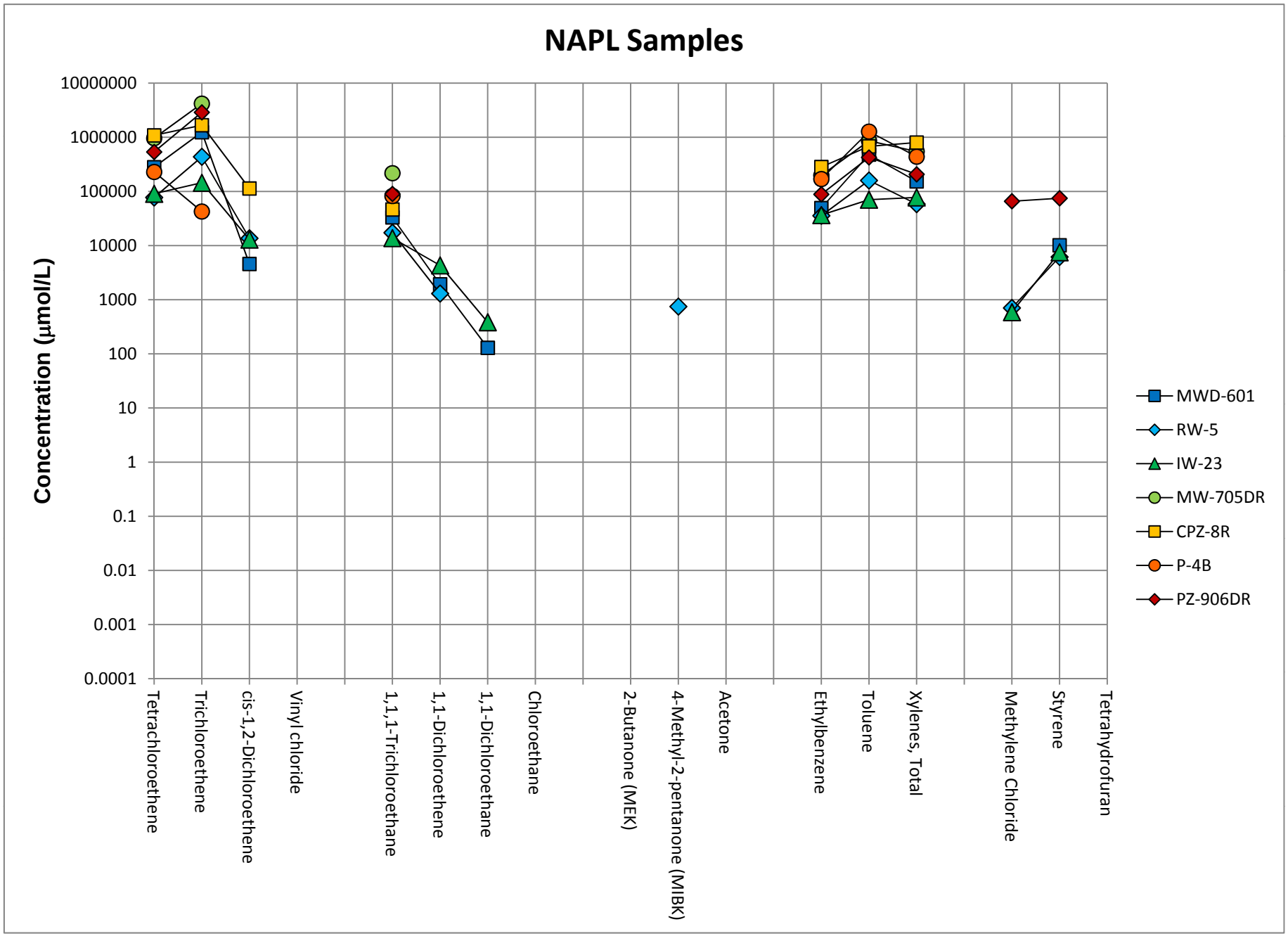
APPENDIX C – DISTRIBUTION OF VOCS IN NAPL AND GROUNDWATER

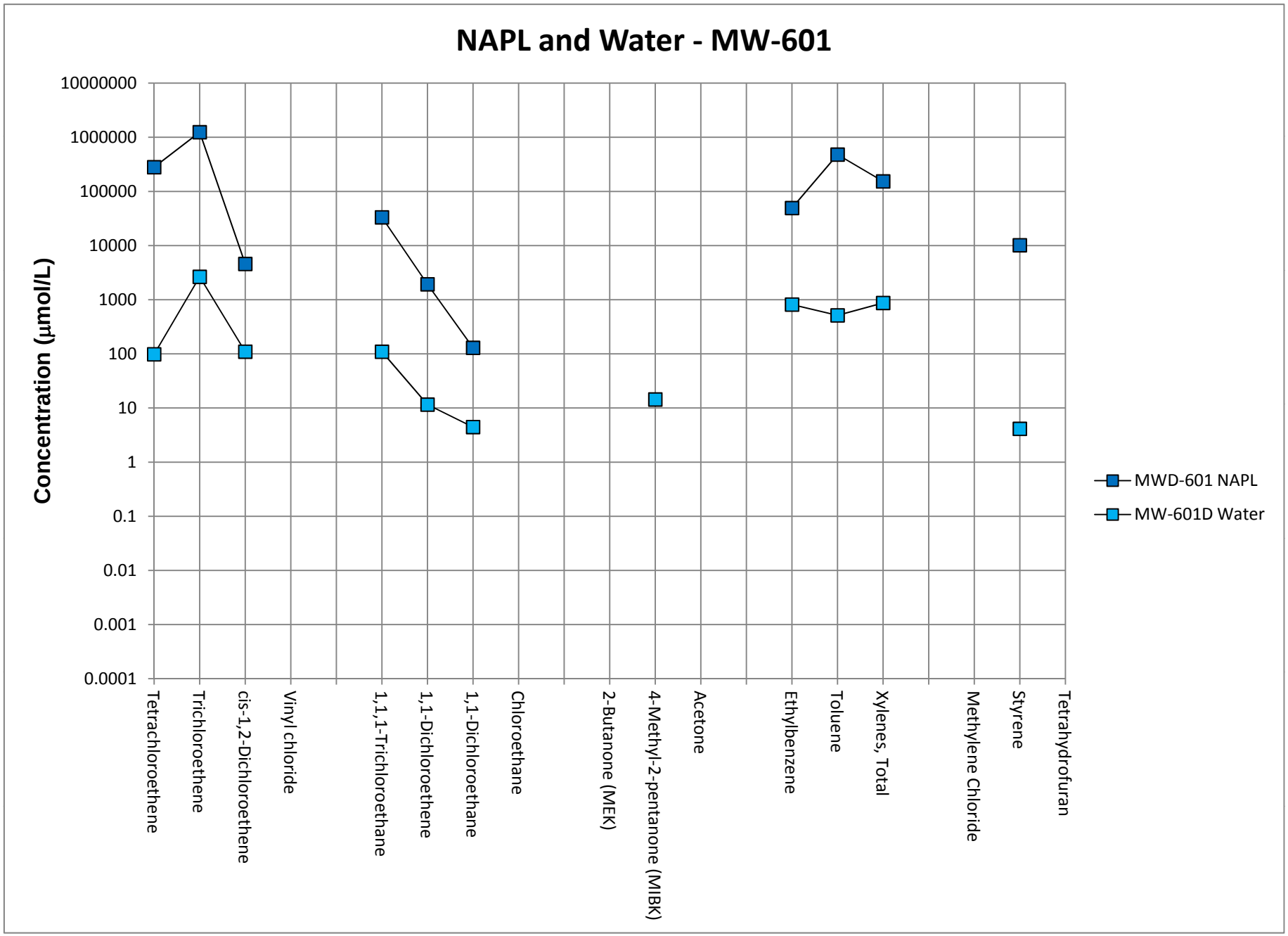
An assessment of the distribution of select volatile organic compounds (VOCs) in non-aqueous phase liquid (NAPL) and groundwater samples collected at locations with NAPL was conducted to gain insight into the VOC distributions in NAPL and groundwater in locations with NAPL. VOCs evaluated in this assessment included:

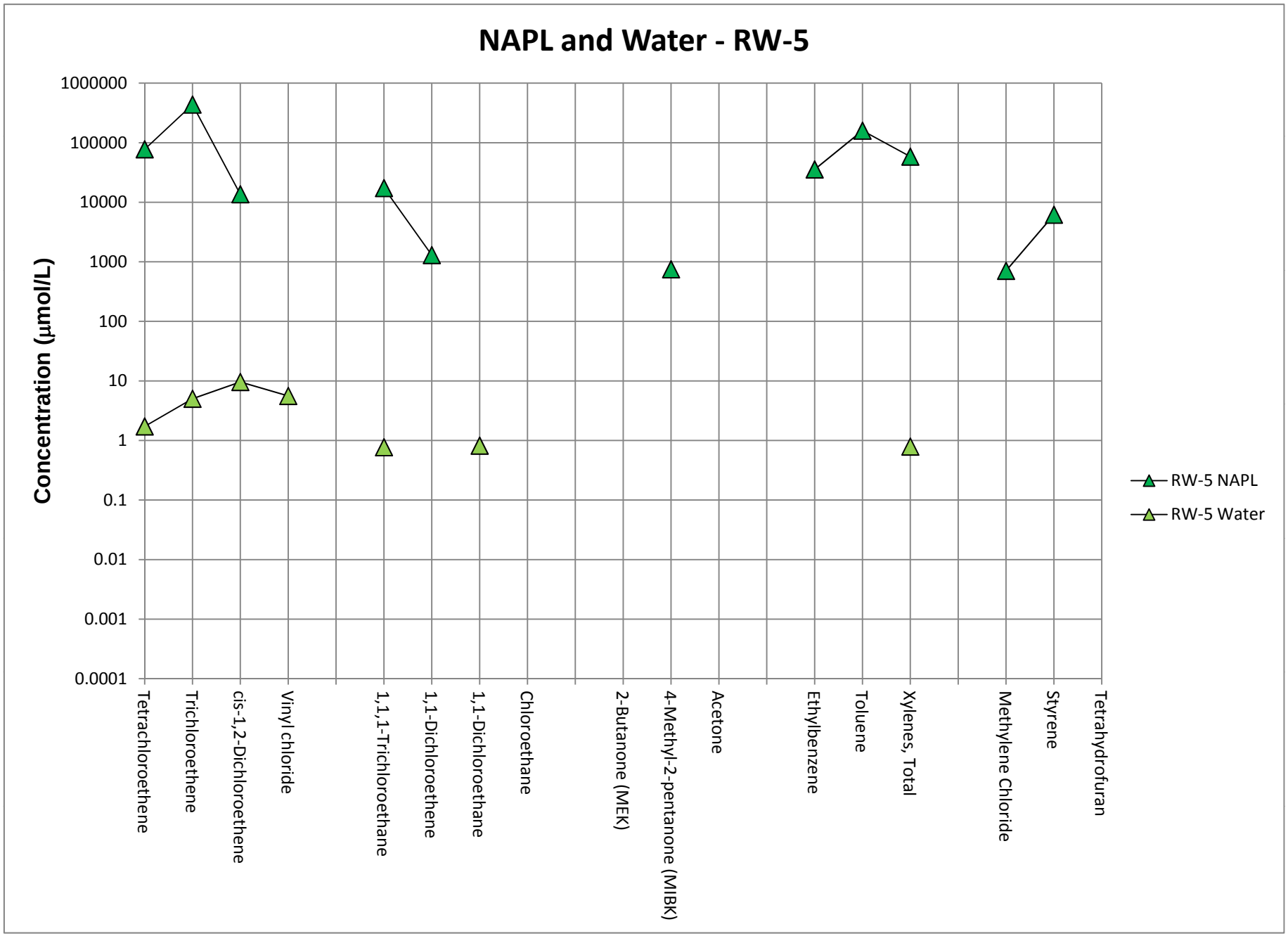
- chlorinated ethenes (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cDCE], 1,1-dichloroethene [1,1-DCE], and vinyl chloride [VC]);
- chlorinated ethanes (1,1,1-trichloroethane [TCA], 1,1-dichloroethane [1,1-DCA], and chloroethane [CA]);
- ketones (2-butanone [MEK], 4-methyl-2-pentanone [MIBK], and acetone);
- toluene, ethylbenzene, and xylenes (TEX); and
- methylene chloride, styrene, tetrahydrofuran (THF), and 1,4-dioxane.

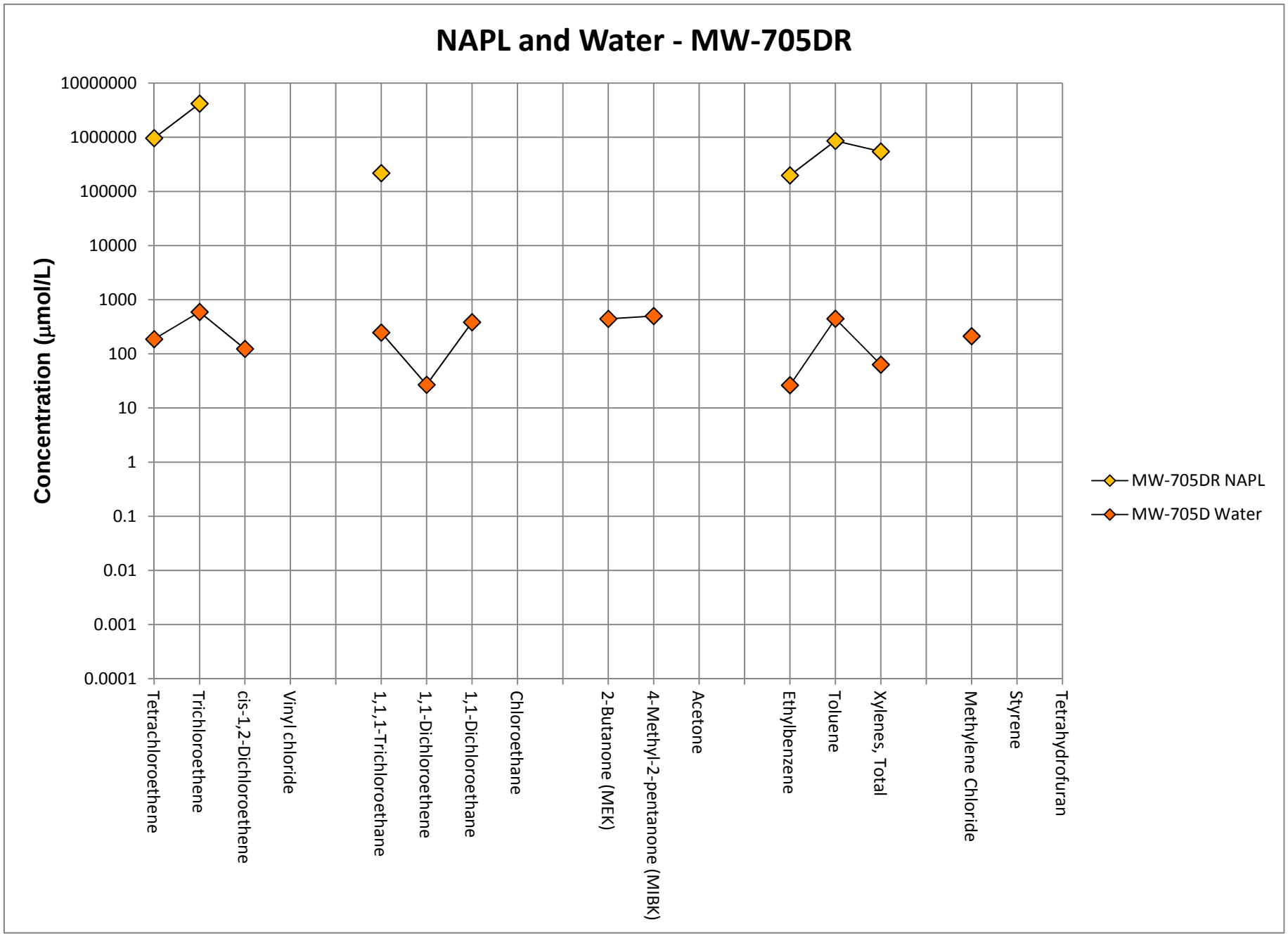
Molar concentrations were calculated for NAPL and contemporaneous, supernatant groundwater samples for these constituents and plotted on graphs with constituents distributed along the x-axis and molar concentration plotted on the y-axis.

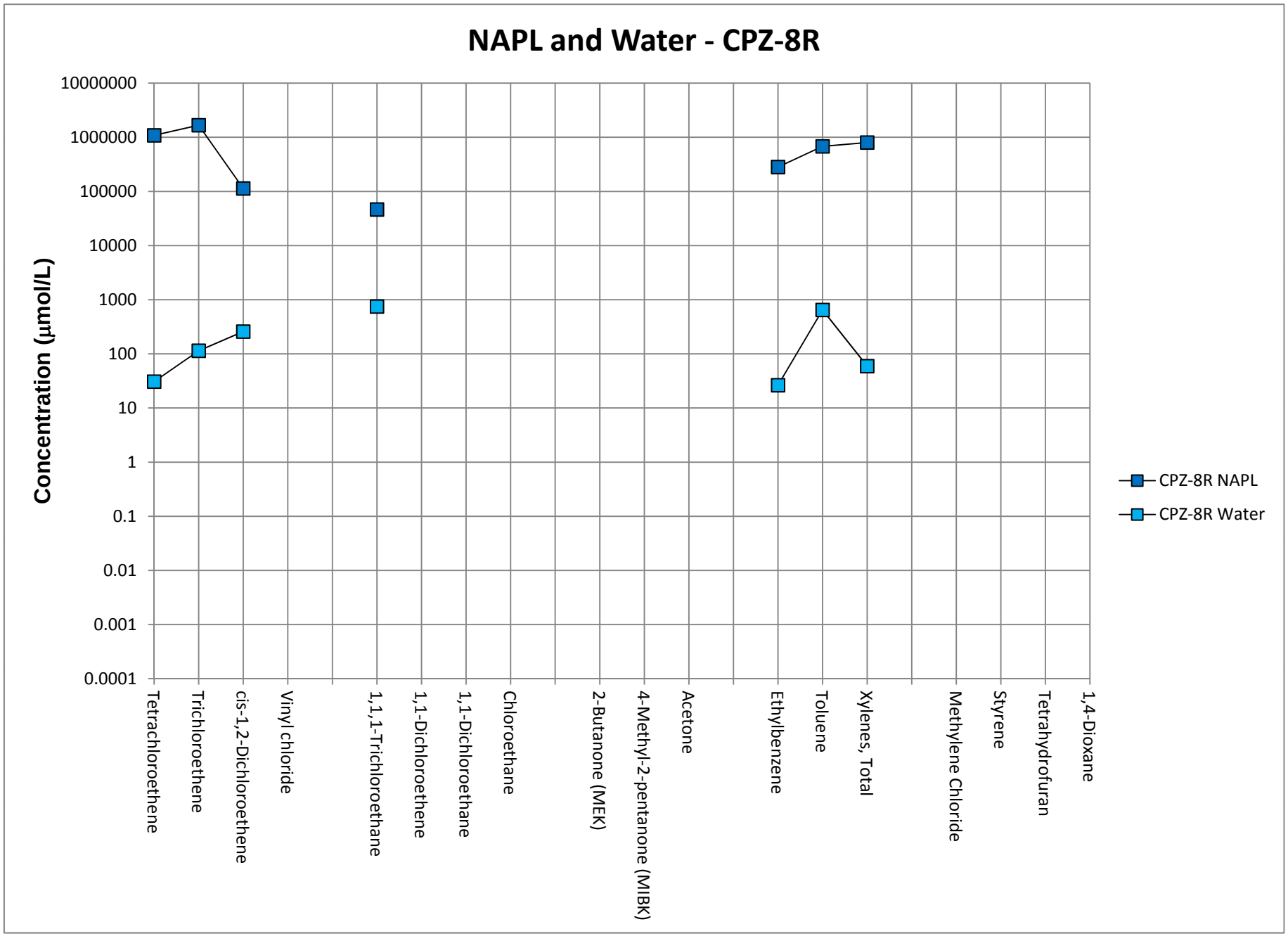
NAPL samples were comprised primarily of PCE, TCE, TCA, TEX, methylene chloride, and styrene, with lesser contributions from cDCE, 1,1-DCE, and 1,1-DCA. Ketones generally were not detected in NAPL samples, with the exception of MIBK in the RW-5 NAPL sample. 1,4-dioxane was not analyzed for these samples. In general, constituents detected in water samples collected at locations with NAPL reflected the distribution of constituents detected in NAPL, with some exceptions. Constituents detected in water but not in NAPL included cDCE, 1,1-DCE, 1,1-DCA, MEK, MIBK, and methylene chloride at wells RW-5 and MW-705DR. Constituents detected in NAPL but not in water included 1,1-DCE and MIBK at well RW-5. Overall, these results indicate that the detected groundwater constituents are generally consistent with NAPL constituents, with the exception of ketones. The general absence of detectable ketones in the NAPL samples likely relates to the elevated detection levels associated with the NAPL samples.

