WOODARD & CURRAN

REMEDIAL ACTION PLAN COMPLETION REPORT

On-Property Conditions

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1. INTRODUCTION

This *Remedial Action Plan* (RAP) *Completion Report* has been prepared in accordance with the March 2008 *RAP* to summarize the completion of the selected remedy for on-property conditions for the property located at 15 Old Newtown Road in Danbury, Connecticut. Remedial actions are being performed by CR USA, Inc., the current owner of the property. Further evaluation of downgradient off-property conditions and future response actions to address these conditions, if needed, will be presented in separate documents at a later date.

The components of the remedy completed and described in this document include the installation and start-up of the sub-slab vapor control system, the placement of an Environmental Land Use Restriction (ELUR) on the property, and excavation and off-site disposal of impacted concrete within area of concern 17 (AOC 17). In addition to these remedy components, operation of the existing groundwater migration control treatment system continues under the approved on-property RAP. Further discussion on each of the remedy components are provided in the following sections. Refer to Figure 1 for the site location and Figure 2 for the site plan.

1.1 SITE LOCATION

The site consists of a former industrial facility located on approximately eight acres of land at 15 Old Newtown Road in the city of Danbury, Connecticut. The facility is located near the intersection of Old Newtown Road and Newtown Road and is bordered to the north by Old Newtown Road and to the east by Newtown Road. The facility is bordered to the south by commercial property and to the west by a business and private residences. The perimeter of the property is fenced with one gate to the east providing access and one to the west providing egress, both by means of coded cards. The surrounding area is generally industrial/commercial with a few scattered residences. The Still River is located approximately 100 feet northwest of the facility and flows northerly past the site. A large wetland area is located approximately 700 feet northeast of the facility.

1.2 PROPERTY USAGE

The former Risdon facility was utilized for the manufacturing of cosmetics containers from 1956 to 2005. The primary manufacturing processes included electroplating, chromating, acid/solvent stripping, degreasing, silver plating, pickling, buffing, polishing, lacquering, hot stamping, silk screening, and assembly (SIC Code 3469). The metal finishing operations consisted of silver plating, pickling, degreasing, and lacquering. These operations were restricted to the southeastern portion of the facility, referred to as the metal finishing area (MFA). The buffing operations were located adjacent to the MFA in the southwestern portion of the facility. The remainder of the building was used for assembly, product storage, packing, shipping, and office space. Operations ceased in 2005 and the building is currently vacant.

The remaining areas of the property surrounding the building include paved parking and driveways (to the rear and sides of the building) and a vegetated landscape area (front of the building). The former surface impoundments (former Lagoon Area) were located in the open area west of the building (current paved parking lot).

1.3 WASTE MANAGEMENT HISTORY

Thirty areas of concern (AOCs) were identified throughout the facility based on their historical material and waste management operations. A list of these AOCs, including a description of the AOC, waste managed, and period of operation was presented in the March 2008 Remedial Action Plan.

The facility formerly operated two sludge lagoons, a sludge drying bed, and an incinerator under RCRA Interim Status. The lagoons and drying bed were certified closed in 1983 and the incinerator was certified closed in 1985. In May 1990, Risdon received a RCRA Part B permit application call from the EPA under the post-closure permitting program. The Part B Permit Application was submitted on November 2, 1990. A post-closure permit has not been issued. Currently, CR USA Inc., is preparing a Stewardship Permit with the EPA and CTDEP for the post closure and RCRA Corrective Action activities to be performed at the facility.

1.4 REGULATORY HISTORY

Investigation and remediation activities have been conducted at the site since 1981 with the most recent activities being conducted in accordance with the RCRA Corrective Action program under the oversight of the United States Environmental Protection Agency (EPA). Based on investigation activities completed across the facility, which includes numerous soil samples, 37 groundwater monitoring wells, 28 years of groundwater quality data (1981 to 2008), soil vapor surveys, and 18 years of remediation, subsurface soils, soil vapor, and groundwater have been impacted by past releases of chlorinated volatile organic compounds (VOCs) and metals at two separate areas on the facility (referred to as the former MFA and the Lagoon Area).

The Lagoon Area is the location of two former surface impoundments, which were located on the western portion of the facility and used for the dewatering of metal hydroxide process wastes from approximately 1956 to 1982. The impoundments were closed by sludge/soil excavation and off-site disposal in 1982-1983. Investigation activities were initiated as part of the closure activities (1981) and have been on-going since that time. In 1990, an Interim Corrective Measure (ICM), consisting of groundwater extraction and treatment to remove and prevent the migration of VOC contaminated groundwater from the Lagoon Area and air sparge/vapor extraction (AS/VE) to remove adsorbed phase VOCs from saturated soils, was implemented in this area. The groundwater extraction system has been operational since 1990; however, the AS component of the ICM was never operated at its full capacity and has not been in operation since 1995. In 2005, as part of a property line hydraulic containment groundwater extraction system, the existing recovery wells were rehabilitated and tied into a larger system that included a new groundwater treatment system and building.

The second area, referred to as the former MFA, is located inside the southern portion of the site building. The sources of chlorinated VOCs and metals from this area included several degreasers and process/plating lines. In 1993, an ICM, consisting of dual groundwater and soil vapor extraction and treatment, was implemented inside the building. The system was installed as a source removal mechanism and to contain/prevent the migration of contaminants from the source area via groundwater flow. This system operated until 2005. As part of the property line hydraulic containment system installed in 2005, three additional recovery wells were installed along the northeastern property boundary downgradient of the MFA.

Supplemental investigative work was conducted throughout the 1990's and summarized in the January 1999 RCRA Facility Investigation (RFI) Report. The RFI Report provided a summary of investigation activities and a conceptual site model regarding groundwater flow and transport of constituents of concern at the site. A summary of the data presented in the RFI and the additional data collected since the submittal of the RFI was presented in the March 2008 RAP.

In April 2003, the EPA conducted a remedial system evaluation for the ICM treatment systems operating on-site. This evaluation provided recommendations to improve system performance, specifically offering guidance on improvements in remedy effectiveness, reductions in operation and maintenance costs, technical improvements, and gaining site closure. Several recommendations were made and each of them has been addressed through ICM enhancements or with the development of the RAPs being prepared for on-property and off-property conditions.

In December 2003, EPA concluded that based on a review of all available data, the facility achieved the Environmental Indicator (EI) *CA 725 Current Human Exposures Under Control*. As part of this determination, vapor control measures were taken in two downgradient residences to eliminate potential migration pathways from the subsurface to indoor air. Further details on these downgradient, off-property soil vapor reduction systems have been provided in previously submitted semi-annual status reports and will be discussed in the future off-property RAP.

In September 2008, EPA concluded that based on a review of all available data, the facility achieved the EI *CA 750 Migration of Contaminated Groundwater Under Control.* Semi-annual groundwater monitoring data is collected and submitted to EPA as part of the determination.

On August 27, 2003, an Environmental Condition Assessment Form (ECAF) was prepared for the facility and submitted to the CTDEP pursuant to RCSA 22a-449(c)-105(h) *Corrective action at interim status disposal facilities*. On August 1, 2005, written notification from the CTDEP was received regarding the requirements and coordination for subsequent RCRA Corrective Action activities at the facility. In accordance with RCSA 22a-449(c)-105(h)(4), the CTDEP retained review and approval of the corrective action investigation and remediation to be conducted at the facility. This review and approval process is being conducted in cooperation with the EPA, who is acting as the lead Agency.

On September 1, 2005, pursuant to RCSA Section 22a-449(c)-105(h)(6)(A) and in accordance with the CTDEP's August 1, 2005 correspondence, a schedule of milestones for conducting remaining investigation and remediation activities at the facility was submitted. As part of the schedule and pursuant to CTDEP's August 1, 2005 letter, an annual summary and copies of technical plans and reports related to the investigation and remediation of the parcel are submitted to the EPA and CTDEP. The on-property RAP was submitted to the Agencies in March 2008 as part of the RCRA corrective action obligations in accordance with Section 22a-449(c)-105(h) and in conjunction with a Form III certification pursuant to Section 22a-134a(c) of the Connecticut General Statutes. In a May 29, 2008 correspondence, the EPA acknowledged that the remedy proposed in the March 2008 RAP meets the RCRA Corrective action long term goals of protection of human health and the environment and satisfies the partial remedy decision criteria (CA-400).

As indicated previously, currently, CR USA Inc., is preparing a Stewardship Permit with the EPA and CTDEP for the post closure and RCRA Corrective Action activities to be performed at the facility.

1.5 REPORT ORGANIZATION

This RAP Completion Report is organized into the following sections:

Section 1 – Introduction – provides a brief introduction and history of response actions at the facility.

Section 2 –Conceptual Site Model – presents the site's conceptual model developed for the releases.

Section 3 –RAP Summary – provides the remedial action objectives and an overall summary of the completed remedial actions on the property.

Section 4 – Sub-Slab Vapor Control System – provides a description of the design, installation, and start-up of the sub-slab vapor control system.

Section 5 – Environmental Land Use Restriction – presents the environmental land use restriction prepared as part of the remedy implementation.

Section 6 – Groundwater Migration Control – provides a summary of the on-going groundwater extraction and treatment system.

Section 7 – RCRA CSA Closure – provides a description of the remedial response actions taken as part of the RCRA CSA closure.

Section 8 – Summary – presents an overall summary of the completed activities.

2. CONCEPTUAL SITE MODEL

The former facility manufactured cosmetic containers for approximately 50 years (from 1956 to 2005). As part of operations, chlorinated solvents and metals were used and wastes generated. Based on investigation activities previously completed across the facility, subsurface soils, soil vapor, and groundwater have been impacted by past releases of chlorinated VOCs and metals at two separate areas on the facility.

One area is the location of two former surface impoundments (referred to as the former Lagoon Area), which were located on the western portion of the facility and used for the dewatering of metal hydroxide process wastes from approximately 1956 to 1982. The impoundments were closed by sludge/soil excavation and off-site disposal in 1982. Investigation activities were initiated as part of the closure activities (1981) and have been on-going since that time. In 1990, an ICM, consisting of groundwater extraction and treatment to remove and prevent the migration of VOC contaminated groundwater from the lagoon area and AS/VE to remove adsorbed phase VOCs from saturated soils, was implemented in this area. The groundwater extraction system (recovery wells RW-1 through RW-3) has been operational since 1990; however, the AS component of the ICM was never operated at its full capacity and has not been in operation since 1995. In 2005, as part of a property line hydraulic containment groundwater extraction system, the existing recovery wells were rehabilitated and tied into a larger system, which included a groundwater treatment system and building.

The second area, referred to as the former MFA, is located inside the southern portion of the site building. Releases of chlorinated VOCs and metals from several degreasers and process/plating lines occurred in this area. In 1993, an ICM, consisting of dual groundwater and soil vapor extraction and treatment, was implemented inside the building. The system was installed as a source removal mechanism and to contain/prevent the migration of contaminants from the source area via groundwater flow. As part of the property line hydraulic containment system, three additional recovery wells were installed along the northeastern property boundary downgradient of the MFA in 2005. At this time and given the facility was shut down, the existing MFA ICM, which incorporated the facility's wastewater treatment system, was also shut-down.

The site geology consists of competent bedrock overlain by a weathered, fractured bedrock zone; overlain by a discontinuous glacial till; overlain by glacio-lacustrine deposits; that are overlain by fill material. In general, there are two interconnected aquifer systems in the vicinity of the site. An upper unconfined aquifer is comprised of glacio-lacustrine deposits and a lower aquifer occurs in the upper fractured portions of the bedrock. Drilling activities at the site have indicated the presence of two types of bedrock, consisting of a muscovite/biotite schist and a pink granite.

Depth to groundwater at the site varies between 3 feet (upgradient at MW-1) and 15 feet (Lagoon Area) below the ground surface. The inferred configuration of the water table surface based on the August 2008 annual groundwater monitoring event is depicted on Figure 3. As illustrated on this figure, consistent with historical measurements, shallow groundwater generally flows in a north/northwesterly direction across the Site (from the topographic high south of the facility towards the direction of the Still River). The figure also illustrates the hydraulic containment of the plume on-site by the groundwater extraction system with groundwater flow along the property boundaries inferred towards the six recovery wells. Overall, the gradients indicate that groundwater predominantly flows in the horizontal direction with a slight downward component from the overburden to the shallow bedrock. Groundwater at the site is classified as GB, and groundwater surrounding the site is GB to the north, east and west and GA to the south (as indicated above, south of the site is hydraulically upgradient).

No properties have been identified within ½ mile downgradient (generally to the north) of the site that are not serviced by public water. The closest properties (2 locations) that are not supplied with public water and may potentially be serviced by private wells are located approximately 300 feet upgradient of the site to the southwest and southeast.

The closest municipal well (Osborne Well, Danbury Water Department) is located approximately 1.2 miles west of the site.

The predominant constituents of concern detected in groundwater across the site are chlorinated VOCs and inorganics. With respect to the chlorinated VOCs, 1,1,1-Trichloroethane (1,1,1-TCA) and Trichloroethene (TCE) have been detected at the greatest frequency and at the highest concentrations in groundwater. These compounds were reportedly used at the facility as degreasing agents. In addition to these two chlorinated VOCs, typical degradation and/or related products of these VOCs, including Tetrachloroethene (PCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), and 1,1-Dichloroethane (1,1-DCA), have also been detected frequently and at higher concentrations than other VOCs. The highest levels of chlorinated VOCs have been detected in the deep overburden and shallow, fractured/weathered bedrock, indicating that this layer appears to be the primary pathway for VOC migration in groundwater.

The groundwater monitoring results from the August 2008 sampling event indicate that the VOC and inorganic concentrations detected were generally consistent with previous sampling events, with the highest concentrations detected within the former MFA and Lagoon Area and along the northern downgradient property boundary of the facility. Concentrations in the source areas have demonstrated a downward trend since the onset of remediation activities in the early to mid 1990's.

Similar to groundwater, the predominant constituents of concern detected in soil across the site are chlorinated VOCs and inorganics. For general comparison purposes, soils with concentrations in excess of the CTDEP RSRs are only located in the former MFA. As a result of impacts to site groundwater and soils, concentrations of chlorinated VOCs have also been detected in soil vapor beneath the building. The most frequently detected VOCs in soil vapor include TCE, 1,1-TCA, cis-1,2-DCE, and PCE. The highest concentrations have been detected in the southern portion of the building around recovery wells RVW-104 and RW-403 and along the northeastern side of the building near the former offices. Concentrations of chloroform, PCE and TCE have been detected above the I/C soil vapor volatilization criteria (SVVC).

Following the facility decommissioning, indoor air samples from locations spatially distributed around the building and in areas of higher sub-slab soil vapor readings were collected for analyses. For general comparison purposes, TCE exceeded the CTDEP RSR Target Indoor Air concentrations in each of the four samples and carbon tetrachloride slightly exceeded in two samples.

3. RAP SUMMARY

After a review of the site specific conditions, the corresponding remedial action objectives (RAOs) and available remedial technologies, the following was selected as the on-property remedy for the facility: 1) the installation and operation of a sub-slab vapor control system beneath the existing building to prevent migration of impacted soil vapor into indoor air; 2) the use of an environmental land use restriction to prevent direct contact and ingestion of impacted soil and groundwater and restrict construction of any new buildings in select areas; 3) the continued operation of the existing groundwater migration control treatment system; and 4) excavation and off-site disposal of impacted concrete in the former RCRA container storage area (CSA), referred to as AOC 17. The following sections provide the RAOs outlined in the March 2008 *RAP* and a summary of each component of the remedy.

3.1 REMEDIAL ACTION OBJECTIVES

RAOs consist of media-specific goals developed to demonstrate that the selected remedial actions will meet the following threshold criteria:

1. Protect human health and environmental receptors.
2. Achieve compliance with the CTDEP's Remediation Standard Regulations.
3. Control sources of releases to reduce or eliminate future releases.

As facility operations have ceased on the property and regulated materials are no longer used or stored on the property, the main objective of the remedial response actions are to prevent current and future exposure to any residuals remaining or migrating in environmental media as a result of former operations. The primary tools for determining whether the above criteria have been met are the CTDEP RSRs, as defined in Section 22a-133k-1 – 22a-133k-3.

As presented in the March 2008 *RAP*, the following summarizes the specific RAOs for the on-property conditions at the site:

- Prevent direct contact and ingestion of soil with concentrations of inorganics above the RSRs Industrial/Commercial Direct Exposure Criteria (I/C DEC);
- Prevent migration of inorganics in soils to groundwater that are present at concentrations above the GB Pollutant Mobility Criteria (PMC);
- Prevent exposure to soil vapor present beneath the building floor slab above the RSRs I/C soil vapor volatilization criteria (SVVC);
- Prevent migration of groundwater or soil vapor in excess of the volatilization criteria to indoor air at concentrations above the RSRs target indoor air concentrations; and
- Prevent migration of impacted groundwater off-site at levels in excess of the surface water protection criteria (SWPC).

The following components were selected as part of the on-property remedy to achieve these RAOs.

3.2 FORMER MFA REMEDIAL ACTION

A combination of institutional controls, the existing hydraulic containment groundwater treatment system downgradient of the MFA, and the installation and operation of a sub-slab soil vapor control system beneath the building floor slab have been implemented to eliminate the potential exposure pathways associated with the residual

volatile organic compound (VOC) and metals impacts in soil and groundwater beneath the former MFA and to aid in contaminant mass removal in order to meet the RAOs. Details on the different components of the selected remedial action for the former MFA are provided in Sections 4 through 6.

To aid in the achievement of the RAOs, an ELUR has been prepared for the property to restrict site usage to non-residential use. This restriction applies to the entire parcel of property. In addition, the ELUR documents soils in excess of applicable RSR criteria that are rendered inaccessible and environmentally isolated. The characterization of the soils is based on the results of the historical sampling and analytical work conducted in these areas whereby representative samples were characterized for VOCs and metals. The soil beneath the former MFA with concentrations in excess of the I/C DEC (nickel) are considered inaccessible since it is located beneath the existing building floor slab, preventing direct exposure. In addition, the soil beneath the former MFA in excess of the GB PMC for inorganics (copper, nickel, silver, and cyanide) are considered 'environmentally isolated' since they are located beneath the existing building, above the seasonal high water table, are not a continuing source of pollution, and are not VOCs. Since the rendering of these soils as inaccessible and environmental isolated is contingent on them being located beneath the existing building, the ELUR has been prepared to ensure that the existing building structure, or an equivalent containment structure, remains in place and provide provisions to ensure any future construction is adequately protective of human health and the environment (i.e., require a soil management plan under LEP oversight). Further details on the ELUR are provided in Section 5.

The objective of the sub-slab vapor control system is to eliminate the pathway for sub-slab soil vapors in excess of the RSR I/C soil vapor criteria to migrate into indoor air. The overall concept of the sub-slab vapor control system is to create a negative pressure field directly under the building in relation to the building's ambient pressure. The negative pressure field is created by vapor extraction blowers and a series of sub-slab extraction points. Volatile organic vapors beneath the slab are caught in this advective sweep, collected, and piped to the rooftop for discharge to the outside atmosphere. In addition to preventing the migration of VOCs in excess of RSR criteria into the building, the system also facilitates the removal of contaminant mass from the subsurface. Refer to Section 4 for further details on the installation of the sub-slab vapor control system and first two months of system operation.

3.3 FORMER LAGOON AREA

The existing groundwater extraction system, which is located immediately downgradient and adjacent to the former Lagoon Area, actively pulls from the affected zone, effectively reducing mass in the source area as well as hydraulically containing groundwater on the property. Additional source reduction measures in the former Lagoon Area may be favorable to reduce the future operational timeframe of the groundwater extraction system; however, they are not essential to meet the RAOs. Since the selected site-wide remedial approach addresses each of the site RAOs, implementation of an additional source reduction measure is not included in the overall remedial approach at this time. Refer to Section 6 for a summary of the existing groundwater migration control treatment system.

An ELUR has also been prepared as part of the remedial action for the former Lagoon Area. The ELUR includes a restriction on the construction of any new buildings in the area of the former lagoons where groundwater is detected at concentrations in excess of the I/C volatilization criteria. If a new building is proposed in this area, then this component of the ELUR could be released and proper controls installed (barriers or venting systems) to prevent the migration of impacted soil vapors into a new building. Further details on the ELUR are provided in Section 5.

3.4 RCRA CSA CLOSURE VIA CONCRETE REMOVAL AND OFF-SITE DISPOSAL

During RCRA closure investigation activities, the presence of two metals (silver and chromium) was detected above the media closure criteria in concrete samples from the former RCRA less than 90 day CSA. This CSA, AOC-17, is

the former hazardous waste storage area, which is located along the exterior wall of the south end of the facility. Due to the presence of these metals in excess of the media closure criteria within bermed areas No. 5, 6 and 7, additional remedial response actions were conducted. To complete the closure of the former unit at AOC-17, the concrete in bermed areas No. 5, 6, and 7 was excavated and disposed of off-site. Refer to Section 7 for additional details on the closure of AOC 17.

3.5 PUBLIC NOTICE REQUIREMENTS

In accordance with the Public Participation Plan developed for the site, a public notice of the proposed remedial plan was published in the Danbury News Times (a local newspaper) on March 19, 2008. Copies of the notice were also provided to the local officials. No comments were received by EPA regarding the notice. As part of the Public Participation Plan, a sign notifying the public that environmental clean-up work is being performed at the site was installed on May 7, 2008. A photograph of the sign is provided in Appendix A as well as a copy of the published notice.

4. SUB-SLAB VAPOR CONTROL SYSTEM

4.1 BACKGROUND

As part of the selected on-property remedy, a sub-slab vapor control system was installed beneath the footprint of the building to eliminate the potential pathway for VOC-impacted sub-slab vapors in excess of RSR soil vapor criteria to migrate into indoor air. The overall concept of the system is to create a negative pressure field directly beneath the building in relation to the building's ambient pressure. The negative pressure field is created using vapor extraction blowers and a series of sub-slab extraction points. Volatile organic vapors beneath the slab are caught in this advective sweep, collected, and piped to the rooftop for discharge to the outside atmosphere. In addition to preventing the migration of VOCs in excess of RSR criteria into the building, the system also facilitates the removal of contaminant mass from the subsurface.

4.2 SYSTEM DESIGN

The design incorporates a "zoning" approach to the extraction system with three separate zones based on the concentration of VOCs detected in the sub-slab soil vapors. Zone designation is based on previous soil vapor surveys that indicated two areas of higher concentrations of VOCs in the soil vapor – the former MFA and the former offices along the northern side of the building (hydraulically downgradient of the MFA). Within these two areas, performance evaluation tests (PETs) were conducted to assess the radius of influence, which was used to determine the number of wells required for the full-scale design.

Equipment and construction installation methods were detailed in the sub-slab vapor control system design Specifications and Drawings and final as-built drawings are included and described in the following sections of this report.

4.2.1 Zone 1

The Zone 1 treatment area occupies approximately 57,000 square feet (sf) of the total building floorplan (approximately 47%). This area encompasses the highest concentration of VOCs in the sub-slab vapors and incorporates active operation of the sub-slab system. In this area, a total of twenty-two extraction points were installed at a spacing of approximately 60 feet on-center (i.e., 30 foot radius of influence consistent with the pilot study).

The extraction point inlet pressures observed during the pilot study (up to 100 inches of W.C.) were at the outer limits of conventional regenerative type blowers typically used for these types of systems. Therefore, to reduce the inlet pressures and the number of extraction blowers needed, the design specified that 5 foot lengths of extraction well screens be positioned horizontally to reduce head loss at the extraction point inlet.

In order to transport the vapors outside the building, each 4-inch diameter 0.020 slot well screen is connected to a 4-inch PVC pipe running up the building columns to the underside of the roof support system. Each individual extraction point has a 4-inch ball valve for air flow adjustment and pressure, and sampling ports accessible from the floor level.

Vent roof penetrations were not installed at the time of construction for the Zone 1 extraction points. However, to accommodate a potential future retrofit to a passive system, a 4-inch tee connection with a cap was installed. From the tee connection, the 4-inch pipe transitions to a 2-inch PVC piping with a ball valve below the roofline. To

minimize piping, several extraction points are manifolded together along the path to the centrally located blower equipment enclosure. At this point, the piping penetrates the roof at the equipment enclosure. Zone 1 includes four separate roof mounted equipment enclosures (Blower-1 through Blower-4) each with a dedicated 4-HP regenerative extraction blower.

4.2.2 Zone 2

The Zone 2 treatment area occupies approximately 49,000 sf of the total building floor plan (approximately 40%). In this area, ten extraction points were installed at a spacing of approximately 100 feet on-center (i.e., 50 foot radius of influence consistent with the maximum observed radius of influence during the pilot study).

This area encompasses moderate sub-slab VOC concentrations and requires active operation at the start of system operation. However, once soil vapor has been purged and assuming that there are no continuing VOC sources present in this area and depending on the effectiveness of the Zone 1 extraction, Zone 2 may potentially be converted to a passive system in the future.

Similar piping, construction, and manifolding in Zone 1 were implemented in Zone 2, with the exception that each Zone 2 extraction point has a passive roof penetration installed. This passive roof penetration consists of a single 4-inch PVC pipe penetration through the roof. All ten passive vents are currently capped and operating in active mode. There is only one Zone 2 roof mounted equipment enclosure (Blower-5) with one 4-HP regenerative extraction blower.

4.2.3 Zone 3

There are two areas of the building that exhibited non-detect to very low levels of VOCs in the soil vapor below the CTDEP's RSR SVVC during the 2002 and 2007 sub-slab soil vapor surveys. These areas include an approximate 4,200 sf area in the northeast corner of the building and a 10,800 sf area in the southwest corner of the building. Based on these soil vapor data and as specified in the RAP, no extraction points were constructed in Zone 3.

4.2.4 Vapor Probe Monitoring Points

As part of a soil vapor survey and PET pilot study performed in 2007, a total of 17 soil vapor probe locations (SV301 through SV317) and nine PET vapor monitoring points were installed. PET monitoring points installed in the former MFA (Area A) included VP-17.5A, VP-25A, VP-30A, and VP-35A. VP-35A has since been destroyed and no longer is used for monitoring. PET monitoring points installed beneath the office area (Area B) included VP-7.5B, VP-15B, VP-25B, VP-32.5B, and VP-40B.

All vapor probes are protected and utilized to monitor vacuum and performance of the full scale system. No additional monitoring probes were required during construction of the system. Locations of the extraction points, and vapor probes, are shown on Figure 4.

4.3 SYSTEM CONSTRUCTION

Clean Harbors Environmental Services (CHES) was contracted to perform construction of the sub-slab system and W&C provided construction oversight. Construction duration was approximately 3.5 months; work commenced on June 30, 2008 and was completed on October 14, 2008. All Zone 1 and 2 work was conducted by appropriately trained CHES personnel following applicable health and safety procedures. A Site-Specific Health and Safety Plan

consisting of plans for air monitoring and action levels, trenching and excavation procedures, working inside buildings, and fall protection procedures was followed during construction activities.

The system was installed in general conformance with the design drawings and specifications, with a few minor piping run adjustments to account for encountered field conditions. Trench and piping adjustments were made to avoid building columns and foundation footings. The locations of Zone 1 and 2 passive vent roof penetrations and the blower enclosures were also adjusted to avoid existing roof obstructions.

System as-built drawings, designated as Figures 5 through 9 are discussed in the following sections. Photographs documenting the system installation are provided in Appendix B.

4.3.1 Well Installation

As previously discussed, to reduce the inlet pressures and the number of extraction blowers needed, the lengths of extraction well screens were positioned horizontally to reduce head loss at the extraction point inlet. The extraction points consisted of a minimum five foot long, 4-inch diameter 0.020 slot well screen. The sub-surface orientation of these extraction points was positioned to maximize the zone of influence to the areas of higher soil vapor concentrations, as applicable.

W&C pre-marked all extraction point locations for CHES. In Zone 1, a total of 21 extraction points (EP-1 through EP-21) were installed at a spacing of approximately 60 feet on-center (i.e., 30 foot radius of influence consistent with the pilot study). In addition, an existing soil vapor extraction well (VES-109) was re-piped and integrated into the system. In Zone 2, ten extraction points (EP-22 through EP-31) were installed at a spacing of approximately 100 feet on-center (i.e., 50 foot radius of influence consistent with the maximum observed radius of influence during the pilot study). Whenever possible, these extraction points were located adjacent to building columns to minimize the amount of concrete cutting and trenching required. The as-built layout of the extraction points is provided on Figure 5.

In order to install the wells at each extraction point, 5 to 12 inches of concrete was saw cut and soil was excavated to the required screen installation depth. Refer to Section 4.3.4 for additional details on the concrete and soil disposal. W&C collected and recorded soil headspace readings and cross section descriptions for all excavated areas. A layer of 3/4-inch stone and geotextile fabric was installed around each five foot long well screen within each trench. CHES fitted the well screen riser pipe with metal transition sleeves (protective steel collars) at the floor penetration to prevent future incidental damage caused by potential future building occupants. The extraction point and riser piping details are provided on Figure 6. Photographs depicting the well installation are provided in Appendix B.

All extraction points (well screen, gravel, geotextile fabric, and steel collars) were installed through August 15, 2008. Concrete restoration at all extraction points was completed on August 19, 2008.

4.3.2 Piping

Each protective steel collar was connected to a 4-inch PVC riser pipe running up the column to the underside of the roof support system and then plumbed the vertical piping to the roofline conveyance piping. A 4-inch ball valve (for air flow adjustment) as well as pressure, flow, and sampling ports were installed on the vertical run of pipe along the column. These valves and ports were installed approximately eight feet above the finished floor to prevent potential tampering by future occupants.

At this time, no passive vent roof penetrations were installed for the Zone 1 extraction points. However, to accommodate potential future use as a passive system, a 4-inch tee connection was installed and capped for future access. From the tee connection, the 4-inch pipe transitions to 2-inch PVC piping with a ball valve and is supported in the ceiling below the roofline. To minimize piping, several extraction points were manifolded together along the path to centrally located blower equipment enclosures. At this point, the piping penetrates the roof at a single location within each of the equipment enclosures (i.e., no piping is located on the exterior roof top).

Similar piping, construction, and manifolding described for Zone 1 were installed for Zone 2, except that each Zone 2 extraction point has passive roof penetrations. This passive roof penetration consists of a single 4-inch PVC pipe penetration through the roof. All ten passive vents are currently capped and operating in active mode. All piping and roof penetration seals were completed on September 3, 2008.

The piping, analysis port, and flow measurement port details are provided on Figure 6. The as-built roof piping layout for Zones 1 and 2 is provided on Figure 7.

4.3.3 Equipment Installation

Piping extends to the roofline and into conveyance piping towards five separate blower equipment enclosures. Zone 1 includes four separate roof mounted equipment enclosures (Blower-1 through Blower-4) each with a dedicated 4-HP regenerative extraction blower. There is one Zone 2 roof mounted equipment enclosure (Blower-5) and one 4-HP regenerative extraction blower. Each blower enclosure is 4 feet by 4 feet by 4 feet tall and accommodates five to seven extraction points. Associated blower piping, filters, and appurtenances have been installed within each enclosure.

W&C obtained an electrical permit from the City of Danbury on July 28, 2008. Electrical work commenced on August 8, 2008 by John Bigelow Electrician, Inc. and was completed by September 17, 2008. John Bigelow Electric installed electrical conduits, blower panels, and connections on the roof top. The blower alarm system was connected into the existing groundwater treatment system located in the shed on the west side of the site building and incorporated into the Site's remedial system alarm monitoring program.

Bigelow Electric and W&C tested all five blowers and panels on September 17, 2008. All tests and readings were within specifications. The City of Danbury Electrical inspector conducted a site walk and inspection of the electrical system on October 14, 2008; no issues were found. On the same day, W&C conducted a post construction inspection and identified several air leaks in the newly placed concrete around several extraction points. Subsequently, CHES made all required repairs to fix the air leaks.

Final as-built piping and instrumentation diagrams (P&ID) for the piping, equipment, instrumentation, and extraction points for Zone 1 and 2 are provided on Figures 8 and 9, respectively. These figures show the limits of work within the building, ceiling, and on the roof and actual location of the installed appurtenances in the process train.

4.3.4 Waste Management

During construction, non-hazardous concrete and soil were generated during installation of the extraction points beneath the existing building floor slab. The excavated soil and concrete were temporarily stockpiled outside in the parking lot area and were underlain and covered by polyethylene sheeting. The specific details related to the off-site disposal of each of these materials are provided in the following sections. The loading and off-site disposal of the non-hazardous concrete and soil occurred concurrently with the off-site disposal of the concrete from the CSA, as described in Section 7.

4.3.4.1 Non-Hazardous Concrete Disposal

Concrete removed during well installation was stockpiled in a designated outdoor area. All concrete was placed on and covered by polyethylene sheeting. Concrete floor slab removed during well installation was determined to be non-hazardous since there was no indication of past releases or stains were not present on the concrete. CHES loaded and transported two truck loads of non-hazardous concrete on October 13, 2008 and one truck load on October 14, 2008 to the pre-approved facility, John J. Brennan Construct in Shelton, Connecticut. A total of 50.37 tons of non-hazardous concrete were disposed at this facility. Note that this total includes the non-hazardous concrete removed from berm 5 in AOC 17 (see Section 7). Copies of the transportation documentation are provided in Appendix C.

4.3.4.2 Non-Hazardous Soil Disposal

Soils removed during well installation activities were stockpiled in the parking area next to the concrete pile. Soil was placed on and covered by polyethylene sheeting. W&C collected soil samples of the stockpiled material for off-site disposal on August 8, 2008. Additional samples were collected on September 17, 2008 at the request of the disposal facility. All samples were analyzed by Alpha Analytical of Westborough, Massachusetts. Based on a review of the Massachusetts Department of Environmental Protection (MassDEP) COMM-97 Policy, a Waste Profile Sheet was completed and the soil was approved for disposal by the disposal facility. CHES loaded and transported three truck loads of non-hazardous soil, a total of 71.66 tons of soil, to the pre-approved Connecticut Valley Sanitary Waste Disposal, Inc. in Chicopee, Massachusetts on October 14, 2008. The soil was used as landfill daily cover material. All areas used to stockpile materials were restored to the original condition.

The laboratory reports, waste profile with analytical summary table, MassDEP material shipping record and log, and weight tickets are provided in Appendix C.

4.4 SYSTEM START-UP TESTING

4.4.1 Mechanical

In conjunction with the final day of electrical work, Bigelow Electric and W&C performed a mechanical test on September 17, 2008. The first phase of the system start-up included a test of the mechanical operation of the system components. Each extraction blower was checked for proper rotation of the impeller. Once this was confirmed, the blowers were operated on dilution air and the discharge vents were visually inspected for flow. All five blowers were run for several hours on September 17, 2008 to confirm that the system was ready for full-scale start-up and prove-out.

In addition, W&C tested and proved out each blower to ensure communication with the groundwater system's PLC. If a blower shuts down, the PLC (through the Telog unit) communicates with the master computer located in the W&C Andover office. Each blower was proved out and capable of alarming the master computer upon shutdown or loss of power at the blower enclosure.

4.4.2 Flow and Vacuum

Once it was confirmed that the mechanical system components were operating properly, the effectiveness (flow and vacuum influence) of each well was tested.

After the blowers were started, each extraction point was inspected by visual and audible means to verify that air flow short-circuiting was not occurring. In addition, the individual flow control valves at each extraction point were adjusted to balance flow across the entire building footprint. The goal of this task was to establish a negative pressure beneath the entire slab and promote purging of accumulated soil vapor.

Extraction point vacuum was measured using a Magnehelic pressure gauge and flow was calculated by measuring velocity with a hot-wire anemometer. A photoionization detector (PID) was used to screen each extraction point for total VOCs (TVOCs) to assess influent concentrations with time in different areas beneath the slab. In addition, the 17 vapor probes installed during the soil vapor survey and eight vapor probes remaining from the PET were also used to evaluate system performance. At each vapor probe monitoring point, vacuum and TVOC-PID concentrations were measured to assess the system's subsurface vacuum influence and to monitor sub-slab vapor concentrations. A vacuum measurement of 0.002 inches of water column (in-WC) at the vapor probes is considered significant and an indication that the system has influence over that area (general industry standard). In conjunction with vapor probe subsurface vacuum measurements, TVOC-PID data was evaluated to assess soil vapor concentrations over time. These two lines of evidence were initially used to develop the system operational parameters, since in some instances vacuum may not be observed at certain vapor probes due to localized site obstructions or clogging of the vapor probe well points.

Following the completion of the testing of the system, a full system start-up was performed to verify proper operation on September 22, 2008. The system was operational by the end of day and has been operating in full-scale mode continuously, with the exception of short-term shutdowns to perform system maintenance or electrical power outages to the area.

Based on readings collected during start-up, vapor probes SV-301 and SV-307 may be clogged or locally obstructed since significant vacuum was not seen at these 2 locations and collecting a sample at these locations is slower than at the other vapor probes. These points are located adjacent to each other on the northern side of the building. TVOC at these locations has trended downward and has been at very low concentrations since the first week of start-up suggesting that the soils in the vicinity of these vapor probes are being influenced by the system. Therefore, it is not recommended that these points be replaced at this time, since significant vacuum is observed at all other vapor probes and TVOC readings have declined since start-up. In addition, depending on future building use, these two and/or other vapor points may not be accessible in the future, and are not readily needed since vacuum influence has been observed over the majority of the building.

4.5 SYSTEM START-UP MONITORING

Monitoring of the system commenced on September 22, 2008 to ensure the system was working effectively in achieving its performance objectives. Monitoring included physical and chemical field measurements, such as air flowrate, vacuum, temperature, and TVOC using a PID. The goal of monitoring was to adjust the extraction rates to optimize mass removal. Routine activities include monitoring of the five blowers, the 32 extraction points (EP-1 through EP-31 and the pre-existing SVE well VES-109) and up to 25 existing vapor probes.

Routine monitoring is performed in accordance with the Operation, Maintenance and Monitoring (OM&M) Plan. OM&M measurements are recorded on System Checklists; completed checklists for months 1 and 2, discussed in the following sections, are provided in Appendix D. The following sections detail the OM&M activities and results conducted during the first 2 months of system operation. All future OM&M activities will be documented in the semi-annual on-property remedy status reports. Results from the first 2 months of system operation demonstrate that sufficient vacuum is present across the building footprint and the system is operating as designed.

4.5.1 Month 1 O&M

The frequency and specific monitoring activities for the first month (mid-September to mid-October 2008) of system start-up are summarized below, and detailed in Table 4-1.

Week 1 (September 22, 24, and 27, 2008)

Three Site Checks

- Equipment Enclosures (Blower Influent): vacuum, flow, TVOC-PID
- Extraction Points: vacuum, flow, TVOC-PID
- Accessible Vapor Probes: vacuum, TVOC-PID

Weeks 2 through 4 (October 1, 9, and 16, 2008)

Weekly

- Equipment Enclosures (Blower Influent): vacuum, flow, TVOC-PID
- Equipment Enclosures (Blower Effluent): during Week 3, effluent air samples were collected in Summa canisters and analyzed for VOCs via EPA Method TO-15 to compare to CTDEP discharge limits (results are discussed in Section 4.5.3).
- Extraction Points: vacuum, flow, TVOC-PID
- Accessible Vapor Probes: vacuum, TVOC-PID

Month 1 System Checklists are provided in Appendix D. After one month of system operation, W&C observed an increase in VOC-PID readings across the system. During week 4, the blower inlet TVOC concentrations ranged from 2.4 to 19.4 ppm_v. Significant vacuum was observed at all but four monitoring locations (SV-301, SV-306, SV-307, and SV-317). In general, these four locations are positioned near the building walls and away from the source areas (two are located in Zone 3). Low to non-detect PID readings were observed in these four locations. At six extraction points, TVOC-PID concentrations were measured above 10 ppm_v, including EP-3, EP-4, EP-6, EP-8, EP-14, and VES-109.

4.5.2 Month 2 O&M

The frequency and specific monitoring activities for Month 2 (performed on November 14, 2008) and thereafter are summarized below, and detailed in Table 4-2. This completion report discusses data collected through Month 2 of SSDS operation.

Routine Monitoring

- Equipment Enclosures (Blower Influent): vacuum, flow, TVOC-PID
- Extraction Points : vacuum, flow, TVOC-PID
- Accessible Vapor Probes: vacuum
- Accessible Vapor Probes: TVOC-PID

The system checklists for the second month of system operation are provided in Appendix D. After two months of system operation, W&C observed a slight decrease in VOC-PID readings across the system. The blower inlet TVOC-PID concentrations ranged from 0.9 to 17.7 ppm_v. Significant vacuum was observed at all but four monitoring locations. However, these same four locations identified for Month 1 are positioned near the building walls and away from the source areas (2 are in Zone 3); low to non-detect PID readings were observed in these four locations. TVOC –PID concentrations were measured above 10 ppm_v at five locations, including EP-4, EP-5, EP-6, EP-8, and EP-10.

Vacuum at the extraction points and monitoring points was used to verify that the system operational configuration of the extraction points is meeting the design objectives. Depending on system monitoring and testing results, if low sub-slab vapor concentrations continue to be observed, the operation of the blowers may be cycled in the future.

4.5.3 Off Gas Evaluations

Process air from the five blowers is discharged approximately four to five feet vertically above the roofline of the building. During design, it was determined that the potential total emission of VOCs to the atmosphere of all five blowers, individually and combined, is much less than the 15 tons per year limit threshold regulated under the Connecticut Hazardous Air Pollutant (HAP) regulations and the VOC concentrations would not exceed the maximum allowable stack concentration (MASC). As a result, treatment and permitting was not warranted.

In order to ensure compliance with the regulations, VOC sampling at the blower discharge vents was conducted during Week 3. Discharge samples from the five blowers were collected in Summa canisters and analyzed for VOCs via EPA Method TO-15 to compare to CTDEP discharge limits. The calculated combined VOC emissions from the five blowers (Blower-1 through Blower-5) was less than 15 tons per year of VOC emissions, confirming an air permit is not required. In addition, concentrations were below the MASC limits; confirming that off gas controls are not required.

Laboratory results and the air emissions calculation worksheets are provided in Appendices E and F, respectively.

TABLE 4-1
SUB-SLAB VAPOR CONTROL SYSTEM OM&M START-UP MONITORING SCHEDULE- MONTH 1
Former Risdon Facility, Danbury, Connecticut

System	Description	Sample Type	Parameter	Sample Location	Operating Time	Frequency	Analytical Method	Comments
Blower Equipment Enclosures (Blower No. 1 through Blower No. 5)	Blower Influent	Process Vapor	Vacuum, Flow, TVOC-PID	Blower Inlet	Week 1	Three times	Magnehelic gauge, hot wire anemometer, Photoionization Detector (PID)	Used to assess general vapor mitigation system performance
		Process Vapor	Vacuum, Flow, TVOC-PID	Blower Inlet	Week 2 thru Week 4	Weekly	Magnehelic gauge, hot wire anemometer, Photoionization Detector (PID)	
	Blower Effluent	Process Vapor	Temperature, Flow	Discharge Vent	Week 1	Three times	Fixed dial gauge, hot wire anemometer	Used to assess blower performance
		Process Vapor	Temperature, Flow	Discharge Vent	Week 2 thru Week 4	Weekly	Fixed dial gauge, hot wire anemometer	
		Process Vapor	Individual VOCs	Discharge Vent at each Blower Enclosure	Week 3	Once	Summa canister (CT RCP TO-15 list, plus Freon-113)	Sample results will be compared to discharge limits to verify that offgas controls are not required
	Particulate Filter	Process Vapor	Differential pressure	Filter	Week 1	Three times	Magnehelic gauge	Used to indicate when the filter media requires replacement
		Process Vapor	Differential pressure	Filter	Week 2 thru Week 4	Weekly	Magnehelic gauge	
	Runtime Meter	Electronic	Hours	Each Blower Control Panel	Week 1	Three times	Electric Hour Meter	The actual run time of each blower will be used to compare to the time period between site checks
		Electronic	Hours	Each Blower Control Panel	Week 2 thru Week 4	Weekly	Electric Hour Meter	
Extraction Points	Individual Extraction Point	Soil Gas	Vacuum, Flow, TVOC-PID	EP-1 thru EP-31 and VES-109	Week 1	Three times	Magnehelic gauge, hot wire anemometer, Photoionization Detector (PID)	Used to assess relative vapor contaminant distribution beneath the building and to optimize vapor mitigation system performance
		Soil Gas	Vacuum, Flow, TVOC-PID	EP-1 thru EP-31 and VES-109	Week 2 thru Week 4	Weekly	Magnehelic gauge, hot wire anemometer, Photoionization Detector (PID)	
Vapor Probes	Individual Vapor Probe	Soil Gas	Vacuum, TVOC-PID	SV301 thru SV317, and (9) Pilot Study VPs	Week 1	Three times	Magnehelic gauge and Photoionization Detector (PID)	Readings will only be collected at accessible and/or appropriate locations
		Soil Gas	Vacuum, TVOC-PID	SV301 thru SV317, and (9) Pilot Study VPs	Week 2 thru Week 4	Weekly	Magnehelic gauge and Photoionization Detector (PID)	

TABLE 4-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M ROUTINE MONITORING SCHEDULE- MONTH 2 and BEYOND
Former Risdon Facility, Danbury, Connecticut

System	Description	Sample Type	Parameter	Sample Location [1]	Operating Time [2]	Frequency [2]	Analytical Method	Comments
Equipment Enclosures (Blower No. 1 through Blower No. 5)	Blower Influent	Process Vapor	Vacuum, Flow, TVOC-PID	Blower Inlet	Month 2 and Beyond	Monthly	Magnehelic gauge, hot wire anemometer, Photoionization Detector (PID)	Used to assess general vapor mitigation system performance
	Blower Effluent	Process Vapor	Temperature, Flow	Discharge Vent	Month 2 and Beyond	Monthly	Fixed dial gauge, hot wire anemometer	Used to assess blower performance
		Process Vapor	Individual VOCs	Discharge Vent at each Blower Enclosure	Month 2 and Beyond	Annually	Summa canister (CT RCP TO-15 list, plus Freon-113)	Sample results will be compared to discharge limits to verify that offgas controls are not required
	Particulate Filter	Process Vapor	Differential pressure	Filter	Month 2 and Beyond	Monthly	Magnehelic gauge	Used to indicate when the filter media requires replacement
	Runtime Meter	Electronic	Hours	Each Blower Control Panel	Month 2 and Beyond	Monthly	Electric Hour Meter	The recorded run time of each blower will be compared to the time period between site checks to confirm that the blower was operational for the entire time period
Extraction Points	Individual Extraction Point	Soil Gas	Vacuum, Flow, TVOC-PID	EP-1 thru EP-31 and VES-109	Months 2 thru 6	Monthly	Magnehelic gauge, hot wire anemometer, Photoionization Detector (PID)	Used to assess relative vapor contaminant distribution beneath the building and to optimize vapor mitigation system performance
		Soil Gas	Vacuum	EP-1 thru EP-31 and VES-109	Month 7 and Beyond	Quarterly	Magnehelic gauge	
		Soil Gas	Flow, TVOC-PID	EP-1 thru EP-31 and VES-109	Month 7 and Beyond	Quarterly	Hot wire anemometer, PID	
Vapor Probes	Individual Vapor Probe	Soil Gas	Vacuum	SV301 thru SV317, and (9) Pilot Study VPs	Months 2 thru 6	Monthly	Magnehelic gauge	Readings will only be collected at accessible and/or appropriate locations
		Soil Gas	TVOC-PID	SV301 thru SV317, and (9) Pilot Study VPs	Months 2 thru 6	Quarterly	PID	
		Soil Gas	Vacuum, TVOC-PID	SV301 thru SV317, and (9) Pilot Study VPs	Month 7 and Beyond	Quarterly	Magnehelic gauge and PID	
Indoor Air Testing	Representative Building Locations	Ambient Indoor Air	Target VOCs (PCE, TCE)	Ambient at WCAS-1 through WCAS-5	Month 2 and Beyond	Annually	Summa canister (CT RCP TO-15 list, plus Freon-113)	To assess the progress of the vapor mitigation system

Notes:
1. Depending on the performance of the system, select areas may not require continued operation and therefore, monitoring in these areas may be reduced and/or eliminated upon approval by the Agency.
2. During each semi-annual reporting period, an evaluation will be performed on the need for supplemental or a reduction in monitoring.

5. ENVIRONMENTAL LAND USE RESTRICTION

As part of the selected remedy, an environmental land use restriction has been prepared, for recording on the Danbury Land Records. A copy of the draft ELUR is provided in Appendix G. Currently, CR USA is working with CTDEP for their review of the draft ELUR and preparing necessary subordination agreements. The following sections outline the restrictions included in the ELUR for the entire property, as well as the former metals finishing and lagoon areas.

Entire Property

To aid in the achievement of the RAOs, an ELUR has been prepared to restrict site usage to non-residential use. This restriction applies to the entire parcel of property as shown on Figure 10. The ELUR restricting the parcel to non-residential uses allows the use of the I/C Groundwater Volatilization Criteria (GWVC) and I/C SVVC with regard to groundwater and soil vapor compliance.

Unsaturated Soil – Former MFA

For the unsaturated soil beneath the former MFA, the ELUR was prepared to document those soils in excess of applicable RSR criteria that are rendered inaccessible and environmentally isolated, as depicted on Figure 10. The characterization of the soils is based on the results of the historical sampling and analytical work conducted in these areas whereby representative samples were characterized for VOCs and metals (as summarized in the March 2008 RAP). The soil beneath the former MFA with concentrations in excess of the I/C DEC (nickel) are considered inaccessible since it is located beneath the existing building floor slab, preventing direct exposure. In addition, the soil beneath the former MFA in excess of the GB PMC for inorganics (copper, nickel, silver, and cyanide) are considered 'environmentally isolated' since they are located beneath the existing building, above the seasonal high water table, are not a continuing source of pollution, and are not VOCs.

Since the rendering of these soils as inaccessible and environmental isolated is contingent on them being located beneath the existing building, the ELUR has been prepared to ensure that the existing building structure, or an equivalent containment structure, remains in place and the subject underlying soils are not disturbed in any manner. If property conditions or usage change over time, the ELUR may be revised in the future to ensure that if any soils are exposed during potential future construction on-site that they will be managed appropriately by certified personnel and with the appropriate health and safety controls.

Former Lagoon Area

The ELUR has also been prepared as part of the remedial action for the former Lagoon Area. The ELUR includes a restriction on the construction of any new buildings in the area of the former lagoons where groundwater is detected at concentrations in excess of the I/C volatilization criteria (see Figure 10). If a new building is proposed in this area, then this component of the ELUR could be released and proper controls installed (barriers or venting systems) to prevent the migration of impacted soil vapors into a new building.

Recording of the ELUR

Upon CTDEP approval, the ELUR will be appropriately recorded on the land records.

6. GROUNDWATER MIGRATION CONTROL

The property line groundwater migration control treatment system operates continuously, twenty-four hours a day. The system was initially installed as an ICM and was enhanced in 2005 with the addition of three recovery wells along the northeastern edge of the property. This system treats VOC impacted groundwater from six recovery wells (RW-1 through RW-6) at a design flow rate of 25 to 30 gallons per minute (gpm). During the last reporting period to the Agencies (June 1 through November 30, 2008), total flow rates ranged from 14 to 16 gpm for an average continuous flow (with the recovery wells cycling) of approximately 11.5 gpm.

In summary, since the start of the system in August 2005, the system has operated for approximately 3.6 years and has removed approximately 1,500 pounds of VOCs (through May 31, 2009). Monitoring of the system has shown that the treatment system continues to perform effectively, meeting its operational goals by capturing the VOC impacted plume and effectively treating the extracted groundwater. Refer to Figure 11 for the layout of the wells and trenching for the system and Figure 12 for the Piping and Instrumentation Diagram (P&ID).

The main components of the treatment system include:

- Submersible groundwater extraction pumps in six recovery wells, with high/low water level shut off;
- Bag filters to reduce the levels of iron, manganese, and suspended sediments;
- Tray air stripper for VOC removal (air stripper unit includes blower and discharge transfer pump);
- Precipitate control through Redux 380 (sequestering agent) and a chemical feed pump;
- Two 1,000-pound granular activated carbon units to treat discharged air; and
- Control panels to operate the system, notify a master computer of any major alarm conditions, record air and water flow rates through the system, and transfer data to the master computer.

All equipment, with the exception of the submersible pumps and associated piping, is housed in a metal treatment building located adjacent to the main facility building (Figure 11).

The extracted groundwater is treated and discharged in accordance with a certificate of registration issued by the CTDEP to Crown Risdon under the General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer. The receiving facility is the City of Danbury Water Pollution Control Plant. Information regarding the site-specific registration is as follows:

- Site No. – 34-021
- Permit No. – GGR001441
- Initially Issued – March 4, 2005
- Re-issued – April 18, 2008
- Expires – February 15, 2018

There has been no violation of the General Permit discharge volume (50,000 gallons per day), nor the effluent discharge concentration limits, since the system started in 2005. Operation, maintenance and monitoring (OM&M) activities are conducted on the system on a monthly basis in accordance with the *Operation, Maintenance and Monitoring Plan.* OM&M data and evaluation are presented in semi-annual status reports; refer to the December 2008 *Remedy Operation Semi-Annual Status Report* for the most recent details on the OM&M activities for this system.

In addition to the monthly OM&M activities conducted on the groundwater system equipment, semi-annual groundwater monitoring is performed across the site. Similar to years past, the results of the 2008 groundwater

monitoring have demonstrated an overall decreasing trend of contaminant levels in groundwater across the site since monitoring began in the late 1980's/ early 1990's. In addition, notable decreases in VOC concentrations within the past few years have been observed in the vicinity and immediately downgradient of the former Lagoon Area. Although current levels of inorganics and VOCs along the downgradient property boundary remain above the CTDEP RSRs SWPC in select wells, concentrations have declined over time and the number of locations with an exceedence has decreased.

The overall decrease in VOC levels over time and the decrease and/or stability of contaminants over the past couple years demonstrates the effectiveness of the groundwater migration control system and that migration of contaminated groundwater has stabilized and is under control. In September 2008, EPA concluded that the Environmental Indicator CA 750 Migration of Contaminated Groundwater Under Control has been achieved. As part of the conditions, groundwater monitoring activities will be continued to monitor conditions over time.

As part of the approved on-property RAP, the groundwater migration control system will continue to operate until RAOs are achieved.

7. RCRA CSA CLOSURE

During closure activities of the former RCRA CSA, the presence of two metals (silver and chromium) was detected above the media closure criteria in concrete samples from AOC-17. Due to the presence of these metals in excess of the media closure criteria within bermed areas No. 5, 6 and 7, additional remedial response actions were warranted (refer to the March 2008 RAP).

AOC-17 is the former hazardous waste storage area, which is located along the exterior wall of the south end of the facility. It consists of a seven chambered concrete berm (10-inch high) of approximate dimensions of 7 ft. wide by 88 ft. long (616 ft^2). The berm was constructed with a concrete bottom and sealed with epoxy paint. The entire storage area is covered with a roof. According to facility personnel, this area was used for less than 90 day storage of spent acids, alkalines, and flammable liquids. In addition to the storage of hazardous wastes, the bermed chambers were also used to store raw material (oils, etc.), empty drums, and other non-hazardous materials.

To complete the closure of the former unit at AOC-17, the concrete in bermed areas No. 5, 6, and 7 was removed from the site by Clean Harbors Environmental Services of Bristol, Connecticut. Refer to Appendix H for photographs of this area. Based on the characterization sampling, concrete from berm No. 5 was characterized as non-hazardous while concrete from berm No. 6 and 7 was characterized as a hazardous waste due to chromium concentrations.

The non-hazardous concrete removed from berm 5 was disposed of at John J. Brennan Construct in Shelton, Connecticut with the concrete generated during the installation of the sub-slab vapor control system. Approximately 10 tons of concrete was removed from berms 6 and 7, transported off-site by Clean Harbors Environmental Services, and ultimately disposed of as hazardous waste at the Lambton landfill in Ontario. All concrete was removed and stockpiled on and beneath polyethylene sheeting and transported off-site for disposal on October 13 and 14, 2008. A copy of the non-hazardous transportation documentation is provided in Appendix C and copies of the hazardous concrete waste disposal documentation is provided in Appendix I.

Following concrete removal, confirmatory soil samples were collected in accordance with the March 2008 *RAP* sampling plan. Five soil samples (RDS.AOC17.CS5.1 to RDS.AOC17.CS7.2) were collected from beneath the concrete at a depth of 0 to 6 inches and analyzed for total and SPLP silver (berm 5) or chromium (berms 6 and 7). Refer to Figure 13 for the location of these samples, Table 6-1 for a summary of the results and Appendix J for a copy of the analytical reports.

With the removal of the impacted concrete and the results of the confirmatory soil data below the applicable RSR Criteria, no further action is warranted in this area.

TABLE 7-1
SUMMARY OF CONFIRMATORY SOIL DATA - AOC-17 CLOSURE
Former Risdon Facility, Danbury, Connecticut

			Berm 5	Berm 6		Berm 7	
	Industrial/ Commercial DEC	GB-PMC	RDS.AOC17.CS5.1 18-JUL-08	RDS.AOC17.CS6.1 18-JUL-08	RDS.AOC17.CS6.2 18-JUL-08	RDS.AOC17.CS7.1 18-JUL-08	RDS.AOC17.CS7.2 18-JUL-08
Total Metals *(mg/kg)*							
Chromium, Total	51,000	--	NA	**29**	**78**	**13**	**20**
Silver, Total	10,000	--	<0.54	NA	NA	NA	NA
SPLP Metals *(mg/l)*							
Chromium, SPLP	--	0.5	NA	<0.01	**0.03**	<0.01	<0.01
Silver, SPLP	--	0.36	<0.007	NA	NA	NA	NA

Notes:
NA - not analyzed for this parameter.

8. SUMMARY

The construction of the on-property remedial actions have been completed at the former Risdon facility located at 15 Old Newtown Road in Danbury, Connecticut. All activities were conducted in accordance with the March 2008 *Remedial Action Plan*.

A summary of the remedy components and the status of completed activities follows:

1) Installation and operation of a sub-slab vapor control system beneath the existing building to prevent migration of impacted soil vapor into indoor air:

    a. Status - Installation of the sub-slab vapor control system was completed during the summer of 2008 with start-up of the system commencing on September 22, 2008. OM&M activities are being conducted in accordance with the *Revised OM&M Plan, On-Property Conditions, December 2008*.

2) Continued operation of the existing groundwater migration control treatment system:

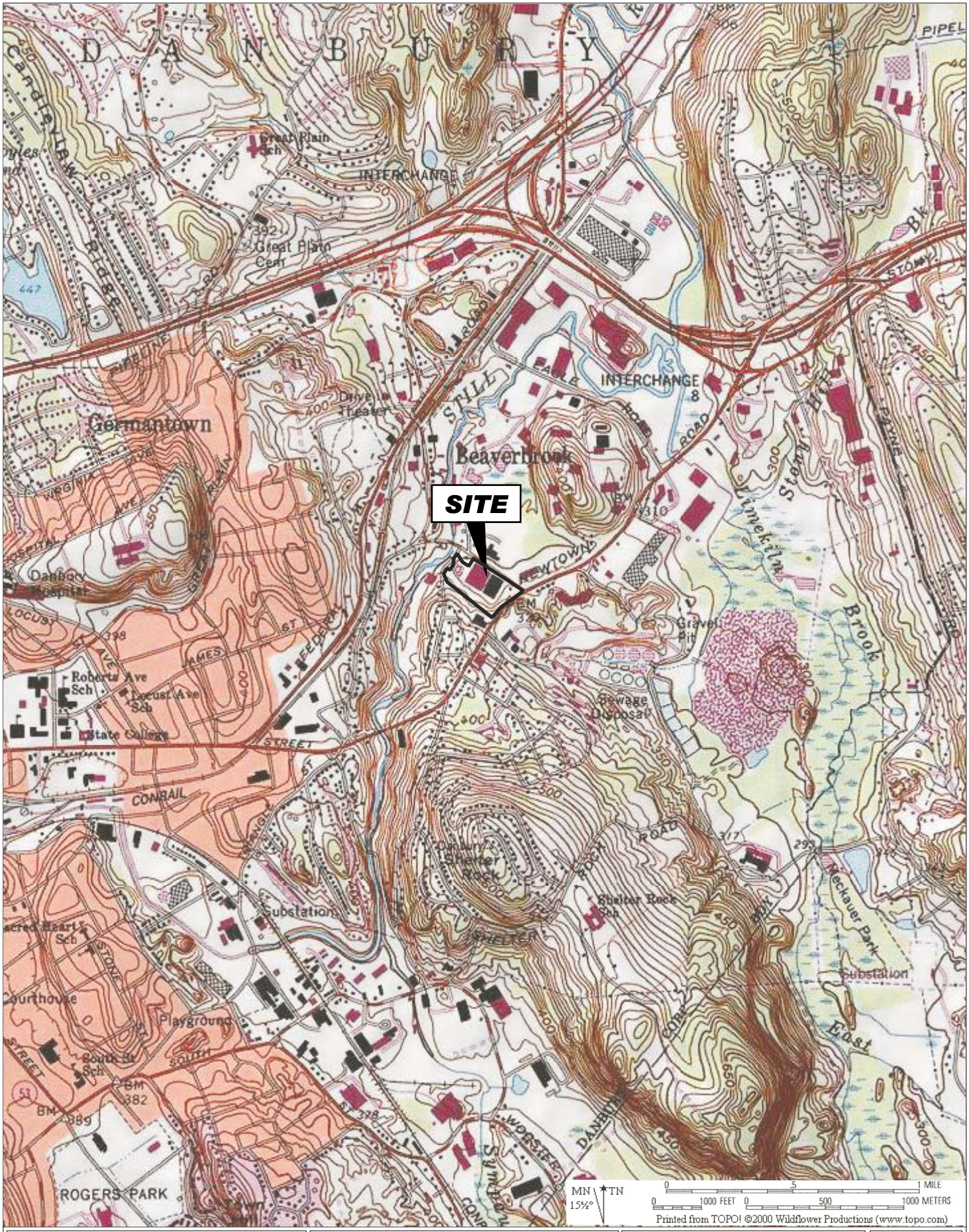
    a. Status – No additional activities completed at this time. OM&M activities will continue in accordance with the *Revised OM&M Plan, On-Property Conditions, December 2008.*

3) Record an environmental land use restriction (ELUR) to restrict site use to non-residential, prevent direct contact and ingestion of impacted soil and groundwater, and restrict construction of any new buildings in select areas:

    a. Status – Draft ELUR package prepared for CTDEP review. On-going.

4) Excavation and off-site disposal of impacted concrete in AOC 17:

    a. Status - With the removal of the impacted concrete from AOC-17 and the results of the confirmatory soil data below the applicable RSR criteria, no further action is warranted in this area.



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COMMITMENT & INTEGRITY DRIVE RESULTS

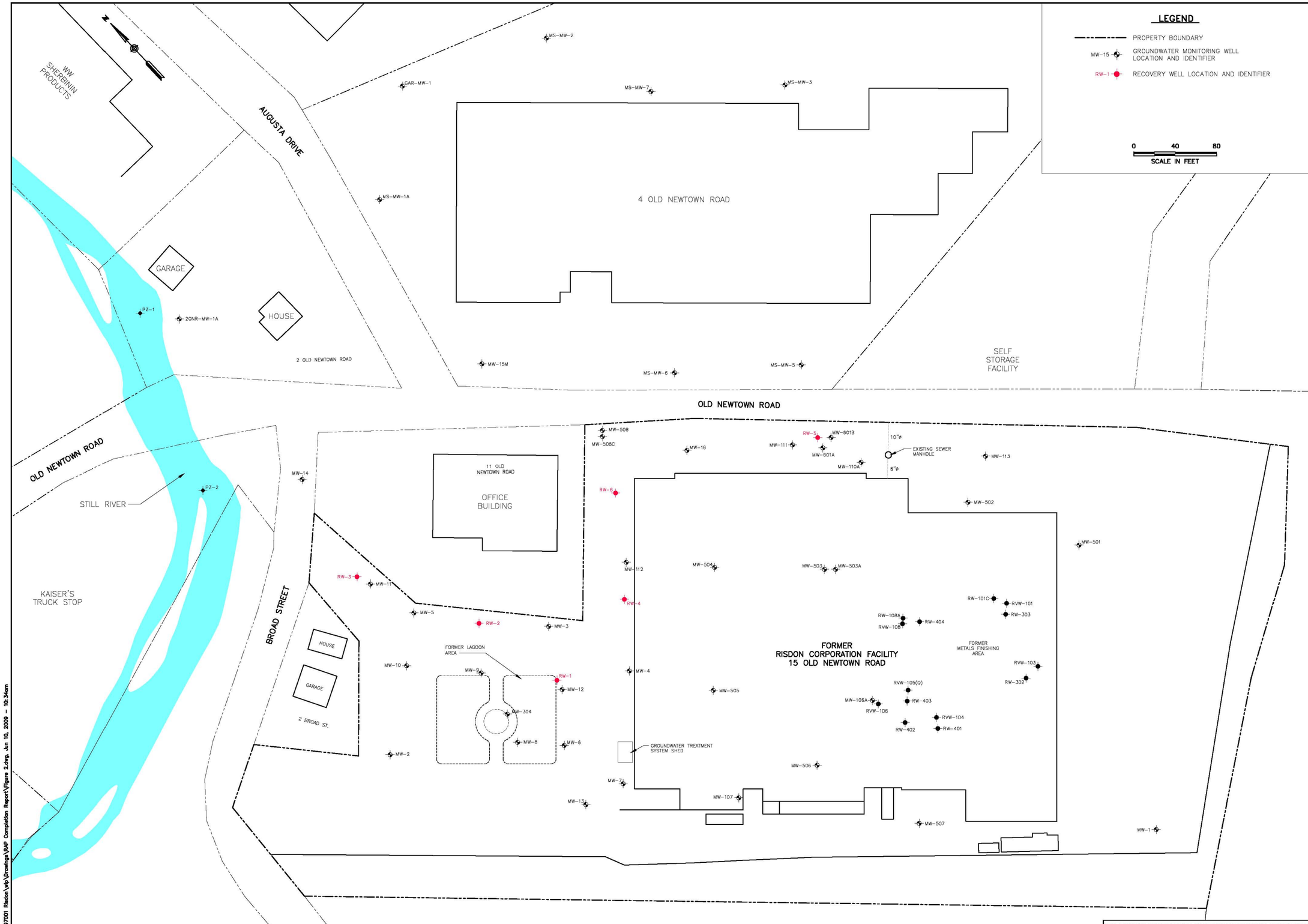
RISDON CORPORATION
DANBURY, CONNECTICUT

SCALE: AS NOTED	JOB NO.: 97001
DATE: MARCH 2009	FILE: Figure 1.cnv

SITE LOCATION

DES.BY: EVR
DR.BY: EVR
CK.BY: CMR

1



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REV	DESCRIPTION	DATE

DESIGNED BY: EVR
DRAWN BY: EVR
CHECKED BY: CMR
Figure 2.dwg

SITE PLAN

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

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JOB NO.: 97001
DATE: MARCH 2009
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SHEET: OF

FIGURE 2

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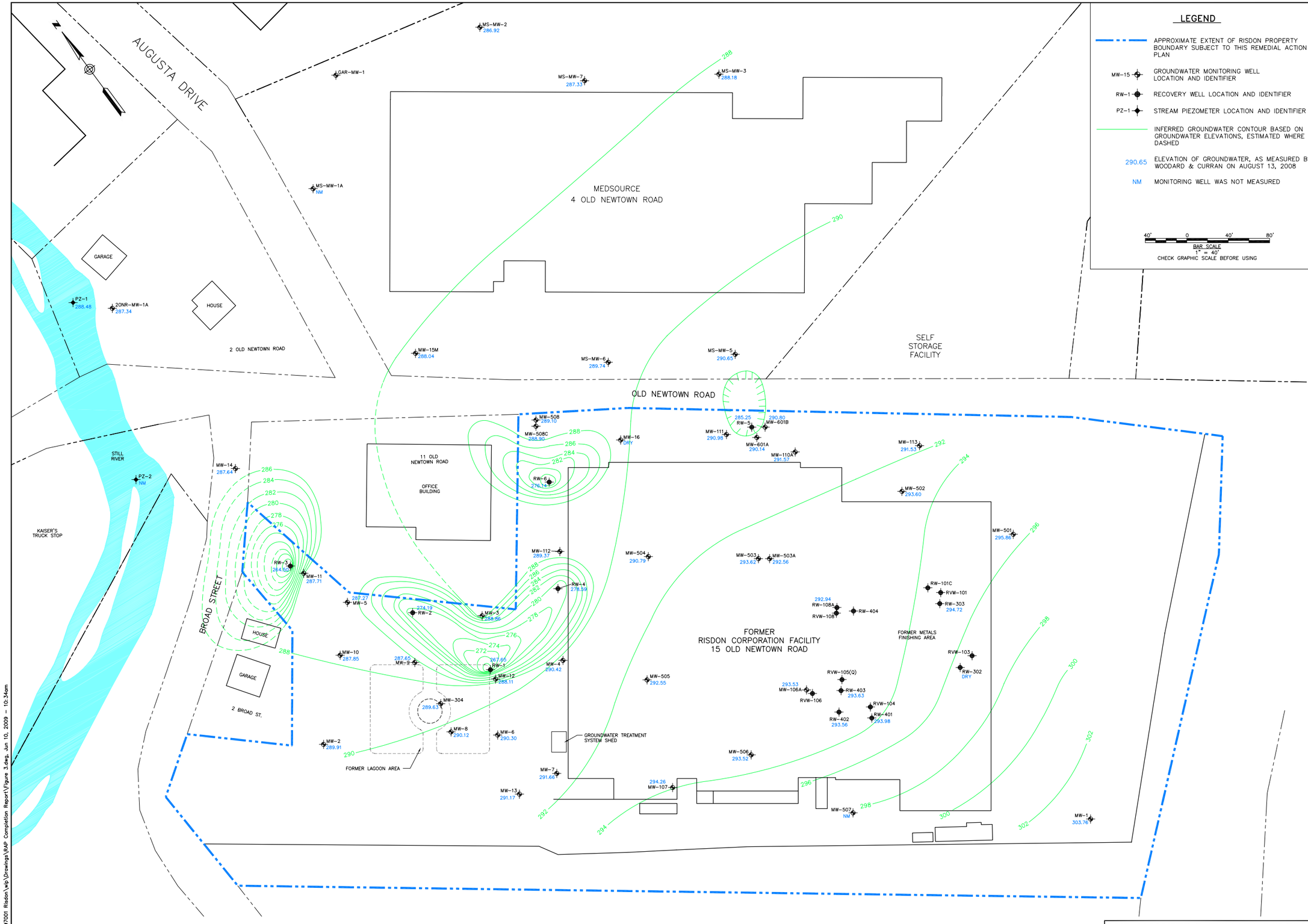

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REV	DESCRIPTION	DATE

DESIGNED BY: CMR
DRAWN BY: EVR
CHECKED BY:
Figure 3.dwg

GROUNDWATER ELEVATIONS AUGUST 2008

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

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FIGURE 3

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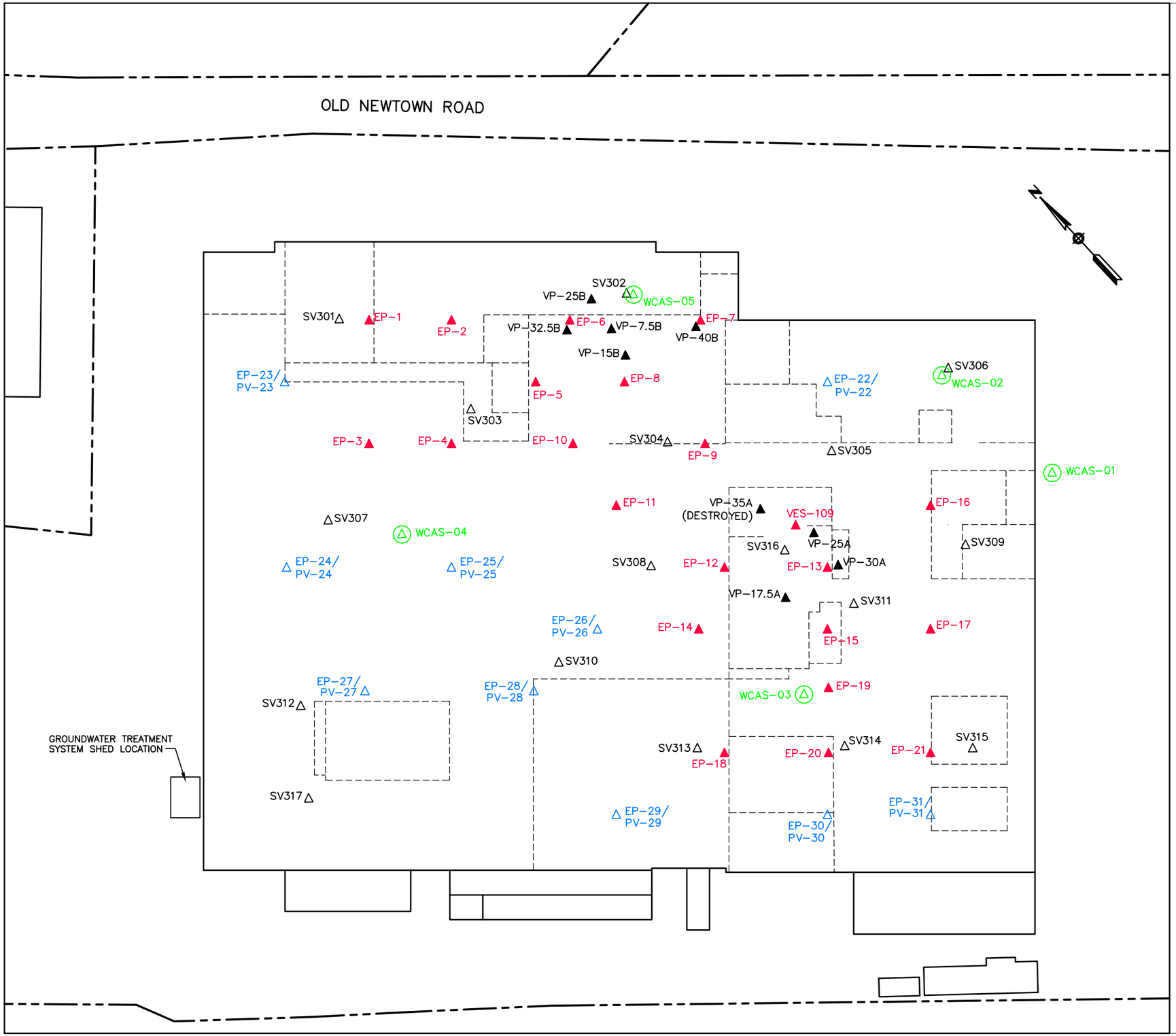
S:\97001 Risdon\wip\Drawings\RAP Completion Report\Figure 3.dwg, Jun 10, 2009 - 10:34am



LEGEND

— — — —	PROPERTY BOUNDARY
- - - - - - - -	PREVIOUS INTERIOR BUILDING WALLS/FEATURES
EP-1 ▲	ZONE 1 EXTRACTION POINT
EP-22/ PV-22 △	ZONE 2 EXTRACTION POINT AND PASSIVE VENT LOCATION
SV301 △	SOIL VAPOR PROBE LOCATION
VP-40B ▲	PERFORMANCE EVALUATION TEST VAPOR MONITORING POINT
WCAS-01 △	INDOOR AIR SAMPLE LOCATION AND IDENTIFIER

NOTES:

1. PROPERTY FEATURES ARE APPROXIMATE AND COMPILED FROM PROPERTY SURVEY LAND OF RISDON CORPORATION, DATED JULY 24, 2002, PREPARED BY CCA, LLC. AND FIELD MEASUREMENTS.