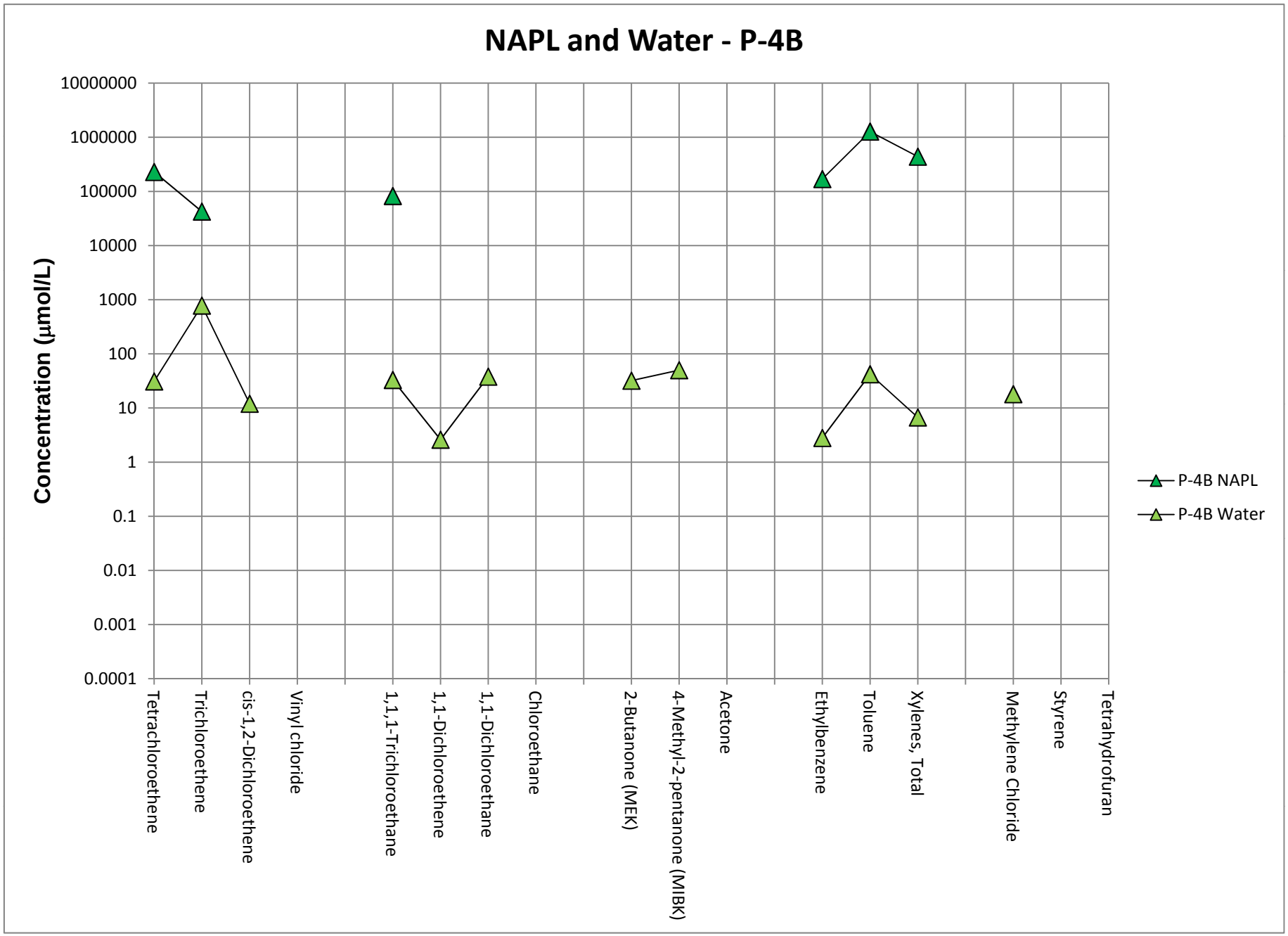

NAPL Samples
Concentration (µmol/L)
10000000
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
MWD-601
RW-5
IW-23
MW-705DR
CPZ-8R
P-4B
PZ-906DR


NAPL and Water - MW-601
Concentration (µmol/L)
10000000
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
MWD-601 NAPL
MW-601D Water


NAPL and Water - RW-5
Concentration (µmol/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
RW-5 NAPL
RW-5 Water


NAPL and Water - MW-705DR
Concentration (µmol/L)
10000000
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
MW-705DR NAPL
MW-705D Water


NAPL and Water - CPZ-8R
Concentration (µmol/L)
10000000
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
CPZ-8R NAPL
CPZ-8R Water


NAPL and Water - P-4B
Concentration (µmol/L)
10000000
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
P-4B NAPL
P-4B Water

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Appendix D

Distribution of Select VOCs in Groundwater by Hydrostratigraphic Units for all 2014 Comprehensive Groundwater Monitoring Locations

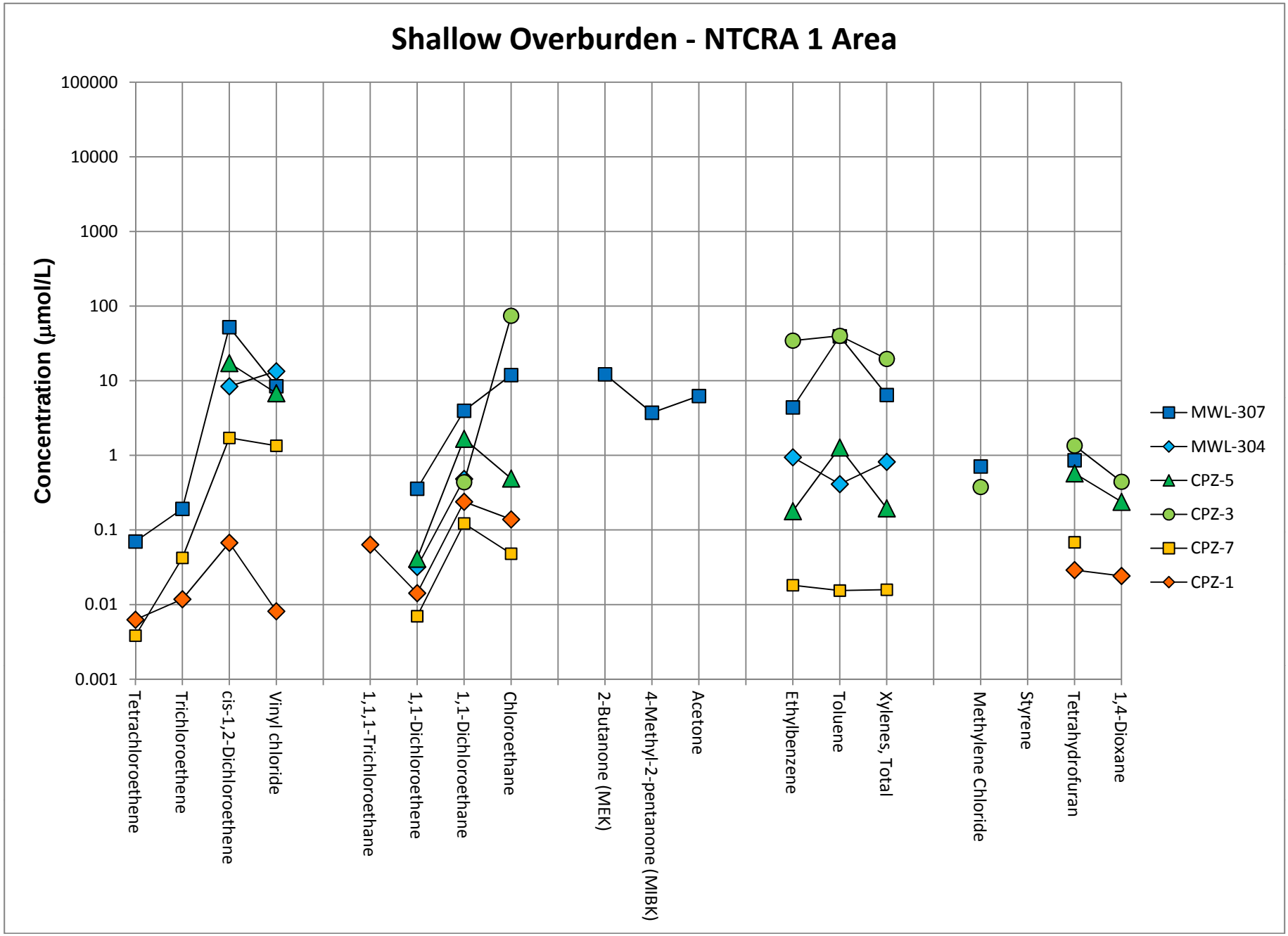
APPENDIX D – DISTRIBUTION OF VOCS IN GROUNDWATER BY LOCATION

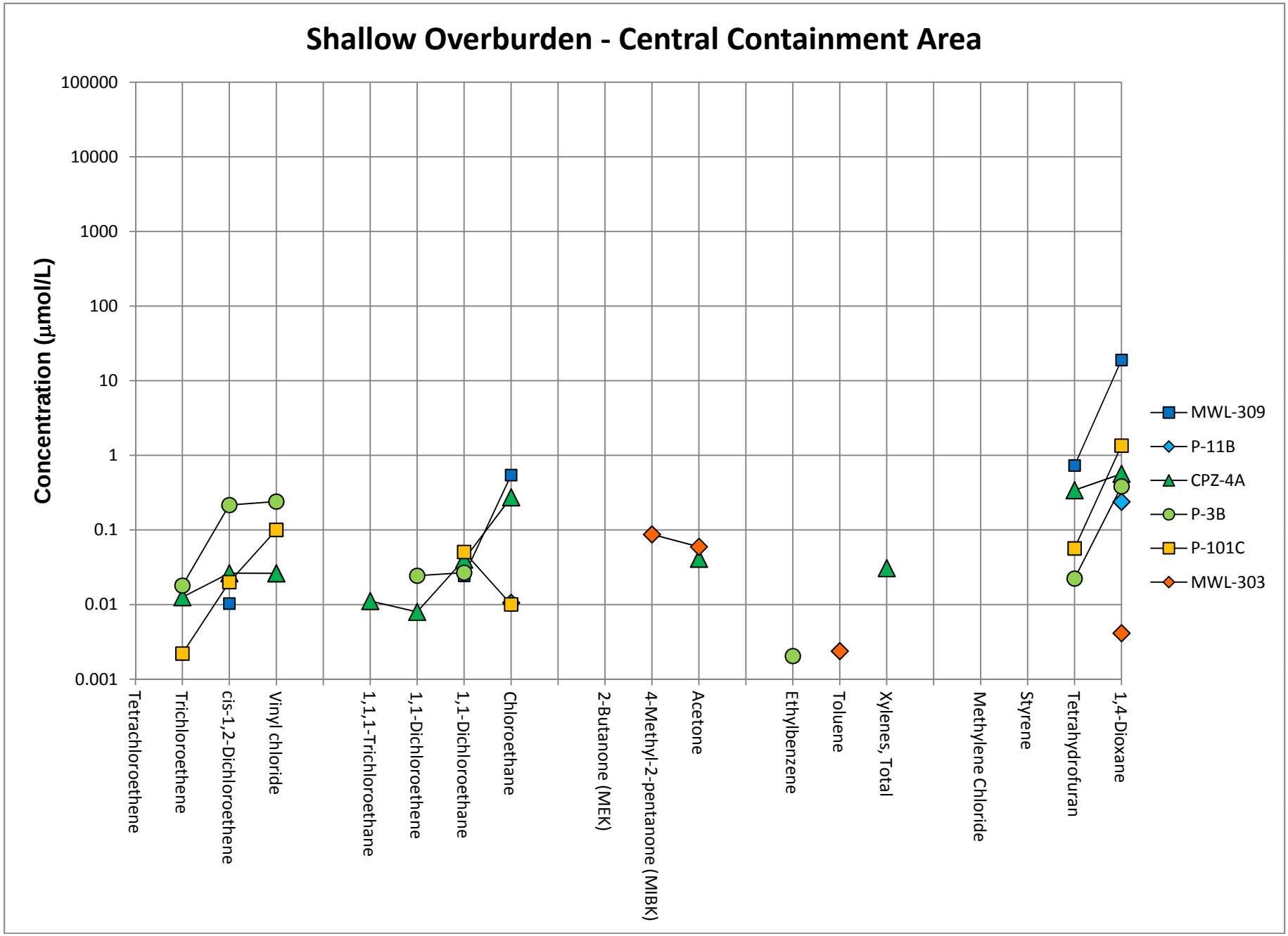
An assessment of the distribution of select volatile organic compounds (VOCs) in groundwater samples was conducted to gain insight into how VOC distributions in Site groundwater varied by location. VOCs evaluated in this assessment included:

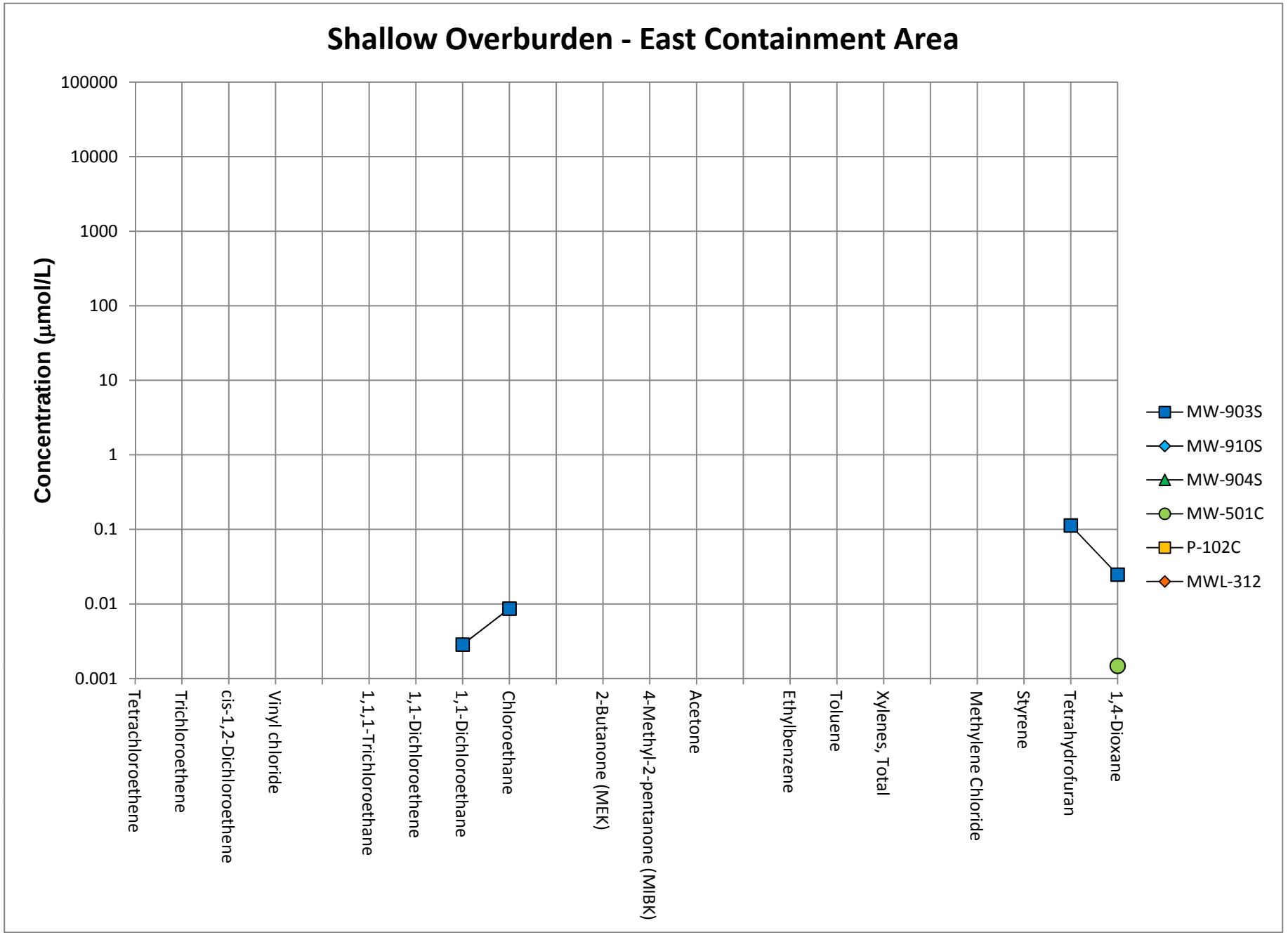
- chlorinated ethenes (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cDCE], 1,1-dichloroethene [1,1-DCE], and vinyl chloride [VC]);
- chlorinated ethanes (1,1,1-trichloroethane [TCA], 1,1-dichloroethane [1,1-DCA], and chloroethane [CA]);
- ketones (2-butanone [MEK], 4-methyl-2-pentanone [MIBK], and acetone);
- toluene, ethylbenzene, and xylenes (TEX); and
- methylene chloride, styrene, tetrahydrofuran (THF), and 1,4-dioxane.

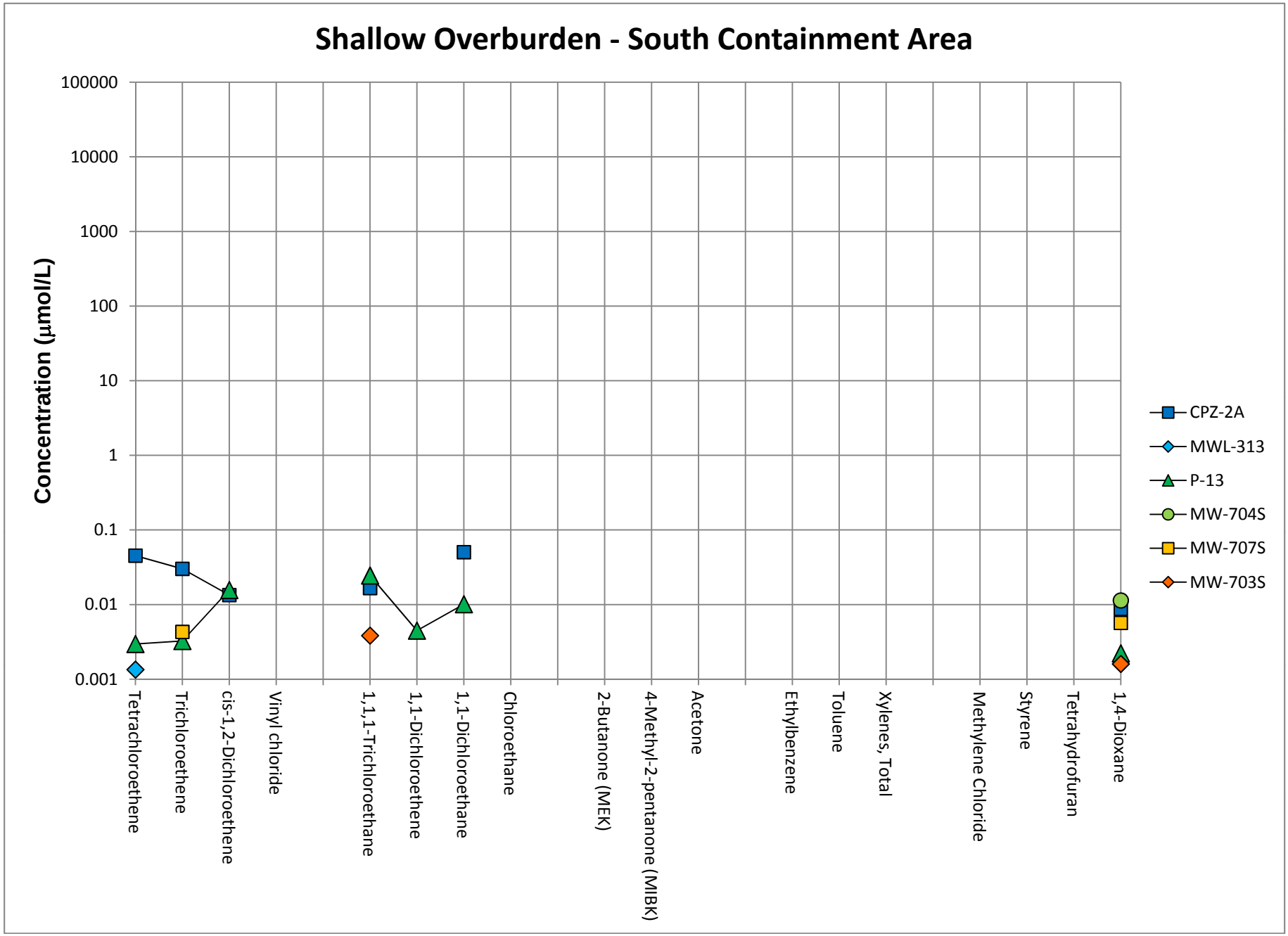
Molar concentrations were calculated for groundwater for these constituents and plotted on graphs with constituents distributed along the x-axis and molar concentration plotted on the y-axis.