0 50 100

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VAPOR PROBE AND EXTRACTION POINT LOCATIONS

DESIGNED BY: SLD
DRAWN BY: EVR
CHECKED BY: CMR
Figure 4.dwg

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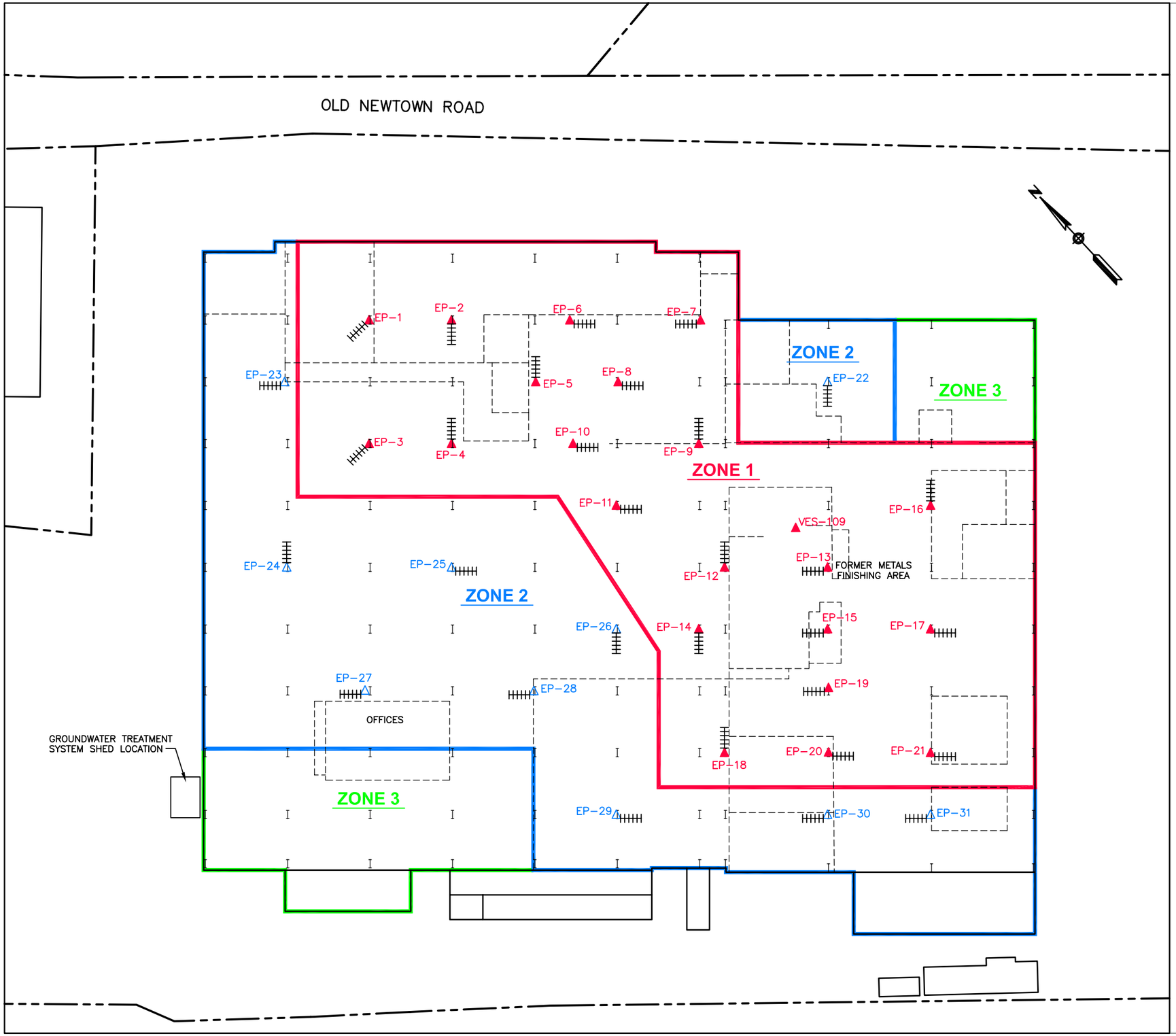
FIGURE 4



LEGEND

- PROPERTY BOUNDARY
- PREVIOUS INTERIOR BUILDING WALLS/FEATURES
- BUILDING COLUMN
- EP-1 ZONE 1 EXTRACTION POINT
- EP-22 ZONE 2 EXTRACTION POINT
- ZONE 1 – AREA OF HIGHEST SUB-SLAB VOC CONCENTRATIONS. APPROXIMATE 57,000 FT². 21 EXTRACTION POINTS (EPs) AT APPROXIMATE 60 FOOT CENTERS
- ZONE 2 – AREA OF MODEST SUB-SLAB VOC CONCENTRATIONS. APPROXIMATE 49,000 FT². 10 EXTRACTION POINTS (EPs) AT APPROXIMATE 100 FOOT CENTERS
- ZONE 3 – AREA OF NON-DETECT TO LOW VOC CONCENTRATIONS. APPROXIMATE 15,000 FT². NO SUB-SLAB EXTRACTION CONDUCTED
- SSDS WELL SCREEN (NOT TO SCALE. ACTUAL LENGTH IS APPROXIMATELY 7.5 FEET).

NOTE:

PROPERTY FEATURES ARE APPROXIMATE AND COMPILED FROM PROPERTY SURVEY LAND OF RISDON CORPORATION, DATED JULY 24, 2002, PREPARED BY CCA, LLC. AND FIELD MEASUREMENTS.

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EXTRACTION POINT WELL SCREEN LAYOUT

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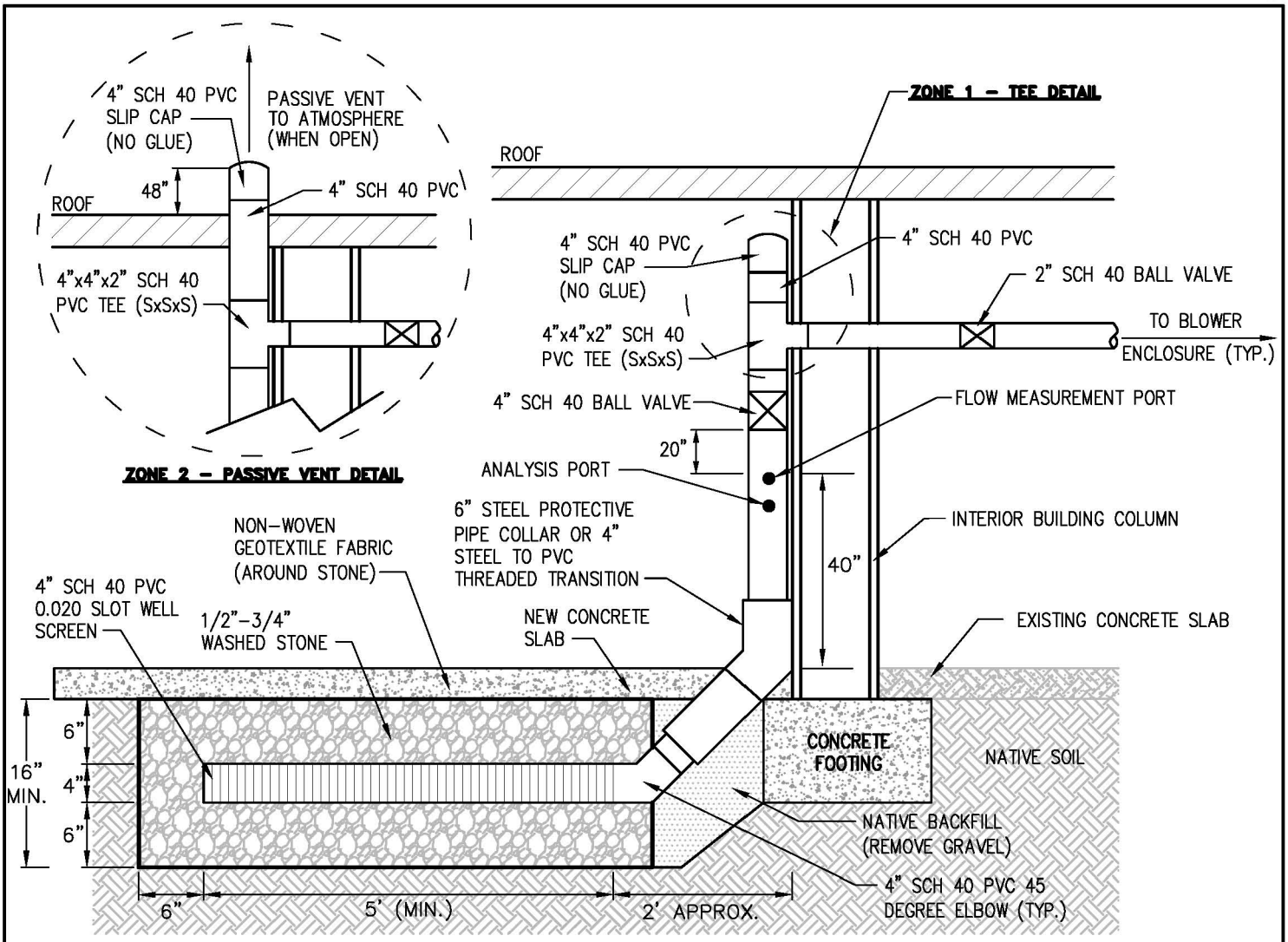
DRAWN BY: EVR
CHECKED BY: CMR
Figure 5.dwg

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

RAP COMPLETION REPORT

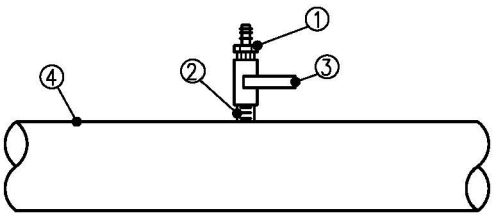
JOB NO: 97001
DATE: MARCH 2009
SCALE: AS NOTED

FIGURE 5



VAPOR EXTRACTION POINT DETAIL

NOT TO SCALE

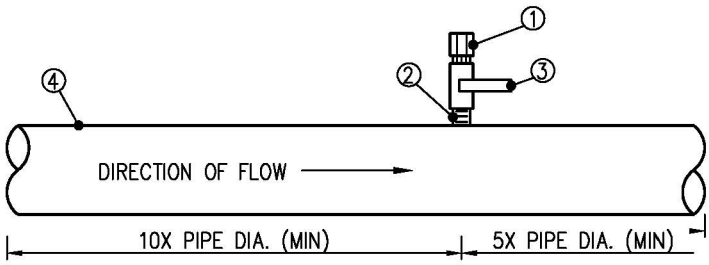


KEY:

① – 1/4" MNPT x3/16" ID TUBING BRASS BARBED FITTING
② – 1/4" GALVANIZED CLOSE NIPPLE
③ – 1/4" BRASS BALL VALVE
④ – PIPING

(PRESSURE, TVOC-PID) ANALYSIS PORT DETAIL (TYP)

NOT TO SCALE



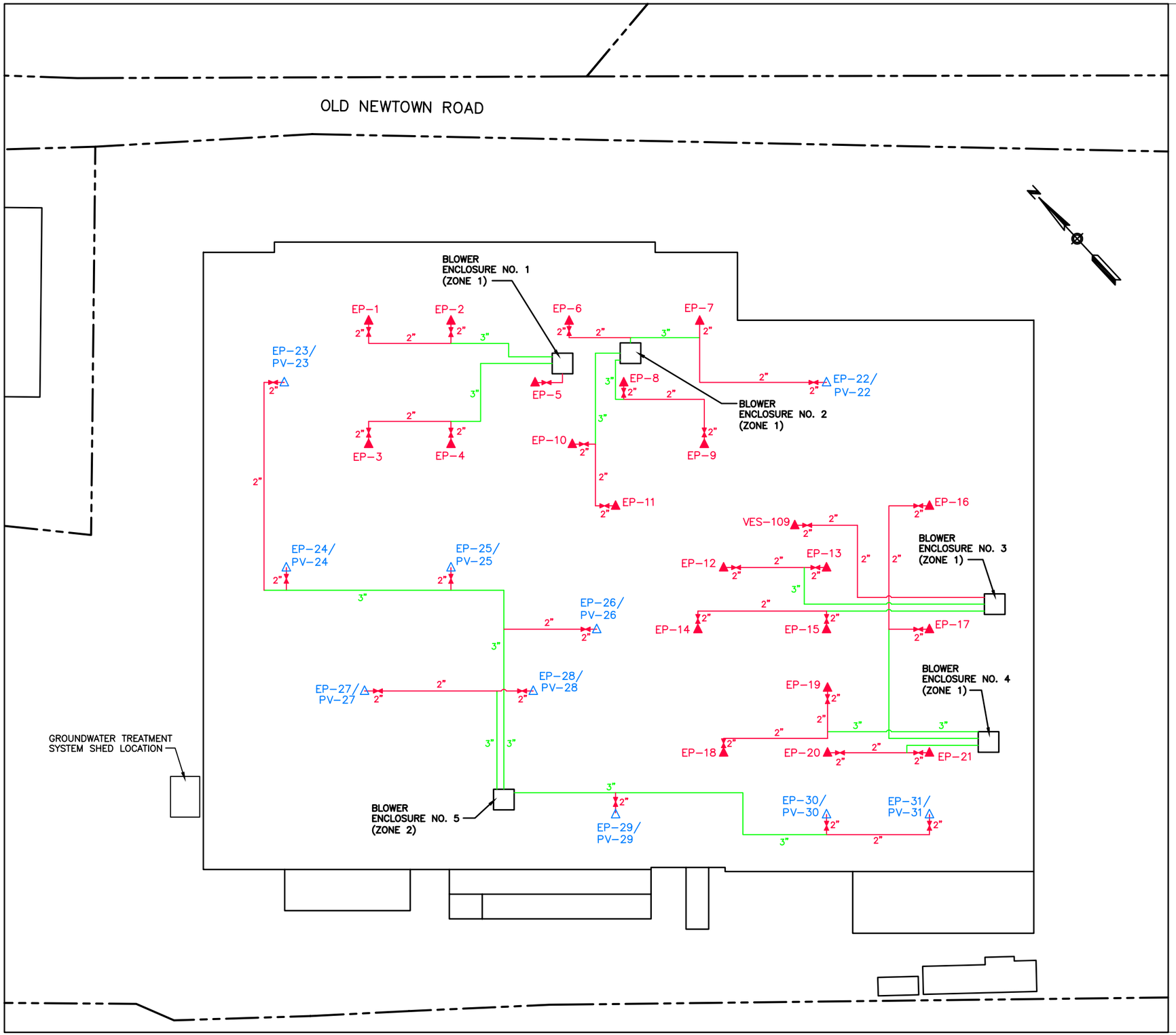
KEY:

① – SWAGE LOCK FITTING (CAMBRIDEG MODEL # B-600-1-(8 BT 3/8" I.D. x 1/2" MNPT)
② – 1/2" GALVANIZED CLOSE NIPPLE
③ – 1/2" BRASS BALL VALVE, BORE THROUGH
④ – PIPING

(PITOT TUBE / ANEMOMETER) FLOW MEASUREMENT PORT DETAIL (TYP)

NOT TO SCALE

WOODARD & CURRAN 35 NEW ENGLAND BUSINESS CENTER ANDOVER, MASSACHUSSETS 01810 866.702.6371 | www.woodardcurran.com COMMITMENT & INTEGRITY DRIVE RESULTS	SUB-SLAB EXTRACTION POINT AND PIPING DETAILS DESIGNED BY: SLD | CHECKED BY: SLD DRAWN BY: EVR | Figure 6.dwg	FORMER RISDON CORPORATION DANBURY, CONNECTICUT RAP COMPLETION REPORT	JOB NO: 97001 DATE: MARCH 2009 SCALE: N.T.S. FIGURE 6



LEGEND

- PROPERTY BOUNDARY
- EP-1 ZONE 1 EXTRACTION POINT
- EP-22/ PV-22 ZONE 2 EXTRACTION POINT AND PASSIVE VENT LOCATION
- 2" BALL VALVE
- 2-INCH SCH 40 PVC
- 3-INCH SCH 40 PVC

NOTES:

1. PROPERTY FEATURES ARE APPROXIMATE AND COMPILED FROM PROPERTY SURVEY LAND OF RISDON CORPORATION, DATED JULY 24, 2002, PREPARED BY CCA, LLC. AND FIELD MEASUREMENTS.
2. ALL BLOWER ENCLOSURES ARE INSTALLED ON THE ROOF.
3. NO HORIZONTAL PIPING IS INSTALLED ON THE ROOFTOP. ALL HORIZONTAL PIPING LATERALS ARE INSTALLED AND SUPPORTED IN THE CEILING AND PENETRATE THE ROOF WITHIN THE LIMITS OF THE BLOWER ENCLOSURES.

0 50 100

SCALE IN FEET

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SUB-SLAB VAPOR CONTROL SYSTEM PIPING LAYOUT - ROOF

DESIGNED BY: SLD
DRAWN BY: EVR
CHECKED BY: SLD
Figure 7.dwg

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JOB NO: 97001
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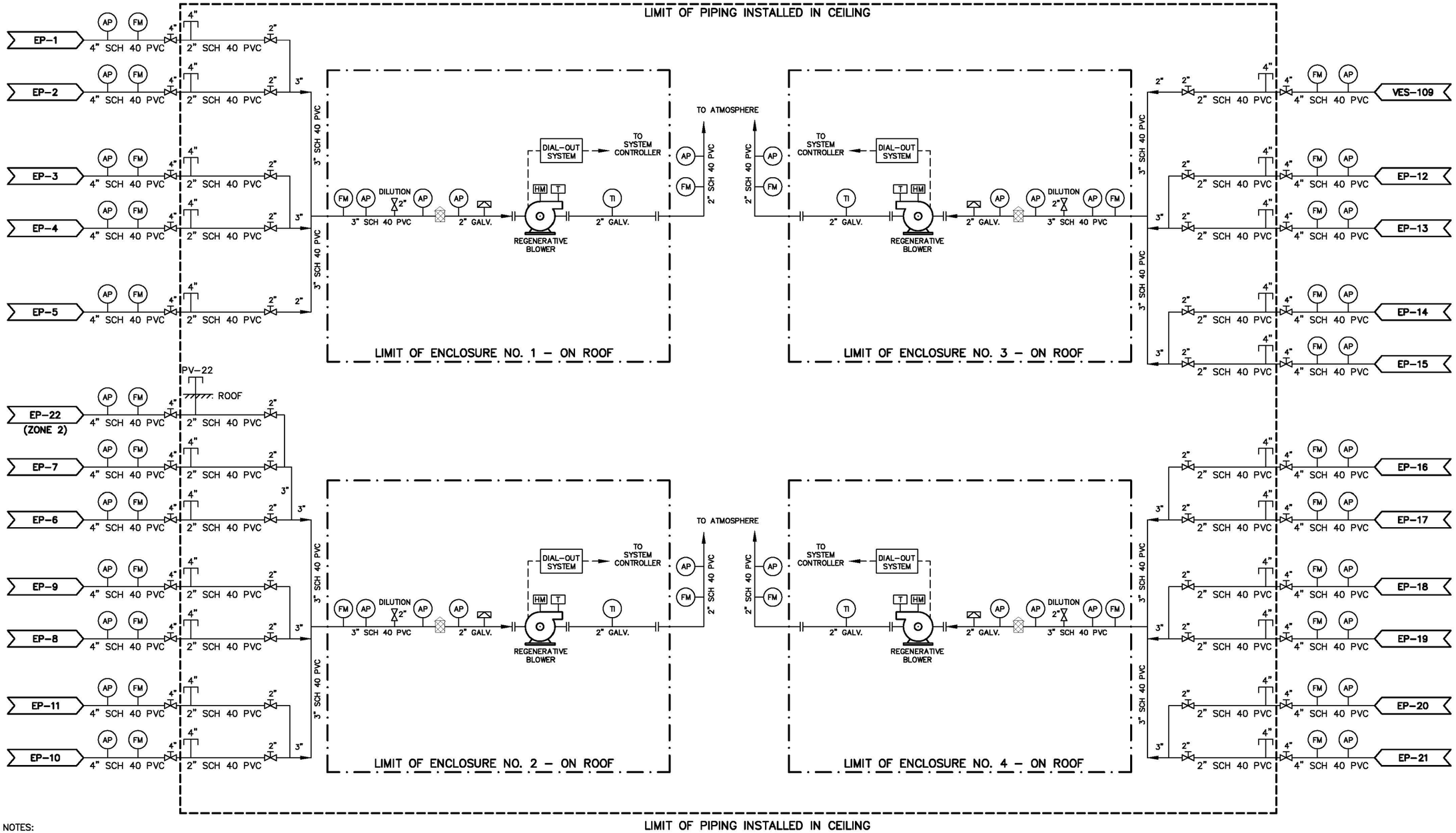
SCALE: AS NOTED

FIGURE 7



NOTES:

1. DUE TO LOCATION, ONE ZONE 2 EXTRACTION POINT (EP–22) IS CONNECTED TO THE ZONE 1 SYSTEM VIA ENCLOSURE NO. 2.
2. ALL ZONE 1 EXTRACTION POINTS HAVE NO PASSIVE ROOF PENETRATIONS INSTALLED AT THIS TIME. HOWEVER, TO ACCOMMODATE A POTENTIAL FUTURE RETROFIT THE 4" TEE CONNECTION WAS INSTALLED AT THE TIME OF CONSTRUCTION. THE 4" TEE WAS FITTED WITH A ONE FOOT LENGTH OF 4" PIPE WITH A SLIP CAP (NO GLUE).
3. CONTRACTOR INSTALLED A PASSIVE VENT ROOF PENETRATION DESIGNATED AS PV–22 AT THE TIME OF CONSTRUCTION FOR EXTRACTION POINT EP–22 LOCATED IN ZONE 2.

LEGEND

	GATE VALVE	AP	ANALYSIS PORT (PRESSURE, TVOC–PID)	PV–22	PASSIVE VENT
	BALL VALVE	FM	FLOW MEASURMENT PORT		4" TEE WITH CAP
	PARTICULATE FILTER	TI	TEMPERATURE INDICATOR	EP–1	EXTRACTION POINT
	VACUUM RELIEF VALVE	T	TIMER		
HM	HOUR METER				

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SUB–SLAB VAPOR CONTROL SYSTEM PIPING & INSTRUMENTATION DIAGRAM – ZONE 1

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Figure 8.dwg

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DANBURY, CONNECTICUT

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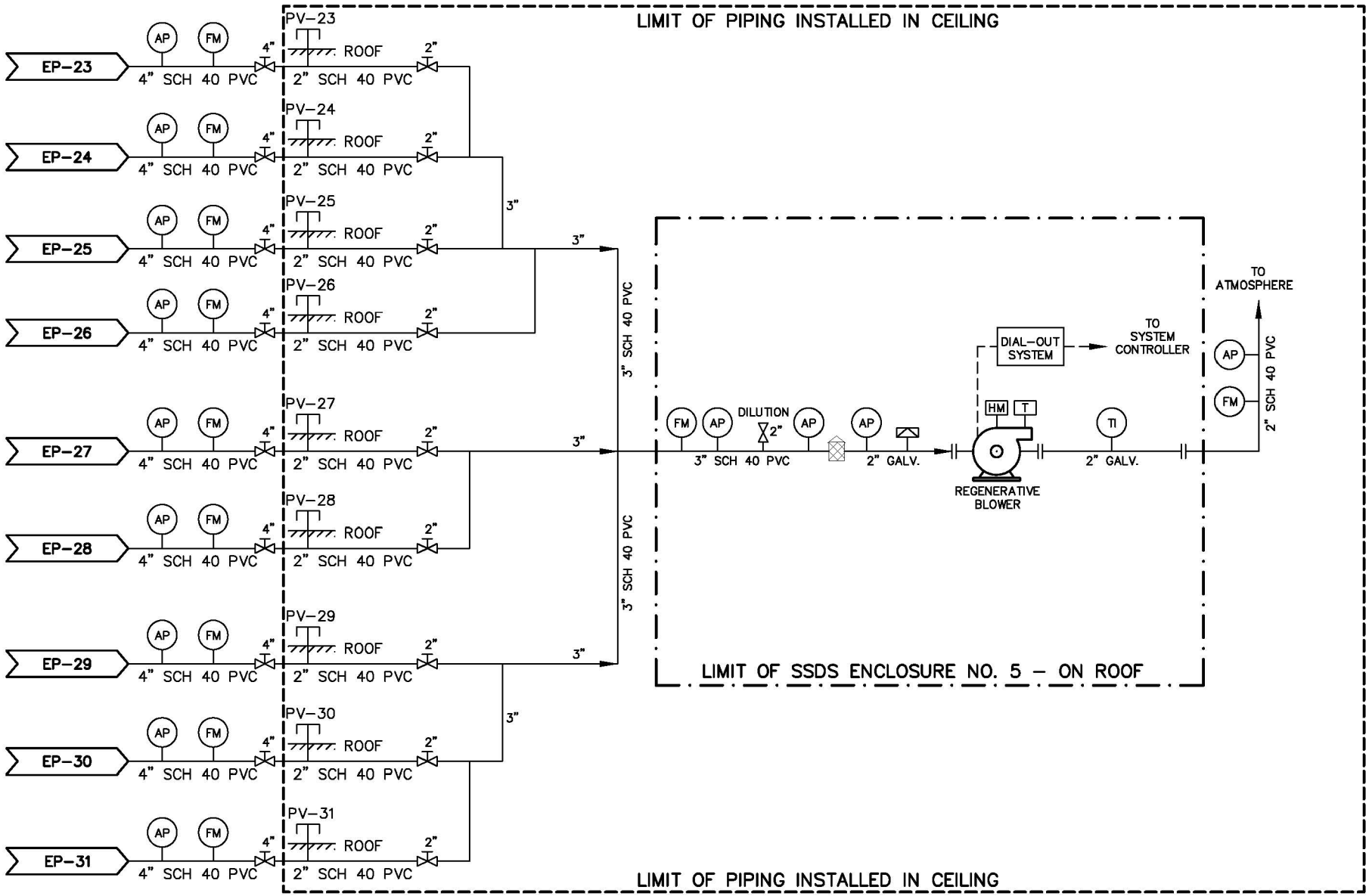
FIGURE 8



LEGEND

- GATE VALVE
- BALL VALVE
- PARTICULATE FILTER
- VACUUM RELIEF VALVE
- AP — ANALYSIS PORT (PRESSURE, TVOC–PID)
- FM — FLOW MEASURMENT PORT
- TI — TEMPERATURE INDICATOR
- PV–23 — PASSIVE VENT
- T — TIMER
- HM — HOUR METER
- EP–23 — EXTRACTION POINT

NOTES:

1. DUE TO LOCATION, ONE ZONE 2 EXTRACTION POINT (EP–22) IS NOT SHOWN ON THIS FIGURE. EP–22 IS CONNECTED TO ENCLOSURE NO. 2. REFER TO FIGURE 8 FOR DETAILS.
2. CONTRACTOR INSTALLED ALL PASSIVE VENT ROOF PENETRATIONS AT THE TIME OF CONSTRUCTION FOR ALL ZONE 2 EXTRACTION POINTS.

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SUB–SLAB VAPOR CONTROL SYSTEM
PIPING & INSTRUMENTATION DIAGRAM – ZONE 2

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DANBURY, CONNECTICUT

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FIGURE 9

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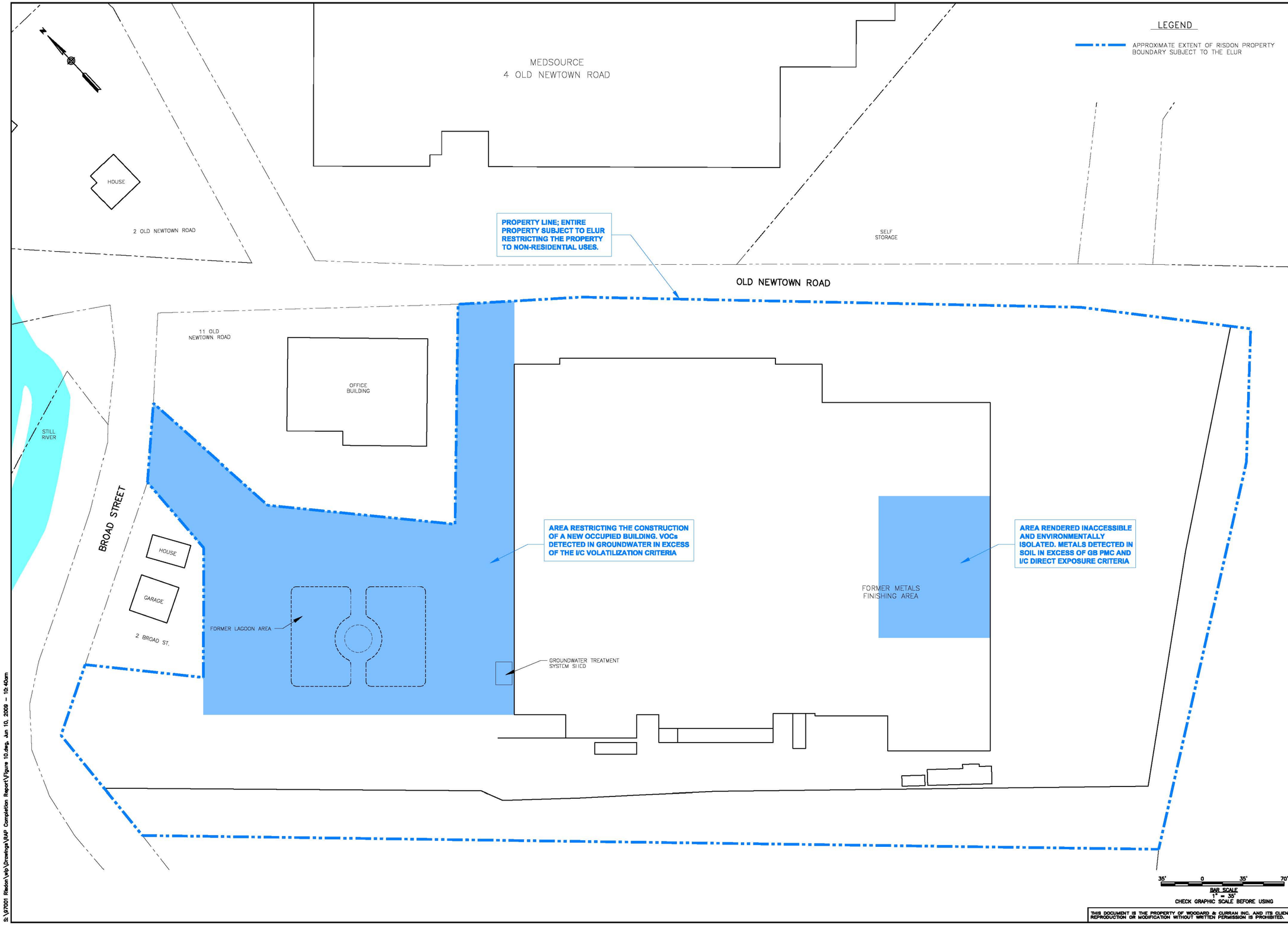

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Figure 10.dwg

LIMITS OF ELUR AREAS

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

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FIGURE 10

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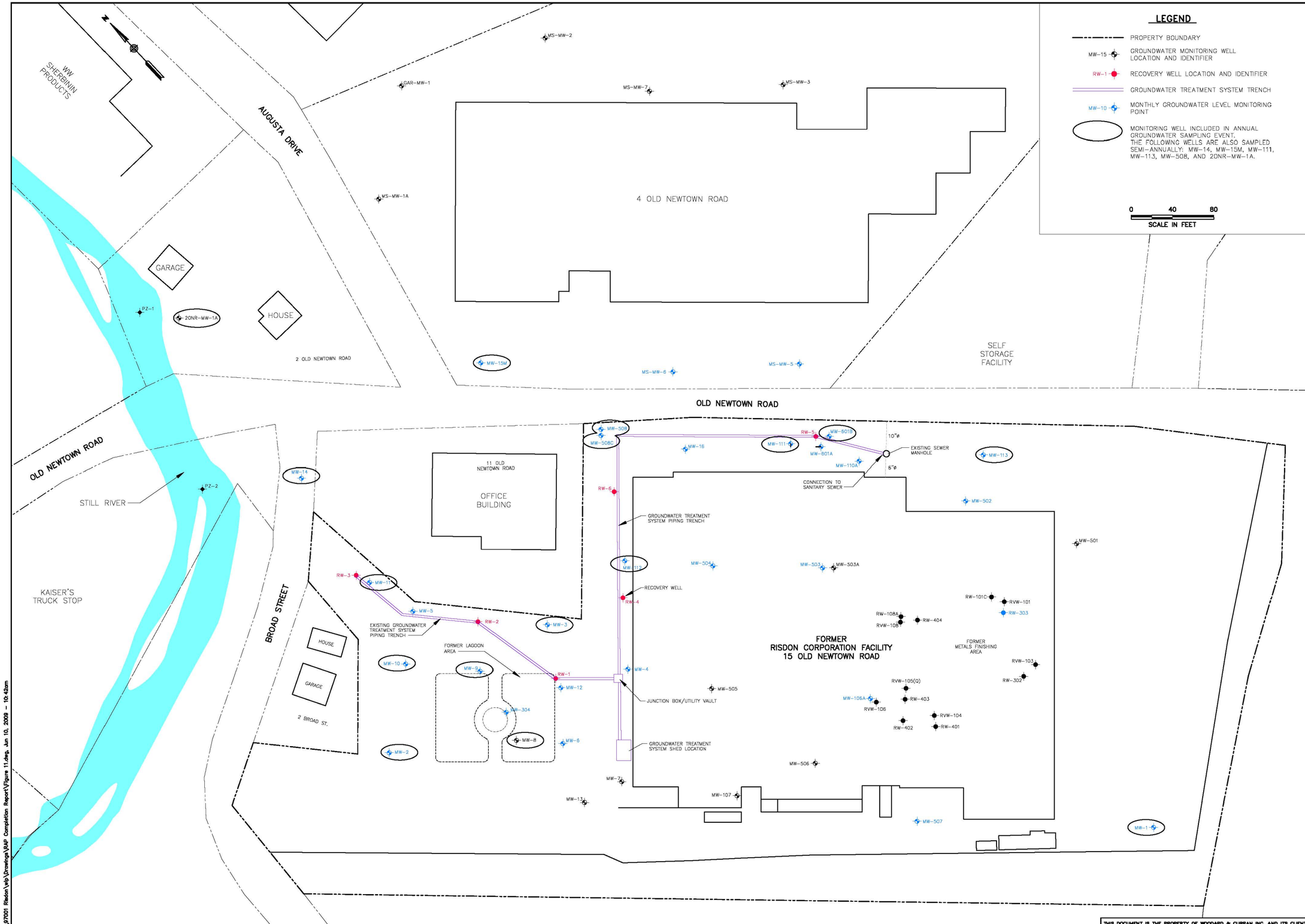