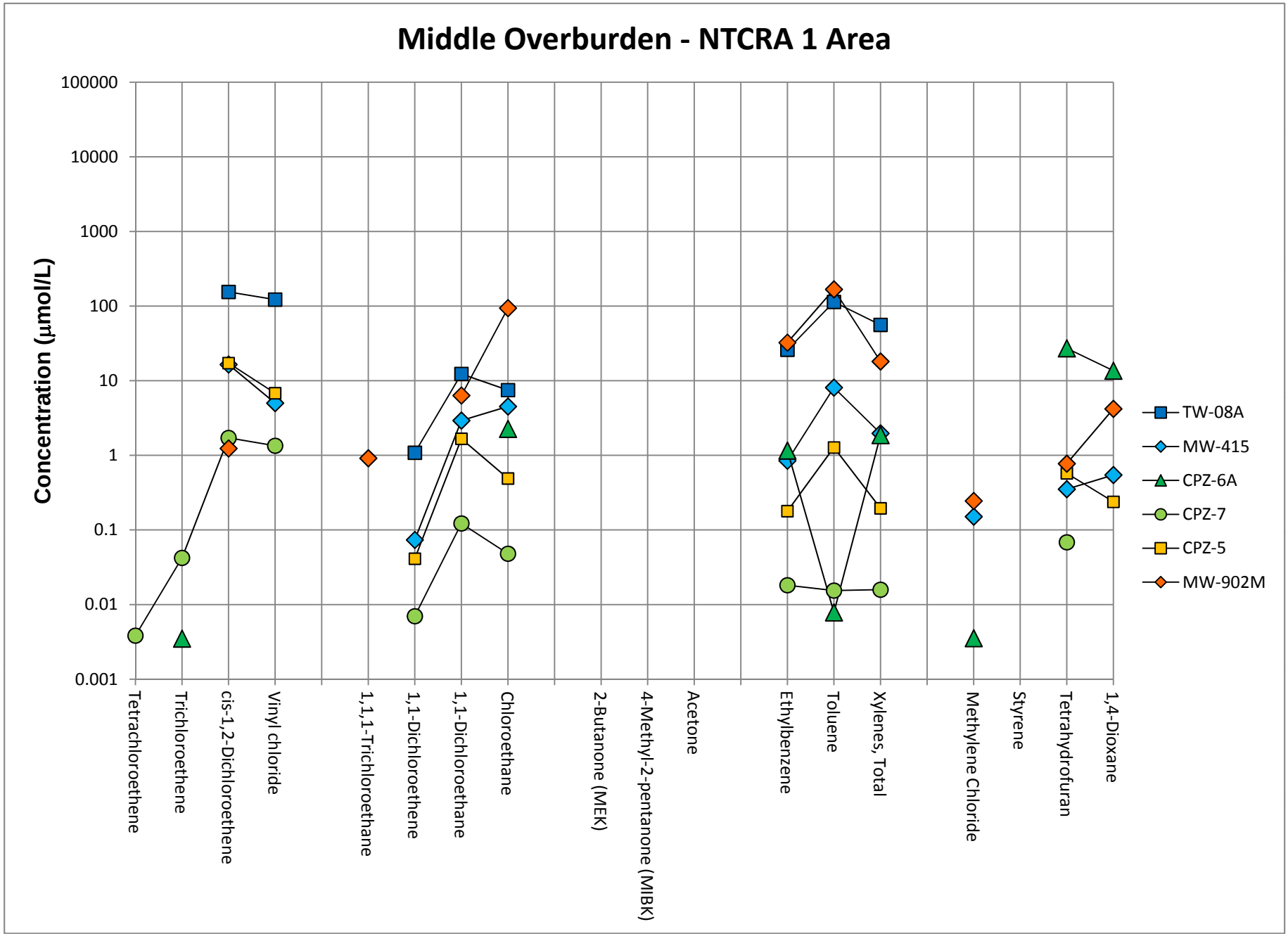
Molar VOC concentration plots for groundwater samples collected during the June 2014 comprehensive monitoring event were grouped by hydrostratigraphic unit and by relative proximity to the Non-Time-Critical Removal Action (NTCRA) 1 source area, the overburden and groundwater containment area and downgradient of the groundwater containment boundaries. In general, constituent concentrations in groundwater were greatest in the NTCRA 1 area with consistently decreasing primary constituent (e.g., TCE, TCA, ketones, and TEX) concentrations observed in directions downgradient from the NTCRA 1 area. PCE and TCE concentrations were proportionally lower in groundwater than in NAPL samples (relative to other VOCs), indicating robust depletion of PCE and TCE from groundwater via degradation processes. At most locations, the sum of degradation product concentrations, including cDCE plus VC and 1,1-DCE plus 1,1-DCA and CA were greater than concentrations of their respective parent compounds PCE, TCE, and TCA. These results clearly demonstrate that degradation of the parent compounds is occurring in Site groundwater. Concentrations of ketone and TEX decline with distance from the NTCRA 1 area, often with only low concentrations of acetone and toluene remaining in groundwater in distal portions of the plume. THF and 1,4-dioxane concentrations were higher in some containment area wells compared with NTCRA 1 area wells. THF and 1,4-dioxane were detected at very low concentrations or were not detected in groundwater outside of the overburden and bedrock containment boundaries.

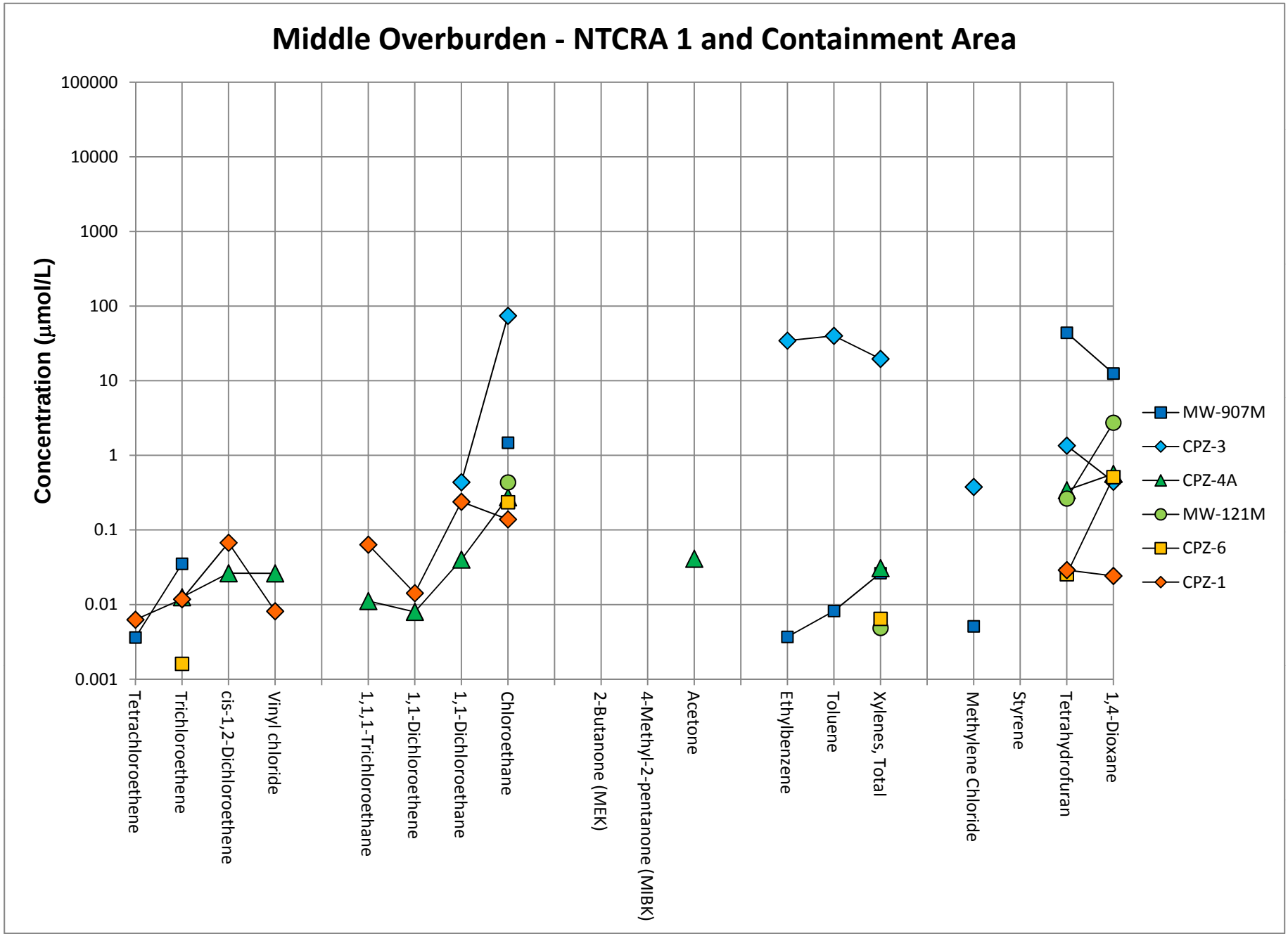

Shallow Overburden - NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MWL-307
MWL-304
CPZ-5
CPZ-3
CPZ-7
CPZ-1

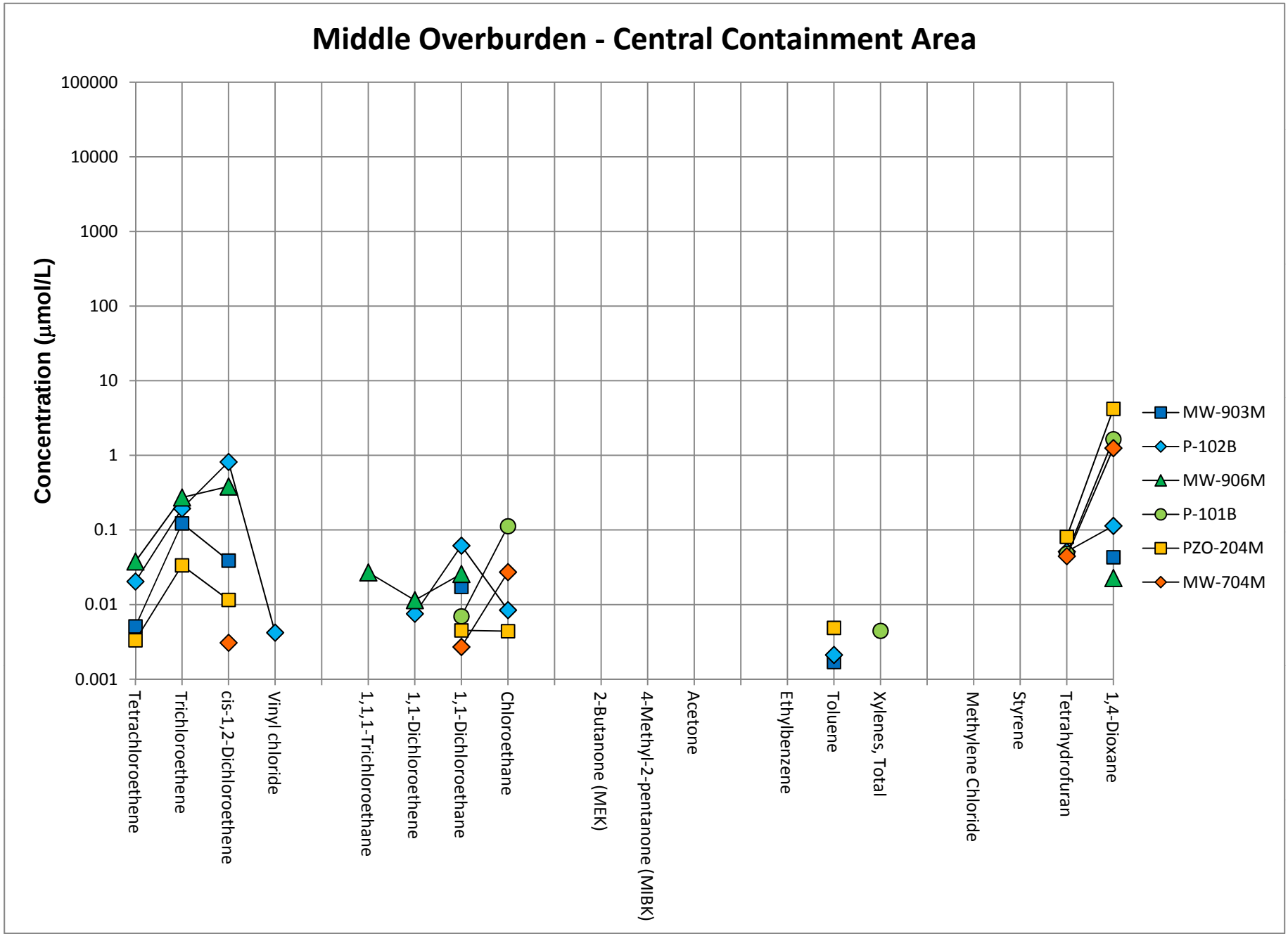

Shallow Overburden - Central Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MWL-309
P-11B
CPZ-4A
P-3B
P-101C
MWL-303

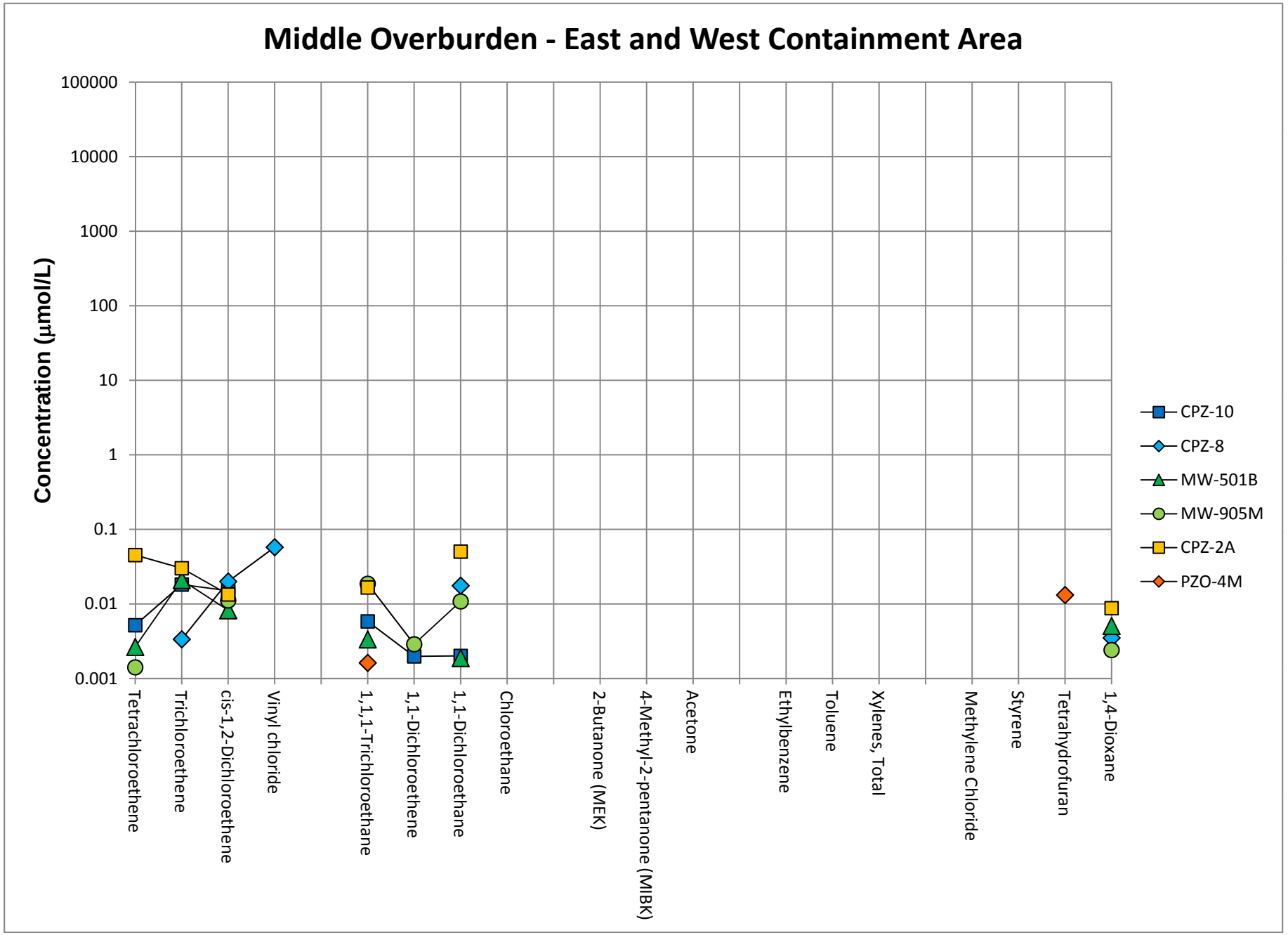

Shallow Overburden - East Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-903S
MW-910S
MW-904S
MW-501C
P-102C
MWL-312

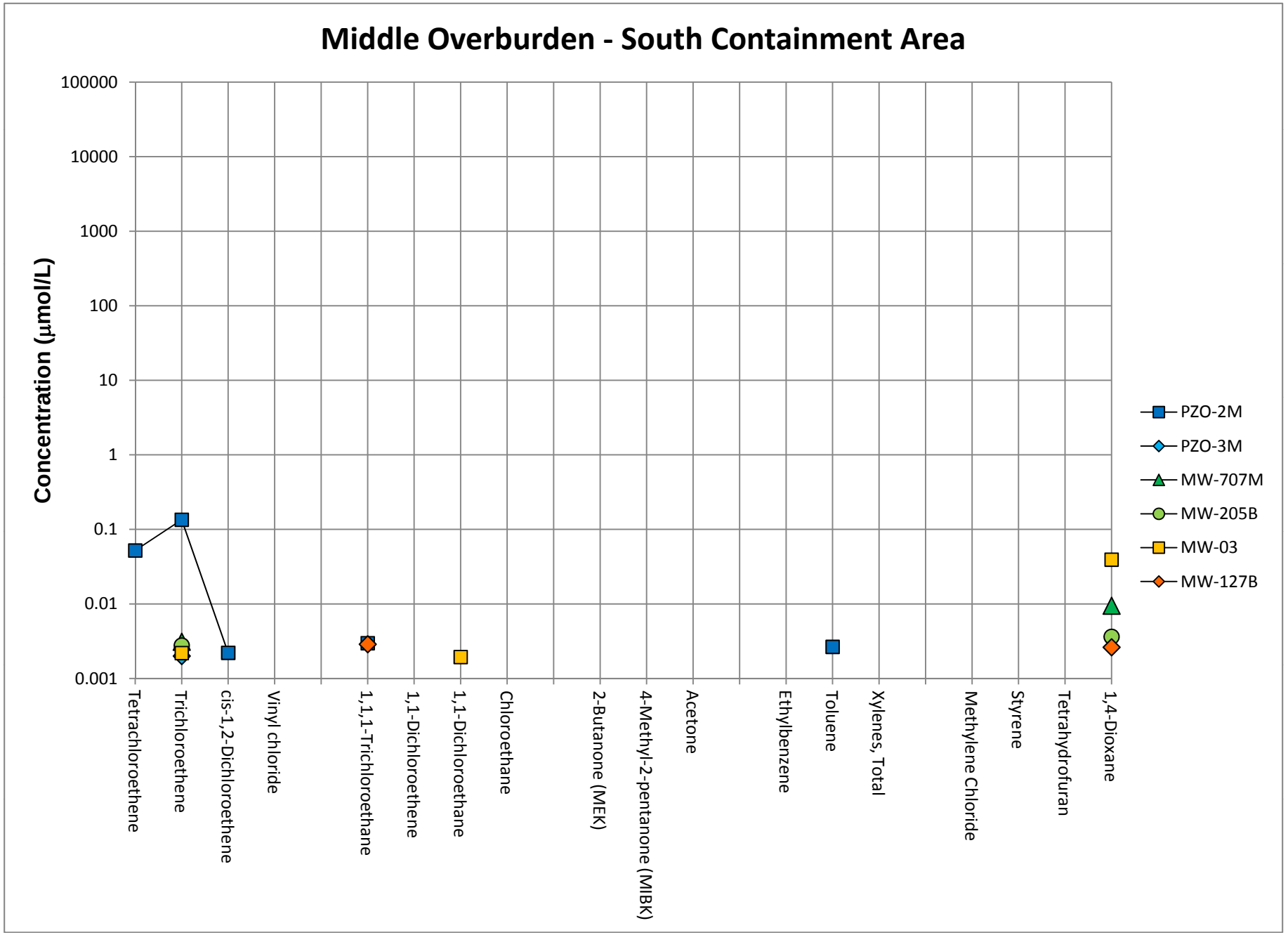

Shallow Overburden - South Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
CPZ-2A
MWL-313
P-13
MW-704S
MW-707S
MW-703S

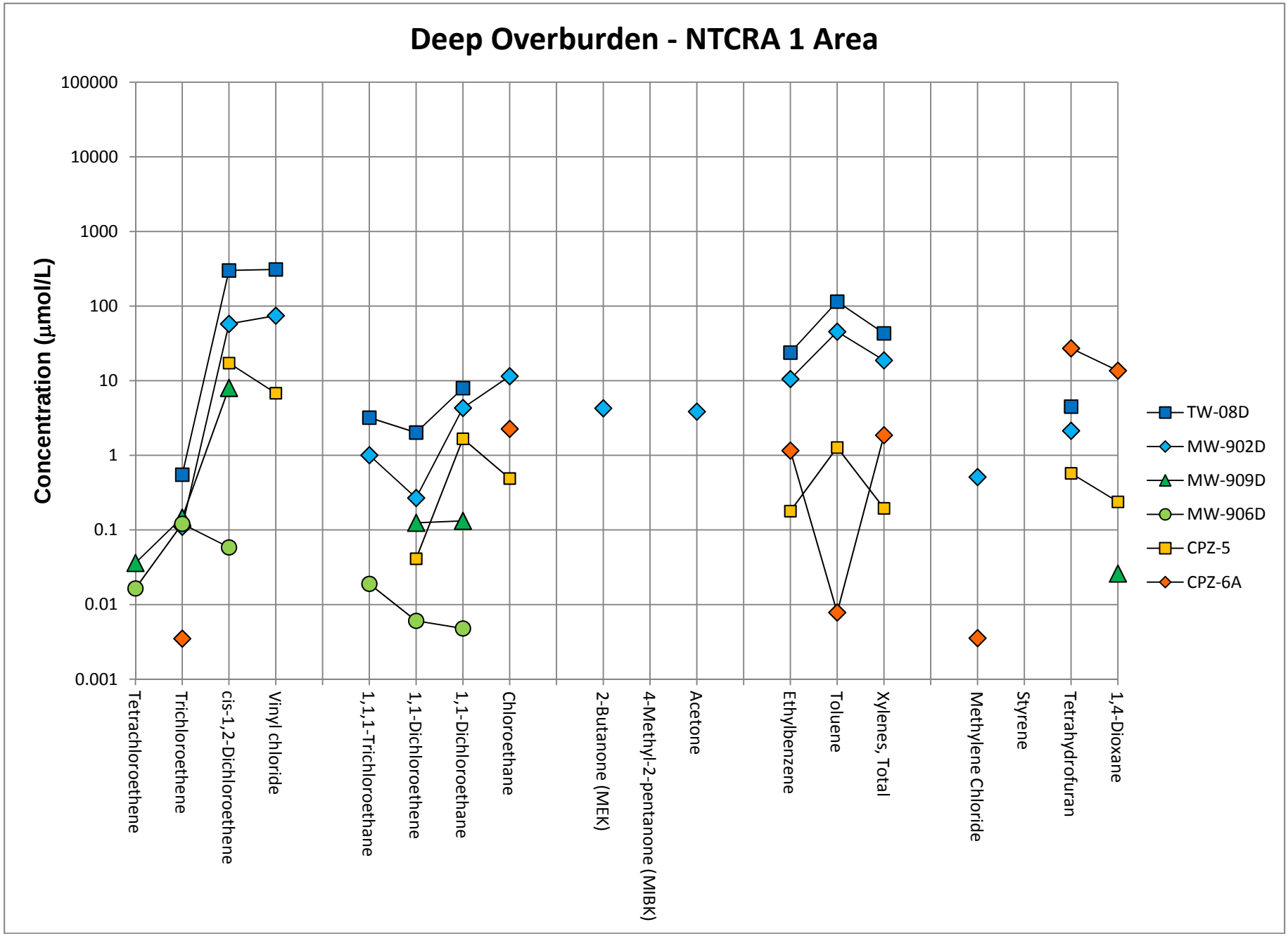

Middle Overburden - NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
TW-08A
MW-415
CPZ-6A
CPZ-7
CPZ-5
MW-902M

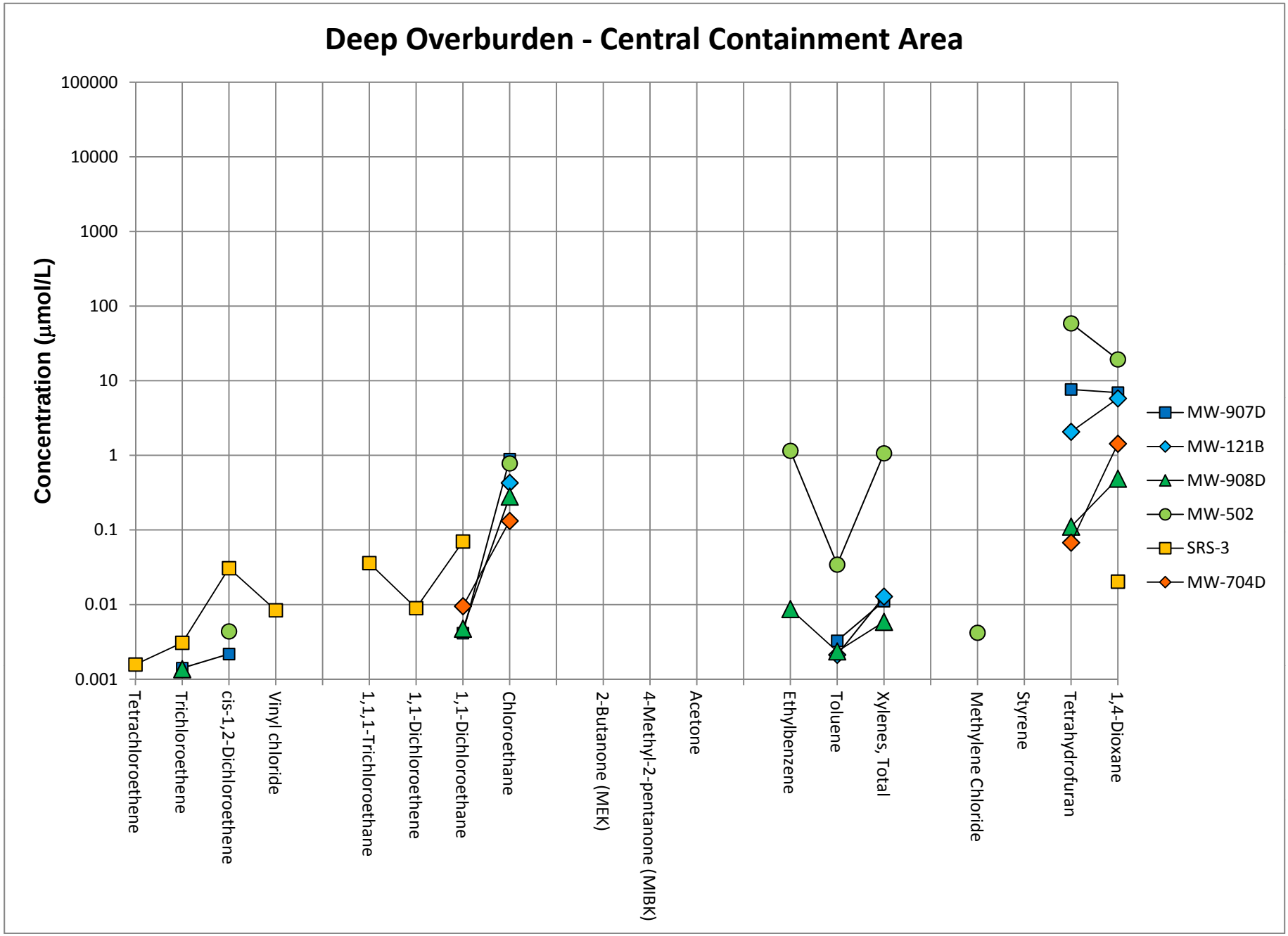

Middle Overburden - NTCRA 1 and Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-907M
CPZ-3
CPZ-4A
MW-121M
CPZ-6
CPZ-1

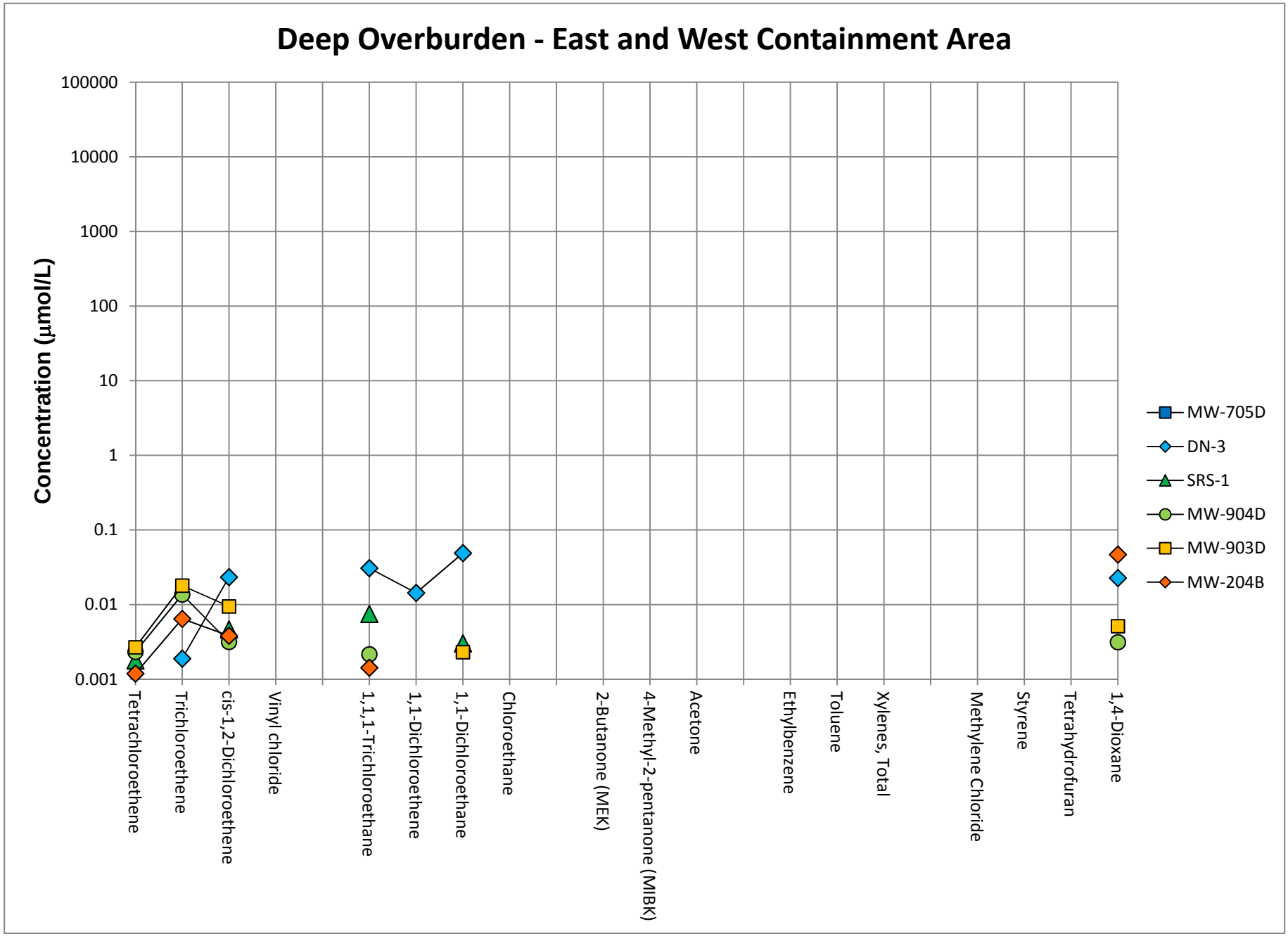

Middle Overburden - Central Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-903M
P-102B
MW-906M
P-101B
PZO-204M
MW-704M

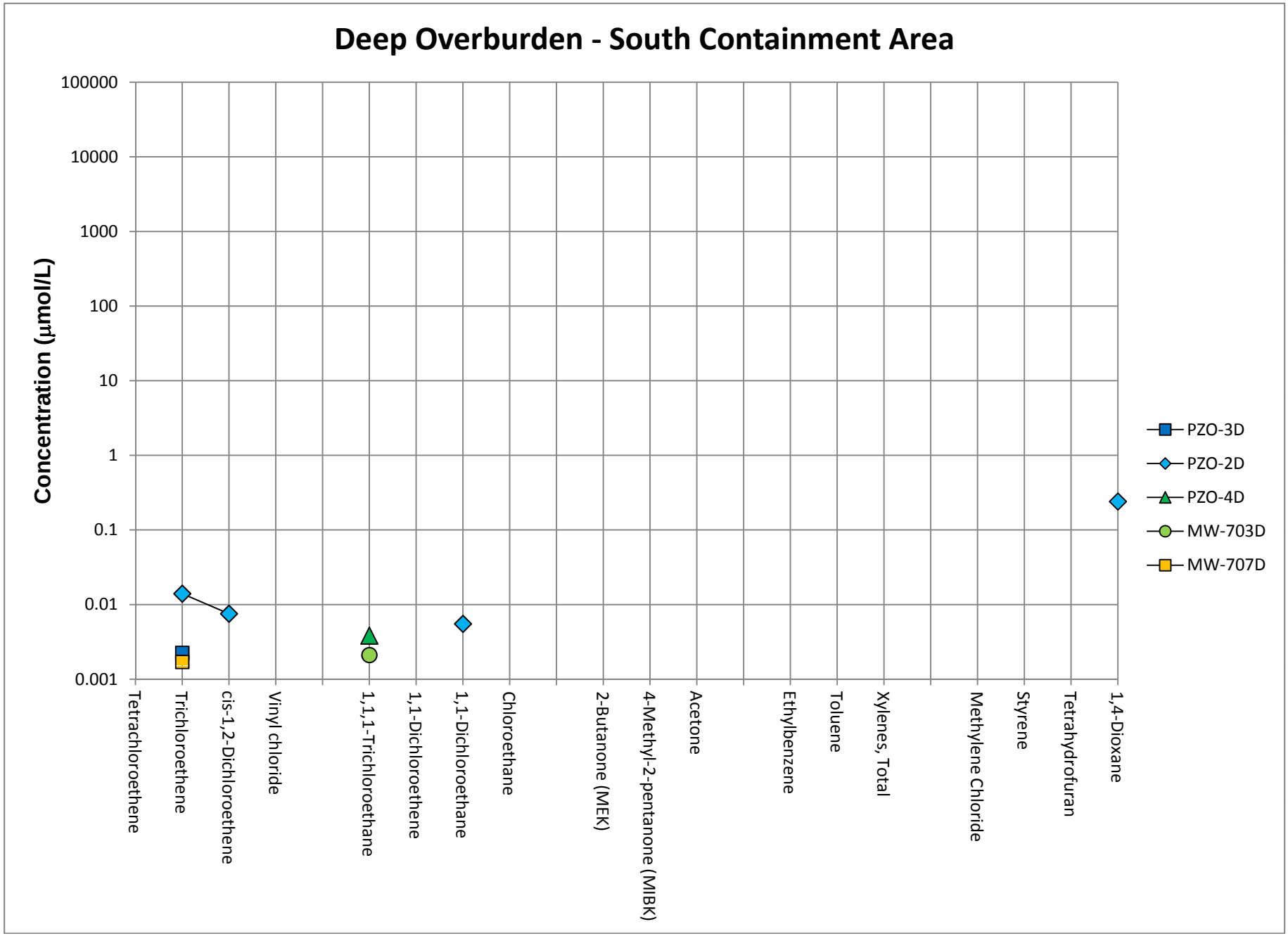

Middle Overburden - East and West Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
CPZ-10
CPZ-8
MW-501B
MW-905M
CPZ-2A
PZO-4M

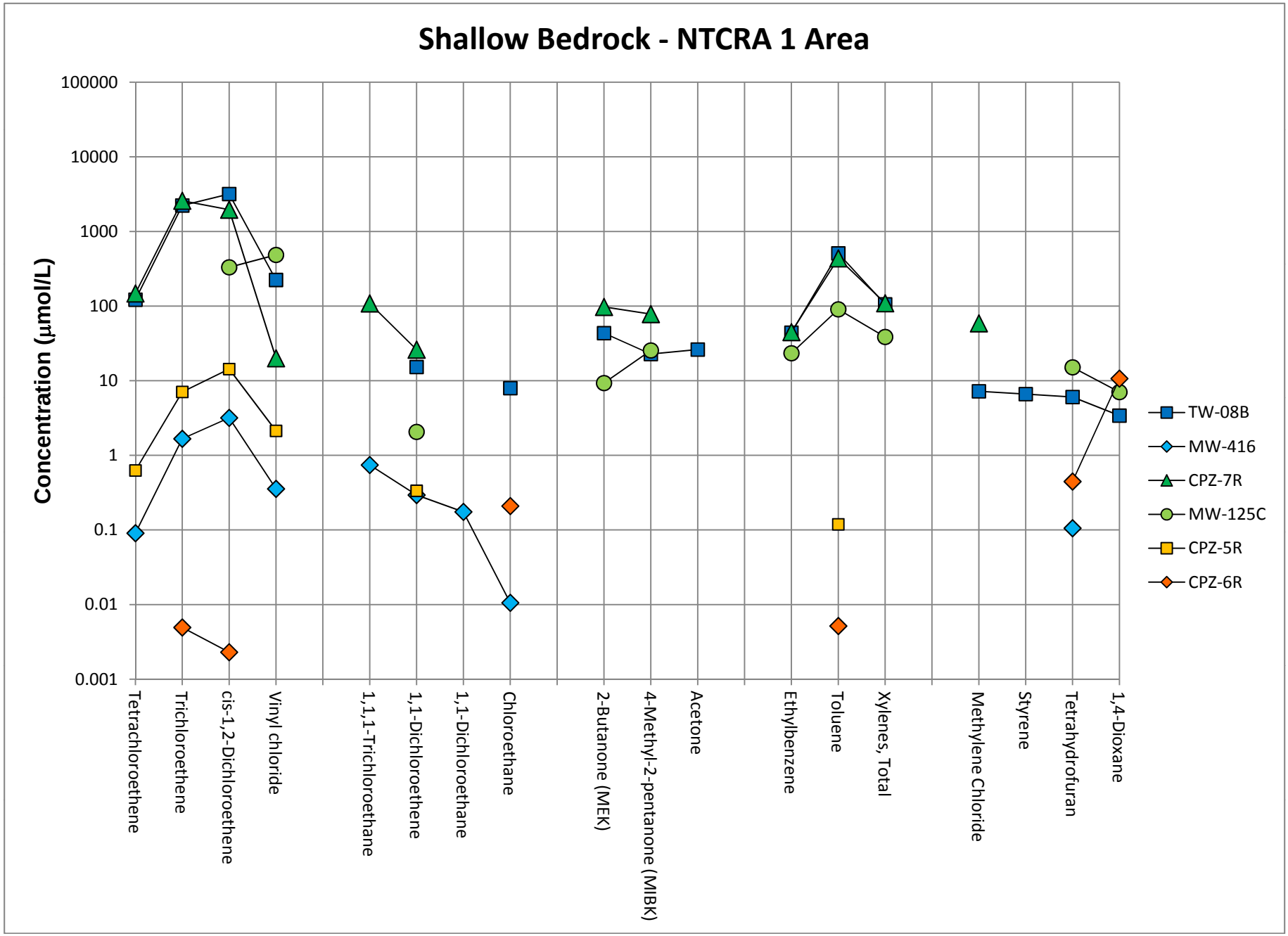

Middle Overburden - South Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
PZO-2M
PZO-3M
MW-707M
MW-205B
MW-03
MW-127B

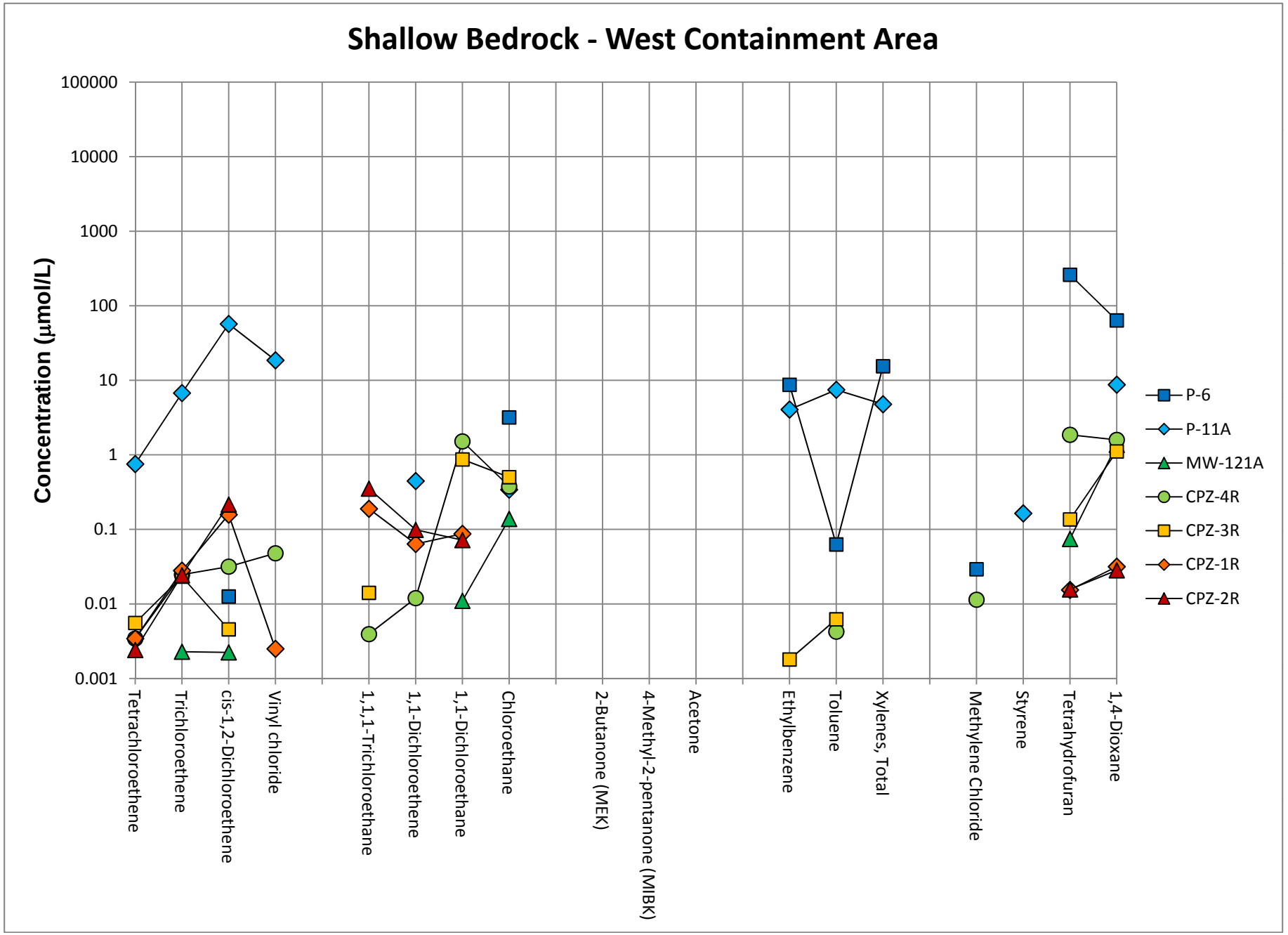

Deep Overburden - NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
TW-08D
MW-902D
MW-909D
MW-906D
CPZ-5
CPZ-6A