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REV	DESCRIPTION	DATE

DESIGNED BY: EVR
DRAWN BY: EVR
CHECKED BY: CMR
Figure 11.dwg

GROUNDWATER RECOVERY AND MONITORING LOCATIONS

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

RAP COMPLETION REPORT

JOB NO.: 97001
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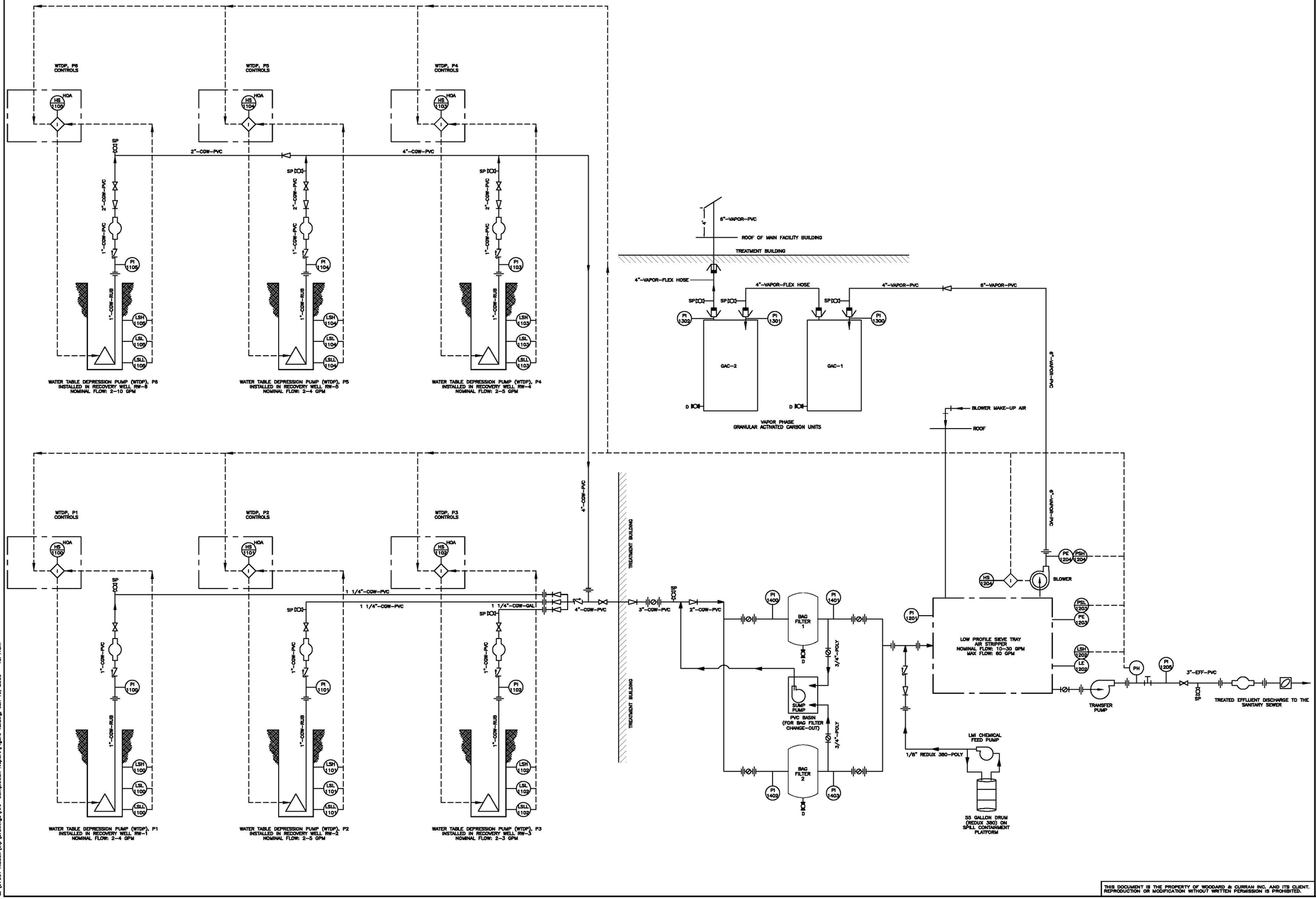
FIGURE 11



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REV	DESCRIPTION	DATE

DESIGNED BY: CMR
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CHECKED BY:
Figure 12.dwg

GROUNDWATER MIGRATION CONTROL TREATMENT SYSTEM PIPING AND INSTRUMENTATION DIAGRAM

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

RAP COMPLETION REPORT

JOB NO.: 97001
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SHEET: OF

FIGURE 12

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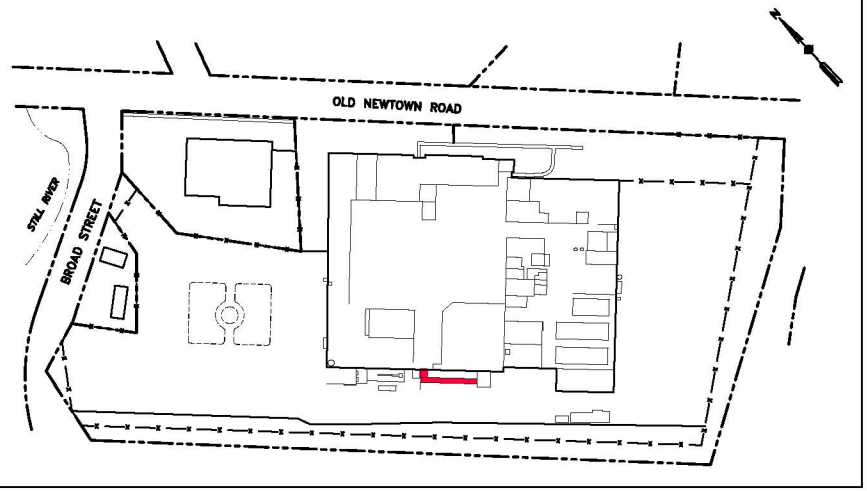
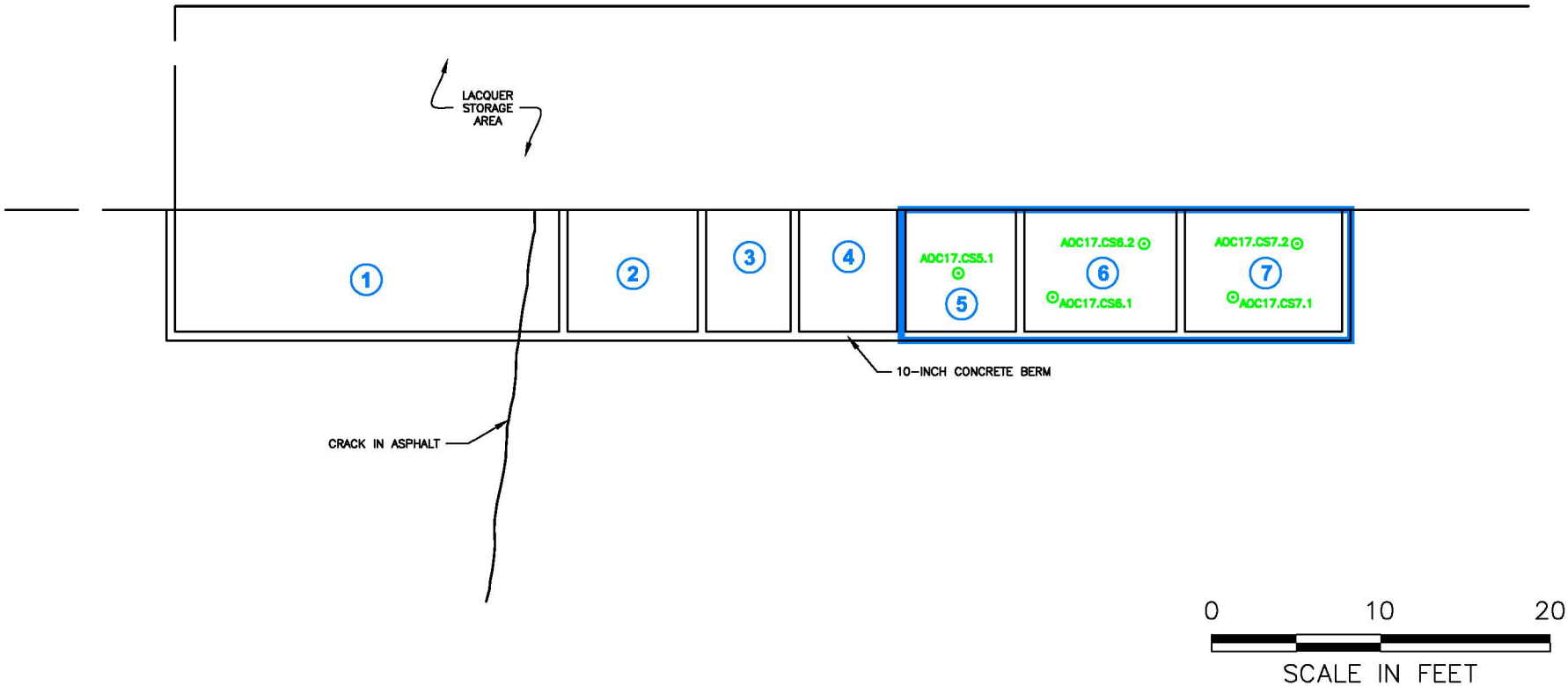


LEGEND

- CONFIRMATORY SOIL SAMPLE LOCATION
- LIMIT OF CONCRETE REMOVAL
- (1) CHAMBER ID, AS DISCUSSED IN THE RAP



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DESIGNED BY: CMR
DRAWN BY: EVR
CHECKED BY: GJF
Figure 13.dwg

AOC-17 – CONCRETE REMOVAL AND CONFIRMATORY SOIL SAMPLE LOCATIONS

FORMER RISDON CORPORATION
DANBURY, CONNECTICUT

RAP COMPLETION REPORT

JOB NO: 97001
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FIGURE 13

APPENDIX A: PUBLIC NOTIFICATION DOCUMENTATION

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A DIVISION OF CONNECTICUT NEWSPAPERS PUBLISHING COMPANY

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THE NEWS-TIMES
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STATE OF CONNECTICUT
COUNTY OF FAIRFIELD SS. DANBURY

LEGAL NOTICE
NOTICE OF
PROPOSED REMEDIATION ACTIVITIES

Pursuant to RCSA Section 22a-449 (c)..105(h), CR USA, Inc. located at One Crown Way in Philadelphia, PA, as the owner of the former Risdon facility located at 15 Old Newtown Road in Danbury, Connecticut is proposing to conduct remediation activities at the property. Investigation activities conducted at the facility have indicated that soil and groundwater have been impacted by past releases of chlorinated volatile organic compounds (VOCs) and metals at two separate areas on the property.

To address impacts to soil and groundwater at the facility, a Remedial Action Plan (RAP) for on-property conditions was prepared, summarizing the proposed remediation activities and submitted to the USEPA and CTDEP. The proposed remediation activities for the facility include installation and operation of a sub-slab vapor control system beneath the existing building, continued operation of a groundwater extraction and treatment system, and placement of an environmental land use restriction on the property restricting the parcel to non-residential use and restricting soil excavation and building construction in certain areas of the property. Additional information requests and any comments on the proposed remediation should be directed in writing within 45 days of this notice to Ms. Carolyn Casey at USEPA Region 1, phone (617-918-1368), 1 Congress Street, Suite 1100-HBT, Boston, MA 02114-2023. To be put on a mailing list for periodic updates of site remediation activities, contact Mr. Jeffrey Hamel, LSP, LEP at Woodard & Curran, 978-557-8150.

Implementation of the remediation activities proposed in the RAP is anticipated to commence immediately following the submittal of written responses to any of the comments received. If it is determined that there is substantial public interest in the proposed remediation, then a public meeting may be held with notice provided prior to the meeting.

ON THIS 20th OF March, 2008 PERSONALLY APPEARED BEFORE THE UNDERSIGNED, A NOTARY PUBLIC, WITHIN AND FOR SAID COUNTY AND STATE JACQUELINE PEREIRA OF THE NEWS-TIMES A DAILY NEWSPAPER PUBLISHED AT DANBURY IN SAID COUNTY OF FAIRFIELD AND STATE OF CT, WHO, BEING DULY SWORN, STATES ON OATH THAT THE FOLLOWING ADVERTISEMENT(S) APPEARED IN THE NEWS-TIMES ON THE BELOW LISTED DATES.

JACQUELINE PEREIRA

SUBSCRIBED AND SWORN TO BEFORE ME, ON THIS 20 DAY OF Mar A.D. 2008

Virginia Olsen

NOTARY PUBLIC 10/31/09

RE DATE	AD CAPTION	# TIMES	AMOUNT
)/2008	REMED. ACTIVITIES	1	$ 328.34

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Danbury, CT 06810

Phone hours
Monday-Friday
8 a.m. to 5 p.m.

New Milford office
458 Main Street
New Milford, CT 06776

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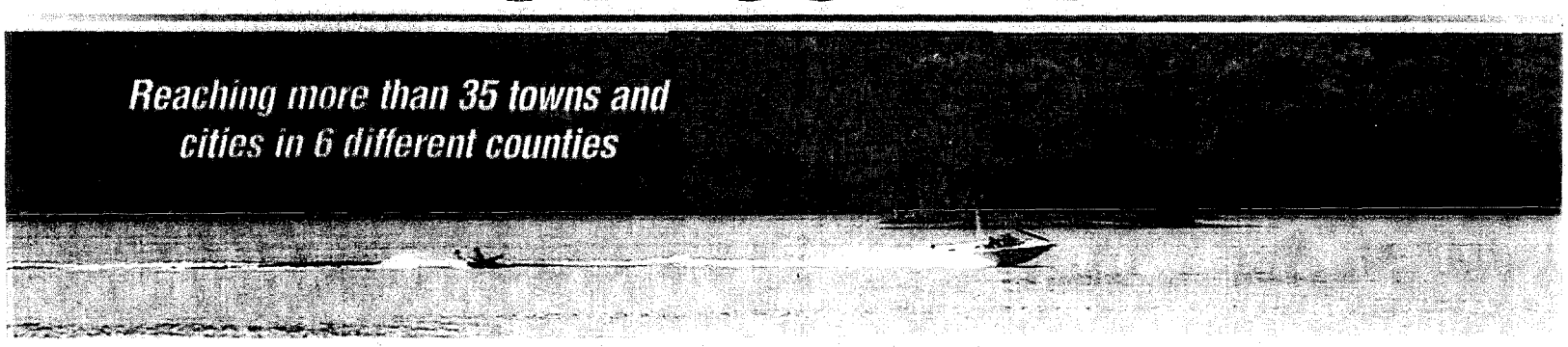


PUBLIC NOTICES

LEGAL DEADLINE
ALL LEGALS MUST BE RECEIVED BY NOON
3 DAYS PRIOR TO ITS RUN DATE.
(This does not count Sunday)
Some legals may require pre-payment,
please call for more info. 203-731-3418

LEGAL NOTICE
NOTICE OF
PROPOSED REMEDIATION ACTIVITIES

Pursuant to RCSA Section 22a-449 (c)..105(h), CR USA, Inc. located at One Crown Way in Philadelphia, PA, as the owner of the former Risdon facility located at 15 Old Newtown Road in Danbury, Connecticut is proposing to conduct remediation activities at the property. Investigation activities conducted at the facility have indicated that soil and groundwater have been impacted by past releases of chlorinated volatile organic compounds (VOCs) and metals at two separate areas on the property.

To address impacts to soil and groundwater at the facility, a Remedial Action Plan (RAP) for on-property conditions was prepared, summarizing the proposed remediation activities and submitted to the USEPA and CTDEP. The proposed remediation activities for the facility include installation and operation of a sub-slab vapor control system beneath the existing building, continued operation of a groundwater extraction and treatment system, and placement of an environmental land use restriction on the property restricting the parcel to non-residential use and restricting soil excavation and building construction in certain areas of the property. Additional information requests and any comments on the proposed remediation should be directed in writing within 45 days of this notice to Ms. Carolyn Casey at USEPA Region 1, phone (617-918-1368), 1 Congress Street, Suite 1100-HBT, Boston, MA 02114-2023. To be put on a mailing list for periodic updates of site remediation activities, contact Mr. Jeffrey Hamel, LSP, LEP at Woodard & Curran, 978-557-8150.

Implementation of the remediation activities proposed in the RAP is anticipated to commence immediately following the submittal of written responses to any of the comments received. If it is determined that there is substantial public interest in the proposed remediation, then a public meeting may be held with notice provided prior to the meeting.

LEGAL NOTICE
INVITATION TO BID

Sealed bids will be received at the Danbury Board of Education, Attention: Mr. Elio Longo, Jr., Director of Finance and Support Services, 63 Beaver Brook Road, Danbury, Connecticut, 06810, for "Food Service Management Company" for the Danbury Public Schools no later than Monday, April 21st, 2008 at 2:00 P.M. Formal bid packets are available by contacting Pat Zeiss at (203) 797-4719. A pre-bid meeting will be held at the Danbury Board of Education, 63 Beaver Brook Road, Danbury, Connecticut on Friday, March 28th, 2008 at 2:00 P.M. This meeting is mandatory.

All bids will be submitted in sealed enve-

PROBATE NOTICES

LEGAL NOTICE
NOTICE TO CREDITORS
ESTATE OF: Ethel M. Sheehan,
AKA Ethel Marie Anton Sheehan (08-0020)

The Hon. Daniel W. O'Grady, Judge of the Court of Probate, District of Bethel, by decree dated March 13, 2008, ordered that all claims must be presented to the fiduciary at the address below. Failure to promptly present any such claim may result in the loss of rights to recover on such claim.

Brenda M. Craig, Clerk

The fiduciary is:
James J. Sheehan, Executor
P. O. Box 546
Woodbury, CT 06798

LIQUOR PERMITS

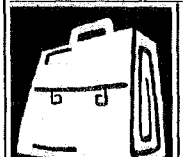
LEGAL NOTICE
LIQUOR PERMIT
Notice of Application
This is to give notice that I,
BENEDITO A PEREZ
31 LINRON DR
DANBURY, CT 06810-6473

Have filed an application placarded 03/19/2008 with the Department of Consumer Protection for a PACKAGE STORE LIQUOR PERMIT for the sale of alcoholic liquor on the premises at:

2 1/2 DIVISION ST
DANBURY, CT

The business will be owned by: DIVISION STREET WINE & LIQUOR LLC. Entertainment will consist of: None. Objections must be filed by: 04/29/2008.

BENEDITO A PEREZ



EMPLOYMENT

GENERAL HELP WANTED

★★★
-Allergy LPN / RN
-Medical Assistant

Premier multispecialty practice seeks multiple positions for a fast placed medical office. Must be computer literate, flexible & willing to travel to satellite offices. Send resumes to

civan@
ascdocs.com

GENERAL HELP WANTED

The News-Times
CARRIERS
WE HAVE
OPENINGS

For early morning 7-day delivery. If you are an early riser, have reliable own transportation & want to make some extra $$$, we have routes avail. in the following areas.

BROOKFIELD
DANBURY
NEW FAIRFIELD
REDDING
RIDGEFIELD
SOUTHBURY

GENERAL HELP WANTED

EXECUTIVE ASSISTANT
Busy CEO needs top level Executive Assistant Expert in MS Office a must, excellent spelling and grammar skills Type 70+ WPM, Fast paced environment, Multi-tasking, product research, etc. Must be a real detail oriented person to succeed. Email Resumes to jobs@wyndhamhomes.com

FACTORY WORKER
Assembly and packing in Danbury, $9-11/hr. Sheet metal exp. preferred. Fax resume to 203-796-7910

ON TRACK staffing
make the connection
26 Mill Plain Rd
Danbury, CT
06811
www.ontrackstaffing.com

F/T PATIENT CARE advocate. Organized, energetic team player w/caring touch needed to help Chiropractor treat our patients like royalty in Bethel. Call 203-512-4285 lv msg why to hire you.

HAIRSTLYIST wanted Great location. Flex. schedule. Great pay FT/PT 203-739-0696

HELPER for Wood Rail Installers. Will train right person, drivers license req'd, benefits available. 203-743-4855

HOST/ HOSTES and waitstaff 860-350-5995 203-438-4422 Busy Rests

HVAC Service Technician licensed with S or D license will be considered.Min. 5yrs. residential exp. Benefits. Call 203-312-0003

INSPECTION
Temp-to-hire,

GENERAL HELP WANTED

PARKING ATTENDANT - F/T
Apply: 301 Main St., Wooster Square Shopping Ctr, Danbury, M-F, 8-3pm; 1162386postrms.com

PART TIME WORK
•Good pay
•Flexible Schedules
•All ages 17+
•Sales/Svc No exp nec. Cond. apply, Scholarships avail. 203.762.9992

PART-TIME OPENING in busy optometric office, duties inc front desk work, must have good communication skills, hrs Mon & Tues 9-5; every other Sat 9-12; fax 203-740-8151 or call 203-775-1209

PART-TIME TUTORS/TEACHERS
Bethel Learning Center
Math/English K to 12
whizardresumesbethel@yahoo.com
203-790-WHIZ

PIZZA PERSON Full time. Experienced only. Call 203-748-9083.

GENERAL HELP WANTED

POST OFFICE Now Hiring! Average Pay $20/hr, $57K yr, includes. Fed ben, OT. Offered by Exam Services, Not aff. W/USPS who hires. 1-866-533-4780

PRODUCT SALES & Management. Begin a career with an 85+ yr. firm selling leisure products in a modern facility. Salary is hourly + commission with earning potential of $50K+ in 12 months. Benefit pkg includes vacation, sick days, holidays, retirement & health insurance. Email resume gatorne@aol.com or fax: 203-794-0638.

RESTAURANT BAGEL BAKING and Delivery job available. P.T. or F.T. Evening hours only. Call Marc at 203-775-4005.

RESTAURANT exp
Asian Style Chef
Sushi Chef and
Rest Managers
203-739-0068

RESTAURANT
P/T bartender/waiter. Apply in person. Marble Dale Pub, Rt. 202, Washington, CT 860-868-1496

GENERAL HELP WANTED

RESTURAUNT HELP
Dishwasher, F/T
Please call Saverio
@203-240-5345.

RETAIL SALES
Beauty Supply Store. Must be personable, friendly, reliable, FT/PT, weekends a must. Danbury Fair Mall. 732-761-1131

Looking for
The Best Deals?
Find them in the
Connecticut Post
Merchandise for Sale
listings in the
Classified Section
or online at
connpost.com

GENERAL HELP WANTED

RETAIL HOME STOP is coming to Ridgefield. If you are upbeat, friendly and dependable with great customer service skills, attention to detail and a can do attitude, we'd like to hear from you! PT&FT available Call 203-244-5694

Ask About
Our Specials
Call Classified
797-1414

GENERAL HELP

SOUS
Cooks,
French
looking
en staf
Ridgefie
Norwalk
Mario
7660; 20

INSTR
Certi
Dive S
Center
203

TRAIN
for Sw
Service
Drivers
quired.
6876

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meet, a delivery route i
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call today.

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For more information

APPENDIX A
PUBLIC NOTIFICATION DOCUMENTATION

PUBLIC NOTICE SIGNAGE
May 2008

APPENDIX B: SUB-SLAB VAPOR CONTROL SYSTEM INSTALLATION PHOTOGRAPHS

Photograph No. 1:
Zone 1 and Zone 2 General Area

Photograph No. 2:
Saw cutting concrete at EP-15

Photograph No. 3:
Concrete removal at EP-12

Photograph No. 4:
Sub slab soil excavation at EP-15

Photograph No. 5:
Installation of SSDS extraction point EP-8

Photograph No. 6:
Concrete replacement at EP-19

Photograph No. 7:
Stockpiles of concrete and sub-slab soil

Photograph No. 8:
Installation of overhead piping at EP-16
and EP-17

Photograph No. 9:
Typical Zone 1 passive vent piping at EP-21
(under roof)

Photograph No. 10:
Typical Zone 2 passive vent piping at
EP-30 (roof penetration)

Photograph No. 11:
Rooftop SSDS blower enclosures and electrical conduit

Photograph No. 12:
Typical SSDS enclosure and portable monitoring equipment at SSDS-4

APPENDIX C: SOIL AND NON-HAZARDOUS CONCRETE DISPOSAL DOCUMENTATION

KAY 5 - 7C200

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

101156MA
Tracking Number

J. Load Information

Note:
Make additional copies of this page as necessary.

Load#: 1

Signature of transporter: [signature]
Receiving facility: CVSWD
Date received: 10/14/08
Time received: 1100 AM
Date of shipment: 10/14/08
Time of shipment: 930AM
Truck/Tractor registration: 43903A
Trailer registration: N/A
Load size (cubic yards/tons): 23,80 Tons

Load#: 2

Signature of transporter: [signature]
Receiving facility: CVSWD
Date received: 10/14/08
Time received:
Date of shipment: 10/14/08
Time of shipment:
Truck/Tractor registration: 43903A
Trailer registration: N/A
Load size (cubic yards/tons): Tons

Load#:

Signature of transporter:
Receiving facility:
Date received:
Time received:
Date of shipment:
Time of shipment:
Truck/Tractor registration:
Trailer registration:
Load size (cubic yards/tons):

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons):

Total carried forward (cubic yards/tons):

Total carried forward and this page (cubic yards/tons):

Page ____ of ____

1ST

WASTE MANAGEMENT

Total Fees
Total Ticket 58911

Driver's Signature

Chicopee LF
161 New Lombard Rd
Chicopee, MA, 01020
Ph: (413) 594-4172

Original
Ticket# 316969

Customer Name CLEANHARBORS101156MA CLEAN HA
Ticket Date 10/14/2008
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code NONE
Manifest 1
Destination
PO w080071394
Profile 101156MA (CONT SOIL RGC (EXCLUDED FROM DAILY TONNAGE))
Generator NE-CRUSADANBURY CR USA, INC

Carrier CH CLEAN HARBORS
Vehicle# K9
Container
Driver
Check#
Billing # 0000579
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	10/14/2008 14:11:23	Inbound	JIM		Gross	76200 lb*
Out	10/14/2008 14:11:23		JIM		Tare	28600 lb*
					Net	47600 lb
			* Manual Weight		Tons	23.80

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	23.80	Tons				CT
2	Pcenv-Env Fee - Cu	100		%				CT
3	FUEL-Fuel Surcharg	100		%				CT

404WM-N

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

101156 MA
Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J. Load Information

Note:
Make additional copies of this page as necessary

Load#: 1

Signature of transporter: Georgie Ky
Receiving facility: CTV
Date received: 10-14-08
Time received:
Date of shipment: 10-14-08
Time of shipment: 9:30 AM
Truck/Tractor registration: 396354 CT
Trailer registration:
Load size (cubic yards/tons): 26:26

Load#:

Signature of transporter:
Receiving facility:
Date received:
Time received:
Date of shipment:
Time of shipment:
Truck/Tractor registration:
Trailer registration:
Load size (cubic yards/tons):

Load#:

Signature of transporter:
Receiving facility:
Date received:
Time received:
Date of shipment:
Time of shipment:
Truck/Tractor registration:
Trailer registration:
Load size (cubic yards/tons):

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

Page ____ of ____

2ND

WASTE MANAGEMENT

Total Fees
Total Ticket 58918

Driver's Signature

Chicopee LF
161 New Lombard Rd
Chicopee, MA, 01020
Ph: (413) 594-4172

Original
Ticket# 316968

Customer Name CLEANHARBORS101156MA CLEAN HA
Ticket Date 10/14/2008
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code NONE
Manifest 1
Destination
PO w080071394
Profile 101156MA (CONT SOIL RGC (EXCLUDED FROM DAILY TONNAGE))
Generator NE-CRUSADANBURY CR USA, INC

Carrier CH CLEAN HARBORS
Vehicle# K3
Volume
Container
Driver
Check#
Billing # 0000579
Gen EPA ID NOT REQUIRED

	Time	Scale	Operator	Inbound		
In	10/14/2008 14:06:16	Inbound	JIM		Gross	80020 lb*
Out	10/14/2008 14:06:16		JIM		Tare	27500 lb*
					Net	52520 lb
			* Manual Weight		Tons	26.26

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	26.26	Tons				CT
2	Pcenv-Env Fee - Cu	100		%				CT
3	FUEL-Fuel Surcharg	100		%				CT

404WM-N

70 800

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

101156 MA
Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Concord # 39

J. Load Information

Note:
Make additional copies of this page as necessary.

Load#: 1

David Kunst
Signature of transporter

Chicopee
WM [redacted] MA
Receiving facility

10-14-08 — Date received
12:00 — Time received
10-14-08 — Date of shipment
9:48 AM — Time of shipment

43250.A
Truck/Tractor registration

N/A
Trailer registration

21.60
Load size (cubic yards/tons)

Load#:

Signature of transporter
Receiving facility
Date received
Time received
Date of shipment
Time of shipment
Truck/Tractor registration
Trailer registration
Load size (cubic yards/tons)

Load#:

Signature of transporter
Receiving facility
Date received
Time received
Date of shipment
Time of shipment
Truck/Tractor registration
Trailer registration
Load size (cubic yards/tons)

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Page ____ of ____

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

WASTE MANAGEMENT

3RD

Total Fees
Total Ticket 589137

Driver's Signature

Chicopee LF
161 New Lombard Rd
Chicopee, MA, 01020
Ph: (413) 594-4172

Original
Ticket# 316971

Customer Name CLEANHARBORS101156MA CLEAN HA
Ticket Date 10/14/2008
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code NONE
Manifest 1
Destination
PO W080071394
Profile 101156MA (CONT SOIL RGC (EXCLUDED FROM DAILY TONNAGE))
Generator NE-CRUSADANBURY CR USA, INC

Carrier CH CLEAN HARBORS
Vehicle# CON39
Container
Driver
Check#
Billing # 0000579
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	10/14/2008 14:13:58	Inbound	JIM		Gross	70800 lb*
Out	10/14/2008 14:13:58		JIM		Tare	27600 lb*
					Net	43200 lb
Comments			* Manual Weight		Tons	21.60

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.60	Tons				
2	Pcenv-Env Fee - Cu	100		%				CT
3	FUEL-Fuel Surcharg	100		%				CT
								CT

404WM-N

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Tracking Number

A. Location Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

1. Provide the following information on the location where the waste was generated:

CR USA, Inc
Release name (optional)

15 Old Newtown Road — Street
off Route 6 — Location aid
Danbury — City/Town
CT — State
06810 — Zip code

2. Date/Period of generation: 7/08 (From) 9/08 (To)

3. U.S. EPA ID number: N/A

4. 21E release: ☐ Yes ☒ No

5. List additional tracking documents associated with this document:

B. Generator Information

Important: This form is not to be used for the shipment of remediation wastes subject to management under section 310 CMR 40.0035 of the Massachusetts Contingency Plan nor is it to be used in lieu of a hazardous waste manifest for hazardous waste or recyclable materials subject to the Massachusetts Hazardous Waste Regulations 310 CMR 30.000.

1. Provide the following generator information:

CR USA, Inc.
Name of organization

Kenneth Gulledge — Contact name
Remediation Manager — Title
PO Box 759 — Street address
Cheraw — City/Town
SC — State
29520 — Zip code
843-537-9794 — Telephone number(including extension)

C. Owner and/or Operator Information

1. If the owner and/or operator is different from the generator as indicated in Section B, provide the following information:

Check applicable: ☒ owner ☐ operator

Name of organization

Contact name

Title

Street address

City/Town

State

Zip code

Telephone number

Ext.

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Tracking Number

D. Transporter/Common Carrier Information

1. Provide the following information:

Clean Harbors Environmental Services, Inc.
Transporter/Common carrier name

N/A
Hazardous waste license number (if applicable)

N/A
Licensing state (if applicable)

John Goodno
Contact person

Account Manager
Title

761 Middle Sreet
Street

Bristol
City/Town

CT
State

06010
Zip code

860-583-8917
Telephone number

Ext.

E. Receiving Facility Information

1. Provide the following information on the receiving facility:

Connecticut Valley Sanitary Waste Disposal, Inc.
Operator/Facility name

Thomas Heaton
Contact person

Environmental Manager
Title

161 New Lombard Road
Street

Chicopee
City/Town

MA
State

01020
Zip code

(413) 594-4172
Telephone number

Ext.

2. Type of facility:

- ☐ asphalt batch/cold mix
- ☐ asphalt batch/hot mix
- ☐ landfill/disposal
- ☒ landfill/ daily cover
- ☐ thermal processing
- ☐ landfill/structural fill
- ☐ other(specify): _____

3. Permit number: 04-061-002

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Tracking Number

F. Description of Material

Check all that apply:

1. a. ☐ soil ☐ dredge material ☒ fill

   b. Description: Brown, fine to coarse-grained sand and gravel with small cobbles

   c. Classification: ☐ MIT ☐ USDA ☐ USAEC ☐ ASEE

2. ☒ Other(describe): Urban Fill

3. Type of contamination:

   a. ☐ gasoline ☐ diesel fuel ☐ #2 oil ☐ #4 oil
   ☐ #6 oil ☐ waste oil ☐ kerosene ☐ jet fuel

   b. ☐ Debris:

   ☐ demolition ☐ vegetative ☐ inorganic

   c. ☒ Other(describe): Urban Fill

4. Constituents of concern (check all that apply):

☒ As	☐ HVOCs
☒ Cd	☐ PATH
☒ Cr	☒ VOCs
☒ Pb	☒ PAHs
☒ Hg	☐ BNAs
☐ Na	☒ TPH
☐ PCBs	☐ Other(describe):

5. Analyses performed (check all that apply):

☒ As	☐ PATH
☒ Cd	☒ VOCs
☒ Cr	☐ PAHs
☒ Pb	☐ BNAs
☒ Hg	☒ TPH
☐ Na	☒ TCLP (inorganic)
☒ PCBs	☐ TCLP (organic)
☐ HVOCs	☒ Other(describe): SVOC's

6. Screening performed:

Jar headspace tests
Type

PID
Instrument used

VOCs
Constituents

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Tracking Number

F. Description of Material (cont.)

7. Estimated volume of materials:

100		
Cubic yards	Tons	Other(specify units)

8. Contaminant source (check one):

☐ transportation accident
☐ ust
☒ other(describe): Urban Fill

9. Indicate which waste characterization support documentation is attached:

☐ site history information
☐ sampling and analytical methods/procedure
☒ laboratory data
☐ field screening data

If supporting documentation is not appended, provide an attachment stating the date and in connection with what document such information was previously submitted to the facility.

G. Qualified Environmental Professional Opinion

"I have personally examined and am familiar with the information contained on and submitted with this form. Based on this information, it is my opinion that the testing and assessment actions undertaken were adequate to characterize the waste, and that the facility or location can accept wastes with the characteristics described in this submittal. I am aware that significant penalties including, but not limited to, possible fines and imprisonment may result if I willfully submit information which I know to be false, inaccurate, or materially incomplete."

Clean Harbors Environmental Services, Inc.
Name of organization

John Goodno
Name of professional

LEP
Title

860-583-8917
Telephone number

Ext.