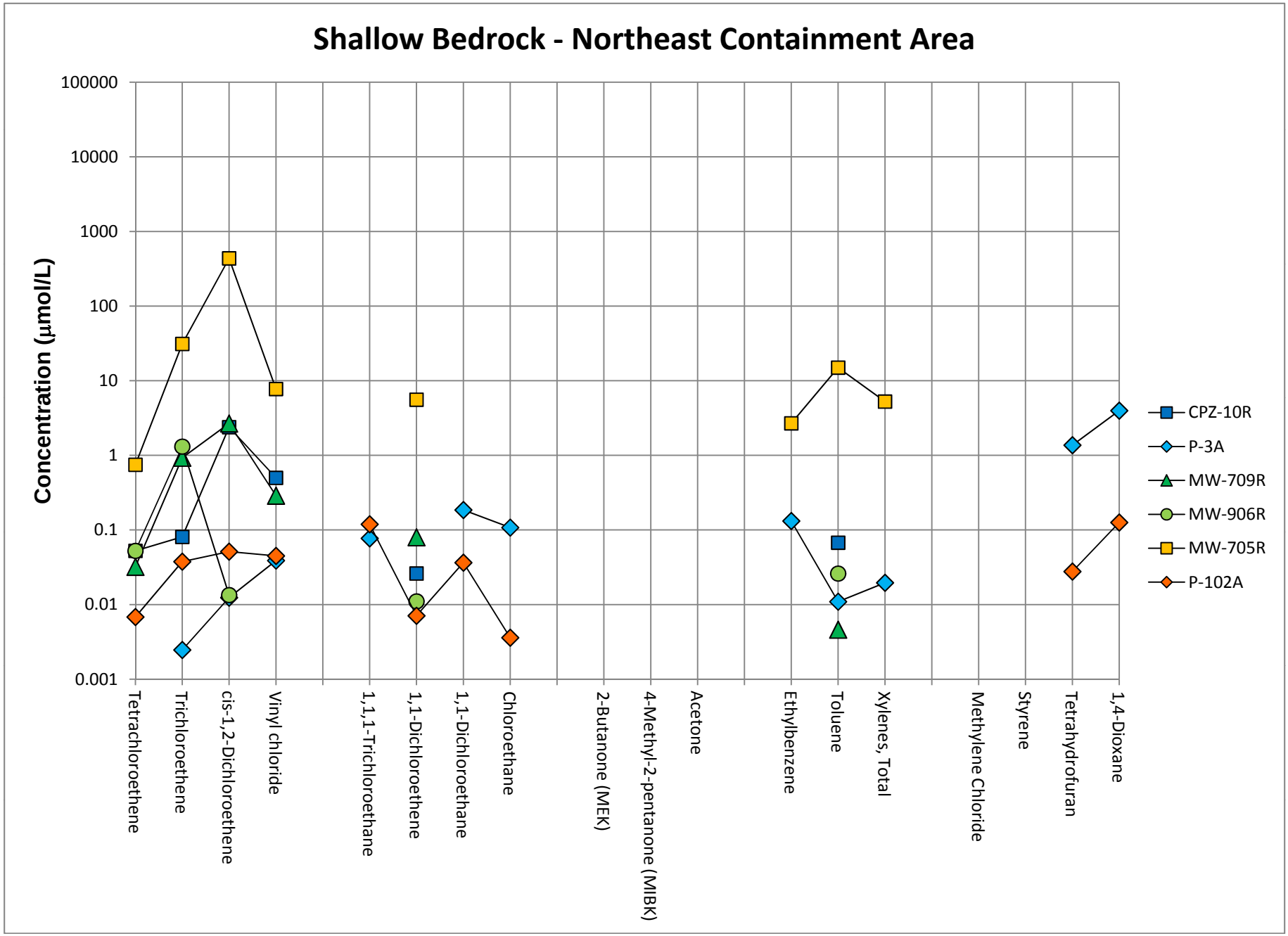

Deep Overburden - Central Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-907D
MW-121B
MW-908D
MW-502
SRS-3
MW-704D

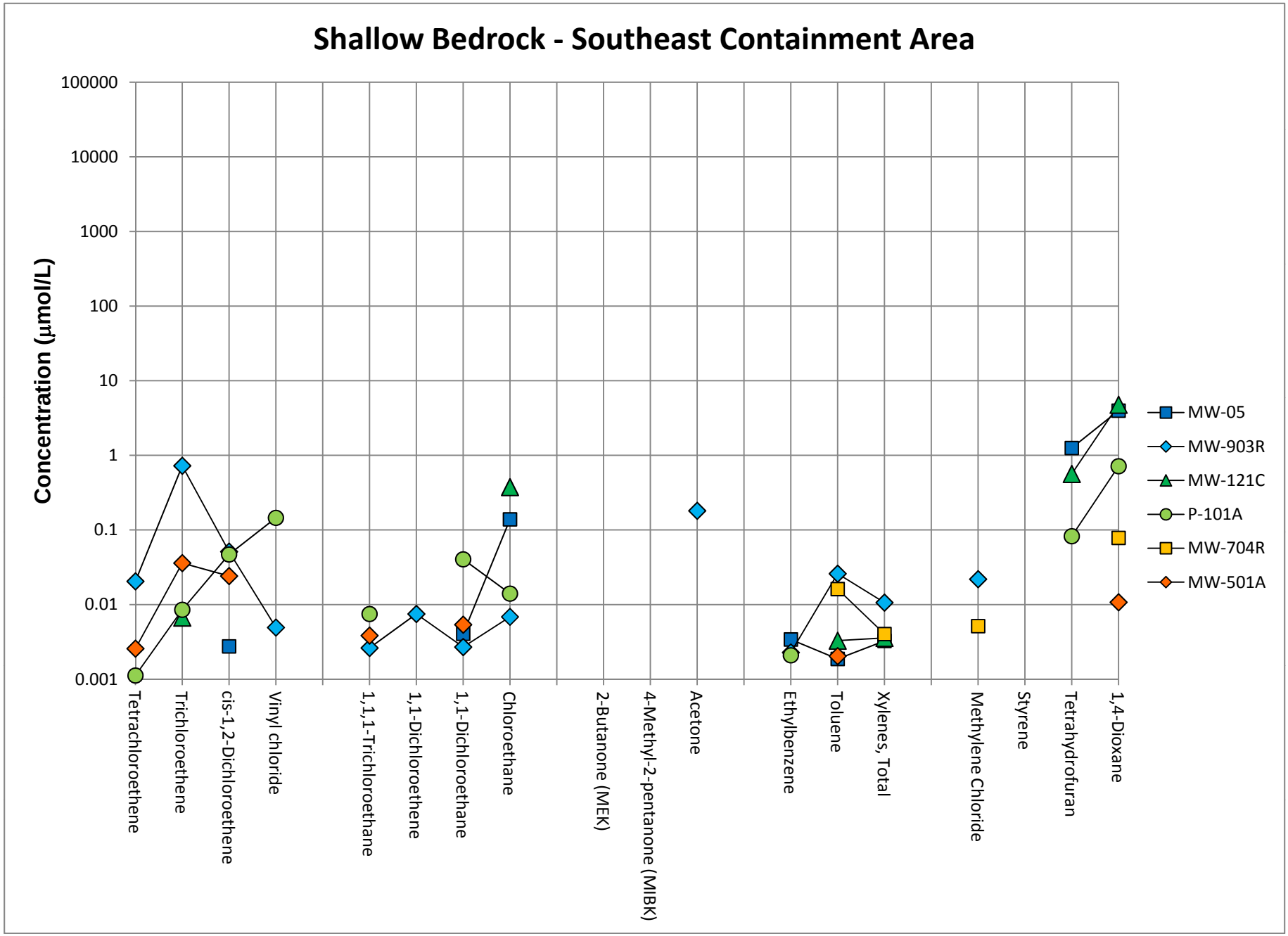

Deep Overburden - East and West Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-705D
DN-3
SRS-1
MW-904D
MW-903D
MW-204B


Deep Overburden - South Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
PZO-3D
PZO-2D
PZO-4D
MW-703D
MW-707D

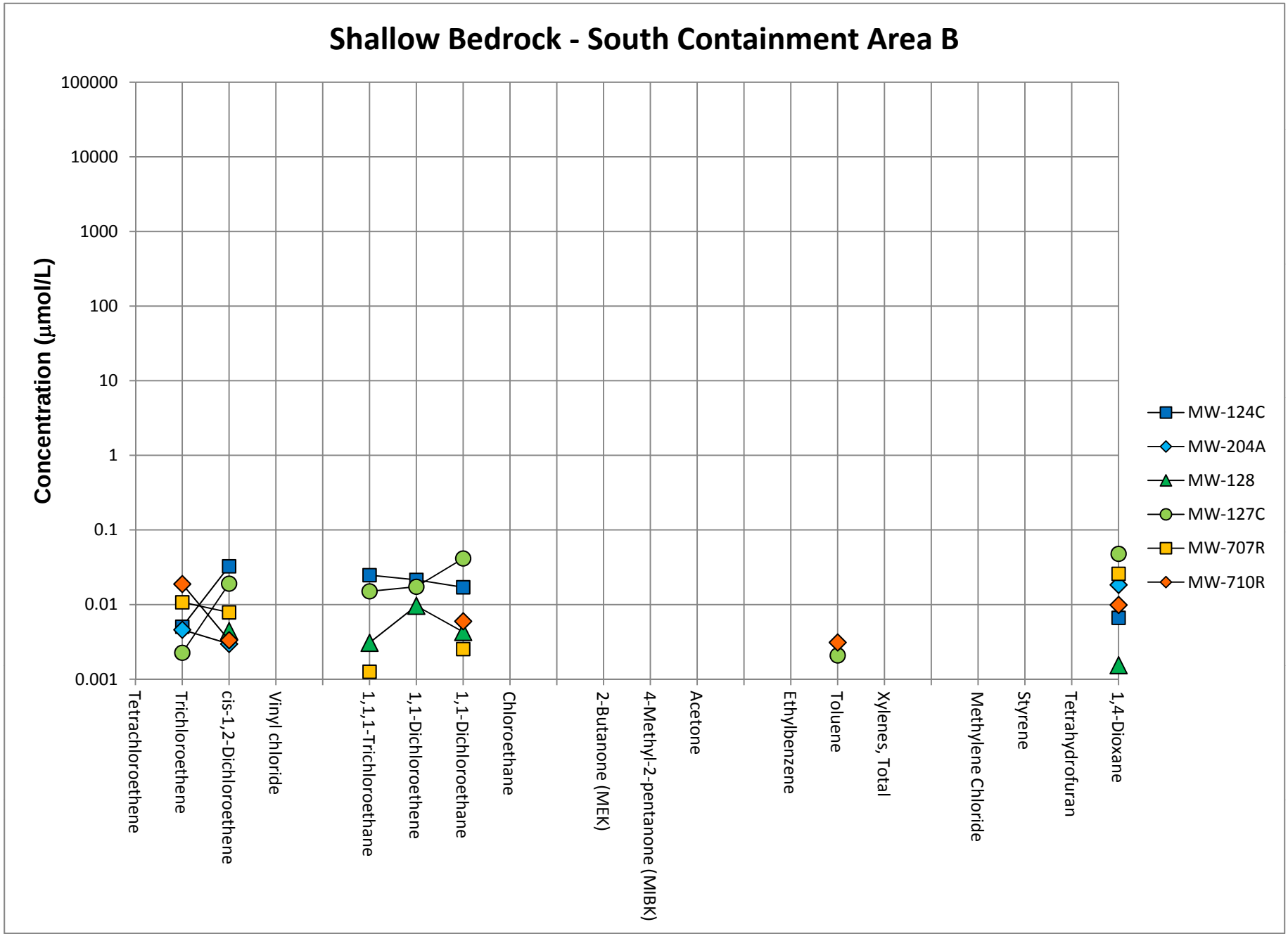

Shallow Bedrock - NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
TW-08B
MW-416
CPZ-7R
MW-125C
CPZ-5R
CPZ-6R

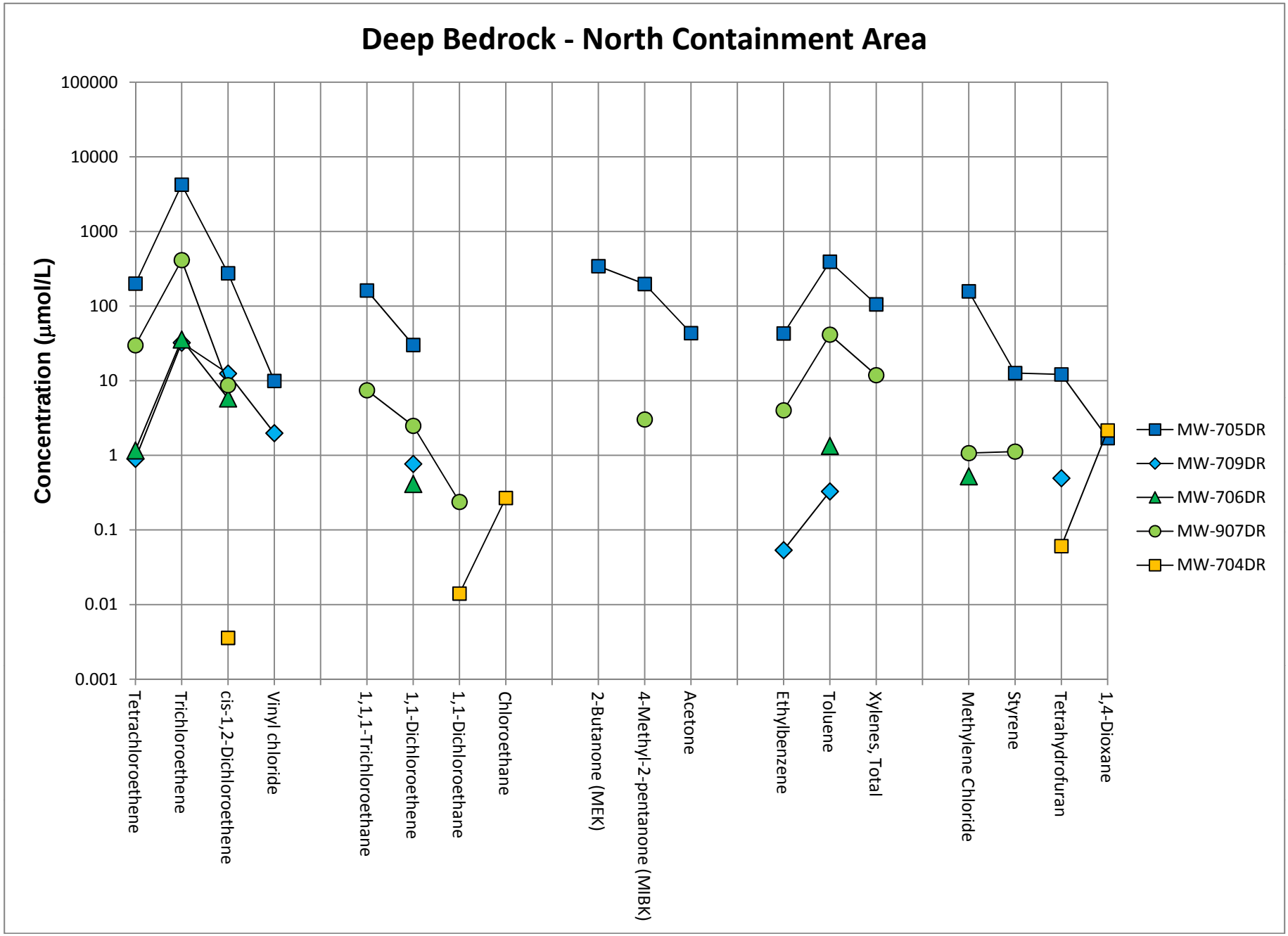

Shallow Bedrock - West Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
P-6
P-11A
MW-121A
CPZ-4R
CPZ-3R
CPZ-1R
CPZ-2R

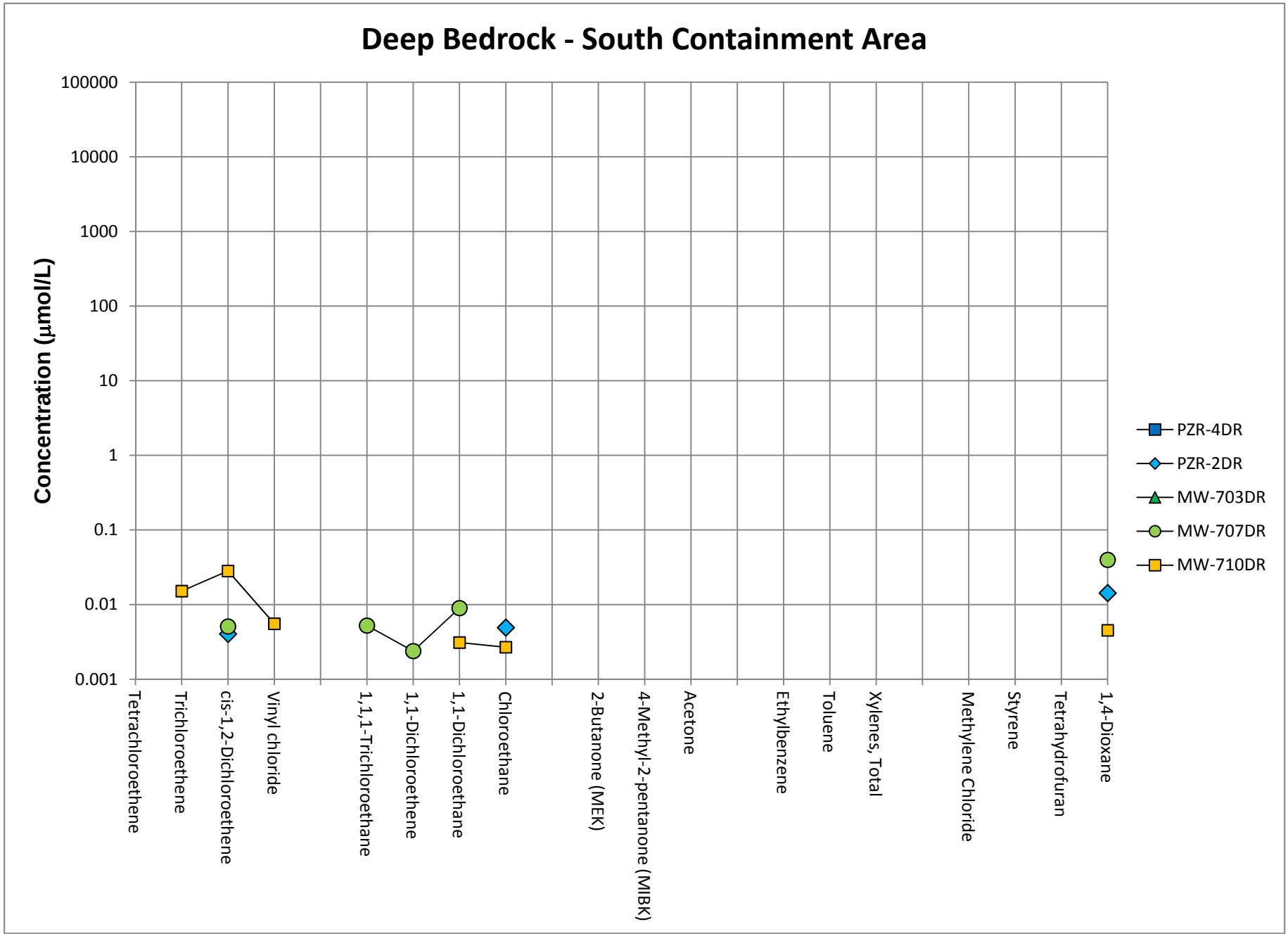

Shallow Bedrock - Northeast Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
CPZ-10R
P-3A
MW-709R
MW-906R
MW-705R
P-102A


Shallow Bedrock - Southeast Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-05
MW-903R
MW-121C
P-101A
MW-704R
MW-501A

Shallow Bedrock - South Containment Area A


Shallow Bedrock - South Containment Area B
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-124C
MW-204A
MW-128
MW-127C
MW-707R
MW-710R


Deep Bedrock - North Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
MW-705DR
MW-709DR
MW-706DR
MW-907DR
MW-704DR


Deep Bedrock - South Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioxane
PZR-4DR
PZR-2DR
MW-703DR
MW-707DR
MW-710DR

ARCADIS

Appendix E

Distribution of Select VOCs in Groundwater with Time at Select Monitoring Well Locations

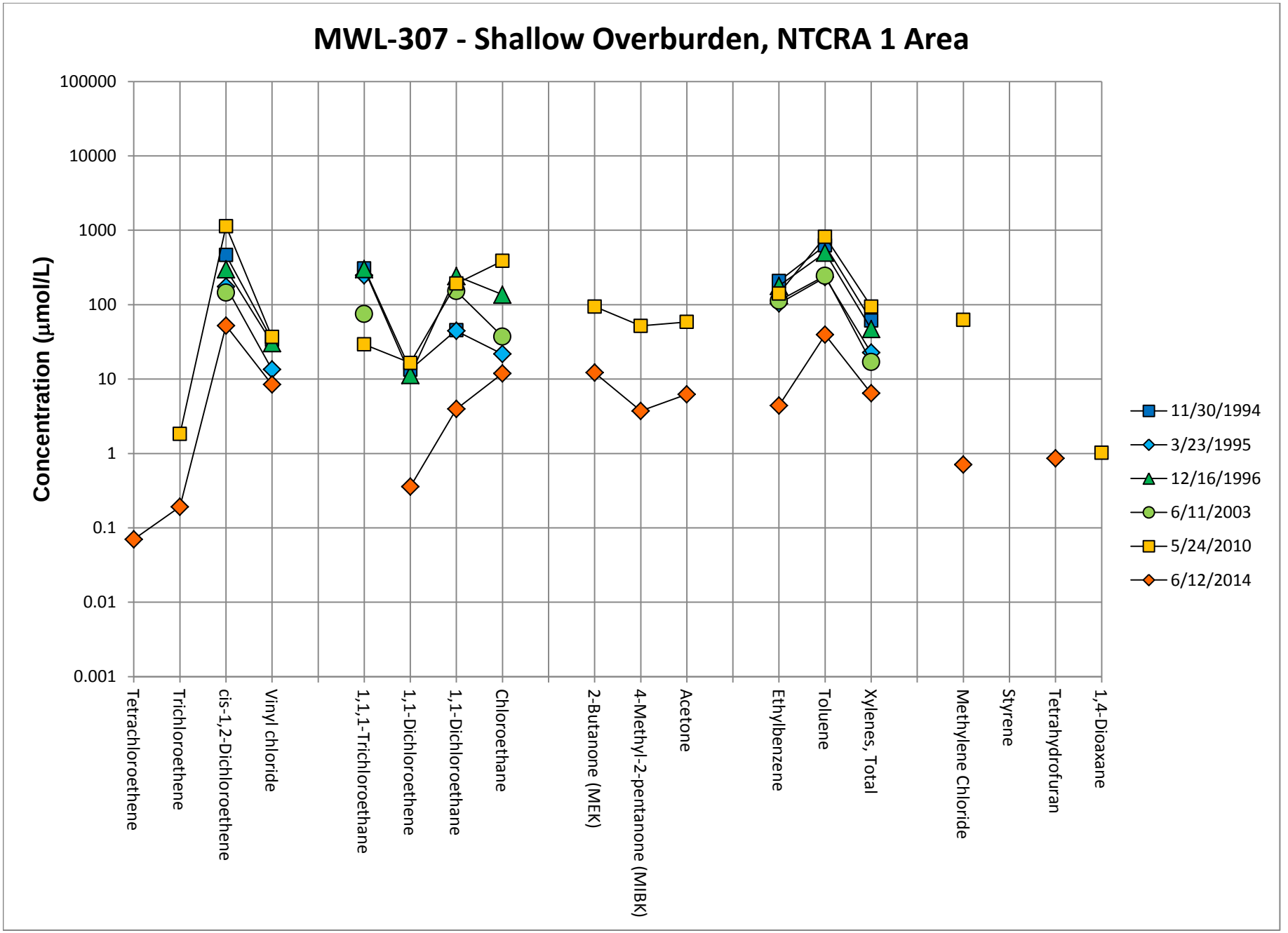
APPENDIX E – DISTRIBUTION OF VOCS IN GROUNDWATER WITH TIME

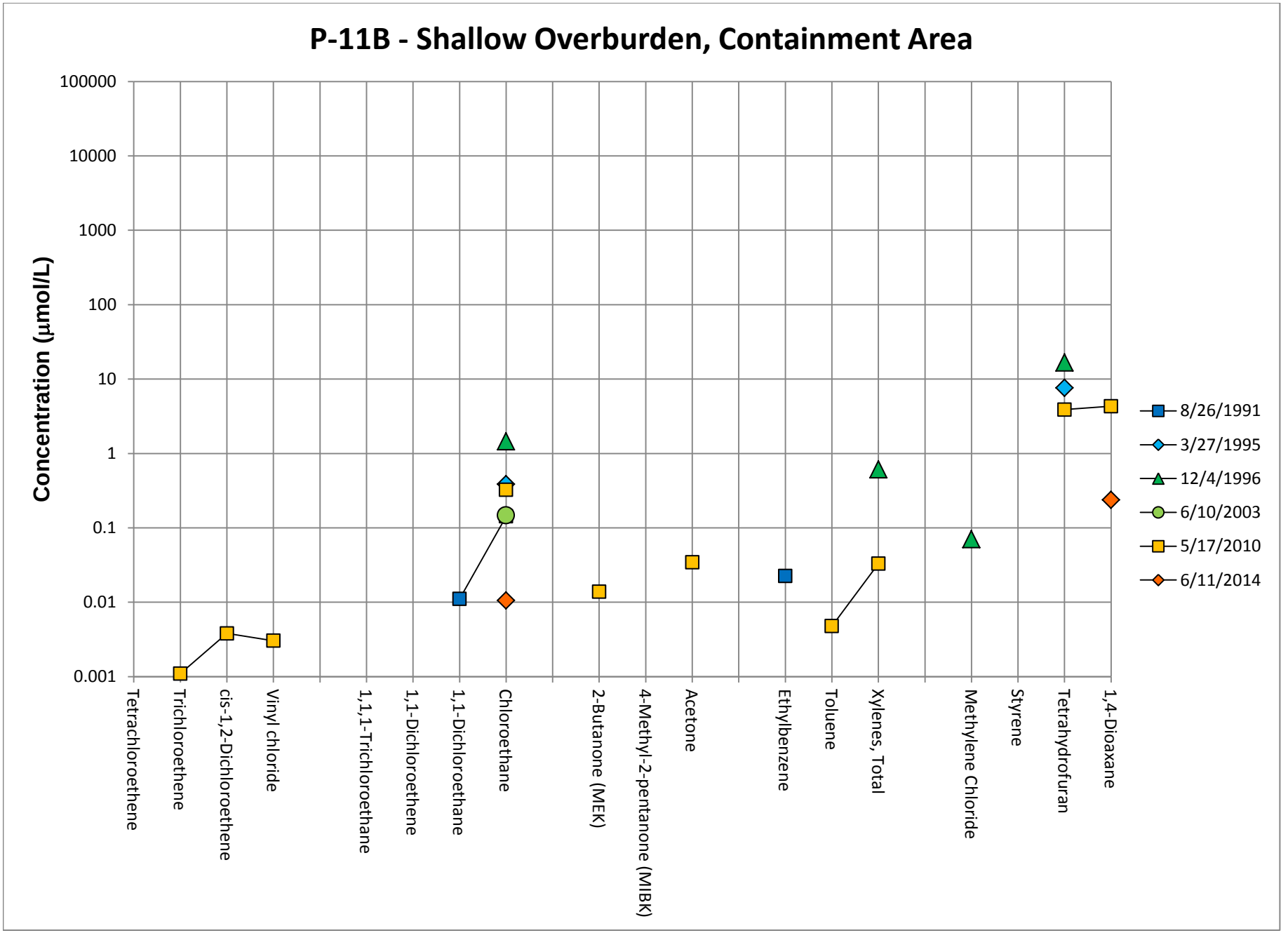
An assessment of the distribution of select volatile organic compounds (VOCs) in groundwater samples was conducted to gain insight into how VOC distributions in Site groundwater varied with time at select locations. VOCs evaluated in this assessment included:

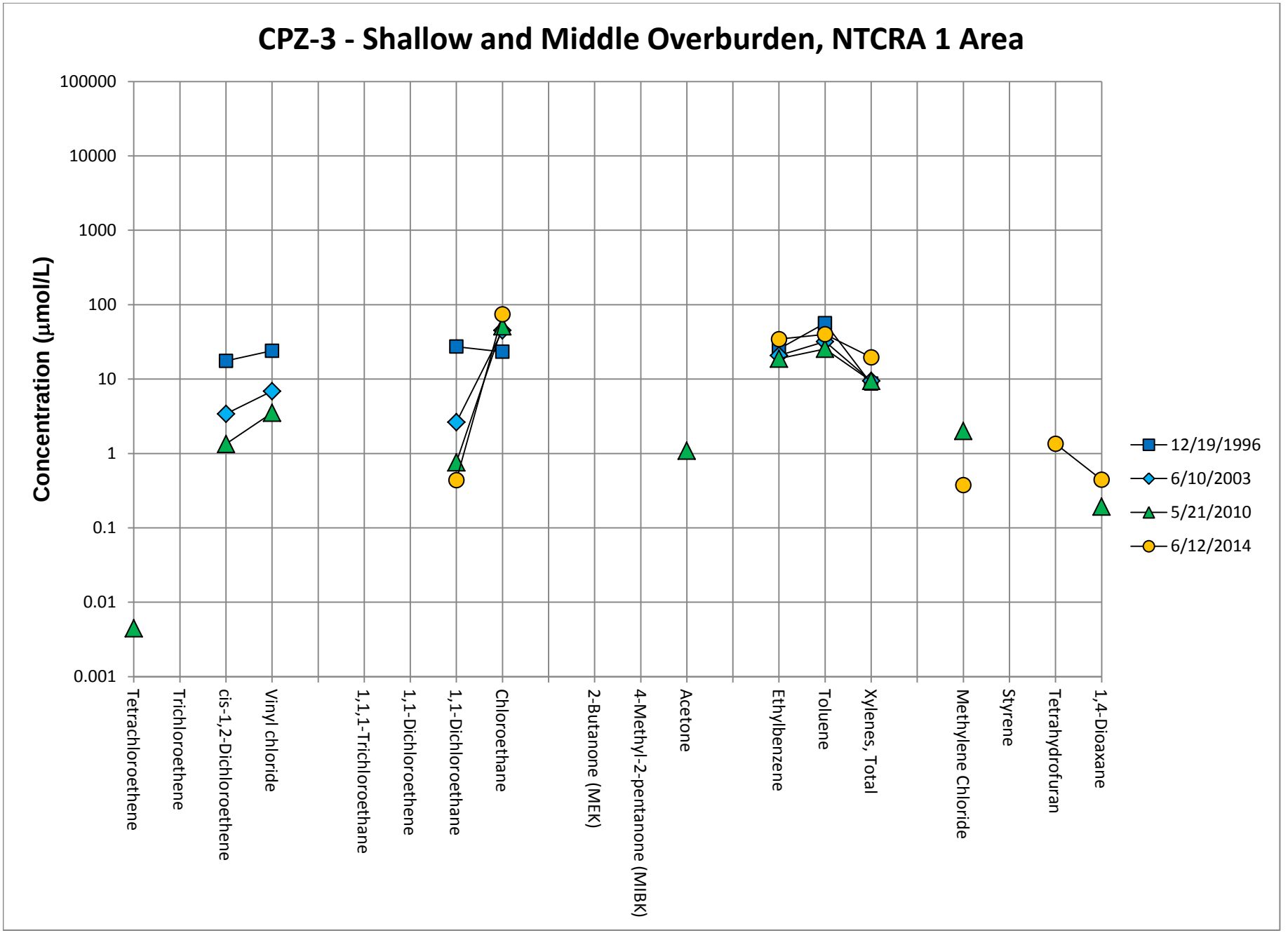
- chlorinated ethenes (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cDCE], 1,1-dichloroethene [1,1-DCE], and vinyl chloride [VC]);
- chlorinated ethanes (1,1,1-trichloroethane [TCA], 1,1-dichloroethane [1,1-DCA], and chloroethane [CA]);
- ketones (2-butanone [MEK], 4-methyl-2-pentanone [MIBK], and acetone);
- toluene, ethylbenzene, and xylenes (TEX); and
- methylene chloride, styrene, tetrahydrofuran (THF), and 1,4-dioxane.

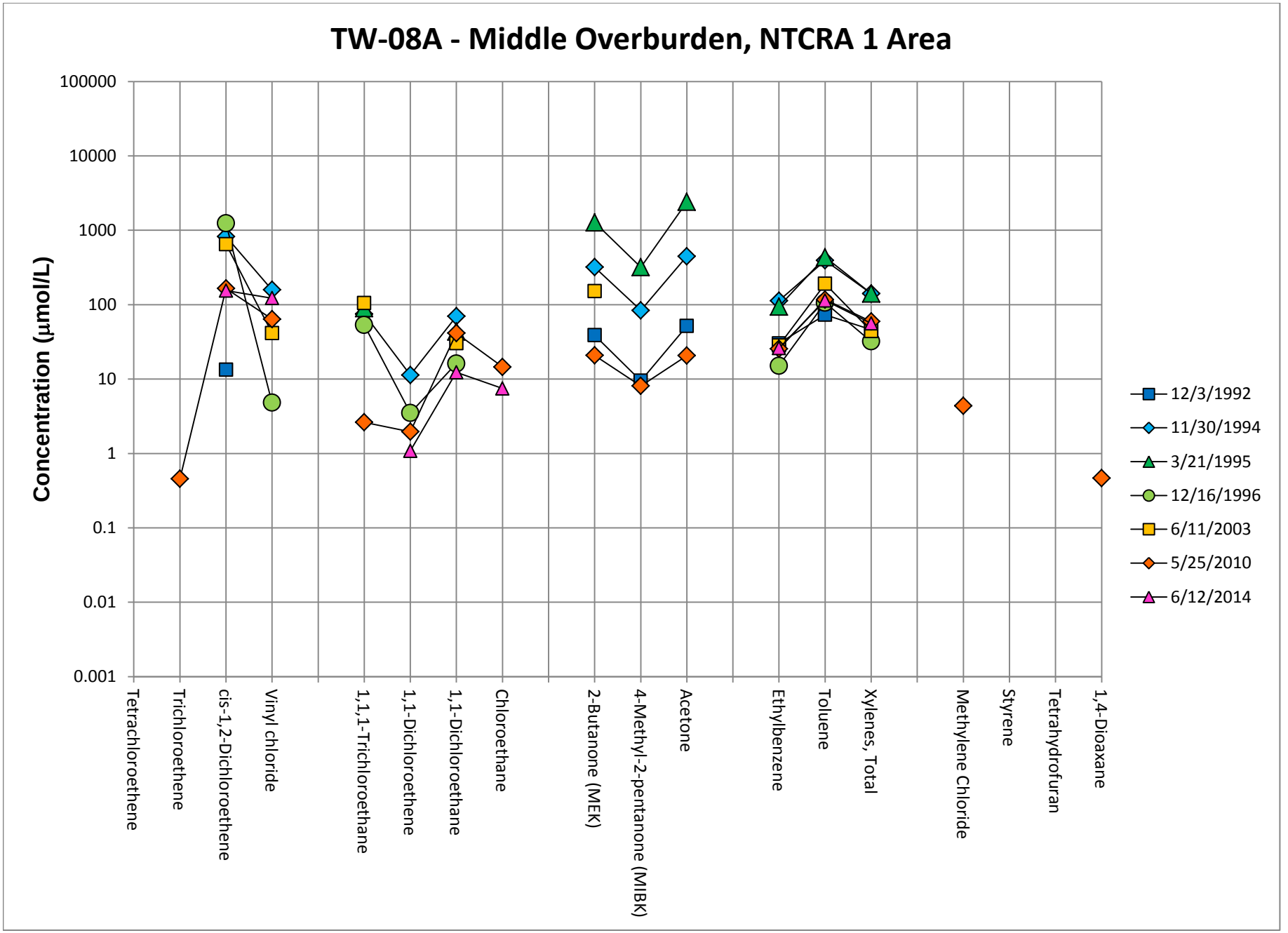
Molar concentrations were calculated for groundwater for these constituents and plotted on graphs with constituents distributed along the x-axis and molar concentration plotted on the y-axis.

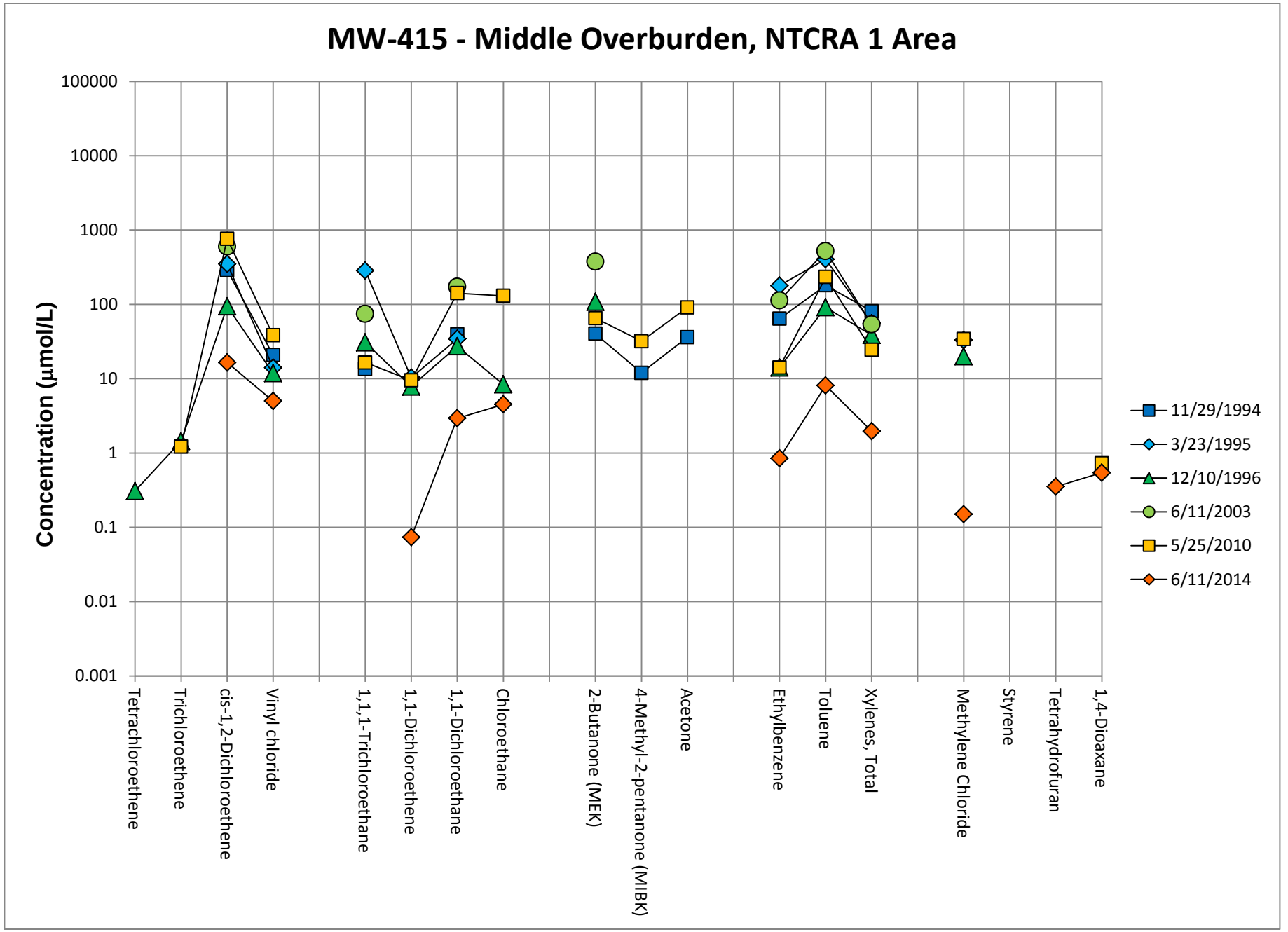
Groundwater molar VOC concentration plots for select groundwater monitoring locations with samples collected during multiple sampling events illustrate that some locations have clear declining concentrations trends for most or all constituents (e.g., CPZ-3, P-101B, MW-03, MW-502, CPZ-3R, MW-125C, MW-501A), some locations have variable constituent of concern (COC) concentrations with time (e.g., MWL-307, TW-08A, MW-415), and some locations have relatively stable COC concentrations with time (e.g., MW-705DR, MW-706DR). Shifts in the relative distribution of chlorinated VOCs (CVOCs) towards greater proportions of daughter products to parent materials (e.g., TW-08A, MW-415, MW-03, CPZ-7R, MW-125C, and MW-416) demonstrate ongoing degradation of CVOCs in Site groundwater. VOC concentrations are generally declining with statistically significant trends.

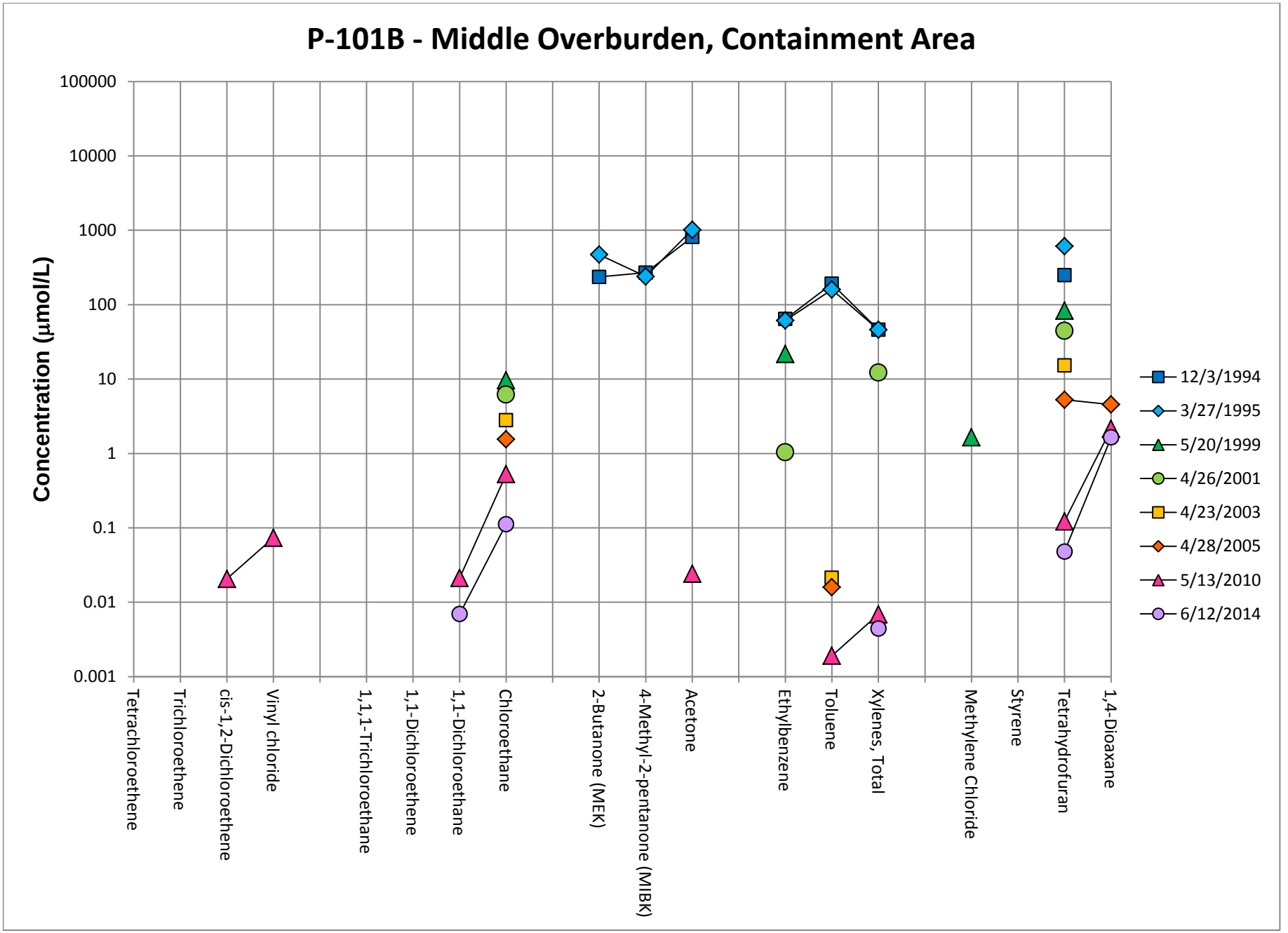

MWL-307 - Shallow Overburden, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
11/30/1994
3/23/1995
12/16/1996
6/11/2003
5/24/2010
6/12/2014