Signature

10/6/08
Date

LEP # 363
License number

Seal:

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Tracking Number

H. Certification of Generator

"I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information contained herein is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information."

Signature

10-8-08
Date

Kenneth Gulledge
Name(print)

I. Acknowledgment of Receipt by Receiving Facility

Connecticut Valley Sanitary Waste Disposal, Inc
Receiving facility

Representative (print)

Title

Signature

Date

National Account Customer

Generator's Nonhazardous Waste Profile Sheet

WASTE MANAGEMENT

Requested Disposal Facility: Connecticut Valley Landfill Chicopee Profile Number: 101156MA

☐ Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: CR USA, Inc.
2. Site Address: 15 Old Newtown Road
3. City/ZIP: Danbury, 06810
4. State: CT
5. County: Fairfield
6. Contact Name/Title: Ken Gulledge/Remediation Manager
7. Email Address: k.gulledg@crowncork.com
8. Phone: 843-537-9794
9. FAX: 843-537-9362
10. NAICS Code: _____
11. Generator USEPA ID #: CTD001168558
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: _____

1. Customer Name: Clean Harbors Environmental Services,
2. Billing Address: 42 Longwater Drive, PO Box 149
3. City, State and ZIP: Norwell, MA, 02061
4. Contact Name: John Goodno
5. Contact Email: goodno.john@cleanharbors.com
6. Phone: 860-583-8917 FAX: 860-585-1740
7. Transporter Name: same
8. Transporter ID # (if appl.): _____
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION
   a. Common Waste Name: Soil/Fill impacted with trace metals
   State Waste Code(s): _____
   b. Describe Process Generating Waste or Source of Contamination:
   excavation for sub slab piping installation
   c. Typical Color(s): brown
   d. Strong Odor? ☐ Yes ☑ No Describe: _____
   e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____
   f. Layers? ☑ Single layer ☐ Multi- layer ☐ NA
   g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____
   h. Free Liquid Range (%): _____ to _____ ☑ NA(solid)
   i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☑ NA(solid) ☐ Actual: _____
   j. Liquid Flash Point: ☐ < 140°F ☐ ≥ 140°F ☑ NA(solid) ☐ Actual: _____
   k. Flammable Solid: ☐ Yes ☑ No
   l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☑ (See Attached)

Constituents *(Total Composition Must be > 100%)*	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. soil	95	%	100	%
2. gravel	0	%	5	%
3.				
4.				
5.				
6.				

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION
   a. ☑ One Time Event ☐ Base ☐ Repeat Event
   b. Estimated Annual Quantity: 100 ☐ Tons ☑ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____
   c. Shipping Frequency: event Units per ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other
   d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No
   e. USDOT Shipping Description (if applicable): _____
3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Level D

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Generator's Nonhazardous Waste Profile Sheet

101156MA

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☐ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☑ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: Alpha Analytical, 2 reports # Pages: _____
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☑ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: K Gulledge **Title:** Remediation Manager

Company Name: CR USA, Inc. **Name (Print):** Ken Gulledge

Date: 10-8-08

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation **Approval Decision:** ☐ Approved ☐ Not Approved

☐ Non-hazardous solidification ☐ Other: _____ Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

_____

_____

- ☐ Shall not contain free liquid
- ☐ Shipment must be scheduled into disposal facility
- ☐ Approval Number must accompany each shipment
- ☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ **Date:** _____

State Authorization (if Required): _____ **Date:** _____

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ADDENDUM 1 OF WASTE STREAM PROFILE
Re-use of Contaminated Soils
Pursuant to MADEP Policy # COMM-97-001

A. Client/Customer Information

1. Name: Clean Harbors Environmental Services
2. Address: 42 Longwater Drive
3. City: Norwell
4. Contact: John Goodno
5. Phone: (860)-883-3000
6. State & ZIP: MA 02061

B. Generator Information

1. Name: CR USA, Inc.
2. Address: PO Box 759
3. City: Cheraw
4. Contact: Kenneth Gulledge
5. Phone: (843)-537-9794
6. State & ZIP: SC 29520

C. QEP/LSP/LEP Information

1. Name: John Goodno
2. Address: 761 Middle Street
3. City: Bristol
4. Program Registered Under: CT
5. Contact: Kim Maiorano, CT-DEP
6. Phone: (860)-424-3788
7. State & ZIP: CT 06010
8. LSP/LEP #: CT-LEP #363

D. Laboratory Analysis

Laboratory analyses have been performed on the soil for the parameters indicated below. The required minimum analytical is indicated with asterisks. All laboratory reports accompany the data package.

Constituent	High Concentration Level
VOCs (8260)	ND
SVOCs (8270)	ND
TPH	ND
PCBs (8080)	ND
RCRA Metals	
As (Arsenic)	1.6 mg/kg
Cd (Cadmium)	ND
Cr (Chromium)	14 mg/kg
Hex Cr (Total Cr greater than 30 ppm)	
Pb (Lead)	6.1 mg/kg
Hg (Mercury)	ND
Conductivity (if not performed, provide justification)	63 umhos/cm
Reactivity (cyanide/sulfide), Corrosivity, Ignitability	CN <1.1 mg/kg
TCLP (as required by total data)	ND
Additional Constituents of Concern***	
Field Screening Data	Type: PID

*** Please address any constituents of concern that are not on the COMM-97-001 table 1 in a separate letter (Other constituents may require the material to be approved using a BUD or Special Waste Permit)

Site location map & site sketch enclosed? ☐ Yes ☑ No

Is this a MCP Waste? ☐ Yes ☑ No

Is material on ☐ BOL or ☑ MSR?

E. Decharacterized Soils

For Treated Soils:

Has a description of the treatment process and a copy of the WAP (Waste Analysis Plan) been included? ☐ Yes ☑ No

Is the land disposal restriction certification statement pursuant to 40 CFR 268.49(c) and 40 CFR 268.7(b)(4) included? ☐ Yes ☑ No

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ADDENDUM 1 OF WASTE STREAM PROFILE
Re-use of Contaminated Soils
Pursuant to MADEP Policy # COMM-97-001

F. Description/Source of Release

Source and Type of Release (describe): unspecified urban fill

Date of Release: unknown

Other Contamination Source(s): None

Contaminants of Concern: VOCs and metals

G. Site History

Past Uses: General manufacturing facility

Current Uses: vacant

If Pesticides are Present: ☐ Yes ☑ No If Yes, please answer the questions below:

Were the Pesticides applied to the soil in a manner that was consistent with the product label and manufacturer's instructions? ☐ Yes ☐ No

Has the concentration of the Chlorinated pesticides been included in the total VOC Level? ☐ Yes ☐ No

Has the concentration of the Chlorinated pesticides been included in the total SVOC Level? ☐ Yes ☐ No

What is the classification Method used:

1. USC ☐
2. Modified Burmister ☐
3. USDA ☐
4. Other: ASEE

H. Physical Soil Description and Classification

Physical Description of Soils (sand, gravel, urban fill, peat, clay) with percentages, including classification method(s):
brown fine to course-grained sand and gravel with a trace of cobbles (<4")

I. Check the Following Materials That are Present (Check all that apply)

☐ Construction Debris
☐ Coal
☐ Ash
☐ Organic Matter
☐ Vegetative Matter
Other: _____

J. Soil Sampling Methodology

☐ Grab ☑ Composite ☐ Soil Boring ☐ Test Pit ☐ Headspace Screened

K. Soil Characterization Methodology

☑ Stockpile ☐ In-Situ Other: _____

Frequency of Sampling: composite of pile less than 100 cy

Describe other areas (hotspots, other portions of site) that have been identified and that will be managed at other facilities:

QEP/LSP/LEP Signature: _____ **Date:** _____

LSP CERTIFICATION: I have personally examined and am familiar with the information contained on and submitted with this form. Based on this information, it is my opinion that the testing and assessment actions undertaken were adequate to characterize the waste, and that the facility or location can accept wastes with the characteristics described in this submittal. I am aware that significant penalties including, but not limited to, possible fines and imprisonment may result if I willfully submit information which I know to be false, inaccurate, or materially incomplete.

GENERATOR CERTIFICATION: By signing below, the Generator certifies and warrants that, having used due diligence (MADEP Policy HW93-01): (a) all the information contained in this submittal is true, accurate and complete; (b) all information of any releases/spills which may have affected the site, including type of materials released/spilled, has been disclosed; and (c) the materials addressed by this submittal do not contain any contaminants not disclosed in this submittal and are not listed or characteristic hazardous wastes as defined by RCRA.

Generator Signature: K Gulledge **Date:** 10-8-08

Printed Name: Kenneth Gulledge **Company:** CR USA, Inc.

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Table 1
Soil Approval Request- Policy # COMM -91-001
Disposal at Massachusetts Lined Landfill
Former Risdon Facilty, Danbury CT

Parameter Tested	Test Method Used	Mass Lined Landfill	Haz. Waste	RDS-SSSCOMP-1	RDS-SSSCOMP-2
Total Metals (mg/kg)					
Arsenic	CT RCP 6000/7000	40	100	1.6	NT
Barium	CT RCP 6000/7000	NE	2,000	49	NT
Cadmium	CT RCP 6000/7000	80	20	< 0.52	NT
Chromium	CT RCP 6000/7000	1,000	100	14	NT
Cyanide	CT RCP 9014	NE	NE	NT	< 1.1
Lead	CT RCP 6000/7000	2,000	100	6.1	NT
Mercury	CT RCP 6000/7000	10	4	ND	NT
Selenium	CT RCP 6000/7000	NE	20	< 2.6	NT
Silver	CT RCP 6000/7000	NE	100	< 0.52	NT
TCLP Metals (mg/l)					
Arsenic	EPA 6010 B	NE	5.0	< 1.0	NT
Barium	EPA 6010 B	NE	100	0.5	NT
Cadmium	EPA 6010 B	NE	1.0	< 0.1	NT
Chromium	EPA 6010 B	NE	5.0	< 0.2	NT
Lead	EPA 6010 B	NE	5.0	< 0.5	NT
Mercury	EPA 7470 A	NE	0.2	< 0.001	NT
Selenium	EPA 6010 B	NE	1.0	< 0.5	NT
Silver	EPA 6010 B	NE	5.0	< 0.1	NT
Total Petroleum Hydrocarbons/GC (mg/kg)	GC-FID	5,000	NE	ND	NT
Total PCB's (mg/kg)	CT RCP 8082	2	NE	0	NT
Total VOC's (mg/kg)	CT RCP 8260B/5035-low	10	NE	0	NT
Total SVOC's (mg/kg)	CT RCP 8270C	100	NE	0	NT
Specific Conductivity (umhos/cm)	SM9050A	8,000	NE	NT	63

Note: 1. NE indicates standard Not Established
2. NT indicates Not Tested

ANALYTICAL REPORT

Lab Number:	L0813638
Client:	Woodard & Curran 35 New England Business Center Suite 180 Andover, MA 01810
ATTN:	Jeff Hamel
Project Name:	RISDON
Project Number:	97001
Report Date:	09/19/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RISDON
Project Number: 97001

Lab Number: L0813638
Report Date: 09/19/08

Alpha Sample ID	Client ID	Sample Location
L0813638-01	RDS-SSSCOMP-001	DANBURY, CT

Project Name: RISDON
Project Number: 97001

Lab Number: L0813638
Report Date: 09/19/08

CT DEP Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

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

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

Project Name: RISDON **Lab Number:** L0813638
Project Number: 97001 **Report Date:** 09/19/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Report Submission

This report replaces the report issued September 18, 2008. At the client's request, the results for Total Cyanide and Specific Conductance have been removed. In addition, the answer to question 1a has been changed.

RCP Related Narratives

Metals

In reference to question 6:

At the client's request, all submitted samples were not analyzed for the full RCP list of constituents identified in the method specific analyte list presented in the RCP documents.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 09/19/08

METALS

Project Name:	RISDON	**Lab Number:**	L0813638
Project Number:	97001	**Report Date:**	09/19/08

SAMPLE RESULTS

Lab ID:	L0813638-01	Date Collected:	08/08/08 08:15
Client ID:	RDS-SSSCOMP-001	Date Received:	08/11/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series										
Arsenic, Total	1.6		mg/kg	0.52	1	09/16/08 11:45	09/17/08 17:15	EPA 3050B	77,6010B	MG
Barium, Total	49		mg/kg	0.52	1	09/16/08 11:45	09/17/08 17:15	EPA 3050B	77,6010B	MG
Cadmium, Total	ND		mg/kg	0.52	1	09/16/08 11:45	09/17/08 17:15	EPA 3050B	77,6010B	MG
Lead, Total	6.1		mg/kg	2.6	1	09/16/08 11:45	09/17/08 17:15	EPA 3050B	77,6010B	MG
Selenium, Total	ND		mg/kg	2.6	1	09/16/08 11:45	09/17/08 17:15	EPA 3050B	77,6010B	MG
Silver, Total	ND		mg/kg	0.52	1	09/16/08 11:45	09/17/08 17:15	EPA 3050B	77,6010B	MG

Project Name: RISDON **Lab Number:** L0813638

Project Number: 97001 **Report Date:** 09/19/08

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series for sample(s): 01 Batch: WG336525-1									
Arsenic, Total	ND		mg/kg	0.50	1	09/16/08 11:45	09/17/08 17:07	77,6010B	MG
Barium, Total	ND		mg/kg	0.50	1	09/16/08 11:45	09/17/08 17:07	77,6010B	MG
Cadmium, Total	ND		mg/kg	0.50	1	09/16/08 11:45	09/17/08 17:07	77,6010B	MG
Lead, Total	ND		mg/kg	2.5	1	09/16/08 11:45	09/17/08 17:07	77,6010B	MG
Selenium, Total	ND		mg/kg	2.5	1	09/16/08 11:45	09/17/08 17:07	77,6010B	MG
Silver, Total	ND		mg/kg	0.50	1	09/16/08 11:45	09/17/08 17:07	77,6010B	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RISDON

Project Number: 97001

Lab Number: L0813638

Report Date: 09/19/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals by CT RCP 6000/7000 series Associated sample(s): 01 Batch: WG336525-2					
Arsenic, Total	96	-	75-125	-	30
Barium, Total	88	-	75-125	-	30
Cadmium, Total	93	-	75-125	-	30
Lead, Total	93	-	75-125	-	30
Selenium, Total	92	-	75-125	-	30
Silver, Total	94	-	75-125	-	30

INORGANICS
&
MISCELLANEOUS

Project Name: RISDON
Project Number: 97001

Lab Number: L0813638
Report Date: 09/19/08

SAMPLE RESULTS

Lab ID: L0813638-01
Client ID: RDS-SSSCOMP-001
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 08/08/08 08:15
Date Received: 08/11/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	92		%	0.10	1	-	08/12/08 15:50	30,2540G	NM

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001

Lab Number: L0813638
Report Date: 09/19/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01 QC Batch ID: WG336423-1 QC Sample: L0812907-40 Client ID: DUP Sample					
Solids, Total	82	83	%	1	20

Project Name: RISDON
Project Number: 97001

Lab Number: L0813638
Report Date: 09/19/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0813638-01A	Amber 250ml unpreserved	A	N/A	2.3C	Y	Absent	CT-AG-6010T(180),CT-AS-6010T(180),CT-SE-6010T(180),CT-PB-6010T(180),CT-BA-6010T(180),CT-CD-6010T(180)

*Hold days indicated by values in parentheses

Project Name:	RISDON	**Lab Number:**	L0813638
Project Number:	97001	**Report Date:**	09/19/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Data Usability Report

Project Name:	RISDON	**Lab Number:**	L0813638
Project Number:	97001	**Report Date:**	09/19/08

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

77 Connecticut DEP Quality Assurance and Quality Control Requirements for SW-846 Methods. CTDEP Reasonable Confidence Protocols (RCPs). Version 1.0, July 2005.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

09190813:28

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/11/08

ALPHA Job #: L0813638

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Woodard & Curran

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Risdon

Project Location: Danbury, CT

Project #: 97001

Project Manager: Jeff Hamel

ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!) 3day

Date Due: 8/18/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
CT	RCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Prelog of L0811789-01.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cyanide	Conductivity	Ag, As, Ba, Cd, Pb, & Se								Sample Specific Comments	TOTAL # BOTTLES
3638-01	RDS-SSSComp-001	8/8/08	0815	S		✓	✓	✓	✓								1

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type																
Preservative																

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		[signature]	9/15/08

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 1 OF 1

Eight Walkup Drive Westborough, MA 01581
TEL. 508-898-9220 Fax 508-898-9193

Client Information

Client:	Woodard & Curran
Address:	35 New England Bus. Park, Suite 180
	Andover, Ma.
Phone:	866-702-6371
Fax:	978-557-7948
Email:	jhamel@woodardcurran.com

These samples have been previously analyzed by Alpha

Other Project specific Requirements/Comments:

Project Information

Project Name:	Risdon
Project Location:	Danbury, CT
Project Number:	97001
Project Manager:	Jeff Hamel
Alpha Quote #:	

Turn-Around Time

X Standard ☐ Rush (only confirmed if pre-approved)

Date Due: 8/18 Time:

Report Information - Data Deliverables

☐ Fax
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other formats: _____
X EMAIL (standard pdf report)
☐ Additional Deliverables: _____

Report to: (if different from Project Manager)

Billing Information

X Same as Client info PO#

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
CT	RCP Method	

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample ID	Collection Date	Collection Time	Sample Matrix	Samplers Initials	8260/5035 LOW	8260/5035 HIGH	Total Solids	TCLP RCRA 8, Total Cr, Hg	TPH, PCB	Total Halides	Sample Specific Comments	TOTAL # BOTTLES
RDS-SSSCOMP-001	8/8/2008	8:15	S	CSG	2	1	1	1	1	1		7
Container Type					V	V	P	G	G	G		
Preservative												

Relinquished By:	Date/time	Received By:	Date/Time
[signature]	8/11/08 1330	[signature]	8/11/08 1330
[signature]	8/11/08 1700	[signature]	8/11 1700

ANALYTICAL REPORT

Lab Number:	L0813780
Client:	Woodard & Curran 35 New England Business Center Suite 180 Andover, MA 01810
ATTN:	Jeff Hamel
Project Name:	RISDON
Project Number:	97001
Report Date:	09/19/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RISDON
Project Number: 97001

Lab Number: L0813780
Report Date: 09/19/08

Alpha Sample ID	Client ID	Sample Location
L0813780-01	RDS-SSSCOMP-002	DANBURY, CT

Project Name: RISDON
Project Number: 97001

Lab Number: L0813780
Report Date: 09/19/08

CT DEP Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

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

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

Project Name: RISDON
Project Number: 97001

Lab Number: L0813780
Report Date: 09/19/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

RCP Related Narratives

Sample Receipt

At the client's request, the sample was analyzed for Total Cyanide and Specific Conductance.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative

Date: 09/19/08

INORGANICS
&
MISCELLANEOUS

Project Name: RISDON
Project Number: 97001

Lab Number: L0813780
Report Date: 09/19/08

SAMPLE RESULTS

Lab ID: L0813780-01
Client ID: RDS-SSSCOMP-002
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 09/17/08 10:20
Date Received: 09/17/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Cyanide by CT RCP 9014									
Cyanide, Total	ND		mg/kg	1.1	1	09/18/08 17:00	09/18/08 22:03	77,9014	DD
General Chemistry									
Specific Conductance	63		umhos/cm	10	1	-	09/17/08 21:15	1,9050A	JO
Solids, Total	88		%	0.10	1	-	09/17/08 19:20	30,2540G	NM

Project Name: RISDON **Lab Number:** L0813780

Project Number: 97001 **Report Date:** 09/19/08

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Cyanide by CT RCP 9014 for sample(s): 01 Batch: WG336894-1									
Cyanide, Total	ND		mg/kg	0.97	1	09/18/08 17:00	09/18/08 21:34	77,9014	DD

Lab Control Sample Analysis

Batch Quality Control

Project Name: RISDON

Project Number: 97001

Lab Number: L0813780

Report Date: 09/19/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Associated sample(s): 01 Batch: WG336769-2					
Specific Conductance	94	-	80-120	-	
Total Cyanide by CT RCP 9014 Associated sample(s): 01 Batch: WG336894-2 WG336894-3					
Cyanide, Total	102	99	80-120	3	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001

Lab Number: L0813780
Report Date: 09/19/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01 QC Batch ID: WG336749-1 QC Sample: L0813742-01 Client ID: DUP Sample					
Solids, Total	91	92	%	1	20
Associated sample(s): 01 QC Batch ID: WG336769-1 QC Sample: L0813744-01 Client ID: DUP Sample					
Specific Conductance	90	90	umhos/cm	0	20

Project Name: RISDON
Project Number: 97001

Lab Number: L0813780
Report Date: 09/19/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0813780-01A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	COND-9050(1),CT-TCN-9014(14),TS(7)

Container Comments

L0813780-01A	IR Gun

*Hold days indicated by values in parentheses

Project Name:	RISDON	**Lab Number:**	L0813780
Project Number:	97001	**Report Date:**	09/19/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Data Usability Report

Project Name: RISDON **Lab Number:** L0813780
Project Number: 97001 **Report Date:** 09/19/08

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

77 Connecticut DEP Quality Assurance and Quality Control Requirements for SW-846 Methods. CTDEP Reasonable Confidence Protocols (RCPs). Version 1.0, July 2005.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/17/08

Alpha Job #: L0813780

Eight Walkup Drive Westborough, MA 01581
TEL. 508-898-9220 Fax 508-898-9193

Client Information

Client:	Woodard & Curran
Address:	35 New England Bus. Park, Sutie 180
	Andover, Ma.
Phone:	866-702-6371
Fax:	978-557-7948
Email:	jhamel@woodardcurran.com

These samples have been previously analyzed by Alpha

Project Information

Project Name:	Risdon
Project Location:	Danbury, CT
Project Number:	97001
Project Manager:	Jeff Hamel
Alpha Quote #:	

Turn-Around Time:

Standard X Rush (only confirmed if pre-approved)

Date Due: 9/19.08 Time: COB

Report Information - Data Deliverables

- ☐ Fax
- ☐ ADEx
  - Criteria Checker: _____
  - (Default based on Regulatory Criteria Indicated)
  - Other formats: _____
- X EMAIL (standard pdf report)
- ☐ Additional Deliverables: _____

Report to: (if different from Project Manager)

Billing Information

X Same as Client Info | PO#

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
CT	RCP Method	

Other Project specific Requirements/Comments:

If questions, please call Craig Goulet.....860-601-1771.

Alpha Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Samplers Initials	TCLP total metals (cyanide)	Sp. Cond										Sample Specific Comments
13780-01	RDS-SSSCOMP-002	9/17/2008	1020	S	CSG	1		X									
					Container Type	G		X									
					Preservative												

ANALYSIS

SAMPLE HANDLING

Filtration
- ☐ Done
- ☐ Not needed
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please specify below)

Shaded Area For Lab Use Only

Relinquished By:	Date/time	Received By	Date/Time
Paul Gilbert	9-17/08	Paul Gilbert	9/17/08 12:45
		[illegible]	9/17/08 1635

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All sample submitted are subject to Alpha's Payment Terms. See reverse side.

APPENDIX D: COMPLETED SUB-SLAB SYSTEM O&M CHECKLISTS

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: Goulet / Hevel Date: 9/22/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-~~C~~ F)
SSDS Blower 1 Inlet	1120	-15	3980	195	7.6	79.9
SSDS Blower 1 Outlet	1135	+5	>8888	>193	3.7	100
SSDS Enclosure 1	1141				ND	68
Ambient Move to 5					—	— 74°F

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

Same location as Blower inlet

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-10	-19	9"

SSDS Blower 1 Dilution (% open)	ON / OFF	0%	Blower Runtime (Hours)	0.0

SSDS Blower Timer Settings	List Days ON	—	Hours per day ON	—

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-1	1245	-2.6	400	35	4.3	
** EP-2	1247	-3.3	330	29	2.3	
EP-3	1242	-3.0	450	39	2.2	
** EP-4	1240	-3.6	665	58	0.8	
EP-5	1233	-3.6	440	38	20.7	100% open

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) 199 good ✓

Notes: 1115 start Blower 100% dilution Vel = 1400 FT/MIN
pre-Dilution = 2" wc post Dilution = 4" WC Blower Inlet = 14" WC.
1120 - Shut Dilution Valve 100%. Outlet Vent ≈ 8.5 PPMv.
* SMALL leak on EP-1 Valve Glue Joint
** CONCRETE CUTS LEAK.

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: GOULET / HARVEY **Date:** 9/22/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg ~~C~~ F)
SSDS Blower 2 Inlet	1300	-18"	4400.	~~0.2~~ 216.	0.2	76.1°
SSDS Blower 2 Outlet	1305	+5.	> 8888	> 194.	0.2	90°
SSDS Enclosure 2	~~76° F~~				ND	76°
Ambient					ND	~~90° F~~ 74° F

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-8"	-18."	-10.

SSDS Blower 2 Dilution (% open)	ON (OFF)	0%	Blower Runtime (Hours)	0.0

SSDS Blower Timer Settings	List Days ON	/	Hours per day ON	/

Construction Headspace

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)		Status (% ON or OFF)
ZONE 1 SSDS							
EP-6 (See note ***)	1320	-2.3	440	38	6.2	22	8" 100% open
EP-7 (" ")	1323	-2.3	230	20	0.6	0	18"
EP-8 ***	1330	-1.8	620	54	0.8	408	31"
EP-9	1328	-1.9	200	17	0.8	34	28"
EP-10	1334	-2.0	350	31	0.0	260	25"
EP-11	1335	-2.0	220	19	0.0	156	26"
ZONE 2 SSDS							
EP-22	1326	-2.1	200	17	0.0	0	20"

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) TOTAL 196 (Close to 216) 1500 6"

Concrete Below SLAB

Notes: INITIAL Blower discharge = 75°F
1255. VEL = 1460, DILUTION 100% OPEN, -13" (VAC. INLET)
1259- " 0% OPEN, -18" (" ")
* REMOVED EFF DISCHARGE 90° REDUCED PRES. BY 2.
** [1320] SMALL LEAK @ EP-6 GALV. ELBOW (BOTTOM), ALSO EP-7
** EP-8 CONCRETE SAW CUT LEAKING, EP-10 ALSO
* MIST/VAPOR ON EFF PIPE. (NOT BLOWING OUT W/ DILUTION OPEN)

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: GOURLET/HENRY Date: 9/22/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp ~~(deg-C)~~ °F
SSDS Blower 3 Inlet	1410	-22"	3700.	189.	10.	79.7°F
SSDS Blower 3 Outlet	1415	4.0	>8888	>194	9.2	~~82~~ 105°F
SSDS Enclosure 3	1416				0.0	80°F
Ambient	1416				0.0	~~100°F~~ 74°F

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-22.13	-22.	

SSDS Blower 3 Dilution (% open)	ON / OFF	0%	Blower Runtime (Hours)	0.0

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
VES-109		Not Connected Yet				
EP-12	1452	-4.5	650	57	4.3	
EP-13	1453	-7.0	425	37	1.8	
EP-14 *	1437	-6.0	520	45	41	100% open
EP-15	1457	-8.0	600	52	12.2	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) TOTAL = 191

Notes: 1401- SYSTEM ON, -15", 100% DILUTION OPEN.
* EP-14 Concrete Floor Repair @ TRENCH is Leaking
* EP-13 Concrete Leaking @ TRENCH
* EP-15 " " "

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: GILLET | HEVEY **Date:** 9.22.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 4 Inlet	1416	-17"	4100	201.	42.2	74.8 °F
SSDS Blower 4 Outlet	1421	-5.0"	>8888	>193.	40.0	86.5°/94°F
SSDS Enclosure 4	1422				0.0	74°F
Ambient	1422				0.0	74°F

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-7"	-17"	

SSDS Blower 4 Dilution (% open)	ON (OFF)	0%		Blower Runtime (Hours)	0.0

SSDS Blower Timer Settings	List Days ON		Hours per day ON	0.0

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-16	1455	-0.32	345	30	0.0	
EP-17	1459	-0.4	580	51	0.0	
EP-18 **	1501	-1.3	380	33	11.6	
EP-19	1500	-2.2	220	19	17	
EP-20	1502	-1.8	490	43	5.5	
EP-21 XXX	~~1457~~	~~-2.8~~ -2.8	~~130~~ 280	24	1.5	100% ON

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: * BLOWER ON @ 1415, DILUTION 100% OPEN = -13."
** EP-18 - Leak in concrete Behind metal sleeve
XXX EP-21 Leak " Cracked + Behind metal JOINT

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator: GOULET / HEVEY Date: 9/22/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp ~~(deg C)~~ F
SSDS Blower 5 Inlet	1348	-18"	4500	221	0.9	82.2
SSDS Blower 5 Outlet	WATER	MIST				88.° F
SSDS Enclosure 5	1350				ND	78° F
Ambient	1351				ND	~~100~~° F 74° F

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-.7.0	-18"	

SSDS Blower 5 Dilution (% open)	ON (OFF)	0%	Blower Runtime (Hours)	0.0

SSDS Blower Timer Settings	List Days ON	/	Hours per day ON	/

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 2 SSDS						
EP-22 (Located in SSDS No. 2)	←	SEE	SSDS Enclosure	(17) No. 2	Sheet	→
EP-23 Bouncing vac No Moisture	1247	-0.52	187	16	0.0	
EP-24	1445	-0.67	475	41	0.0	
EP-25	1442	-1.0	230	20	2.7	
* EP-26 Bouncing vac	1435	-0.43	130	11	50.3	
*** EP-27	1443	-2.3	370	32.3	0.0	
EP-28	1438	-3.0	390	34	1.4	
EP-29 (upstairs)	1427	-4.0	170	15	316	
EP-30	1514	-2.2	220	19	4.8	
EP-31 1511	~~1427~~	~~-2.0~~ -2.0	~~1.0~~ .215	~~15~~ 19	~~3.5~~ 9.6	100% ON

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

TOTAL = 224

Notes: 1346 - DIL 100% OPEN, BLOWER INLET = ~~-18"~~ 13"
* MIST/VAPOR ON EFF PIPE. *** CONCRETE LEAKING
** No Moisture observed @ EP-26
~~*** Sealant is leaking.~~
@ 1520 checked CAL w/ 100 PPMV ISOBUTYLENE → 80 PPMV. Local

USED US ENVIRO RENTAL
MINI RAE 2000/3000
110-011748

TAPLE C-2
SUB-SLAB VAPOR CONTROL S EM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: GOULET/HEVEY PRE. START UP Date: 9.22.08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301	944	ND	18.1
SV302 (VP-20B)	9:42	ND	100
SV303	1010	ND	22.0
SV304	930	ND	19.4
SV305	1040	ND	9.3
SV308	1019	ND	40.5
SV309	1037	ND	38.6
SV311	1025	ND	15.5
SV313	1020	ND	31.1
SV314	1022	ND	55.6
SV315	1024	ND	54.5
SV316 (VP-5A?)	1030	ND	6.2

MOVE to Right Size

Notes:

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	1035	ND	18.3
VP-25A	1033	ND	10.3
VP-30A	1027	ND	17.8
VP-35A (LOST)	~~X~~	~~X~~	~~X~~
ZONE 1 - PET AREA B			
VP-7.5B	958	ND	137
VP-15B	955	ND	85.2
VP-25B	1007	+0.05	257
VP-32.5B	1002	ND	440.
VP-40B	934	ND	9.6
ZONE 2			
SV307	950	ND	6.9
SV310	1016	+0.02	5.0
SV312	1013	ND	18.5
ZONE 3 (as needed)			
SV306	1045	ND	4.0
SV317	1015	ND	17.7

TA' ' 5 C-2
SUB-SLAB VAPOR CONTROL S ' EM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: GOULET / HENEY (POST START-UP ALL 5 SSDS ZONES) **Date:** 9/22/08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301	1530	ND	
SV302	1529	-.13	
SV303	1533	-.40	
SV304	1524	-.6	
SV305	1543	-.04	
SV308	1537	-.15	
SV309	1542	-.36	
SV311	1541	-4.0	
SV313	1540	-.26	
SV314	1540	-.43	
SV315	1547	-.42	
SV316	1538	-.48	

Notes:

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	1539	-.34	
VP-25A	1538	~~-.52~~ -.56	
VP-30A	1542	-1.9	
~~VP-35A~~ (LOST)			
ZONE 1 - PET AREA B			
VP-7.5B	1526	-1.5	
VP-15B	1525	-.5	
VP-25B	1526	-.38	
VP-32.5B	1529	-.30	
VP-40B	1527	-.31	
ZONE 2			
SV307	1531	ND	
SV310	1536	-.28	
SV312	1534	ND	
ZONE 3 (as needed)			
SV306	1544	ND	
SV317	1535	+.01	

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: CSG / HCD **Date:** 9.24.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp ~~(deg-C)~~ F
SSDS Blower 1 Inlet	1037	-16."	4000	196	0.0	86.2°
SSDS Blower 1 Outlet	1035	+4.6	>8888		0.0	110°
SSDS Enclosure 1	1035				0.0	82°
Ambient	1033				0.0	>120

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-16."	-7.0"	

SSDS Blower 1 Dilution (% open)	ON / OFF	100%	Blower Runtime (Hours)	48.5

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

	Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
	ZONE 1 SSDS						
**	EP-1	809	-2.5"	374		1.0	100%
*	EP-2	806	-2.9"	335	335.	1.6	100%
	EP-3	820	-2.6"	430.		0.4	100%
*	EP-4	824	-3.2"	635.		0.0	100%
	EP-5	902	-3.1"	490.		0.0	100%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: * SEE NOTE 2

** AIR LEAK @ FITTING, NEAR VALVE.

~ 800 TARGET

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: CSG/NCD **Date:** 9.24.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp ~~(deg-C)~~ °F
SSDS Blower 2 Inlet	1042	-13.0"	4120		0.0	83.7°
SSDS Blower 2 Outlet	1041	+ ~~7.0~~ 5.5	>8888		0.0	110.°
SSDS Enclosure 2	1040				0.0	84.°
Ambient	1033				0.0	>120

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-13.0	-7.0	

SSDS Blower 2 Dilution (% open)	ON / OFF	100%		Blower Runtime (Hours)	46.9

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-6	754	-2.0"	230.		0.3	100%
EP-7	747	-0.21"	220.		14.2	100%
EP-8	859	-1.6"	700.	~~2~~	0.0	100%
* EP-9	904	-1.5"	200.		0.0	100%
EP-10	857	-1.7"	400.		0.3	100%
EP-11	853	-1.6"	214.		0.5	100%
ZONE 2 SSDS						
EP-22	1002	-1.7"	180.		2.1	100%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

NOTE:
Notes: (1) * AIR LEAK @ CONC. + FITTING EP-6, EP-8, EP-9
(2) " " " " JOINT EP-2, EP-3,

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: CSG / WCP **Date:** 9.24.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp ~~(deg-C)~~ °F
SSDS Blower 3 Inlet	1026	- 20.0"	3790.		0.0	77.5°
SSDS Blower 3 Outlet	1024	+ 3.7	>8888		0.0	109°
SSDS Enclosure 3	1024				0.0	80°
Ambient	1033				0.0	>120°

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	- 20.0"	-11.0"	

SSDS Blower 3 Dilution (% open)	ON / OFF	100%		Blower Runtime (Hours)	45.5

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

	Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
				ZONE 1 SSDS			
	VES-109	914	- 8.0	70.		13.5	100%
*	EP-12	917	- 3.6	640.		0.2	100%
*	EP-13	921	- 5.5	450.		0.1	100%
*	EP-14	847	- ≥4.4"	520		0.1	100%
*	EP-15	927	- 6.0	630.		0.1	100%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: SEE NOTE 2

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: CSG/WCD **Date:** 9-24-08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp ~~(deg C)~~ °F
SSDS Blower 4 Inlet	1017	16"	4070		0.0	76.5°
SSDS Blower 4 Outlet	~~1017~~ 1013	~~16"~~ 4.6	> 8888		0.0	109.° f
SSDS Enclosure 4	1012				0.0	80.°f
Ambient	1033				0.0	>120°

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	16"	6"	

SSDS Blower 4 Dilution (% open)	ON / OFF	100%		Blower Runtime (Hours)	45.3

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-16	908	-0.3"	335.		0.3	100%
EP-17	930	-0.38	600		0.0	100%
* EP-18	936	-1.4"	352.		0.2	100%
EP-19	932	-2.1"	350.		0.4	100%
EP-20	939	-1.5"	550.		0.1	100%
EP-21	940	-2.5"	300.		0.1	100%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: BEFORE / AFTER DILUTION.
~~PRE~~ FILTER — 6.0"

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator: CSG / WCD **Date:** 9.24.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (~~deg C~~ °F)
SSDS Blower 5 Inlet	1032	-16.0"	4087		0.0	76.8
SSDS Blower 5 Outlet	1031	+4.8	>8888		0.0	112°
SSDS Enclosure 5	1030				0.0	88°
Ambient	1033				0.0	>120°

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-16."	-5.0"	

SSDS Blower 5 Dilution (% open)	ON / OFF	100%	Blower Runtime (Hours)	45.9

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 2 SSDS						
EP-22 (Located in SSDS No. 2)						
EP-23	817	-0.26"	160.		10.8	100%
EP-24	829	-0.46"	350.		0.1	100%
EP-25	842	-0.76"	247.		0.2	100%
EP-26	844	-0.72"	270.		0.2	100%
EP-27	840	-1.6"	350.		0.5	100%
EP-28	835	-2.4"	225.		0.5	100%
EP-29	1008	-2.1"	159.		0.5	100%
EP-30	945	-1.7"	202.		0.6	100%
EP-31	943	-1.5"	200.		0.1	100%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TA' ⁻ C-2
SUB-SLAB VAPOR CONTROL S TEM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: CSG/WCD **Date:** 9-24-08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301	812	ND	46.0
SV302	759	-0.02"	29.2
SV303	826	-0.25"	19.7
SV304	745	-0.4"	13.5
SV305	906	-0.002"	9.5
SV308	851	-0.005"	19.5
SV309	1004	-0.30"	2.6
SV311	926	-3.2"	0.5
SV313	948	-0.17"	0.5
SV314	947	-0.28	0.4
SV315	942	-0.30"	0.1
SV316	920	-0.25"	0.5

Notes: * AIR VEL METER TSI 9535
PID RAE 110-011748 (11.7 eV)

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	935	-0.24	12.9
VP-25A	~~802~~ 921	~~-0.24"~~ 0.48"	~~25.7~~ 0.6
VP-30A	925	-1.3	8.1
VP-35A (LOST)	—	—	—
ZONE 1 - PET AREA B			
VP-7.5B	958	-1.4"	~~1.4~~ 2.8
VP-15B	1000	-0.35"	13.2
VP-25B	802	-0.24"	25.7
VP-32.5B	956	-0.24"	7.9
VP-40B	747	-0.25"	17.0
ZONE 2			
SV307	954	-ND	5.7
SV310	837	-0.16"	9.0
SV312	832	ND	4.0
ZONE 3 (as needed)			
SV306	911	ND	3.1
SV317	834	.001	11.1

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 9/22/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-~~C~~ F)
SSDS Blower 1 Inlet	1529	-18	3690		0.1	70.5
SSDS Blower 1 Outlet	"	+7.5	8888+		0.1	74.1
SSDS Enclosure 1	"				0.0	83.6
Ambient	"				0.0	69.0

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * $(3/12)^2$ / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * $(2/12)^2$ / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-18	-8	

SSDS Blower 1 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	981

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-1	1200	-2.5	398		0.5	100%
EP-2	1155	-3.2	370		0.1	100% on
EP-3	1200	-2.5	442		0.2	100% on
EP-4	1210	-1.6	472		0.0	50% on
EP-5	1117	-3.0	541		0.1	50%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * $(4/12)^2$ / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 9/27/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg.~~C~~ F)
SSDS Blower 2 Inlet	1514	-16	3790		0.0	69.9
SSDS Blower 2 Outlet	"	+6.9	8888+		0.0	75.1°
SSDS Enclosure 2	"				0.0	82.3°
Ambient	"				0.0	69°

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-16	-7.5	

SSDS Blower 2 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	965

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

	Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
	ZONE 1 SSDS						
*	EP-6	1141	-1.7	433		0.0	100% on
	EP-7	1135	-1.8	215		0.0	100% on
*	EP-8	1121	-1.0	640		0.4	80% on
*	EP-9	1108	-1.8	198		0.5	100% on
	EP-10	1040	-1.5	381 ~~644~~		0.1	100% on ✓
	EP-11	1237	-1.5	224		0.3	100% on
	ZONE 2 SSDS						
	EP-22	1039	-1.6	200		0.9	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

* Air leaks @ concrete + Fittings @ EP.6 + EP.8 + EP.9
Air leaks @ joints of EP.2 + EP.3

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: WCO **Date:** 9/22/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-~~C~~ F)
SSDS Blower 3 Inlet	1539	-21	3631		.5	71.2°
SSDS Blower 3 Outlet	"	+10.7	8888+		.5	73.9°
SSDS Enclosure 3	"				0.0	81.9°
Ambient	"				0.0	69.0°

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-21	-11	

SSDS Blower 3 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	954

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
VES-109	1250	-8.0	70		2.1	100% on
EP-12	1305	-3.6	620		0.2	100% on
EP-13	1308	-4.0	431		0.2	100% on
EP-14	1233	-4.4	449		0.1	100% on
EP-15	1324	-6.0	625		0.5	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: ECD **Date:** 9/27/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg.C) F
SSDS Blower 4 Inlet	1500	-.15	3865		.2	71.1
SSDS Blower 4 Outlet	"	+6.8	8888+		.2	73.4
SSDS Enclosure 4	"				0.0	81.3
Ambient	"				0.0	69.0

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-.15	7	

SSDS Blower 4 Dilution (% open)	~~ON~~ / OFF	—		Blower Runtime (Hours)	949

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-16	1316	-.28	336		0.5	100% on
EP-17	1324	-.36	566		0.0	100% on
EP-18	1359	-1.8	363		0.1	100%
EP-19	1352	-2.0	235		0.2	100% on
EP-20	1350	-1.4	470		0.1	100% on
EP-21	1339	-.24	290		0.0	100%

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator: W CD **Date:** 9/27/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-~~C~~ F)
SSDS Blower 5 Inlet	1440	-16	3946	~~3946~~	.4	70.0°
SSDS Blower 5 Outlet	"	+ 7.8	8888 +	~~8888 +~~	.4	106°
SSDS Enclosure 5	"				0.0	80°
Ambient	"				0.0	69°

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-16	-7	

SSDS Blower 5 Dilution (% open)	ON / OFF	—	Blower Runtime (Hours)	954

SSDS Blower Timer Settings	List Days ON	—	Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 2 SSDS						
EP-22 (Located in SSDS No. 2)	—	—	—	—	—	—
EP-23	1423	-1.7	166		0.9	100% on
EP-24	1214	-.41	349		0.1	100% on
EP-25	1410	-.68	230		0.5	100% on
EP-26	1209	-.77	287		0.0	100% on
EP-27	1218	-1.8	378		0.0	100% on
EP-28	1225	-2.8	408		0.1	100% on
EP-29	1427	-2.0	250		0.0	100% on
EP-30	1341	-1.5	157		0.1	100% on
EP-31	1335	-1.5	195		0.1	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TA[illegible] C-2
SUB-SLAB VAPOR CONTROL S[illegible]EM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 9/24/08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301	12[illegible]	0.0	5.9
SV302	1,44	.009	0.1
SV303	14[illegible]	.10	6.9
SV304	11[illegible]	.30	3.6
SV305	14[illegible]	.001	2.5
SV308	12[illegible]	.005	6.3
SV309	13[illegible]	.27	0.5
SV311	13[illegible]	2.4	0.1
SV313	14[illegible]	.16	0.7
SV314	13[illegible]	.26	1.3
SV315	1331	.29	0.1
SV316	13[illegible]	.23	1.1

Notes: 110-011748 mini Rae
calibrated to 96ppm with Isobutylene

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	14[illegible]	.22	5.9
VP-25A	12[illegible]	.46 .23	~~Ft~~ 1.9
VP-30A	13[illegible]	.56	3.9
VP-35A	LOST		
ZONE 1 - PET AREA B			
VP-7.5B	11[illegible]	1.2	7.9
VP-15B	11[illegible]	.31	16.2
VP-25B	11[illegible]	.23	1.1
VP-32.5B	11[illegible]	.26	11.0
VP-40B	11[illegible]	.22	1.8
ZONE 2			
SV307	14[illegible]	0.0	5.3
SV310	14[illegible]	.15	6.1
SV312	12[illegible]	0.0	2.8
ZONE 3 (as needed)			
SV306	11[illegible]	0.0	3.6
SV317	12[illegible]	0.0	3.8

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: LVCD Date: 10/1/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 1 Inlet	13:00	-17.5	4196	206	0.0	76.4
SSDS Blower 1 Outlet	13:00	4.4	8780	191	2.6	109°
SSDS Enclosure 1	13:00				0.0	80.9
Ambient	13:00				0.0	73.4

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 ($Q = 3.14 * (3/12)^2 / 4 * Velocity$)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 ($Q = 3.14 * (2/12)^2 / 4 * Velocity$)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	17.5	8	

SSDS Blower 1 Dilution (% open)	ON / OFF			Blower Runtime (Hours)	216.5

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-1	10:51	-2.7	426	37	3.1	100% on
EP-2 +	10:49	-3.0	426	37	1.6	100% on
EP-3	10:58	-2.7	502	44	2.5	100% on
EP-4	11:02	-1.4	496	43	0.0	50%
EP-5	10:25	-3.0	535	47	16.8	75% open 100

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 ($Q = 3.14 * (4/12)^2 / 4 * Velocity$)

208

Notes: changes made

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: WCN Date: 10/1/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 2 Inlet	1240	-16	4870	239	0.0	76.8
SSDS Blower 2 Outlet	1240	5.0	8927	195	0.0	110°
SSDS Enclosure 2	"				0.0	91.3
Ambient	"				0.0	73.4

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * $(3/12)^2$ / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * $(2/12)^2$ / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	16	7	

SSDS Blower 2 Dilution (% open)	ON / OFF		Blower Runtime (Hours)	214.8

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-6	1047	-1.6	499	44	6.4	100% on
EP-7	1039	-1.7	307	27	0.0	100% open
EP-8	1033	-1.8	630	55	0.0	80% open
EP-9	1019	-1.3	260	23	0.0	100% on
EP-10	1013	-1.5	398	35	0.0	100% on
EP-11	1130	-3.0	298	26	0.0	100% on
ZONE 2 SSDS						
EP-22	1133	-1.7	225	20	0.0	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) 230

Notes:
EP-8 value was @ 100% No changes

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: VCD Date: 10.1.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-~~C~~ F)
SSDS Blower 3 Inlet	1225	-20	3740	184	0.0	75.4
SSDS Blower 3 Outlet	-	+3.8	8825	192	3.5	111°
SSDS Enclosure 3	-				0.0	75.7°
Ambient	-				0.0	73.4

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	20	10.5	

SSDS Blower 3 Dilution (% open)	ON / OFF	—	Blower Runtime (Hours)	213.4

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
VES-109	1150	-8.0	200	17	33.9	100% on
EP-12	1147	-3.5	632	55	0.0	100% on
EP-13	1144	-6.0	428	37	0.1	100% on
EP-14	1126	-4.6	462	40	8.3	100% on
EP-15	1159	-6.0	628	55	1.3	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

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Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD Date: 10.1.08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 4 Inlet	12:35	15	4100	201	0.0	74.8
SSDS Blower 4 Outlet	"	4.4	9660	211	0.0	109.
SSDS Enclosure 4	"				0.0	88.1
Ambient	"				0.0	73.4

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	15	6	

SSDS Blower 4 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	
SSDS Blower Timer Settings	List Days ON		Hours per day ON	213.2	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
EP-16	11:39	-.23	266	23	0.0	100% on
EP-17	11:54	-.35	564	49	0.0	100% on
EP-18	12:07	-1.2	342	30	0.0	100% on
EP-19	12:03	-2.0	228	20	0.0	100% on
EP-20	12:09	-1.4	470	41	0.0	100% on
* EP-21	12:23	-2.5	304	27	0.0	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) 190

Notes: * Leak @ floor

* Target 380

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD Date: 10/1/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 5 Inlet	13:10	-15.5	6118 ?	300	0.0	76.0
SSDS Blower 5 Outlet	"	4.6	9446	206	0.0	112
SSDS Enclosure 5	"				0.0	87.2
Ambient	"				0.0	73.4

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	15.5	5.5	

SSDS Blower 5 Dilution (% open)	ON / OFF		Blower Runtime (Hours)	213.7

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 2 SSDS						
EP-22 (Located in SSDS No. 2)						
EP-23	10:55	-.24	243	21	0.0	100% on
EP-24	11:10	-.42	418	36	0.0	100% on
EP-25	11:18	-.75	312	27	2.0	100% on
EP-26	11:24	-.80	341	30	0.0	100% on
EP-27	11:16	-1.5	401	35	0.0	100% on
EP-28	11:20	-2.2	457	40	0.0	100% on
EP-29	12:22	2.0	156	14	0.0	100% on
EP-30	12:20	-1.7	158	14	0.0	100% on
EP-31	12:23	-1.5	183	16	0.0	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

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Notes:

Target - 300 - changes made

1

TAP' E C-2
SUB-SLAB VAPOR CONTROL S TEM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/1/08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm$_v$)
ZONE 1			
SV301	10 53	- 0.0	4.4
SV302	10 44	- .08	4.2
SV303	10 59	- .13	0.0
SV304	10 17	- .31	0.0
SV305	12 08	- .39	0.1
~~SV308~~	11 29	- .004	0.0
SV309	11 41	- .20	0.0
SV311	11 57	- 1.4	0.0
SV313	11 57	- .06	1.9
SV314	12 11	- .29	0.0
SV315	12 15	- .30	0.0
SV316	11 45	- .18	0.0

Notes: Mini Rae - 110-011748

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm$_v$)
ZONE 1 - PET AREA A			
VP-17.5A	12 06 ~~10 27~~	-.11 ~~.93~~	0.0
VP-25A	11 51 ~~10 46~~	-.33 ~~-.21~~	1.8 ~~22.4~~
VP-30A	11 42	- .74	0.0
VP-35A		Lost	
ZONE 1 - PET AREA B			
~~VP-7.5B~~	10 24	- .93	0.0
VP-15B	10 22	- .33	0.0
VP-25B	10 26	- .26	49.5
VP-32.5B	10 46	- .21	22.4
VP-40B	10 36	- .28	0.0
ZONE 2			
SV307		-0.0	4.0
SV310	11 22	- .16	0.0
SV312	11 12	- .001	0.3
ZONE 3 (as needed)			
SV306	11 37	- 0.0	0.0
SV317	11 15	- 0.0	0.0

2nd round

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD Date: 10/1/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 1 Inlet	1545	-8.0	5160	253	4.6	
SSDS Blower 1 Outlet		+ 4.4	4164	200	9.0	
SSDS Enclosure 1						
Ambient						

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	17.5	8	

SSDS Blower 1 Dilution (% open)	ON / OFF		Blower Runtime (Hours)	—

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-1	1420		465	41	2.9	100% open
EP-2	1417		449	39	3.0	100% on
EP-3	1423		537	47	1.4	100% on
EP-4	1425		540	47	0.0	50% on
EP-5	1415		585	51	12.7	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) 225

Notes: After adjustments *- OPENED EP-5 100%
- COLLECTED Readings

NOTE:
- No Changes MADE TO SSDS-3 EP's
- No Changes MADE TO SSDS-2 EP's

2nd Round

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: WGD Date: 10/1/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 4 Inlet	1555	6	3804	187	2.7	
SSDS Blower 4 Outlet		+ 4.4	7850	171	3.9	
SSDS Enclosure 4						
Ambient						

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	15	6	

SSDS Blower 4 Dilution (% open)	ON / OFF		Blower Runtime (Hours)	—

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
EP-16	1500		420	37	0.4	100% on
EP-17	1506		443	39	2.0	25% on
EP-18	1521		300	26	4.1	100% on
EP-19	1510		390	34	0.2	0%
EP-20	1515		450	39	1.3	25% on
EP-21	1519		404	35	1.6	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) 210

Notes: After adjustments

- Target Flow/Well approx 380
- Valved EP-17, EP-19, EP-20

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

2ND ROUND

Operator: WCD Date: 10/1/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-C)
SSDS Blower 5 Inlet	1535	-6	4501	221	4.1	
SSDS Blower 5 Outlet	"	+4.6	8907	194	4.9	
SSDS Enclosure 5	"					
Ambient	"					

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	16	6	

SSDS Blower 5 Dilution (% open)	ON / OFF		Blower Runtime (Hours)	—

SSDS Blower Timer Settings	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 2 SSDS			
EP-22 (Located in SSDS No. 2)	—	—	—	—	—	—
EP-23	1445		361	31	15.1	100% on
EP-24	1443		357	31	11.1	10% open
EP-25	1440		448	39	12.8	100% open
EP-26	1453		331 ~~352~~	29	6.2	100% on
EP-27	1438		~~352~~	31	5.2	10% open
EP-28	1436		351	31	7.0	10% open
EP-29 1430	~~1449~~		~~333~~ 301	18	0.0	100% open
EP-30	1449		333	29	13.7	100% open
EP-31	1451		337	29	8.2	100% on

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity) 268

Notes: After changes

Valved EP-24, EP-27, EP-28

Target 300 fpm

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: ~~10/9/08~~ WCD Date: 10/9/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 1 Inlet	1330	- 7.5	5247	257.63	4.2	74.8°
SSDS Blower 1 Outlet	"	+ 4.6	9904	215.91	4.2	106°
SSDS Enclosure 1	"				0.0	62/110

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

Sample Time - 1330
St vac - 30
End vac - 5

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	7.5	17	

SSDS Blower 1 Dilution (% open)	ON / OFF	—	Blower Runtime (Hours)	408.9

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
EP-1	1530	-2.7	430	37.50	4.6	100% on
EP-2	1527	-3.35	325	28.34	2.5	100% on
EP-3	1537	-2.1	507	44.21	3.1	100% on
EP-4	1539	-1.0	565	49.27	1.2	~~96~~ 50%
EP-5	1535	-3.1	579	50.49	10.2	100% on

Total Flow 209.81 (as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/9/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 2 Inlet	13^{29}	7	4920	244.52	2.9	74.6
SSDS Blower 2 Outlet	"	+5.6	8499	185.28	2.9	107°
SSDS Enclosure 2	"				0.0	48/98

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

Sample Time 1340
Stvac - 30.0
End vac - 5.0

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	7	16.5	

SSDS Blower 2 Dilution (% open)	ON / OFF	—	Blower Runtime (Hours)	407.4

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-6	15^{20}	2.7	0.0	0.0	5.9	100% on
EP-7	15^{17}	2.5	351	30.61	0.9	100% on
EP-8	15^{09}	-1.0	854	74.47	0.8	100% on
EP-9	15^{06}	-1.6	306	26.68	1.3	100% on
EP-10	15^{03}	-1.6	560	48.83	0.9	100% on
EP-11	14^{59}	-1.6	287	25.03	1.1	100% on
ZONE 2 SSDS						
EP-22	15^{43}	2.1	312	27.21	0.5	100% on
			Total Flow	232.83	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: Checked 3 Times (Freshly sealed cracks)

3.85
1.5
2.4

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD Date: 10/9/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 3 Inlet	1022	-12	5815	285.52	5.3	25.1
SSDS Blower 3 Outlet	"	+3.7	8571	186.85	5.4	104.
SSDS Enclosure 3	"				0.0	59/83

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

Sample Time 1230
st - 30.
cnda - 5

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	12	21	

SSDS Blower 3 Dilution (% open)	ON / OFF	—	Blower Runtime (Hours)	4.05.8

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
VES-109	1455	-9.0	409	35.66	18.1	100% on
EP-12	1450	-3.5	706	61.56	0.7	100% on
EP-13	1446	-6.5	647	56.42	0.5	100% on
EP-14	1351	-6.5	626	54.859	15.2	100% on
EP-15	1444	-8.0	700	61.04	0.4	100% on
				Total Flow 269.27		(as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/9/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 4 Inlet	12:10	- 7.0	4745	232.98	0.4	74.2
SSDS Blower 4 Outlet	"	+ 4.5	9306	202.74	0.4	103°
SSDS Enclosure 4	"				0.0	63/75

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity) Sample Time – 12:00
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	- 7.0	- 16	

SSDS Blower 4 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	405.3

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-16	15:10	- 2.6	653	56.94	7.8	100% on
EP-17	14:40	-.29	490	42.73	0.3	40% on
EP-18	15:49	-1.5	512	44.65	0.7	100% on
EP-19	14:24	- 2.5	404	35.23	0.9	100% on
EP-20	14:26	-1.4	580	50.58	0.2	40% on
EP-21	14:38	-3.5	274	23.89	0.4	100% on
			Total Flow	254.02	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator: WCN **Date:** 10/9/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 5 Inlet	12:44	-6	5321	261.26	1.2	74.7
SSDS Blower 5 Outlet	"	+4.8	9085	198.05	1.2	111°
SSDS Enclosure 5	"				0.0	59/63
Ambient	"				0.0	59/63

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-6	-16	

SSDS Blower 5 Dilution (% open)	ON (OFF)	—		Blower Runtime (Hours)	406.1
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 2 SSDS			
EP-22 (Located in SSDS No. 2)	13:43	-2.4	388	33.83	1.1	100 on on
EP-23	15:33	-.52	335	29.21	0.8	100% on
EP-24	14:13	-.51	349	30.43	12.3	100% on
EP-25	14:06	-0.95	544	47.44	3.6	100% on
EP-26	13:56	-0.5	345	30.08	1.6	50% on
EP-27	14:08	-0.65	369	32.18	0.5	30% open
EP-28	13:59	-0.5	363	31.65	0.5	40% open
EP-29	~~14:14~~ 14:00	~~2.1~~ -2.0	212	18.49	0.0	100% on
EP-30	14:32	-2.1	325	28.34	0.4	100% on
EP-31	14:34	-1.2	361	31.48	0.9	100% on
			Total Flow	313.13	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL S EM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/9/08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301	1532	-0.0	4.3
SV302 (aka. VP-20B)	1523	-.10	1.9
SV303	1541	-.01	1.6
SV304	1505	-.27	0.4
SV305	1541	-0.0	
SV308	1457	-.02	3.3
SV309	1500	-.21	0.0
SV311	1442	-4.2	0.1
SV313	1552	-.05	2.4
SV314	1428	-.14	0.4
SV315	1439	-.36	0.3
SV316	1448	-.14	0.4

Notes: * The lame attempt at sealing the cracks is not working. There is still noticeable air leaking from all previous locations.

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	1555	-1.0	0.0
VP-25A	1452	.32	0.4
VP-30A	1445	0.64	0.3
VP-35A (Destroyed)	—	—	—
ZONE 1 - PET AREA B			
VP-7.5B	1514	-1.8	1.9
VP-15B	1515	-.32	0.7
VP-25B	1521	.29	1.2
VP-32.5B	1512	-.26	4.8
VP-40B	1516	-.28	0.5
ZONE 2			
SV307	1558	-0.0	4.7
SV310	1403	.10	0.6
SV312	1419	.001	1.9
ZONE 3 (as needed)			
SV306	1600	-0.0	0.1
SV317	1421	-0.0	0.4

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/16/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 1 Inlet	16[12]	-15.5	4830	237.15	19.4	75.9
SSDS Blower 1 Outlet	"	+4.1	9190	200.34	19.7	111.
SSDS Enclosure 1	"				0.0	42/105

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	15.5	24.5	

SSDS Blower 1 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	480.6

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
L EP-1	~~12~~ 07 12[09]	~~10~~ 7.5	~~492~~ 614	53.54	8.5	100% on
EP-2	12[07]	10.0	492	42.90	6.4	100% on
EP-3	12[20]	10.0	940	81.97	17.1	100% on ~~50~~
EP-4	12[25]	10.0	516	45.00	22.1	50% on
EP-5	11[42]	10.0	978	85.26	2.7	100% on ~~50~~
				Total Flow	308.67	(as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: (L) Leaker.
Lowered EP-3 + EP5 to 50%.

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: WCO **Date:** 10/16/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 2 Inlet	16^{20}	-15	5320	261.21	14.1	76.9
SSDS Blower 2 Outlet	"	+4.5	8820	192.28	14.2	110.0°
SSDS Enclosure 2	"				0.0	41/105

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * $(3/12)^2$ / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * $(2/12)^2$ / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	15	24	

SSDS Blower 2 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	478.9 ~~477.8~~
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

	Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
				ZONE 1 SSDS			
L	EP-6	11^{58}	-10.5	501	43.69	65.0	100% on
	EP-7	11^{56}	-10.5	556	48.48	1.3	100% on
L	EP-8	11^{46}	-9.5	602	52.49	37.4	100% on
	EP-9	11^{30}	-9.0	434	37.85	5.4	100% on
L	EP-10	11^{40}	-10.0	605	52.76	5.2	100% on
	EP-11	12^{39}	-9.5	474	41.33	5.1	100% on
				ZONE 2 SSDS			
L	EP-22	13^{32}	-10.0	469	40.89	0.8	100% on

Zone 1 Total Flow 276.60 (as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * $(4/12)^2$ / 4 * Velocity)

Notes: There are still some legs leaking @ the seams (L).

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/16/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 3 Inlet	1540	-28	4750	233.23	7.7	76.8
SSDS Blower 3 Outlet	1540	+2.8	8415	183.45	7.9	116.0
SSDS Enclosure 3	"				0.0	40/90

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	28	42	

SSDS Blower 3 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	477.5
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
VES-109	1244	23	830	72.38	12.5	100% on
L EP-12	1250	18	1234	107.61	4.0	100% on ↓50%
EP-13	1252	21.5	781	68.10	4.9	100% on
EP-14	1243	19.0	890	77.61	20.0	100% on
EP-15	1257	21.0	856	74.64	7.9	100% on
			Total Flow	400.34	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: (L) Leaker

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/16/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 4 Inlet	15^{55}	- 11.0	~~44.60~~ 4460	218.99	2.4	72.8
SSDS Blower 4 Outlet	"	+ 4.3	8893	193.87	2.5	108.
SSDS Enclosure 4	"				0.0	47/60

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	11.0	20.0	

SSDS Blower 4 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	477.1

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
EP-16	15^{28}	5.7	546	47.61	2.1	100% on
EP-17	15^{21}	3.6	491	42.82	3.4	50%
EP-18	15^{04}	4.5	590	51.45	0.9	100% on
EP-19	13^{00}	6.5	429	37.41	3.8	100% on
EP-20	13^{05}	5.0	520	45.34	1.0	40% on
EP-21	14^{20}	3.7	395	34.44	1.2	100% on
			Total Flow	259.07	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator:_____ **Date:**_____

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 5 Inlet	1602	- 8.0	5430	266.61	3.4	77.8
SSDS Blower 5 Outlet	"	+ 4.6	9540	207.97	3.6	110°
SSDS Enclosure 5	"					
Ambient	"				0.0	60/74

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * $(3/12)^2$ / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * $(2/12)^2$ / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	8.0	18	—

SSDS Blower 5 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	477.8

SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 2 SSDS						
EP-22 (Located in SSDS No. 2)	1332	-10	469	40.89	0.8	100% on
EP-23	1216	-1.6	363	31.65	1.7	100% on
EP-24	1227	-1.6	336	29.30	6.1	40% on
EP-25	1230	-2.5	516	44.45	7.3	100% on
EP-26	1236	-3.2	0.0	0.0	1.3	40% on ↑
EP-27	1229	-1.8	364	31.74	1.1	50% on
EP-28	1232	-3.7	250	21.80	2.8	25% on
EP-29	1422	-4.5	337	29.39	0.5	100% on
EP-30	1310	-4.5	297	25.90	0.7	100% on
EP-31	1314	-3.8	324	28.25	1.3	100% on
				Total Flow 283.88		(as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: Raise flow on EP26 - still no flow! (No changes to other points after change)

TABLE C-2
SUB-SLAB VAPOR CONTROL S EM OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: WCD **Date:** 10/16/08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301	12 11	0.0	2.2
SV302 (aka. VP-20B)	12 00	.50	5.5
SV303	12 32	.62	2.2
SV304	11 32	2.5	~~0.05~~ 0.5
SV305	13 28	.10	0.6
SV308	12 42	.13	1.2
SV309	13 24	1.5	1.1
SV311	12 55	12.0	0.7
SV313	13 07	.10	0.3
SV314	13 40	0.9	0.5
SV315	13 16	1.2	0.5
SV316	12 48	2.6	0.7

Notes:

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	~~12 47~~ 13 03	~~2.0~~ .66	~~4.4~~ 1.4
VP-25A	12 47	2.0	4.4
VP-30A	12 53	1.2	1.4
VP-35A (Destroyed)	-	-	-
ZONE 1 - PET AREA B			
VP-7.5B	11 50	-7.5	1.2
VP-15B	11 52	-2.8	0.8
VP-25B	12 02	-1.5	4.5
VP-32.5B	11 48	-1.6	4.6
VP-40B	11 54	-1.4	0.5
ZONE 2			
SV307	12 24	0.0	1.1
SV310	12 35	1.3	6.9
SV312	12 57	.01	0.2
ZONE 3 (as needed)			
SV306	13 37	0.0	1.1
SV317	13 00	0.0	0.0

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

(After changes)

Operator: WCD **Date:** 10/16/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 1 Inlet	16^{31}	-15.5	4720	231.75	18.7	—
SSDS Blower 1 Outlet	"	+4.1	9009	196.40	18.8	—
SSDS Enclosure 1	"				0.0	—

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	-15.5	-24.5	

SSDS Blower 1 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	—
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-1	16^{37}	7.8	626	54.58	8.9	100% on
EP-2	16^{34}	10.1	511	44.56	7.1	100% on
EP-3	16^{30}	9.6	690	60.17	14.8	50%
EP-4	16^{32}	10.0	579	50.49	22.7	100% on
EP-5	16^{28}	9.4	699	60.95	2.4	50%
			Total Flow	270.75	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: EP 3+5 lowered to +/- 50%

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

(After changes)

Operator: WCD **Date:** 10/10/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 3 Inlet	16^{59}	-28	4369	214.52	9.9	—
SSDS Blower 3 Outlet	"	+2.8	8218	179.15	9.9	—
SSDS Enclosure 3	"				0.0	—

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	INLET	OUTLET	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	28	42	

SSDS Blower 3 Dilution (% open)	ON / OFF	—		Blower Runtime (Hours)	—
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
ZONE 1 SSDS						
VES-109	16^{47}	22.8	846	73.77	12.9	100% on
EP-12	16^{42}	16.5	927	80.83	3.3	50%
EP-13	16^{49}	21.8	822	71.68	5.6	100% on
EP-14	16^{51}	19.3	931	81.18	21.6	100% on
EP-15	16^{53}	21.3	900	78.48	8.8	100% on
				Total Flow	385.94	(as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes:

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 1
15 Old Newtown Road, Danbury, Connecticut

Operator: D. Pascale Date: 11/4/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 1 Inlet	1500	- 14	3780	185.60	11.7	69.2
SSDS Blower 1 Outlet		+ 4.4	8653	188.64	11.9	104
SSDS Enclosure 1					0.0	51/63

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * $(3/12)^2$ / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * $(2/12)^2$ / 4 * Velocity)

	Pre-Filter	Post Filter	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	14	22	

SSDS Blower 1 Dilution (% open)	ON / OFF			Blower Runtime (Hours)	1176.4
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	-

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
EP-1	1150	- 7.5	714	62.26	4.0	100% on
EP-2	1147	- 9.5	497	43.34	8.1	100% on
EP-3	1156	- 6.0	817	71.24	5.2	60% on
EP-4	1102	- 2.0	507	43.95	23.0	100% on
EP-5	1122	- 9.5	717	62.52	22.2	50%
			Total Flow	283.31	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * $(4/12)^2$ / 4 * Velocity)

Notes: * No leaks detected
* No Changes

* Changes will be made on next round after sealed areas have settled.

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 2
15 Old Newtown Road, Danbury, Connecticut

Operator: DePascale Date: 11/14/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm$_v$)	Temp (deg-F)
SSDS Blower 2 Inlet	13"	-19	4240	208.	17.7	69.3
SSDS Blower 2 Outlet		+4.4	8115	177.	17.8	110
SSDS Enclosure 2					0.0	40/77

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	Pre-Filter	Post Filter	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	19	28	

SSDS Blower 2 Dilution (% open)	ON / OFF			Blower Runtime (Hours)	1174.8
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	—

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm$_v$)	Status (% ON or OFF)
ZONE 1 SSDS						
EP-6	11:41	-15.0	613	53.45	10.7	100% on
EP-7	11:38	-14.0	417	36.36	8.0	100% on
EP-8	11:18	-14.5	617	53.80	46.0	100% on
EP-9	11:14	-14.0	640	55.81	2.6	100% on
EP-10	11:10	-13.5	587	51.19	22.5	100% on
EP-11	13:05	-13	590	51.45	.09	100% on
ZONE 2 SSDS						
EP-22						
				Total Flow	302.06	(as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: * No leaks detected
* No changes

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 3
15 Old Newtown Road, Danbury, Connecticut

Operator: Delascale Date: 11/14/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 3 Inlet	1342	-24	4021	197.43	3.1	66.7
SSDS Blower 3 Outlet		+ 3.2	8470	184.65	3.1	106
SSDS Enclosure 3					0.0	40/89

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	Pre-Filter	Post Filter	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	24	35	

SSDS Blower 3 Dilution (% open)	ON / OFF			Blower Runtime (Hours)	1173.5
SSDS Blower Timer Settings	ON / OFF	List Days ON		Hours per day ON	—

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
VES-109	1225	-23.0	822.	71.68	3.6	100% on
EP-12	1228	-14.0	674	58.77	2.1	50%
EP-13	1233	-21.0	804	70.11	1.1	100% on
EP-14	1231	-18.0	724	63.13	6.3	100% on
EP-15	1240	-21.0	718	62.61	2.2	100% on
			Total Flow	326.30	(as a check compare to SSDS Inlet flow)	

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: * No leaks detected
* No Changes made

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 1 - SSDS ENCLOSURE No. 4
15 Old Newtown Road, Danbury, Connecticut

Operator: D. Pascale Date: 11/14/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 4 Inlet	1332	10	4506	221.24	1.3	63.4
SSDS Blower 4 Outlet		4.4	8299	180.92	1.4	108
SSDS Enclosure 4					0.0	45/80

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * (3/12)^2 / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * (2/12)^2 / 4 * Velocity)

	Pre-Filter	Post Filter	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	10	18.5	

SSDS Blower 4 Dilution (% open)	~~ON~~ / OFF			Blower Runtime (Hours)	1173
SSDS Blower Timer Settings	ON / ~~OFF~~	List Days ON		Hours per day ON	—

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 1 SSDS			
EP-16	1314	-3.6	346	30.17	1.0	100% on
EP-17	1312	-2.5	442	38.54	1.7	50% on
EP-18	1251	-3.5	507	44.21	0.7	100% on
EP-19	1243	~~-4.9~~ -5.2	419	36.54	1.4	100% on
EP-20	1252	-3.7	550	47.96	0.6	50%
EP-21	1310	6.0	340	29.65	1.2	100%
			Total Flow	227.07		(as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: * No leaks
* No changes

TABLE C-2
SUB-SLAB VAPOR CONTROL SYSTEM OM&M SYSTEM CHECKLIST
ZONE 2 - SSDS ENCLOSURE No. 5
15 Old Newtown Road, Danbury, Connecticut

Operator: DePascale Date: 11/14/08

Location	Time	Vacuum / Pressure (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [*] (scf/min)	TVOC-PID Concentration (ppm_v)	Temp (deg-F)
SSDS Blower 5 Inlet	1351	-7	4890	240.10	0.9	70.1
SSDS Blower 5 Outlet		+4.6	8803	191.91	0.9	111.
SSDS Enclosure 5					0.0	45/62
Ambient					—	~~45/62~~

* To calculate the SSDS Blower inlet flowrate (3-inch pipe) multiply the measured velocity by 0.0491 (Q = 3.14 * $(3/12)^2$ / 4 * Velocity)
* To calculate the SSDS Blower outlet flowrate (2-inch pipe) multiply the measure velocity by 0.0218 (Q = 3.14 * $(2/12)^2$ / 4 * Velocity)

	Pre-Filter	Post Filter	dP (inlet - outlet)
Particulate Filter Differential Pressure (in-W.C.)	7	14	

SSDS Blower 5 Dilution (% open)	ON / OFF		Blower Runtime (Hours)	1173.8
SSDS Blower Timer Settings	ON / OFF	List Days ON	Hours per day ON	—

Extraction Point ID	Time	Vacuum (in-W.C.)	Measured Velocity (ft/min)	SSDS Flowrate [**] (scf/min)	TVOC-PID Concentration (ppm_v)	Status (% ON or OFF)
			ZONE 2 SSDS			
EP-22 (Located in SSDS No. 2)	1308	-13	540 ~~590~~	47.09	.09	100% on
EP-23	1156	-.61	354	30.87	1.8	100% on
EP-24	1206	-.47	299	26.07	4.9	30% on
EP-25	1215	-2.5	534	46.57	1.4	100% on
EP-26	1218	-1.0	326	28.43	0.5	40% on
EP-27	1209	-.78	359	31.31	0.8	30% on
EP-28	1216	-1.0	339	29.57	0.7	40% on
EP-29	1330	-3.6	206	17.96	1.1	100% on
EP-30	1254	-3.2	311	27.12	0.9	100% on
EP-31	1300	-2.9	255	22.24	1.2	100% on

Total Flow 307.23 (as a check compare to SSDS Inlet flow)

** To calculate the SSDS flowrate (4-inch pipe) multiply the measured velocity by 0.0872 (Q = 3.14 * (4/12)^2 / 4 * Velocity)

Notes: * No leaks
* No changes

TABLE C-2
SUB-SLAB VAPOR CONTROL SY[illegible]M OM&M SYSTEM CHECKLIST
VAPOR PROBES
15 Old Newtown Road, Danbury, Connecticut

Operator: DePascale

Date: 11/14/08

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1			
SV301		0.0	3.2
SV302 (aka. VP-20B)	11:44	-.70	2.5
SV303	12:00	-.73	1.0
SV304	11:12	-4.2	2.2
SV305	13:18	.001	2.0
SV308	12:23	-.08	2.1
SV309	13:14	-.72	1.0
SV311	12:36	-14.5	0.5
SV313	14:02	.21	0.5
SV314	12:56	-.50	.03
SV315	13:04	-.56	.07
SV316	12:20	-1.3	1.0

Vapor Probe ID	Time	Vacuum (in-W.C.)	TVOC-PID Concentration (ppm_v)
ZONE 1 - PET AREA A			
VP-17.5A	12:48	-1.6	1.0
VP-25A	12:31	-.84	0.9
VP-30A	12:35	-0.9	0.8
VP-35A (Destroyed)			
ZONE 1 - PET AREA B			
VP-7.5B	11:34	-11.0	1.3
VP-15B	11:27	-4.7	0.9
VP-25B	11:45	-2.0	1.2
VP-32.5B	11:22	-2.4	3.5
VP-40B	11:30	-1.7	0.5
ZONE 2			
SV307	14:00	0.0	1.0
SV310	13:58	1.4	1.1
SV312	13:56	.02	0.0
ZONE 3 (as needed)			
SV306	13:22	0.0	1.4
SV317	13:18	0.0	1.6

Notes:

APPENDIX E: BLOWER DISCHARGE ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L0815101
Client:	Woodard & Curran 95 Cedar Street Suite 100 Providence, RI 02903
ATTN:	Shannon Daigle
Project Name:	RISDON
Project Number:	97001.00/14
Report Date:	10/24/08

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

Alpha Sample ID	Client ID	Sample Location
L0815101-01	BLOWER 1 EFF	DANBURY, CT
L0815101-02	BLOWER 2 EFF	DANBURY, CT
L0815101-03	BLOWER 3 EFF	DANBURY, CT
L0815101-04	BLOWER 4 EFF	DANBURY, CT
L0815101-05	BLOWER 5 EFF	DANBURY, CT

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

CT DEP Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

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

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

Project Name: RISDON **Lab Number:** L0815101
Project Number: 97001.00/14 **Report Date:** 10/24/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

CT-RCP Related Narratives
All RCP required questions were answered with affirmative responses, therefore, there are no relevant data issues to discuss.