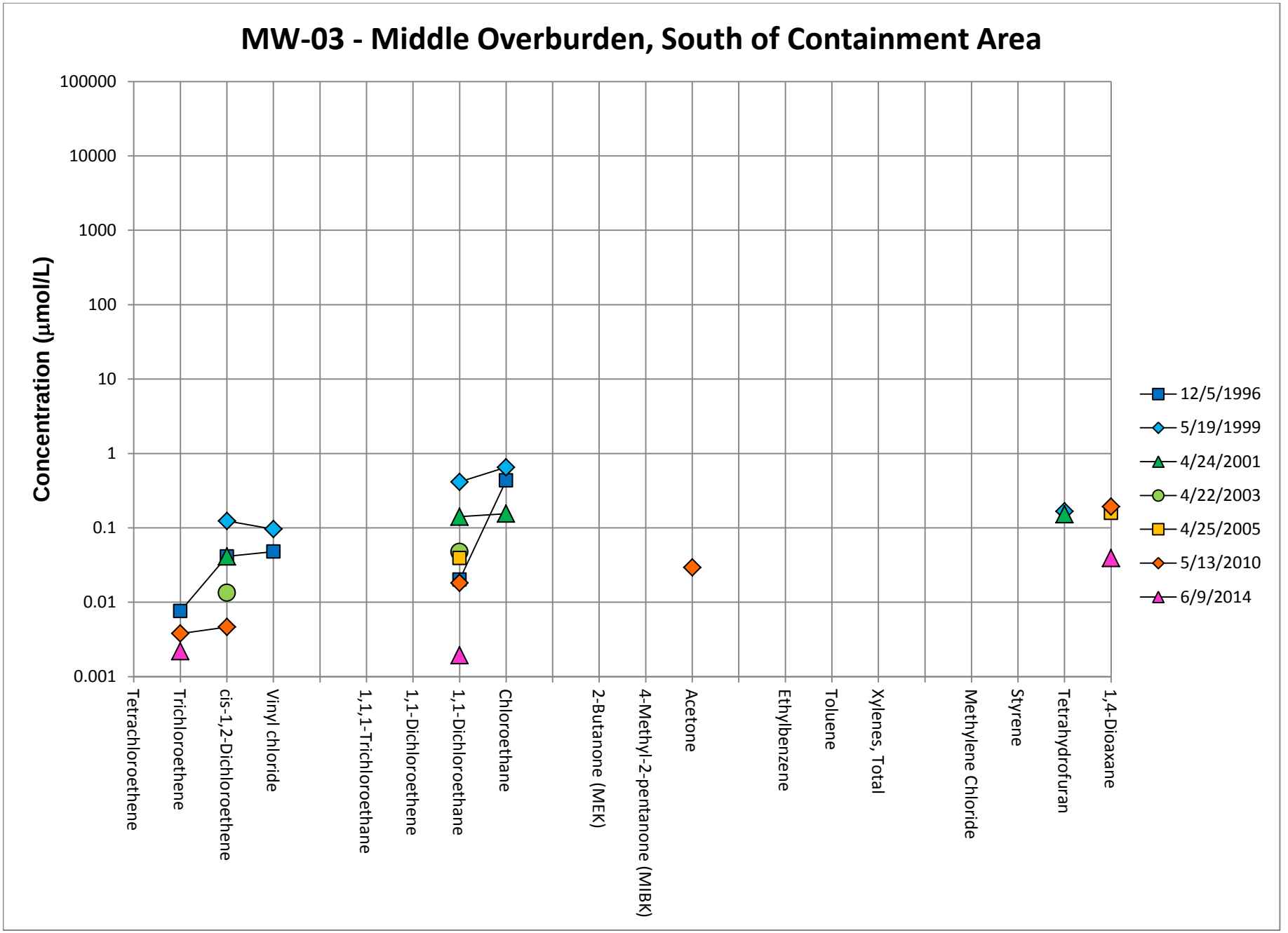

P-11B - Shallow Overburden, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
8/26/1991
3/27/1995
12/4/1996
6/10/2003
5/17/2010
6/11/2014

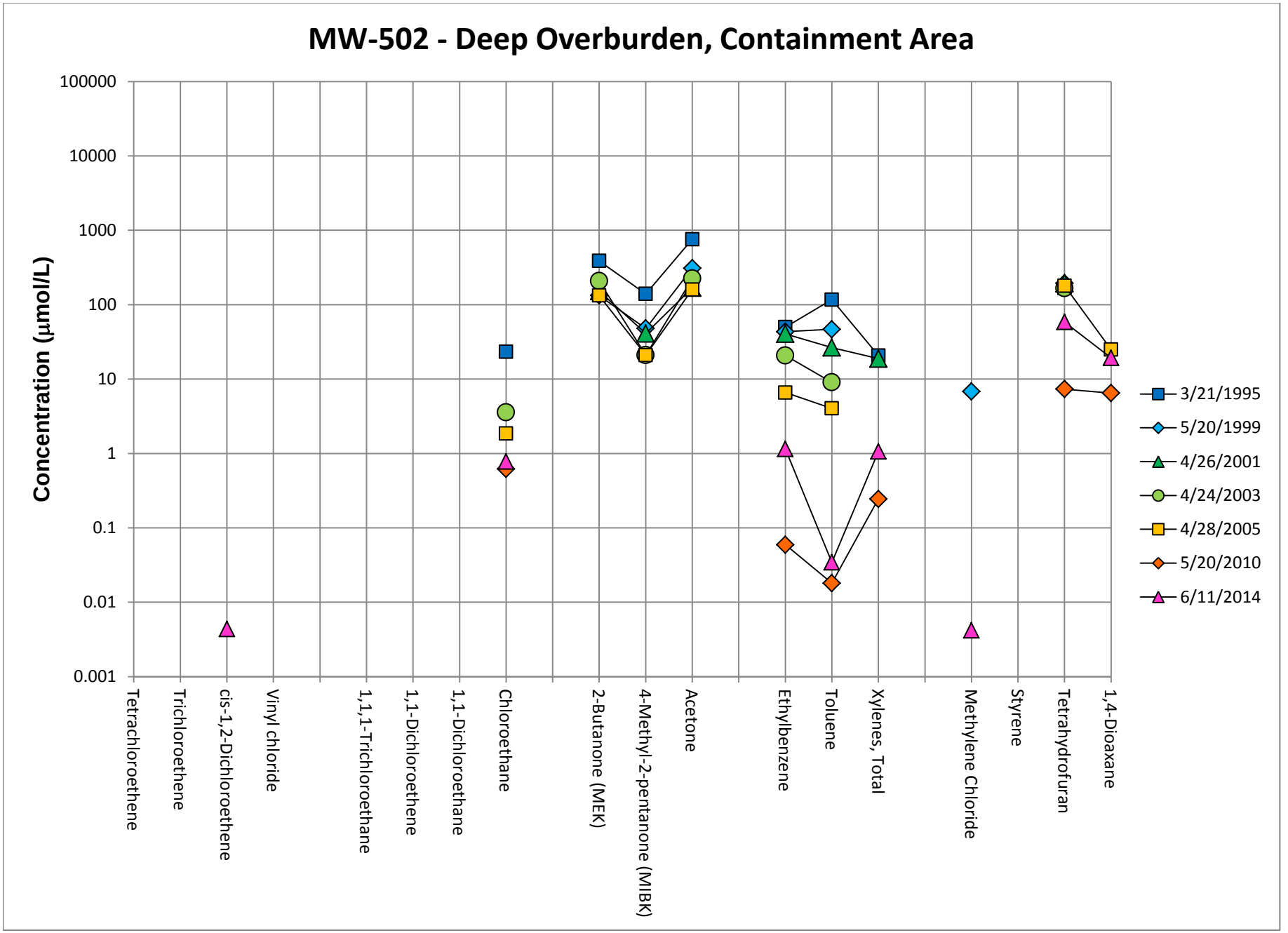

CPZ-3 - Shallow and Middle Overburden, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/19/1996
6/10/2003
5/21/2010
6/12/2014

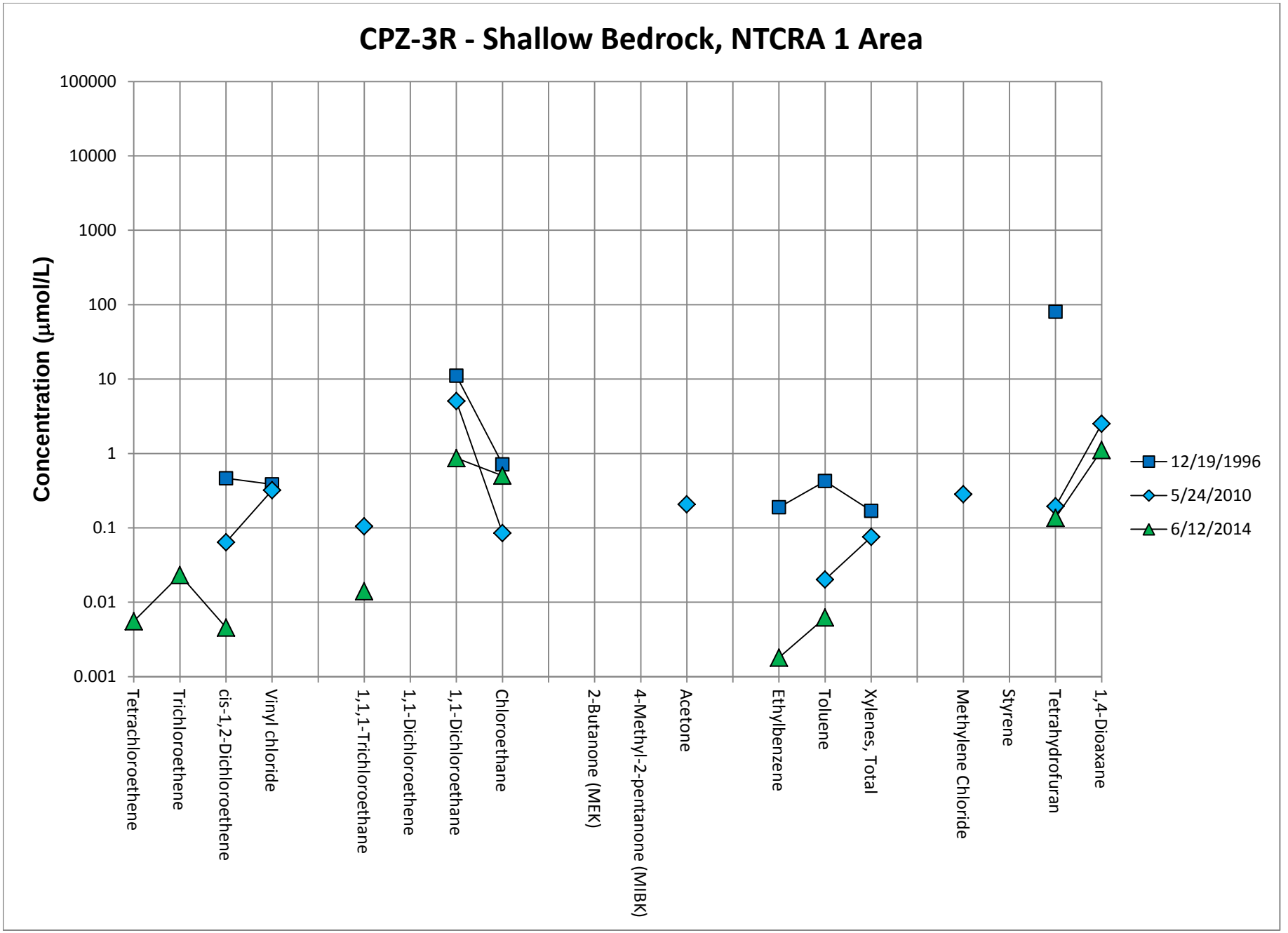

TW-08A - Middle Overburden, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/3/1992
11/30/1994
3/21/1995
12/16/1996
6/11/2003
5/25/2010
6/12/2014

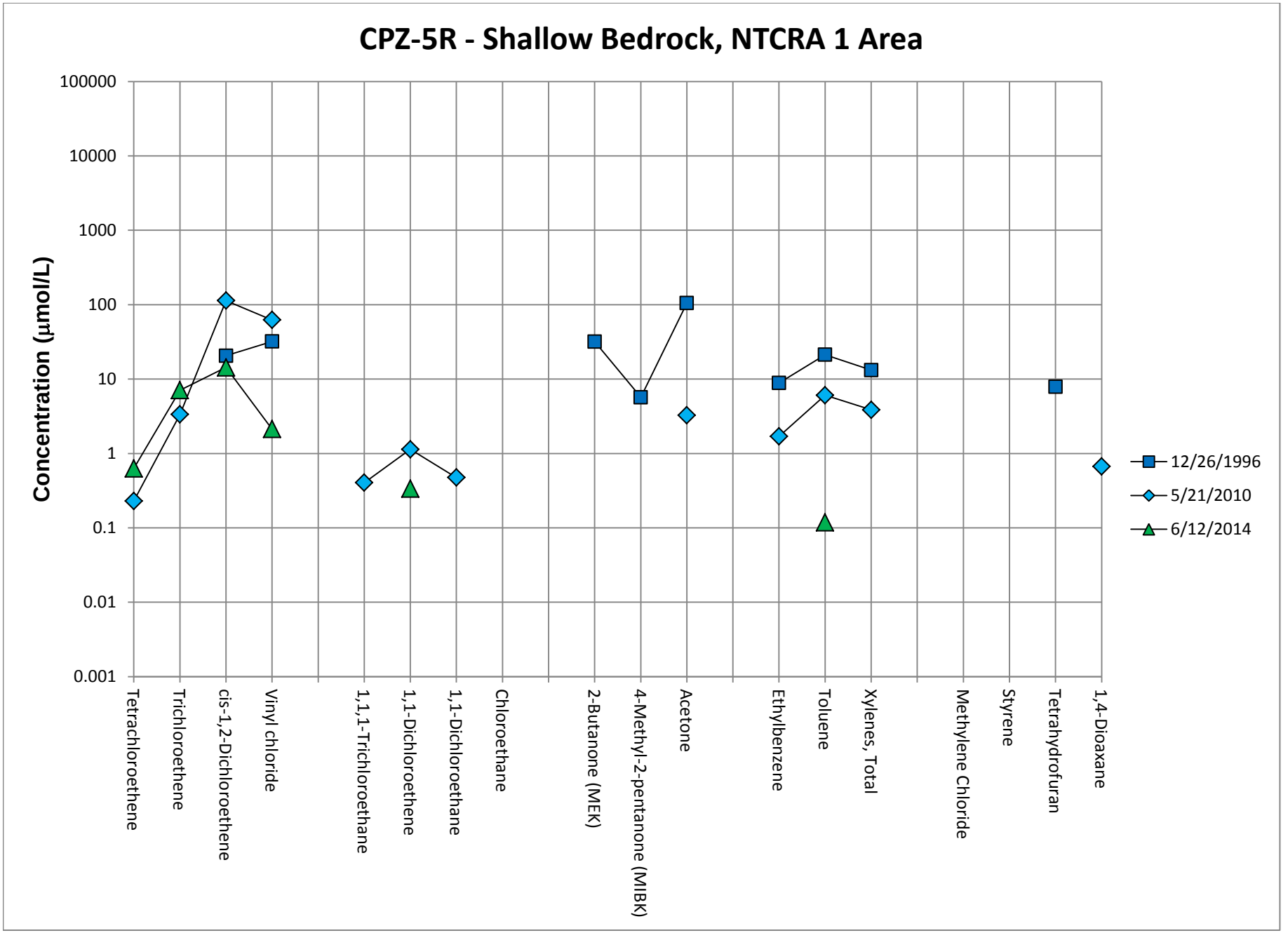

MW-415 - Middle Overburden, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
11/29/1994
3/23/1995
12/10/1996
6/11/2003
5/25/2010
6/11/2014

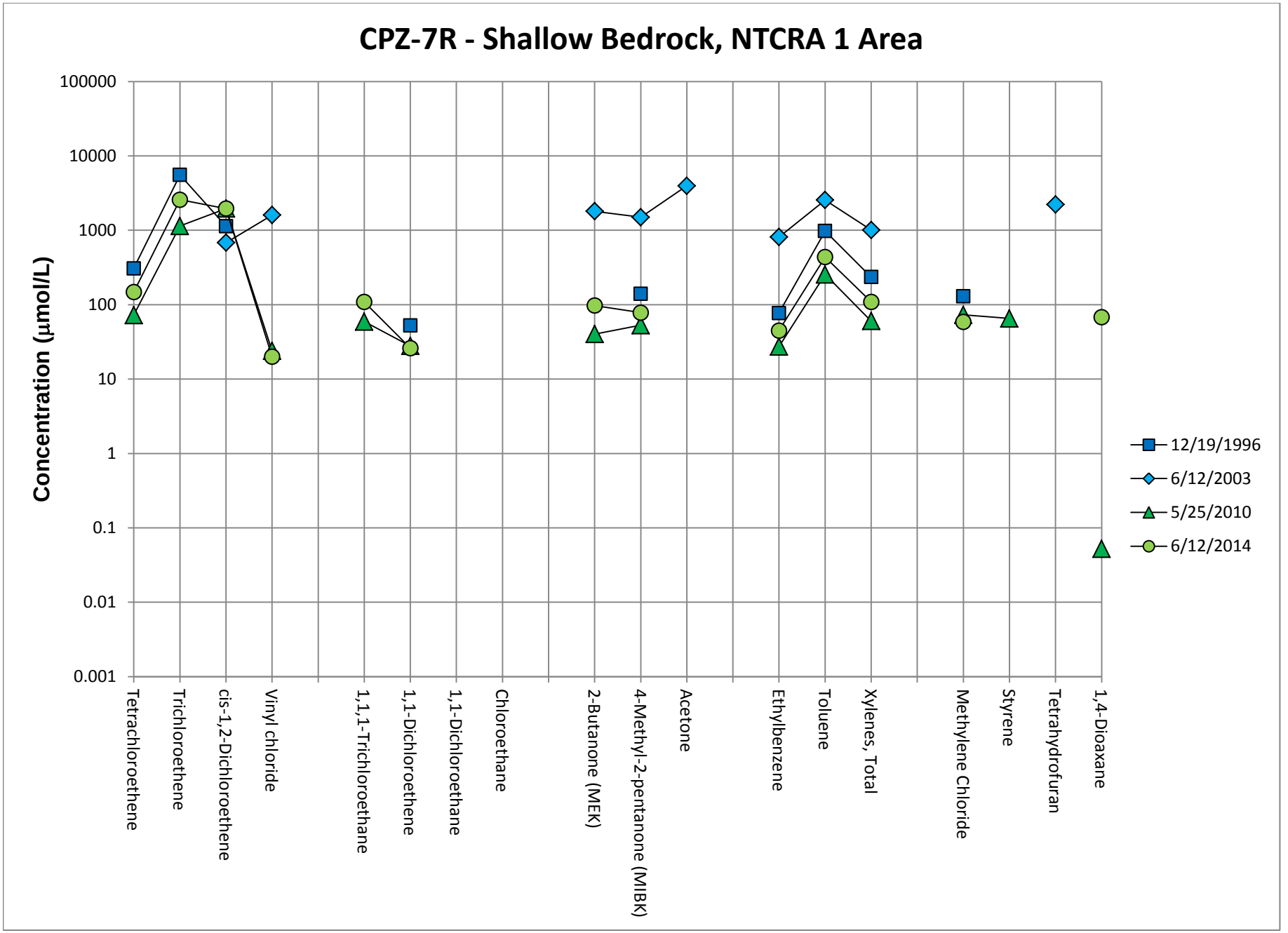

P-101B - Middle Overburden, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/3/1994
3/27/1995
5/20/1999
4/26/2001
4/23/2003
4/28/2005
5/13/2010
6/12/2014

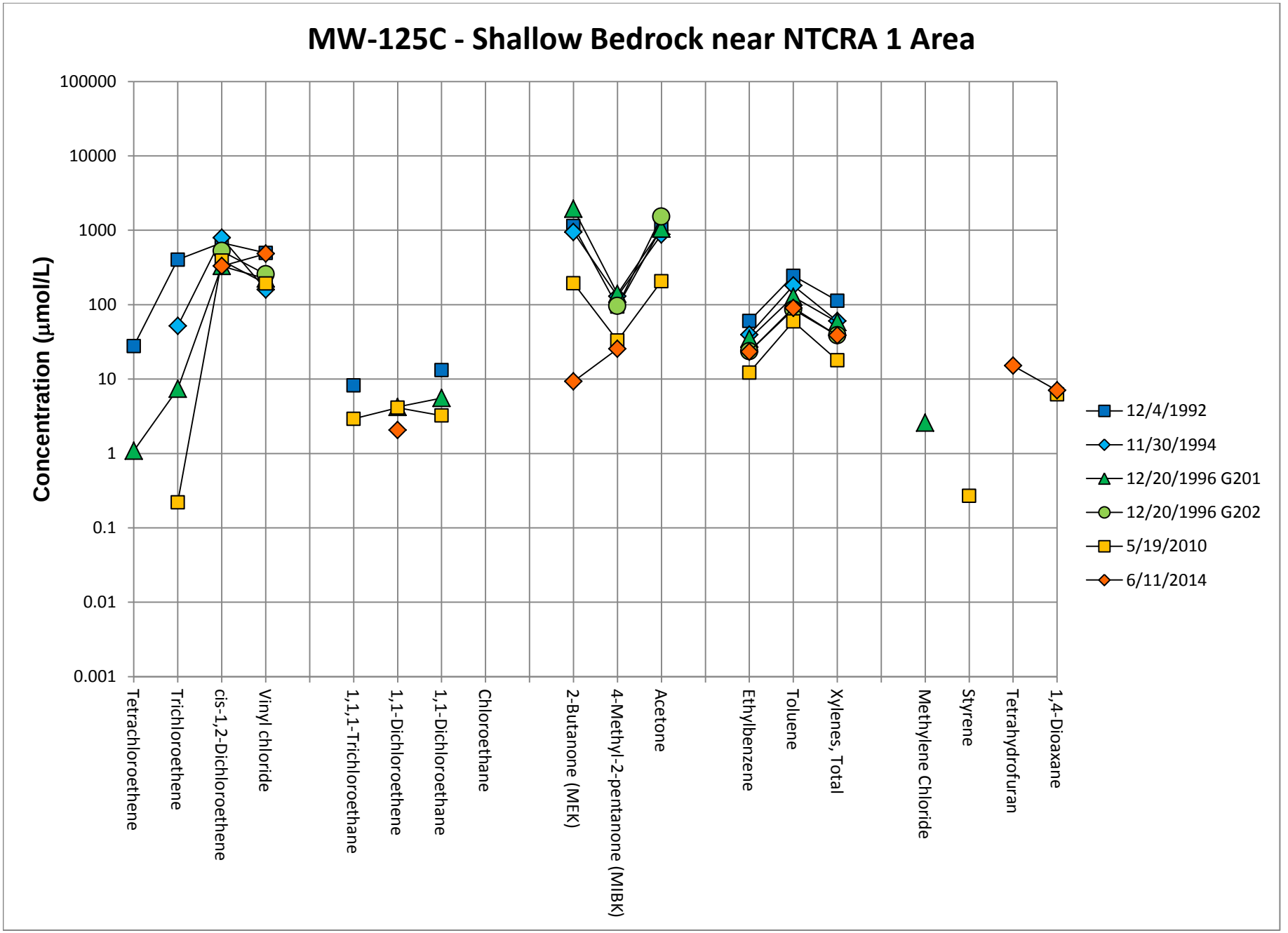

MW-03 - Middle Overburden, South of Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/5/1996
5/19/1999
4/24/2001
4/22/2003
4/25/2005
5/13/2010
6/9/2014