L0815101-01 through -03 have elevated detection limits due to the 25x dilution required by the elevated concentrations of target compounds in the sample.
L0815101-04 and WG341026-4 required re-analysis on a 5x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.
L0815101-05 has elevated detection limits due to the 10x dilution required by the elevated concentrations of

Project Name:	RISDON	**Lab Number:**	L0815101
Project Number:	97001.00/14	**Report Date:**	10/24/08

Case Narrative (continued)

target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 10/24/08

AIR

Project Name: RISDON
Project Number: 97001.00/14
Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-01
Client ID: BLOWER 1 EFF
Sample Location: DANBURY, CT
Matrix: Air
Anaytical Method: 79,TO-15
Analytical Date: 10/22/08 14:39
Analyst: RY

Date Collected: 10/09/08 13:30
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
1,1,1-Trichloroethane	64.5	5.00	352	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	9.56	5.00	38.6	20.2		25
1,1-Dichloroethene	29.3	5.00	116	19.8		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	ND	12.5	ND	36.8		25
Acetone	ND	50.0	ND	119		25
Benzene	ND	5.00	ND	16.0		25
Bromodichloromethane	ND	5.00	ND	33.5		25
Bromoform	ND	5.00	ND	51.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	ND	5.00	ND	13.2		25
Chloroform	ND	5.00	ND	24.4		25
Chloromethane	ND	5.00	ND	10.3		25
cis-1,2-Dichloroethene	509	5.00	2020	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-01
Client ID: BLOWER 1 EFF
Sample Location: DANBURY, CT

Date Collected: 10/09/08 13:30
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
Dibromochloromethane	ND	5.00	ND	42.6		25
Dichlorodifluoromethane	ND	5.00	ND	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Methylene chloride	ND	12.5	ND	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
4-Methyl-2-pentanone	ND	12.5	ND	51.2		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
Styrene	ND	12.5	ND	53.2		25
Tetrachloroethene	47.1	5.00	319	33.9		25
Toluene	ND	5.00	ND	18.8		25
trans-1,2-Dichloroethene	6.72	5.00	26.6	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	2030	5.00	10900	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	52.2	5.00	133	12.8		25
Acrylonitrile	ND	12.5	ND	27.1		25
1,1,1,2-Tetrachloroethane	ND	5.00	ND	34.3		25
Isopropylbenzene	ND	12.5	ND	61.4		25
n-Butylbenzene	ND	12.5	ND	68.6		25
sec-Butylbenzene	ND	12.5	ND	68.6		25
p-Isopropyltoluene	ND	12.5	ND	68.6		25
Freon-113	ND	5.00	ND	38.3		25

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-02
Client ID: BLOWER 2 EFF
Sample Location: DANBURY, CT
Matrix: Air
Anaytical Method: 79,TO-15
Analytical Date: 10/22/08 15:12
Analyst: RY

Date Collected: 10/09/08 13:40
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
1,1,1-Trichloroethane	99.9	5.00	544	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	ND	5.00	ND	20.2		25
1,1-Dichloroethene	18.7	5.00	74.0	19.8		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	ND	12.5	ND	36.8		25
Acetone	ND	50.0	ND	119		25
Benzene	ND	5.00	ND	16.0		25
Bromodichloromethane	ND	5.00	ND	33.5		25
Bromoform	ND	5.00	ND	51.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	ND	5.00	ND	13.2		25
Chloroform	ND	5.00	ND	24.4		25
Chloromethane	ND	5.00	ND	10.3		25
cis-1,2-Dichloroethene	68.4	5.00	271	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-02
Client ID: BLOWER 2 EFF
Sample Location: DANBURY, CT

Date Collected: 10/09/08 13:40
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
Dibromochloromethane	ND	5.00	ND	42.6		25
Dichlorodifluoromethane	ND	5.00	ND	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Methylene chloride	ND	12.5	ND	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
4-Methyl-2-pentanone	ND	12.5	ND	51.2		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
Styrene	ND	12.5	ND	53.2		25
Tetrachloroethene	116	5.00	790	33.9		25
Toluene	ND	5.00	ND	18.8		25
trans-1,2-Dichloroethene	ND	5.00	ND	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	1500	5.00	8050	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	ND	5.00	ND	12.8		25
Acrylonitrile	ND	12.5	ND	27.1		25
1,1,1,2-Tetrachloroethane	ND	5.00	ND	34.3		25
Isopropylbenzene	ND	12.5	ND	61.4		25
n-Butylbenzene	ND	12.5	ND	68.6		25
sec-Butylbenzene	ND	12.5	ND	68.6		25
p-Isopropyltoluene	ND	12.5	ND	68.6		25
Freon-113	ND	5.00	ND	38.3		25

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-03
Client ID: BLOWER 3 EFF
Sample Location: DANBURY, CT
Matrix: Air
Anaytical Method: 79,TO-15
Analytical Date: 10/22/08 15:45
Analyst: RY

Date Collected: 10/09/08 12:30
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
1,1,1-Trichloroethane	324	5.00	1760	27.2		25
1,1,2,2-Tetrachloroethane	ND	5.00	ND	34.3		25
1,1,2-Trichloroethane	ND	5.00	ND	27.2		25
1,1-Dichloroethane	18.2	5.00	73.4	20.2		25
1,1-Dichloroethene	66.0	5.00	262	19.8		25
1,2,4-Trimethylbenzene	ND	5.00	ND	24.6		25
1,2-Dibromoethane	ND	5.00	ND	38.4		25
1,2-Dichlorobenzene	ND	5.00	ND	30.0		25
1,2-Dichloroethane	ND	5.00	ND	20.2		25
1,2-Dichloropropane	ND	5.00	ND	23.1		25
1,3,5-Trimethybenzene	ND	5.00	ND	24.6		25
1,3-Dichlorobenzene	ND	5.00	ND	30.0		25
1,4-Dichlorobenzene	ND	5.00	ND	30.0		25
2-Butanone	ND	12.5	ND	36.8		25
Acetone	ND	50.0	ND	119		25
Benzene	ND	5.00	ND	16.0		25
Bromodichloromethane	ND	5.00	ND	33.5		25
Bromoform	ND	5.00	ND	51.6		25
Carbon tetrachloride	ND	5.00	ND	31.4		25
Chlorobenzene	ND	5.00	ND	23.0		25
Chloroethane	ND	5.00	ND	13.2		25
Chloroform	ND	5.00	ND	24.4		25
Chloromethane	ND	5.00	ND	10.3		25
cis-1,2-Dichloroethene	135	5.00	534	19.8		25
cis-1,3-Dichloropropene	ND	5.00	ND	22.7		25

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-03
Client ID: BLOWER 3 EFF
Sample Location: DANBURY, CT

Date Collected: 10/09/08 12:30
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
Dibromochloromethane	ND	5.00	ND	42.6		25
Dichlorodifluoromethane	ND	5.00	ND	24.7		25
Ethylbenzene	ND	5.00	ND	21.7		25
Methylene chloride	ND	12.5	ND	43.4		25
Methyl tert butyl ether	ND	5.00	ND	18.0		25
4-Methyl-2-pentanone	ND	12.5	ND	51.2		25
p/m-Xylene	ND	10.0	ND	43.4		25
o-Xylene	ND	5.00	ND	21.7		25
Styrene	ND	12.5	ND	53.2		25
Tetrachloroethene	2000	5.00	13500	33.9		25
Toluene	ND	5.00	ND	18.8		25
trans-1,2-Dichloroethene	ND	5.00	ND	19.8		25
trans-1,3-Dichloropropene	ND	5.00	ND	22.7		25
Trichloroethene	1450	5.00	7790	26.8		25
Trichlorofluoromethane	ND	5.00	ND	28.1		25
Vinyl chloride	ND	5.00	ND	12.8		25
Acrylonitrile	ND	12.5	ND	27.1		25
1,1,1,2-Tetrachloroethane	ND	5.00	ND	34.3		25
Isopropylbenzene	ND	12.5	ND	61.4		25
n-Butylbenzene	ND	12.5	ND	68.6		25
sec-Butylbenzene	ND	12.5	ND	68.6		25
p-Isopropyltoluene	ND	12.5	ND	68.6		25
Freon-113	13.2	5.00	101	38.3		25

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-04
Client ID: BLOWER 4 EFF
Sample Location: DANBURY, CT
Matrix: Air
Anaytical Method: 79,TO-15
Analytical Date: 10/22/08 16:20
Analyst: RY

Date Collected: 10/09/08 12:00
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
1,1,1-Trichloroethane	21.0	0.200	114	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	2.91	0.200	11.8	0.809		1
1,1-Dichloroethene	3.85	0.200	15.2	0.792		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	2.82	0.500	8.31	1.47		1
Acetone	11.0	2.00	26.2	4.75		1
Benzene	1.04	0.200	3.33	0.638		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	0.294	0.200	1.43	0.976		1
Chloromethane	0.498	0.200	1.03	0.413		1
cis-1,2-Dichloroethene	19.0	0.200	75.4	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-04
Client ID: BLOWER 4 EFF
Sample Location: DANBURY, CT

Date Collected: 10/09/08 12:00
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.538	0.200	2.66	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Methylene chloride	0.553	0.500	1.92	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	>100	0.2	>678	1.36		1
Toluene	0.669	0.200	2.52	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	76.8	0.200	412	1.07		1
Trichlorofluoromethane	0.261	0.200	1.47	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1
Acrylonitrile	ND	0.500	ND	1.08		1
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37		1
Isopropylbenzene	0.880	0.500	4.32	2.46		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Freon-113	4.67	0.200	35.8	1.53		1

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID:	L0815101-04 R	Date Collected:	10/09/08 12:00
Client ID:	BLOWER 4 EFF	Date Received:	10/10/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	79,TO-15		
Analytical Date:	10/22/08 23:31		
Analyst:	RY		

	ppbV		ug/m3			
Parameter	**Results**	**RDL**	**Results**	**RDL**	**Qualifier**	**Dilution Factor**
Air by CT RCP TO15						
Tetrachloroethene	108	1.00	732	6.78		5

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-05
Client ID: BLOWER 5 EFF
Sample Location: DANBURY, CT
Matrix: Air
Anaytical Method: 79,TO-15
Analytical Date: 10/22/08 17:26
Analyst: RY

Date Collected: 10/09/08 12:53
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
1,1,1-Trichloroethane	67.8	2.00	370	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	20.9	2.00	84.6	8.09		10
1,1-Dichloroethene	16.8	2.00	66.4	7.92		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
2-Butanone	ND	5.00	ND	14.7		10
Acetone	ND	20.0	ND	47.5		10
Benzene	ND	2.00	ND	6.38		10
Bromodichloromethane	ND	2.00	ND	13.4		10
Bromoform	ND	2.00	ND	20.6		10
Carbon tetrachloride	ND	2.00	ND	12.6		10
Chlorobenzene	ND	2.00	ND	9.20		10
Chloroethane	ND	2.00	ND	5.27		10
Chloroform	ND	2.00	ND	9.76		10
Chloromethane	ND	2.00	ND	4.13		10
cis-1,2-Dichloroethene	122	2.00	485	7.92		10
cis-1,3-Dichloropropene	ND	2.00	ND	9.07		10

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

SAMPLE RESULTS

Lab ID: L0815101-05
Client ID: BLOWER 5 EFF
Sample Location: DANBURY, CT

Date Collected: 10/09/08 12:53
Date Received: 10/10/08
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15						
Dibromochloromethane	ND	2.00	ND	17.0		10
Dichlorodifluoromethane	ND	2.00	ND	9.88		10
Ethylbenzene	ND	2.00	ND	8.68		10
Methylene chloride	ND	5.00	ND	17.4		10
Methyl tert butyl ether	ND	2.00	ND	7.20		10
4-Methyl-2-pentanone	ND	5.00	ND	20.5		10
p/m-Xylene	ND	4.00	ND	17.4		10
o-Xylene	ND	2.00	ND	8.68		10
Styrene	ND	5.00	ND	21.3		10
Tetrachloroethene	58.3	2.00	395	13.6		10
Toluene	ND	2.00	ND	7.53		10
trans-1,2-Dichloroethene	4.83	2.00	19.1	7.92		10
trans-1,3-Dichloropropene	ND	2.00	ND	9.07		10
Trichloroethene	678	2.00	3640	10.7		10
Trichlorofluoromethane	ND	2.00	ND	11.2		10
Vinyl chloride	2.89	2.00	7.37	5.11		10
Acrylonitrile	ND	5.00	ND	10.8		10
1,1,1,2-Tetrachloroethane	ND	2.00	ND	13.7		10
Isopropylbenzene	ND	5.00	ND	24.6		10
n-Butylbenzene	ND	5.00	ND	27.4		10
sec-Butylbenzene	ND	5.00	ND	27.4		10
p-Isopropyltoluene	ND	5.00	ND	27.4		10
Freon-113	3.25	2.00	24.9	15.3		10

Project Name: RISDON **Lab Number:** L0815101

Project Number: 97001.00/14 **Report Date:** 10/24/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 79,TO-15
Analytical Date: 10/22/08 13:28

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15 for sample(s): 01-05 Batch: WG341026-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethybenzene	ND	0.200	ND	0.982		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
2-Butanone	ND	0.500	ND	1.47		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.200	ND	0.638		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1

Project Name: RISDON **Lab Number:** L0815101

Project Number: 97001.00/14 **Report Date:** 10/24/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 79,TO-15
Analytical Date: 10/22/08 13:28

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Air by CT RCP TO15 for sample(s): 01-05 Batch: WG341026-3						
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
p/m-Xylene	ND	0.400	ND	1.74		1
o-Xylene	ND	0.200	ND	0.868		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl chloride	ND	0.200	ND	0.511		1
Acrylonitrile	ND	0.500	ND	1.08		1
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37		1
Isopropylbenzene	ND	0.500	ND	2.46		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Freon-113	ND	0.200	ND	1.53		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001.00/14
Lab Number: L0815101
Report Date: 10/24/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Air by CT RCP TO15 Associated sample(s): 01-05 Batch: WG341026-2					
1,1,1-Trichloroethane	106	-	80-120	-	
1,1,2,2-Tetrachloroethane	100	-	80-120	-	
1,1,2-Trichloroethane	107	-	80-120	-	
1,1-Dichloroethane	107	-	80-120	-	
1,1-Dichloroethene	97	-	80-120	-	
1,2,4-Trimethylbenzene	102	-	80-120	-	
1,2-Dibromoethane	100	-	80-120	-	
1,2-Dichlorobenzene	97	-	80-120	-	
1,2-Dichloroethane	110	-	80-120	-	
1,2-Dichloropropane	107	-	80-120	-	
1,3,5-Trimethylbenzene	98	-	80-120	-	
1,3-Dichlorobenzene	99	-	80-120	-	
1,4-Dichlorobenzene	100	-	80-120	-	
2-Butanone	106	-	80-120	-	
Acetone	99	-	80-120	-	
Benzene	104	-	80-120	-	
Bromodichloromethane	104	-	80-120	-	
Bromoform	105	-	80-120	-	
Carbon tetrachloride	100	-	80-120	-	
Chlorobenzene	106	-	80-120	-	
Chloroethane	101	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001.00/14
Lab Number: L0815101
Report Date: 10/24/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Air by CT RCP TO15 Associated sample(s): 01-05 Batch: WG341026-2					
Chloroform	105	-	80-120	-	
Chloromethane	100	-	80-120	-	
cis-1,2-Dichloroethene	105	-	80-120	-	
cis-1,3-Dichloropropene	95	-	80-120	-	
Dibromochloromethane	103	-	80-120	-	
Dichlorodifluoromethane	98	-	80-120	-	
Ethylbenzene	116	-	80-120	-	
Methylene chloride	89	-	80-120	-	
Methyl tert butyl ether	101	-	80-120	-	
4-Methyl-2-pentanone	102	-	80-120	-	
p/m-Xylene	107	-	80-120	-	
o-Xylene	111	-	80-120	-	
Styrene	104	-	80-120	-	
Tetrachloroethene	101	-	80-120	-	
Toluene	102	-	80-120	-	
trans-1,2-Dichloroethene	99	-	80-120	-	
trans-1,3-Dichloropropene	87	-	80-120	-	
Trichloroethene	103	-	80-120	-	
Trichlorofluoromethane	101	-	80-120	-	
Vinyl chloride	98	-	80-120	-	
Acrylonitrile	108	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001.00/14
Lab Number: L0815101
Report Date: 10/24/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Air by CT RCP TO15 Associated sample(s): 01-05 Batch: WG341026-2					
1,1,1,2-Tetrachloroethane	114	-	80-120	-	
Isopropylbenzene	109	-	80-120	-	
n-Butylbenzene	103	-	80-120	-	
sec-Butylbenzene	109	-	80-120	-	
p-Isopropyltoluene	102	-	80-120	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	99	-	80-120	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Air by CT RCP TO15 Associated sample(s): 01-05 QC Batch ID: WG341026-4 QC Sample: L0815101-04 Client ID: BLOWER 4 EFF					
1,1,1-Trichloroethane	21.0	20.5	ppbV	2	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	2.91	2.92	ppbV	0	25
1,1-Dichloroethene	3.85	3.86	ppbV	0	25
1,2,4-Trimethylbenzene	ND	0.203	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
2-Butanone	2.82	2.76	ppbV	2	25
Acetone	11.0	10.8	ppbV	2	25
Benzene	1.04	1.00	ppbV	4	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Air by CT RCP TO15 Associated sample(s): 01-05 QC Batch ID: WG341026-4 QC Sample: L0815101-04 Client ID: BLOWER 4 EFF					
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	0.294	0.299	ppbV	2	25
Chloromethane	0.498	0.500	ppbV	0	25
cis-1,2-Dichloroethene	19.0	19.0	ppbV	0	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.538	0.535	ppbV	1	25
Ethylbenzene	ND	ND	ppbV	NC	25
Methylene chloride	0.553	0.561	ppbV	1	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	>100	>100	ppbV	NC	25
Toluene	0.669	0.677	ppbV	1	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Air by CT RCP TO15 Associated sample(s): 01-05 QC Batch ID: WG341026-4 QC Sample: L0815101-04 Client ID: BLOWER 4 EFF					
Trichloroethene	76.8	76.5	ppbV	0	25
Trichlorofluoromethane	0.261	0.261	ppbV	0	25
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Isopropylbenzene	0.880	0.921	ppbV	5	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
Freon-113	4.67	4.75	ppbV	2	25
Air by CT RCP TO15 Associated sample(s): 01-05 QC Batch ID: WG341026-4 QC Sample: L0815101-04 Client ID: BLOWER 4 EFF					
Tetrachloroethene	108	123	ppbV	13	25

Project Name: RISDON **Lab Number:** L0815101

Project Number: 97001.00/14 **Report Date:** 10/24/08

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0815101-01	BLOWER 1 EFF	351	2.7L Can	I0813914	-29.5	-5.3	-	-	-
L0815101-02	BLOWER 2 EFF	237	2.7L Can	I0813914	-29.6	-7.1	-	-	-
L0815101-03	BLOWER 3 EFF	518	2.7L Can	I0813914	-29.6	-7.5	-	-	-
L0815101-04	BLOWER 4 EFF	469	2.7L Can	I0813914	-29.6	-5.6	-	-	-
L0815101-05	BLOWER 5 EFF	541	2.7L Can	I0813914	-29.6	-5.0	-	-	-

Project Name: RISDON
Project Number: 97001.00/14

Lab Number: L0815101
Report Date: 10/24/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0815101-01A	Canister - 2.7 Liter	N/A	NA		NA	Absent	CT-TO15(30)
L0815101-02A	Canister - 2.7 Liter	N/A	NA		NA	Absent	CT-TO15(30)
L0815101-03A	Canister - 2.7 Liter	N/A	NA		NA	Absent	CT-TO15(30)
L0815101-04A	Canister - 2.7 Liter	N/A	NA		NA	Absent	CT-TO15(30)
L0815101-05A	Canister - 2.7 Liter	N/A	NA		NA	Absent	CT-TO15(30)

*Hold days indicated by values in parentheses

Project Name:	RISDON	**Lab Number:**	L0815101
Project Number:	97001.00/14	**Report Date:**	10/24/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name:	RISDON	**Lab Number:**	L0815101
Project Number:	97001.00/14	**Report Date:**	10/24/08

REFERENCES

79 Connecticut DEP Quality Assurance and Quality Control Requirements for SW-846 Methods. CTDEP Reasonable Confidence Protocols (RCPs). Versions 2.0 and 3.0, July and December 2006.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — *CHAIN OF CUSTODY*

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0815701

Client Information

Client: Woodard + Curran
Address: 95 Cedar St Suite 100
Providence RI 02903
Phone: 401 273 1007
Fax: 401 273 5087
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Risdon
Project Location: Danbury CT
Project #: 97001.00 / 14
Project Manager: Shamon Daigle
ALPHA Quote #:

Turn-Around Time

☒ Standard (10 DAYS) ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
CT	RSRS	

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	~~TO-14A by TO-15~~ CT Ref TO-3 plus Fixed 113	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
15101 -1	Blower 1 EFF	10/9/08	1330	1330	30	5	A	WCD	1L	351		1							
-2	Blower 2 EFF		1340	1340	30	4.5	A	WCD	1L	237		1							
-3	Blower 3 EFF		1230	1230	30	5	A	WCD	1L	518		1							
-4	Blower 4 EFF		1200	1200	30	5	A	WCD	1L	461		1							
-5	Blower 5 EFF		1253	1253	30	5	A	WCD	1L	541		1							

Container Type: Sx

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Relinquished By:	Date/Time	Received By:	Date/Time:
ROP	10/10/08 1325		10/10/08 1325
	10/10	Paul Gilbert	10-10-08 17:30
Paul Gilbert	10-10-08 18:25		10/10/08 1825

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (rev.1-Feb-08)

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APPENDIX F: BLOWER DISCHARGE AIR EMISSIONS WORKSHEETS

CR USA Former Danbury Facility
SSDS Air Emissions Worksheet

Notes: *HLV = Hazard Limiting Value
**MASC = Maximum Allowable Stack Conc.

SSDS-1 EFFLUENT CONCENTRATION 10-9-08

	(PPBv)	Molecular Weight	Ave. Mass Flow Rate (lb/hr)	Ave. Conc. (ug/m3)	CT Air Regs Table 29-#	HLV* Tbl 29-1 (ug/m3)	MASC** (ug/m3)
1,1-DCE	29	97	0.00008	116	3	400	131,027
1,1-DCA	9	99	0.00003	38.6	3	8000	2,620,539
1,2-DCA	5	99	0.00001	20.2	1	20	6,551
1,1,1-TCA	64	133	0.00024	352	3	38000	12,447,558
1,1,2-TCA	5	133	0.00002	27.2	1	225	73,703
1,2-DCP	5	113	0.00002	23.1	NA		
TCE	2002	131	0.00756	10,900	1	1,350	442,216
PCE	46	166	0.00022	319	1	1,700	556,864
Vinyl Chloride	51	62.5	0.00009	133	1	50	16,378
Chloroform	5	119	0.00002	24.4	1	250	81,892
Methylene Chloride	12	84.9	0.00003	43.4	3	7000	2,292,971
1,2 DCE	501	97	0.00140	2,020	3	15800	5,175,564
Freon 113	5	187	0.00003	38.3	NA		
Benzene	5	78	0.00001	16	1	150	49,135
Ethylbenzene	5	106	0.00002	21.7	3	8700	2,849,836
Toluene	5	92.1	0.00001	18.8	3	7500	2,456,755
Xylene	10	106	0.00003	43.4	3	8680	2,843,284
Chlorobenzene	5	112.45	0.00002	23	3	7000	2,292,971
1,2,4-TMB	5	120	0.00002	24.6			
Total			0.00985				

Flow Rate	216 cfm	Total	0.0431	Tons/yr	OK, less than 15 Tons/yr
	0.1020 m3/s		0.0079	lb/hr for 29-1	
			0.0018	lb/hr for 29-3	

Cells that are shaded and left-justified were non-detect at the RDL listed

CR USA Former Danbury Facility
SSDS Air Emissions Worksheet

Notes: *HLV = Hazard Limiting Value
**MASC = Maximum Allowable Stack Conc.

SSDS-2 EFFLUENT CONCENTRATION 10-9-08

	(PPBv)	Molecular Weight	Ave. Mass Flow Rate (lb/hr)	Ave. Conc. (ug/m3)	CT Air Regs Table 29-#	HLV* Tbl 29-1 (ug/m3)	MASC** (ug/m3)
1,1-DCE	18	97	0.00005	74	3	400	131,027
1,1-DCA	5	99	0.00001	20.2	3	8000	2,620,539
1,2-DCA	5	99	0.00001	20.2	1	20	6,551
1,1,1-TCA	98	133	0.00038	544	3	38000	12,447,558
1,1,2-TCA	5	133	0.00002	27.2	1	225	73,703
1,2-DCP	5	113	0.00002	23.1	NA		
TCE	1478	131	0.00558	8,050	1	1,350	442,216
PCE	114	166	0.00055	790	1	1,700	556,864
Vinyl Chloride	5	62.5	0.00001	12.8	1	50	16,378
Chloroform	5	119	0.00002	24.4	1	250	81,892
Methylene Chloride	12	84.9	0.00003	43.4	3	7000	2,292,971
1,2 DCE	67	97	0.00019	271	3	15800	5,175,564
Freon 113	5	187	0.00003	38.3	NA		
Benzene	5	78	0.00001	16	1	150	49,135
Ethylbenzene	5	106	0.00002	21.7	3	8700	2,849,836
Toluene	5	92.1	0.00001	18.8	3	7500	2,456,755
Xylene	10	106	0.00003	43.4	3	8680	2,843,284
Chlorobenzene	5	112.45	0.00002	23	3	7000	2,292,971
1,2,4-TMB	5	120	0.00002	24.6			
Total			0.00700				

Flow Rate	185 cfm	Total	0.0306	Tons/yr	OK, less than 15 Tons/yr
	0.0873 m3/s		0.0062	lb/hr for 29-1	
			0.0007	lb/hr for 29-3	

Cells that are shaded and left-justified were non-detect at the RDL listed

CR USA Former Danbury Facility
SSDS Air Emissions Worksheet

Notes: *HLV = Hazard Limiting Value
**MASC = Maximum Allowable Stack Conc.

SSDS-3 EFFLUENT CONCENTRATION 10-9-08

	(PPBv)	Molecular Weight	Ave. Mass Flow Rate (lb/hr)	Ave. Conc. (ug/m3)	CT Air Regs Table 29-#	HLV* Tbl 29-1 (ug/m3)	MASC** (ug/m3)
1,1-DCE	65	97	0.00018	262	3	400	131,027
1,1-DCA	18	99	0.00005	73.4	3	8000	2,620,539
1,2-DCA	5	99	0.00001	20.2	1	20	6,551
1,1,1-TCA	318	133	0.00122	1,760	3	38000	12,447,558
1,1,2-TCA	5	133	0.00002	27.2	1	225	73,703
1,2-DCP	5	113	0.00002	23.1	NA		
TCE	1430	131	0.00540	7,790	1	1,350	442,216
PCE	1956	166	0.00936	13,500	1	1,700	556,864
Vinyl Chloride	5	62.5	0.00001	12.8	1	50	16,378
Chloroform	5	119	0.00002	24.4	1	250	81,892
Methylene Chloride	12	84.9	0.00003	43.4	3	7000	2,292,971
1,2 DCE	132	97	0.00037	534	3	15800	5,175,564
Freon 113	13	187	0.00007	101	NA		
Benzene	5	78	0.00001	16	1	150	49,135
Ethylbenzene	5	106	0.00002	21.7	3	8700	2,849,836
Toluene	5	92.1	0.00001	18.8	3	7500	2,456,755
Xylene	10	106	0.00003	43.4	3	8680	2,843,284
Chlorobenzene	5	112.45	0.00002	23	3	7000	2,292,971
1,2,4-TMB	5	120	0.00002	24.6			
Total			0.01687				

Flow Rate	187 cfm	Total	0.0739	Tons/yr	OK, less than 15 Tons/yr
	0.0883 m3/s		0.0148	lb/hr for 29-1	
			0.0017	lb/hr for 29-3	

Cells that are shaded and left-justified were non-detect at the RDL listed

CR USA Former Danbury Facility
SSDS Air Emissions Worksheet

Notes: *HLV = Hazard Limiting Value
**MASC = Maximum Allowable Stack Conc.

SSDS-4 EFFLUENT CONCENTRATION 10-9-08

	(PPBv)	Molecular Weight	Ave. Mass Flow Rate (lb/hr)	Ave. Conc. (ug/m3)	CT Air Regs Table 29-#	HLV* Tbl 29-1 (ug/m3)	MASC** (ug/m3)
1,1-DCE	4	97	0.00001	15.2	3	400	131,027
1,1-DCA	3	99	0.00001	11.8	3	8000	2,620,539
1,2-DCA	0	99	0.00000	0.8	1	20	6,551
1,1,1-TCA	21	133	0.00008	114	3	38000	12,447,558
1,1,2-TCA	0	133	0.00000	1.1	1	225	73,703
1,2-DCP	0	113	0.00000	0.9	NA		
TCE	76	131	0.00029	412	1	1,350	442,216
PCE	106	166	0.00051	732	1	1,700	556,864
Vinyl Chloride	0	62.5	0.00000	0.5	1	50	16,378
Chloroform	0	119	0.00000	1.4	1	250	81,892
Methylene Chloride	1	84.9	0.00000	1.9	3	7000	2,292,971
1,2 DCE	19	97	0.00005	75	3	15800	5,175,564
Freon 113	5	187	0.00002	35.8	NA		
Benzene	1	78	0.00000	3.3	1	150	49,135
Ethylbenzene	0	106	0.00000	0.9	3	8700	2,849,836
Toluene	1	92.1	0.00000	2.5	3	7500	2,456,755
Xylene	0	106	0.00000	1.7	3	8680	2,843,284
Chlorobenzene	0	112.45	0.00000	0.9	3	7000	2,292,971
1,2,4-TMB	0	120	0.00000	1.0			
Total			0.00098				

Flow Rate	203 cfm	Total	0.0043	Tons/yr	OK, less than 15 Tons/yr
	0.0958 m3/s		0.0008	lb/hr for 29-1	
			0.0001	lb/hr for 29-3	

Cells that are shaded and left-justified were non-detect at the RDL listed

CR USA Former Danbury Facility
SSDS Air Emissions Worksheet

Notes: *HLV = Hazard Limiting Value
**MASC = Maximum Allowable Stack Conc.

SSDS-5 EFFLUENT CONCENTRATION 10-9-08

	(PPBv)	Molecular Weight	Ave. Mass Flow Rate (lb/hr)	Ave. Conc. (ug/m3)	CT Air Regs Table 29-#	HLV* Tbl 29-1 (ug/m3)	MASC** (ug/m3)
1,1-DCE	16	97	0.00005	66.4	3	400	131,027
1,1-DCA	21	99	0.00006	84.6	3	8000	2,620,539
1,2-DCA	2	99	0.00001	8.1	1	20	6,551
1,1,1-TCA	67	133	0.00026	370	3	38000	12,447,558
1,1,2-TCA	2	133	0.00001	10.9	1	225	73,703
1,2-DCP	2	113	0.00001	9.2	NA		
TCE	668	131	0.00252	3,640	1	1,350	442,216
PCE	57	166	0.00027	395	1	1,700	556,864
Vinyl Chloride	3	62.5	0.00001	7.4	1	50	16,378
Chloroform	2	119	0.00001	9.8	1	250	81,892
Methylene Chloride	5	84.9	0.00001	17.4	3	7000	2,292,971
1,2 DCE	120	97	0.00034	485	3	15800	5,175,564
Freon 113	3	187	0.00002	24.9	NA		
Benzene	2	78	0.00000	6.4	1	150	49,135
Ethylbenzene	2	106	0.00001	8.7	3	8700	2,849,836
Toluene	2	92.1	0.00001	7.5	3	7500	2,456,755
Xylene	4	106	0.00001	17.4	3	8680	2,843,284
Chlorobenzene	2	112.45	0.00001	9.2	3	7000	2,292,971
1,2,4-TMB	2	120	0.00001	9.8			
Total			0.00360				

Flow Rate	198 cfm	Total	0.0158	Tons/yr	OK, less than 15 Tons/yr
	0.0935 m3/s		0.0028	lb/hr for 29-1	
			0.0007	lb/hr for 29-3	

Cells that are shaded and left-justified were non-detect at the RDL listed

APPENDIX G: DRAFT ELUR PACKAGE

DECLARATION OF ENVIRONMENTAL LAND USE RESTRICTION
AND GRANT OF EASEMENT

This Declaration of environmental land use restriction and Grant of Easement is made this _____ day of _____, 2009, between _____ ("the Grantor") and the Commissioner of Environmental Protection of the State of Connecticut ("the Grantee").