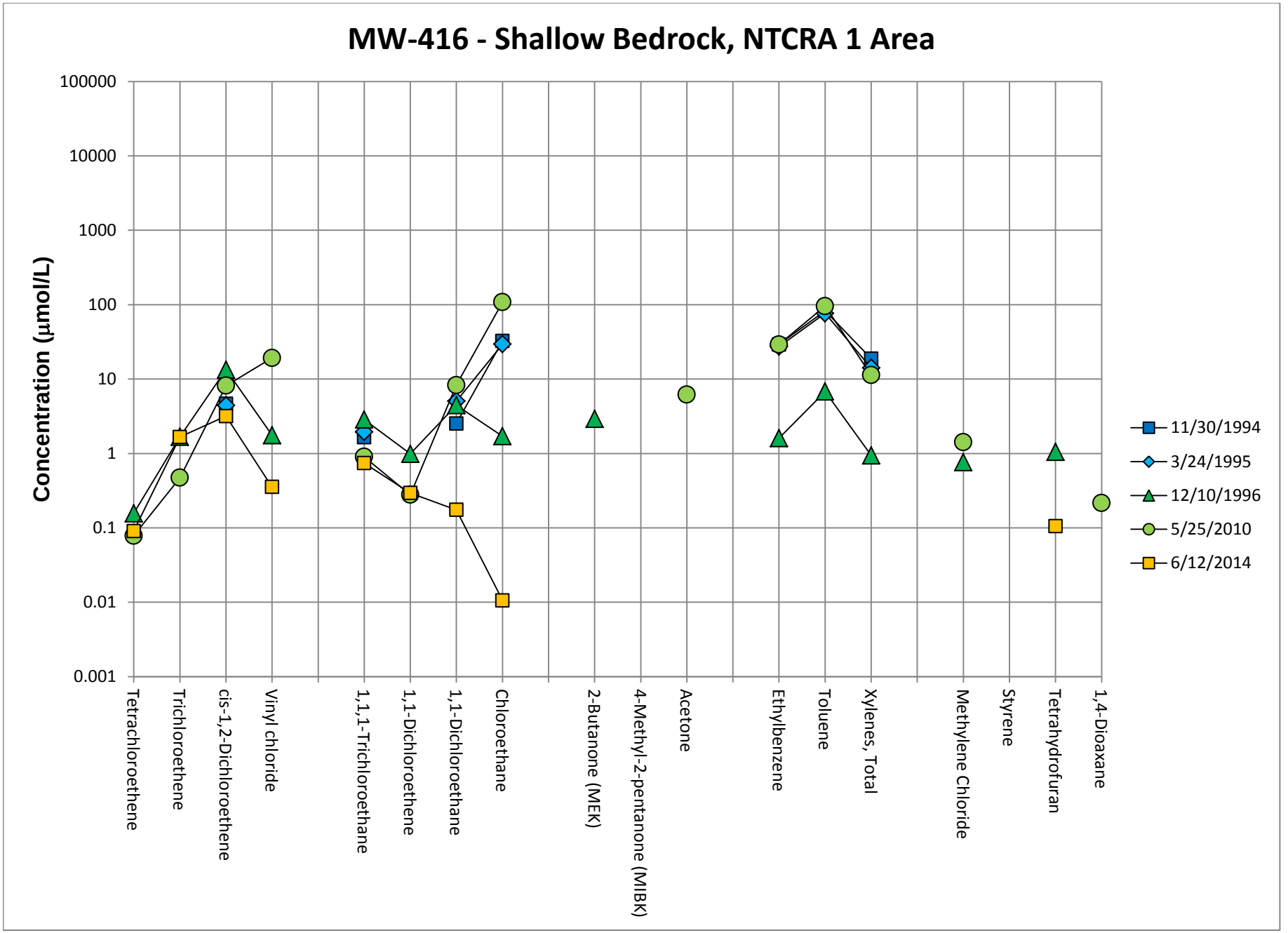

MW-502 - Deep Overburden, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
3/21/1995
5/20/1999
4/26/2001
4/24/2003
4/28/2005
5/20/2010
6/11/2014

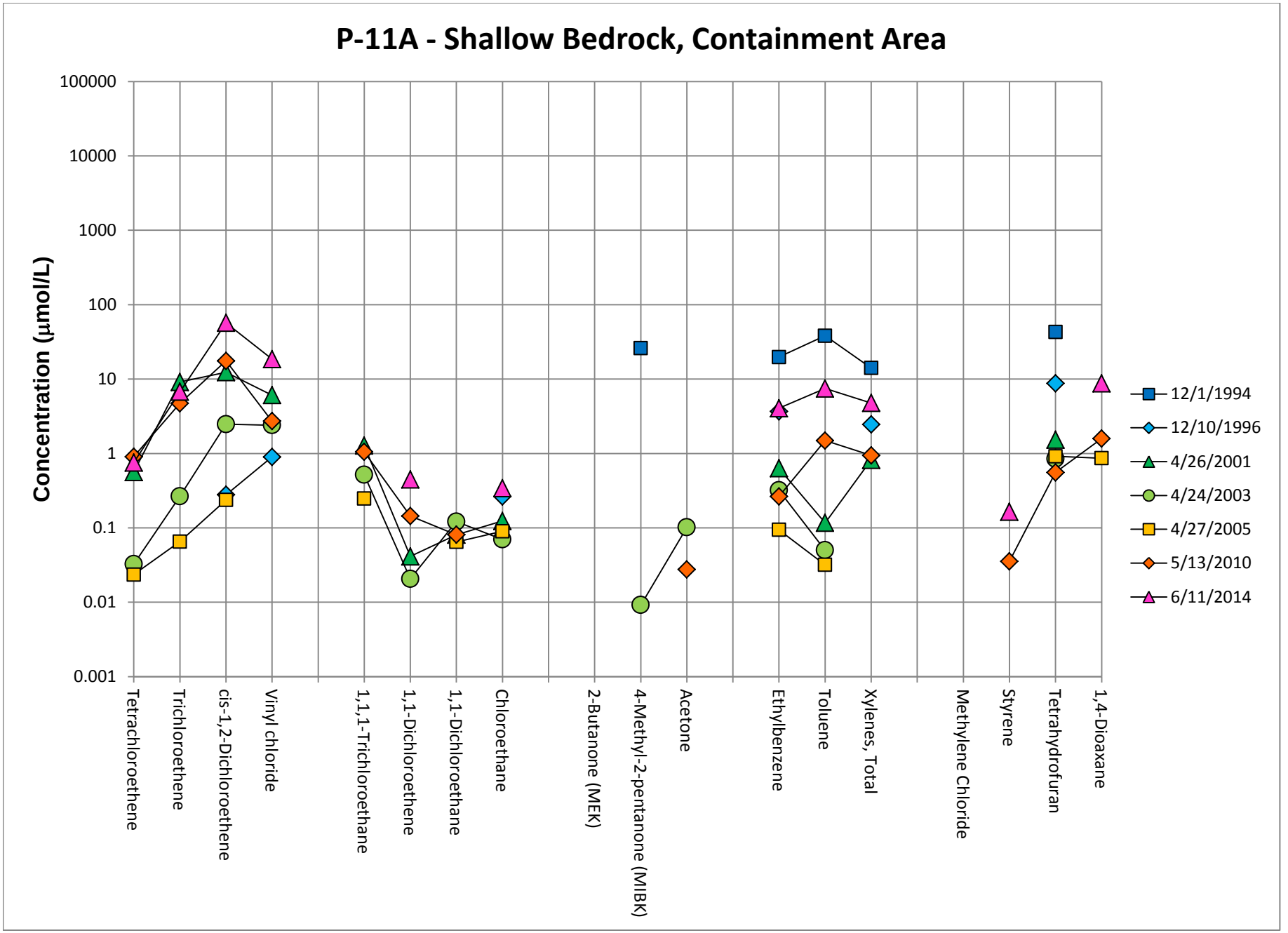

CPZ-3R - Shallow Bedrock, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/19/1996
5/24/2010
6/12/2014

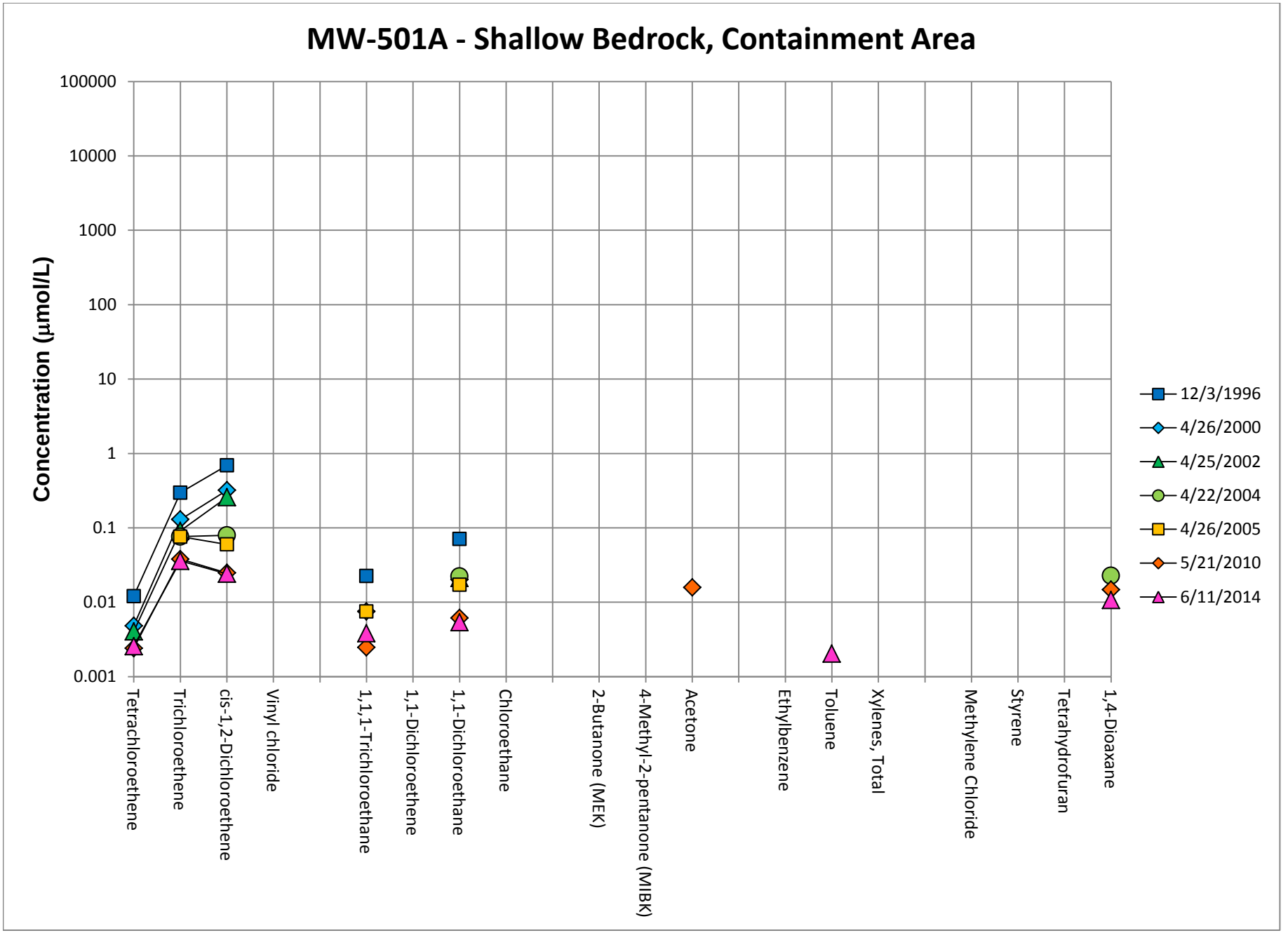

CPZ-5R - Shallow Bedrock, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/26/1996
5/21/2010
6/12/2014

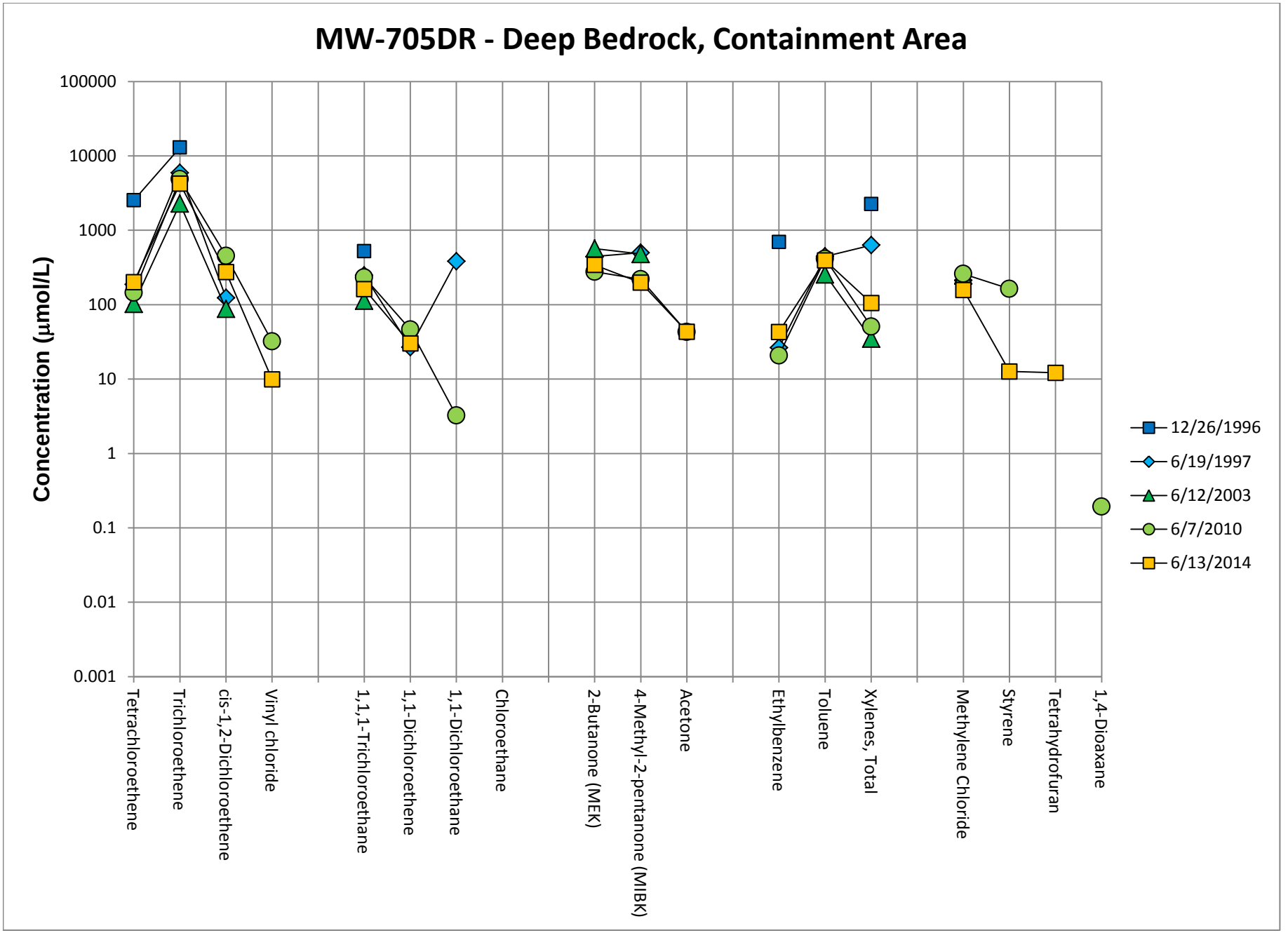

CPZ-7R - Shallow Bedrock, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/19/1996
6/12/2003
5/25/2010
6/12/2014

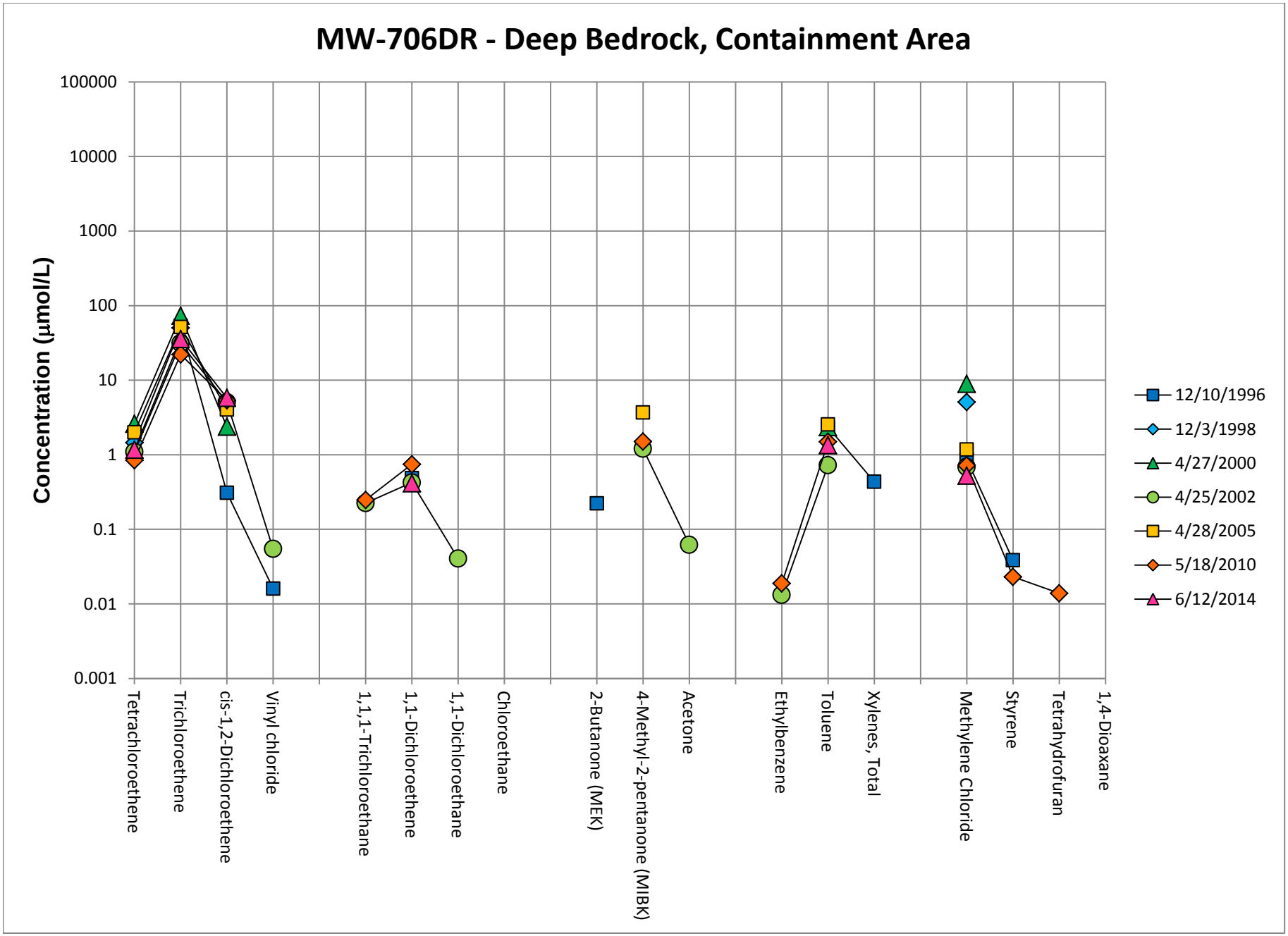

MW-125C - Shallow Bedrock near NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/4/1992
11/30/1994
12/20/1996 G201
12/20/1996 G202
5/19/2010
6/11/2014


MW-416 - Shallow Bedrock, NTCRA 1 Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
11/30/1994
3/24/1995
12/10/1996
5/25/2010
6/12/2014


P-11A - Shallow Bedrock, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/1/1994
12/10/1996
4/26/2001
4/24/2003
4/27/2005
5/13/2010
6/11/2014


MW-501A - Shallow Bedrock, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/3/1996
4/26/2000
4/25/2002
4/22/2004
4/26/2005
5/21/2010
6/11/2014


MW-705DR - Deep Bedrock, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/26/1996
6/19/1997
6/12/2003
6/7/2010
6/13/2014


MW-706DR - Deep Bedrock, Containment Area
Concentration (µmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0.001
Tetrachloroethene
Trichloroethene
cis-1,2-Dichloroethene
Vinyl chloride
1,1,1-Trichloroethane
1,1-Dichloroethene
1,1-Dichloroethane
Chloroethane
2-Butanone (MEK)
4-Methyl-2-pentanone (MIBK)
Acetone
Ethylbenzene
Toluene
Xylenes, Total
Methylene Chloride
Styrene
Tetrahydrofuran
1,4-Dioaxane
12/10/1996
12/3/1998
4/27/2000
4/25/2002
4/28/2005
5/18/2010
6/12/2014