W I T N E S S E T H:

WHEREAS, Grantor is the owner in fee simple of certain real property (the "Property") known as CR USA, Inc., 15 Old Newtown Road located in the City of Danbury in Fairfield County, designated as Lots L12003, L12004, and K12268 on Maps K-12 and L-12 of the City of Danbury in Fairfield County, more particularly described on Exhibit A which is attached hereto and made a part hereof; and

WHEREAS, the Grantee has determined that the environmental land use restriction set forth below is consistent with regulations adopted by him pursuant to Section 22a-133k of the Connecticut General Statutes; and

WHEREAS, the Grantee has determined that this environmental land use restriction will effectively protect public health and the environment from the hazards of pollution; and

WHEREAS, the Grantee's written approval of this Environmental land use restriction is contained in the document attached hereto as Exhibit B (the "Decision Document") which is made a part hereof; and

WHEREAS, the property or portion thereof identified in the class A-2 survey ("the Subject Area") which survey is attached hereto as Exhibit C which is made a part hereof, contains pollutants and

WHEREAS, to prevent exposure to or migration of such pollutants and to abate hazards to human health and the environment, and in accordance with the Decision Document, the Grantor desires to impose certain restrictions upon the use, occupancy, and activities of and at the Subject Area, and to grant this environmental land use restriction to the Grantee on the terms and conditions set forth below; and

WHEREAS, Grantor intends that such restrictions shall run with the land and be binding upon and enforceable against Grantor and Grantor's successors and assigns;

NOW, THEREFORE, Grantor agrees as follows:

1. Purpose. In accordance with the Decision Document, the purpose of this Environmental land use restriction is to assure that the Subject Area is not used for residential activities, that humans are not exposed to soils at the respective Sub-Subject Area "B" polluted with substances in concentrations exceeding the direct exposure criteria established in R.C.S.A. sections 22a-133k-1 through 22a-133k-3, inclusive, that water does not infiltrate soils at the respective Sub-Subject Area "B" polluted with substances in concentrations exceeding the pollutant mobility criteria established in R.C.S.A. sections 22a-133k-1 through 22a-133k-3, inclusive, and that buildings designed for occupancy are not constructed over groundwater at the respective Sub-Subject Area "A" polluted with substances at concentrations exceeding the industrial/commercial volatilization criteria established in R.C.S.A. sections 22a-133k-1 through 22a-133k-3, inclusive.

2. Restrictions Applicable to the respective Subject Area: In furtherance of the purposes of this environmental land use restriction, Grantor shall assure that use, occupancy, and activity of and at the Subject Area are restricted as follows:

A. Use. No residential use of the Subject Area shall be permitted.
B. Disturbances. Soil at the respective Sub-Subject Area "B" shall not be disturbed in any manner, including without limitation in the area designated as such beneath the building.
C. Construction. No building shall be constructed on the respective Sub-Subject Area "A".

3. Except as provided in Paragraph 4 below, no action shall be taken, allowed, suffered, or omitted if such action or omission is reasonably likely to:

i. Create a risk of migration of pollutants or a potential hazard to human health or the environment; or

ii. Result in a disturbance of the structural integrity of any engineering controls designed or utilized at the Property to contain pollutants or limit human exposure to pollutants.

4.Emergencies. In the event of an emergency which presents a significant risk to human health or the environment, the application of Paragraphs 2 and 3 above may be suspended, provided such risk cannot be abated without suspending such Paragraphs and the Grantor:

i. Immediately notifies the Grantee of the emergency;

ii. Limits both the extent and duration of the suspension to the minimum reasonably necessary to adequately respond to the emergency;

iii. Implements all measures necessary to limit actual and potential present and future risk to human health and the environment resulting from such suspension; and

iv. Implements a plan approved in writing by the Grantee, on a schedule approved by the Grantee, to ensure that the Subject Area is remediated in accordance with R.C.S.A. sections 22a-133k-1 through 22a-133k-3, inclusive, or restored to its condition prior to such emergency.

5. Release of Restriction; Alterations of Subject Area. Grantor shall not make, or allow or suffer to be made, any alteration of any kind in, to, or about any portion of any of the Subject Area inconsistent with this Environmental land use restriction unless the Grantor has first recorded the Grantee's written approval of such alteration upon the land records of the City of Danbury. The Grantee shall not approve any such alteration and shall not release the Property from the provisions of this environmental land use restriction unless the Grantor demonstrates to the Grantee's satisfaction that Grantor has remediated the Subject Area in accordance with R.C.S.A. sections 22a-133k-1 through 22a-133k-3, inclusive.

6. Grant of Easement to the Grantee. Grantor hereby grants and conveys to the Grantee, his agents, contractors, and employees, and to any person performing pollution remediation activities under the direction thereof, a non-exclusive easement (the "Easement") over the Subject Area and over such other parts of the Property as are necessary for access to the Subject Area or for carrying out any actions to abate a threat to human health or the environment associated with the Subject Area. Pursuant to this Easement, the Grantee, his agents, contractors, and employees, and any person performing pollution remediation activities under the direction thereof, may enter upon and inspect the Property and perform such investigations and actions as the Grantee deems necessary for any one or more of the following purposes:

i. Ensuring that use, occupancy, and activities of and at the Property are consistent with this environmental land use restriction;

ii. Ensuring that any remediation implemented complies with R.C.S.A. sections 22a-133k-1 through 22a-133k-3, inclusive;

iii. Performing any additional investigations or remediation necessary to protect human health and the environment;

7. Notice and Time of Entry onto Property. Entry onto the Property by the Grantee pursuant to this Easement shall be upon reasonable notice and at reasonable times, provided that entry shall not be subject to these limitations if the Grantee determines that immediate entry is necessary to protect human health or the environment.

8. Notice to Lessees and Other Holders of Interests in the Property. Grantor, or any future holder of any interest in the property, shall cause any lease, grant, or other transfer of any interest in the Property to include a

provision expressly requiring the lessee, grantee, or transferee to comply with this environmental land use restriction and Grant of Easement. The failure to include such provision shall not affect the validity or applicability to the Property of this environmental land use restriction and Grant of Easement.

9. Persons Entitled to Enforce Restrictions. The restrictions in this environmental land use restriction on use, occupancy, and activity of and at the Property shall be enforceable in accordance with section 22a-133p of the General Statutes.

10. Severability and Termination. If any court of competent jurisdiction determines that any provision of this environmental land use restriction or Grant of Easement is invalid or unenforceable, such provision shall be deemed to have been modified automatically to conform to the requirements for validity and enforceability as determined by such court. In the event that the provision invalidated is of such nature that it cannot be so modified, the provision shall be deemed deleted from this instrument as though it had never been included herein. In either case, the remaining provisions of this instrument shall remain in full force and effect. Further, in either case, the Grantor shall submit a copy of this restriction and of the judgment of the Court to the Grantee in accordance with R.C.S.A. section 22a-133q-1(1). This environmental land use restriction shall be terminated if the Grantee provides notification pursuant to R.C.S.A. section 22a-133q-1(l).

11. Binding Effect. All of the terms, covenants and conditions of this environmental land use restriction and grant of easement shall run with the land and shall be binding on the Grantor, the Grantor's successors and assigns, and each owner and any other party entitled to possession or use of the Property during such period of ownership or possession.

12. Terms Used Herein. The definitions of terms used herein shall be the same as the definitions contained in sections 22a-133k-1 and 22a-133q-1 of the Regulations of Connecticut State Agencies as such sections existed on the date of execution of this environmental land use restriction.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand this __day of _____, 2009.

Signed, sealed and delivered
in the presence of:

GRANTOR

_____

WITNESS:

_____

Printed Name: _____

_____

Printed Name: _____

By:_____

Printed Name: _____

Its
Hereunto duly authorized

STATE OF _____)
) ss.
COUNTY OF _____)

Personally appeared before me this ____ day of _____, 2009, _____, _____ of _____, duly authorized signer of the foregoing instrument, and acknowledged the same to be his free act and deed as such _____, and the free act and deed of said corporation, before me.

_____
Notary Public
My Commission Expires:_____

GRANTEE

Date: _____

_____
Gina McCarthy
Commissioner of Environmental Protection

EXHIBIT A
DESCRIPTION OF PROPERTY

Legal Description: 13-17 Old Newtown Road - ELUR Subject Area

Beginning at a concrete monument found in the easterly streetline of Broad Street, said monument is the northwesterly corner of land now or formerly of Joshua J. Weeks and James H. Traynor, and also the southwest corner of herein described parcel:

Thence running northerly and northeasterly the following two (2) courses and distances along the said easterly streetline of Broad Street N07°13'06"W 81.55 feet and N32°44'32"E 75.37 feet to the southwest corner of land now or formerly of Antonio A. Ramos and Antonio C. Narciso;

Thence running easterly, northeasterly and northerly the following three (3) courses and distances, S57°00'43"E 104.79 feet, N33°16'41"E 100.83 feet, and N04°30'34"W 84.81 feet to an iron pipe found in the easterly streetline of Broad Street;

Thence running N36°31'41"E 60.00 feet along the said easterly streetline of Broad Street to an iron pipe found;

Thence running southerly, southeasterly and northeasterly the following three (3) courses and distances along land now or formerly of Robert P. Cicarelli, S18°25'38"E 119.15 feet, S50°26'56"E 169.50 feet and N30°41'24'E 173.88 feet to a point in the southerly streetline of Old Newton Road;

Thence running easterly the following three (3) courses and distances along the said southerly streetline of Old Newton Road, S57°31'20"E 94.29 feet, S57°31'07"E 426.34 feet and S51°49'14"E 141.00 feet to a point;

Thence running southerly the following two (2) courses and distances along the westerly streetline of Newton Road S39°43'31"W 219.00 feet to a Connecticut Highway Department (CHD) monument and S42°51'09"W 210.00 feet to a point at the northeast corner of land now or formerly of Joshua J. Weeks and James H. Traynor;

Thence running N57°53'26"W 858.43 feet along land now or formerly of said Joshua J. Weeks and James H. Traynor to the point or place of beginning.

Exhibit B
Decision Document

The purpose of this document is to describe: 1) the type and location of pollutants in the soil and groundwater at the former Risdon Facility located at 15 Old Newtown Road in the City of Danbury, Connecticut ("the site") for which an Environmental Land Use Restriction ("ELUR") is necessary; 2) the provisions of the ELUR and the reasons why such restrictions or limitations on a portion of the site are necessary to adequately protect human health and the environment; and 3) why the ELUR is consistent with the Remediation Standard Regulations, Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies ("R.C.S.A.").

The ELUR prohibits the use of the Subject Area for residential activities. The Subject Area consists of a contiguous parcel of property bounded to the north by Old Newtown Road and a commercial property, to the east by Newtown Road, to the south by commercial property, and to the west by commercial property and a private residence along Broad Street. The Subject Area encompasses approximately 8.1 acres. The configuration of the ELUR boundary and the Subject Areas, as discussed below, are shown in Exhibit C.

At several locations within the Subject Area, inorganics are present in soil at concentrations that exceed the residential direct exposure criteria, as defined in Section 22a-133k-1 of the R.C.S.A. If the site was used for residential activities, as defined in Section 22a-133k-1 of the R.C.S.A., the pollutants present in the soil may pose an unacceptable risk to human health. The ELUR prohibits the use of the Subject Area for residential activities, as required by Section 22a-133k-2 (b)(2)(A) of the R.C.S.A.

Within a smaller area beneath the current building, referred to as Sub-Subject Area B, inorganics are present in soil at concentrations that exceed the industrial/commercial direct exposure criteria (nickel only and only at one location), as defined in Section 22a-133k-1 of the R.C.S.A. The sample with the exceedance is located beneath the current building's concrete floor slab and meets the definition of inaccessible soil, as defined in Section 22a-133k-1 of the R.C.S.A. If these soils were to be accessed, the pollutants present in the soil may pose an unacceptable risk to human health. The ELUR prohibits the disturbance of these soils such that the soils will not be exposed as a result of excavation, demolition or other activities and that the floor slab will be maintained in good condition, as required by Section 22a-133k-2 (b)(3) of the R.C.S.A.

Within a smaller area beneath the current building, referred to as Sub-Subject Area B, inorganics are present in soil at concentrations that exceed the pollutant mobility criteria for GB groundwater (copper, nickel, silver, and cyanide), as defined in Section 22a-133k-1 of the R.C.S.A. The samples with the exceedances are all located beneath the current building's concrete floor slab and meet the definition of environmentally isolated soil as defined in Section 22a-133k-1 of the R.C.S.A. If these soils were to be exposed to infiltrating water, the pollutants present in the resulting soil water may exceed the applicable groundwater protection criteria. The ELUR prohibits the disturbance of these soils such that the soils will not be exposed to infiltration of soil water due to the demolition of the building or removal of the floor slab, as required by Section 22a-133k-2 (c)(4)(B) of the R.C.S.A.

Within the Subject Area, volatile organic compounds are present in groundwater at concentrations that exceed the residential volatilization criteria for groundwater, as defined in Section 22a-133k-1 of the R.C.S.A. If the site was used for residential activities, as defined in Section 22a-133k-1 of the R.C.S.A., the pollutants present in the groundwater may pose an unacceptable risk to human health. The ELUR prohibits the use of the Subject Area for residential activities, as required by Section 22a-133k-3 (c)(2) of the R.C.S.A.

Within an area located on the northern portion of the property in the area and hydraulically downgradient of the former surface impoundments, referred to as Sub-Subject Area A, volatile organic compounds are present in groundwater at concentrations that exceed the industrial/commercial volatilization criteria for groundwater, as defined in

Section 22a-133k-1 of the R.C.S.A. If a building designed for occupancy was constructed within this area, the pollutants present in the groundwater may pose an unacceptable risk to human health without the use of appropriate vapor reduction controls. The ELUR prohibits the construction of a new building designed for occupied use in the respective Sub-Subject Area A.

Public notice of the proposed ELUR was conducted in accordance with Section 22a-133q-1 (c)(1) of the R.C.S.A and published in Danbury's circulation of The News Times on March 20, 2008. EPA, acting as the lead regulatory Agency, was indicated as the contact point for any comments or information requests. According to EPA (Ms. Carolyn Casey), no information requests or comments were received within the 45 day comment period.

Approval of this Decision Document is hereby granted.

_____ _____

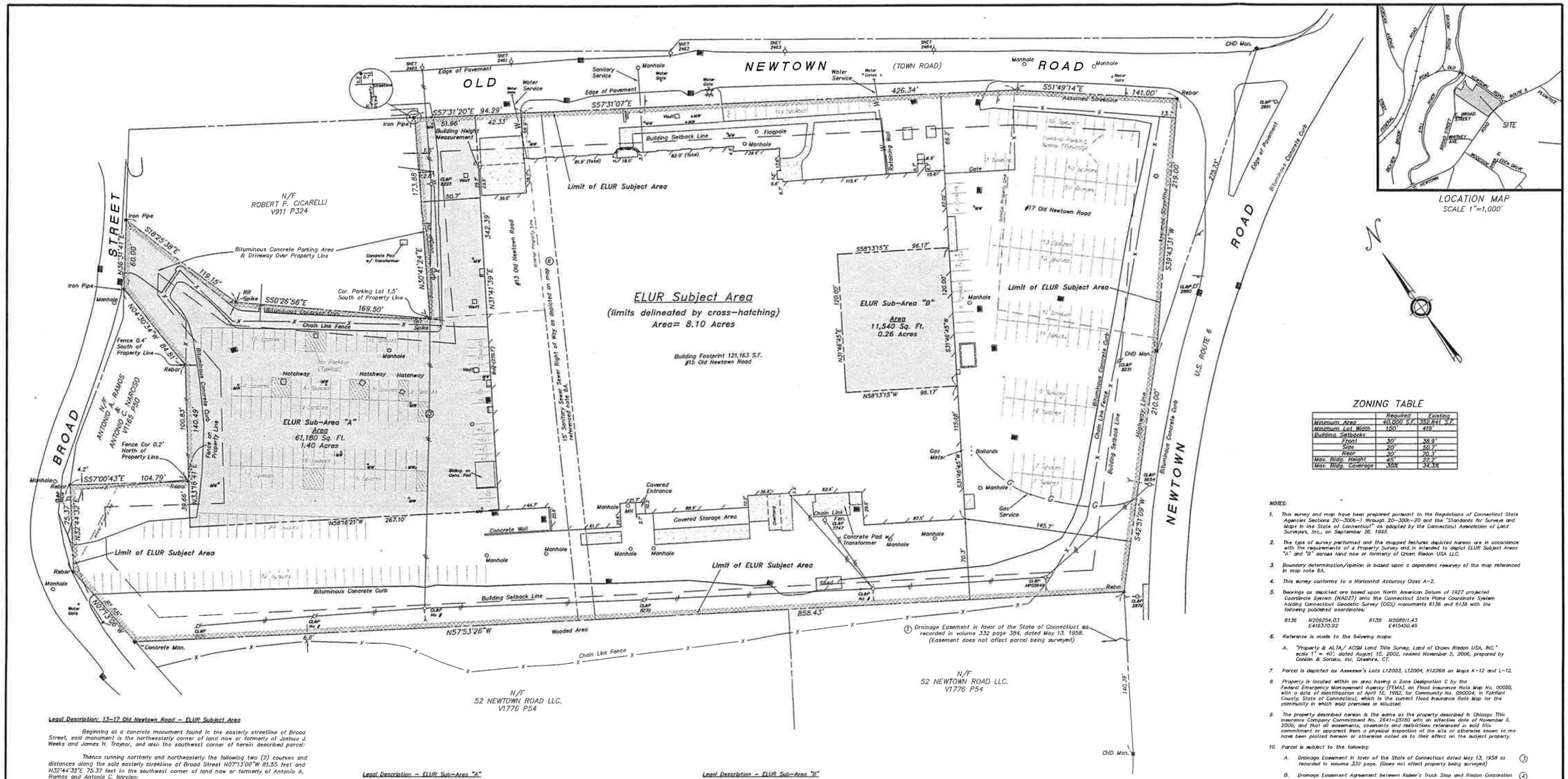
Date

Gina McCarthy
Commissioner of Environmental Protection

EXHIBIT C
CLASS A-2 SURVEY

That certain class A-2 Survey entitled: Property & ALTA / ACSM Land Title Survey
ELUR Subject Area & Sub-Areas "A" and "B" Across
Land of Crown Risdon USA Inc.

Said Survey was recorded on the City of Danbury Land Records on _____, to which reference may be had.



LOCATION MAP
SCALE 1"=1,000'

ZONING TABLE

	Required	Existing
Minimum Area	40,000 S.F.	352,841 S.F.
Minimum Lot Width	150'	419'
Building Setbacks		
Front	30'	38.9'
Side	20'	50.7'
Rear	30'	70.3'
Max. Bldg. Height	45'	27.2'
Max. Bldg. Coverage	30%	34.3%

NOTES:

1. This survey and map have been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20–300b–1 through 20–300b–20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc., on September 26, 1996.
2. The type of survey performed and the mapped features depicted hereon are in accordance with the requirements of a Property Survey and is intended to depict ELUR Subject Areas "A" and "B" across land now or formerly of Crown Risdon USA LLC.
3. Boundary determination/opinion is based upon a dependent resurvey of the map referenced in map note 6A.
4. This survey conforms to a Horizontal Accuracy Class A–2.
5. Bearings as depicted are based upon North American Datum of 1927 projected Coordinate System (NAD27) onto the Connecticut State Plane Coordinate System holding Connecticut Geodetic Survey (CGS) monuments 6136 and 6138 with the following published coordinates:

   6136 N209254.03 E416370.92 — 6138 N208911.43 E415450.49
6. Reference is made to the following maps:
   A. "Property & ALTA/ ACSM Land Title Survey, Land of Crown Risdon USA, INC." scale 1" = 40', dated August 15, 2002, revised November 5, 2006, prepared by Conklin & Soroka, Inc. Cheshire, CT.
7. Parcel is depicted as Assessor's Lots L12003, L12004, K12268 on Maps K–12 and L–12.
8. Property is located within an area having a Zone Designation C by the Federal Emergency Management Agency (FEMA), on Flood Insurance Rate Map No. 00050, with a date of Identification of April 16, 1982, for Community No. 090004, in Fairfield County, State of Connecticut, which is the current Flood Insurance Rate Map for the community in which said premises is situated.
9. The property described hereon is the same as the property described in Chicago Title Insurance Company Commitment No. 2641–25180 with an effective date of November 6, 2006, and that all easements, covenants and restrictions referenced in said title commitment or apparent from a physical inspection of the site or otherwise known to me have been plotted hereon or otherwise noted as to their effect on the subject property.
10. Parcel is subject to the following:
    A. Drainage Easement in favor of the State of Connecticut dated May 13, 1958 as recorded in volume 332 page. (Does not affect property being surveyed) (3)
    B. Drainage Easement Agreement between Kaiser's Truck Stop and Risdon Corporation dated May 23, 1994 as recorded in volume 1089 page 1081. (Does not affect property being surveyed) (4)
    C. Terms and Conditions of an Agreement as recorded in volume 1215 page 398, dated March 31, 1998. (Does not affect property being surveyed easement was released in volume 1215 page 398. (5)
    D. A fifteen foot sanitary sewer right of way and existing sanitary sewer line as set forth in Map No. 3057–3058 on file the Danbury Land Records. (6)
11. The Property has direct access to Old Newtown Road, a dedicated public street or highway.
12. The total number of striped parking spaces on the subject property is 311, including 7 designated handicap spaces.
13. Except as depicted, all visible utilities serving the subject property enter through adjoining public streets and/or easements of record.
14. Applicable zoning information and setbacks as provided by the Town of Danbury and as referenced on the applicable plat of record are depicted and noted hereon.

Deed References

Volume 673 Page 668
Volume 1710 Page 327

Overall Area

352,841 Sq. Ft.
8.10 Acres

Legal Description: 13–17 Old Newtown Road – ELUR Subject Area

Beginning at a concrete monument found in the easterly streetline of Broad Street, said monument is the northwesterly corner of land now or formerly of Joshua J. Weeks and James H. Traynor, and also the southwest corner of herein described parcel:

Thence running northerly and northeasterly the following two (2) courses and distances along the said easterly streetline of Broad Street N07°13'06"W 81.55 feet and N32°44'32"E 75.37 feet to the southwest corner of land now or formerly of Antonio A. Ramos and Antonio C. Narciso;

Thence running easterly, northeasterly and northerly the following three (3) courses and distances, S57°00'43"E 104.79 feet, N33°16'41"E 100.83 feet, and N04°30'34"W 84.81 feet to an iron pipe found in the easterly streetline of Broad Street;

Thence running N36°31'41"E 60.00 feet along the said easterly streetline of Broad Street to an iron pipe found;

Thence running southerly, southeasterly and northeasterly the following three (3) courses and distances along land now or formerly of Robert P. Cicorelli, S18°25'38"E 119.15 feet, S50°26'56"E 169.50 feet and N30°41'24"E 173.88 feet to a point in the southerly streetline of Old Newtown Road;

Thence running easterly the following three (3) courses and distances along the said southerly streetline of Old Newtown Road, S57°31'20"E 94.29 feet, S57°31'07"E 426.34 feet and S51°49'14"E 141.00 feet to a point;

Thence running southerly the following two (2) courses and distances along the **westerly streetline of Newtown Road S39°43'31"W 219.00 feet to a Connecticut Highway Department (CHD) monument and S42°51'09"W 210.00 feet to a point at the northeast corner of land now or formerly of Joshua J. Weeks and James H. Traynor;**

Thence running N57°53'26"W 858.43 feet along land now or formerly of said Joshua J. Weeks and James H. Traynor to the point or place of beginning.

Legal Description – ELUR Sub-Area "A"

Beginning at a iron pin found in the easterly streetline of Broad Street, said iron pin is the northerly corner of land now or formerly of Antonio A. Ramos and Antonio C. Narciso.

Thence running N36°31'41"E 60.00 feet along the said easterly streetline of Broad Street to an iron pipe found; said iron pipe being the northwesterly corner of land now or formerly of Robert P. Cicorelli and the northwesterly corner of herein described parcel;

Thence running the following three (3) courses and distances along land now or formerly of said Robert P. Cicorelli, S18°25'38"E 119.15 feet to a railroad spike, S50°26'56"E 169.50 feet and N30°41'24"E 173.88 feet to a iron pin in the southerly streetline of Old Newtown Road; said pin being the northeasterly corner of land now or formerly of said Cicorelli;

Thence running S57°31'20"E 51.96 feet along the said southerly streetline of Old Newtown Road to a point;

Thence running S31°41'39"W 342.39 feet through land now or formerly of Crown Risdon USA Inc., partly along the westerly wall of an industrial building located at 15 Newtown Road, to the southwesterly corner of the building herein described;

Thence running N58°16'21"W 267.10 through land, again now or formerly of said Crown Risdon USA LLC feet to a point;

Thence running following two (2) courses and distances through land now or formerly of said Crown Risdon USA LLC and along land now or formerly of said Antonio A. Ramos and Antonio C. Narciso, partly by each, N33°16'41"E 140.49 feet and N04°30'34"W 84.81 feet to the point or place of beginning.

Legal Description – ELUR Sub-Area "B"

Beginning at a point along the easterly face of an industrial building located at 15 Old Newtown Road, said point being N31°46'45"E 115.18 feet from the southeasterly corner of the building herein described, said point also being the southeasterly corner of herein described parcel;

Thence running the following three (3) courses and distances through said industrial building, N58°13'15"W 96.17 feet, N31°46'45"E 120.00 feet; and S58°13'15"E 96.17 feet to a point on easterly face of said building;

Thence running S31°46'45"W 120.00 feet along the easterly wall of said industrial building to the point or place of beginning.

This is to certify that this map or plat and the survey on which it is based were made in accordance with the Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2005, and includes Items 2, 3, 4, 6, 7(a), 7(b1), 7c, 8, 9, 10, 11(a), 13, 14, 16 and 18 of Table A thereof. Pursuant to the Accuracy Standards adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of Connecticut, the Relative Positional Accuracy of this survey does not exceed that which is specified therein, and to my knowledge and belief, this map is substantiallycorrect as noted hereon.

Christopher J. Conklin, L.S. #70,241 — Date

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NO.	DATE	DESCRIPTION	BY

LEGEND

	Property/Deed/Street Line		Wood Fence		Watercourse
	Easement/Right of Way Line		Retaining Wall		Swampy/Wet Area
	Concrete Monument (Found)		Utility Pole	CL&P	Conn. Light & Power Co.
	Iron Pipe (Found)		Gas Gate	SNET	Southern New England Telephone
	Concrete Monument (To Be Set)		Water Gate	UI	United Illuminating Company
	Iron Pipe (To Be Set)		Catch Basin		Light Pole
N/F	Now or Formerly		Manhole		Fence Post
	Stone Wall		Fire Hydrant		Wetland Boundary
	Wire Fence		Well		Drill Hole (found)
	Concrete Surface		Overhead Wires		Items as listed Schedule B, Section II

CALL BEFORE YOU DIG 1-800-922-4455

CONKLIN & SOROKA, INC.

1484 HIGHLAND AVENUE
CHESHIRE, CONNECTICUT 06410
(203) 272-1135

32 WASHINGTON STREET
MIDDLETOWN, CONNECTICUT 06457
(860) 346-2801

CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS

PROPERTY & ALTA/ ACSM LAND TITLE SURVEY
ELUR Subject Area & Sub-Areas "A" and "B"
Across Land of
CROWN RISDON USA INC

13–17 Old Newtown Road — Fairfield County — Danbury, Connecticut

DATE 12/10/08	FIELD D.M.	DRN. A.V.	CADD INFO. DISK NO.	DISK NO. 1014	PROJECT NO.
SCALE 1"=40'	FB. NO. DTC	CKD.	FILE 02-077.dwg	JOB NO. J	02-077
	COMPS J.W.				

Attachment B

Certification of Public Notice

The News-Times

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By

WOODARD & CURRAN
35 NEW ENGLAND BUS.CTR
ANDOVER MA 01810

THE NEWS-TIMES
AFFIDAVIT OF PUBLICATION

STATE OF CONNECTICUT
COUNTY OF FAIRFIELD SS. DANBURY

LEGAL NOTICE
NOTICE OF
PROPOSED REMEDIATION ACTIVITIES

Pursuant to RCSA Section 22a-449 (c)..105(h), CR USA, Inc. located at One Crown Way in Philadelphia, PA, as the owner of the former Risdon facility located at 15 Old Newtown Road in Danbury, Connecticut is proposing to conduct remediation activities at the property. Investigation activities conducted at the facility have indicated that soil and groundwater have been impacted by past releases of chlorinated volatile organic compounds (VOCs) and metals at two separate areas on the property.

To address impacts to soil and groundwater at the facility, a Remedial Action Plan (RAP) for on-property conditions was prepared, summarizing the proposed remediation activities and submitted to the USEPA and CTDEP. The proposed remediation activities for the facility include installation and operation of a sub-slab vapor control system beneath the existing building, continued operation of a groundwater extraction and treatment system, and placement of an environmental land use restriction on the property restricting the parcel to non-residential use and restricting soil excavation and building construction in certain areas of the property.

Additional information requests and any comments on the proposed remediation should be directed in writing within 45 days of this notice to Ms. Carolyn Casey at USEPA Region 1, phone (617-918-1366), 1 Congress Street, Suite 1100-HBT, Boston, MA 02114-2023. To be put on a mailing list for periodic updates of site remediation activities, contact Mr. Jeffrey Hamel, LSP, LEP at Woodard & Curran, 978-557-8150.

Implementation of the remediation activities proposed in the RAP is anticipated to commence immediately following the submittal of written responses to any of the comments received. If it is determined that there is substantial public interest in the proposed remediation, then a public meeting may be held with notice provided prior to the meeting.

ON THIS 20th OF March, 2008 PERSONALLY APPEARED BEFORE THE UNDERSIGNED, A NOTARY PUBLIC, WITHIN AND FOR SAID COUNTY AND STATE JACQUELINE PEREIRA OF THE NEWS-TIMES A DAILY NEWSPAPER PUBLISHED AT DANBURY IN SAID COUNTY OF FAIRFIELD AND STATE OF CT, WHO, BEING DULY SWORN, STATES ON OATH THAT THE FOLLOWING ADVERTISEMENT(S) APPEARED IN THE NEWS-TIMES ON THE BELOW LISTED DATES.

JACQUELINE PEREIRA

SUBSCRIBED AND SWORN TO BEFORE ME, ON THIS 20 DAY OF Mar A.D. 2008

Virginia Olsen
NOTARY PUBLIC 10/1/09

RE DATE	AD CAPTION	# TIMES	AMOUNT
)/2008	REMED. ACTIVITIES	1	$ 328.34

APPENDIX H: RCRA CSA CLOSURE PHOTOGRAPHS

Photograph No. 1:
Concrete removed from CSA

Photograph No. 2:
Completed CSA

APPENDIX I: AOC-17 HAZARDOUS CONCRETE WASTE DISPOSAL DOCUMENTATION

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of: 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 001830925 FLE

5. Generator's Name and Mailing Address: [illegible]
Generator's Site Address (if different than mailing address): Old Newtown Road, Danbury CT 06810
Generator's Phone: [illegible]

6. Transporter 1 Company Name: [illegible] Transportation Company Inc.
U.S. EPA ID Number: MAD[illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors of Connecticut Inc., 55 Gendron Road, [illegible]
U.S. EPA ID Number: CTD000604488
Facility's Phone: [illegible]

9a HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (CONCRETE AND CHROME), 9, PG III					D002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
[illegible]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month: 10 Day: 14 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month: 10 Day: 14 Year: 08
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Signature: Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Clean Harbors has the appropriate permits for and will accept the waste this generator is shipping.

Attention All Drivers:
Before you weigh truck please fill up your tanks with Fuel.

Date: 10/14/08 — 57400 Gross Lbs.
Truck # CHR+25058 — 36800 Tare Lbs.
Manifest # 0018309925FLE — 20600 Net Lbs.
Workorder # CM196 7589

If you put a second load/manifest onto truck, take Gross weight from first load and use that as your tare weight for next load.

Date: ___/___/___ — _____ Gross Lbs.
Truck # _____ — _____ Tare Lbs. (1st gross weight)
Manifest # _____ — Net Lbs.
Workorder # _____

If you put a third load/manifest onto truck, take Gross weight from second load and use that as your tare weight for next load.

Date: ___/___/___ — _____ Gross Lbs.
Truck # _____ — _____ Tare Lbs. (2nd gross weight)
Manifest # _____ — Net Lbs.
Workorder # _____

If you put a fourth load/manifest onto truck, take Gross weight from third load and use that as your tare weight for next load.

Date: ___/___/___ — _____ Gross Lbs.
Truck # _____ — _____ Tare Lbs. (3rd gross weight)
Manifest # _____ — Net Lbs.
Workorder # _____

If you put a fifth load/manifest onto truck, take Gross weight from fourth load and use that as your tare weight for next load.

Date: ___/___/___ — _____ Gross Lbs.
Truck # _____ — _____ Tare Lbs. (4th gross weight)
Manifest # _____ — Net Lbs.
Workorder # _____

All Trucks are subject to being inspected by Compliance at any time.

WEIGHT RECORDED BY

HOWESCALE

Number 7179

Date 10-14-0

IDENTIFICATION	WEIGHT	
001830925FLE CM1967589	57400 lbs	lbs. Gr
	36800	lbs. Tar
Clean Harbor.	20600	lbs. Net

Commodity _____ @ _____ per lb

Remarks: _____ Driver: On ☐ Off ☐

Load No. _____

Weigher _____

Shipper _____

Seller
Buyer _____

Address _____

WC2100873 SC PPW 10/6/2008

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. CTD000604488 | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 483-3718 | 4. Manifest Tracking Number 000683206 FLE

5. Generator's Name and Mailing Address
Clean Harbors of Connecticut Inc
761 Middle Street
761 Middle Street
Bristol, CT 06010
Generator's Phone: (860) 583-8917 ATTN:Compliance Officer

Generator's Site Address (if different than mailing address)
51 Broderick Road
51 Broderick Road
Bristol,CT 06010

6. Transporter 1 Company Name: Horwith Trucking Inc — U.S. EPA ID Number: PAD146714878

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON NON 1G0
Facility's Phone: (519) 864-1021
U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (CONCRETE AND CHROME), 9, PG III	001	CM	00011	T	D007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.IDN-DEBRIS ERG#171 1XROLLOFF
CHRT 25658 GF59020-7

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Amber R. Garrity — Signature: Amber Rae Garrity — Month 10 Day 16 Year 08

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lewiston NY
Transporter signature (for exports only): Date leaving U.S.: 10-16-2008

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Timothy Naunton — Signature — Month 10 Day 16 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Br. Hany Ali — Signature — Month 10 Day 17 Year 08

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

1.JON-[illegible]

GF59020-7-3

GF59020-7

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

CHRT25[illegible]658 WC2100873

A Generator / consignor — Reg. [illegible] N° d'immatriculation - d'id. provincial: CTD000060448 8

Company name / Nom de l'entreprise: Clean Harbors of Connecticut Inc

Mailing address / Adresse postale: 761 Middle Street — City / Ville: [illegible] — Province: CT — Postal code / Code postal: 06810

E-mail / Courrier électronique: [illegible] — Tel. No. / N° de tél.: (203) 853-0917

Shipping site address / Adresse de lieu de l'expédition: [illegible]

City / Ville: [illegible] Frederick Road — Province: CT — Postal code / Code postal: [illegible]

Intended Receiver / consignee / Réceptionnaire / destinataire prévu: Clean Harbors Canada Inc — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A-031906

Mailing address / Adresse postale: 4090 Telfer Road RR#1 — City / Ville: Corunna — Province: ON — Postal code / Code postal: N0N 1G0

E-mail / Courrier électronique: [illegible] — Tel. No. / N° de tél.: (519) 864-1021

Receiving site address / Adresse de lieu de l'expédition: 4090 Telfer Road RR#1

City / Ville: Corunna — Province: ON — Postal code / Code postal: N0N 1G0

B Carrier / transporter — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: PA0146714878 (117) A87117

Company name / Nom de l'entreprise: Horwith Trucking Inc

Mailing address / Adresse postale: RT. E 329 — City / Ville: Northampton — Province: PA — Postal code / Code postal:

E-mail / Courrier électronique: [illegible] — Tel. No. / N° de tél.: 6102612270

Vehicle / Véhicule: Trailer - Rail car No. 1 / 1e remorque - wagon: XR89611 — Registration No. / N° d'immatriculation — Prov.: PA

Trailer - Rail car No. 2 / 2e remorque - wagon:

Port of entry / Point d'entrée: Queenston ON (International use only) — Port of exit / Point de sortie (International use only)

Carrier Certification: I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.
Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Timothy Navatne — Tel. No. / N° de tél.: 6102612270

Year / Année: 08 — Month / Mois: 10 — Day / Jour: 16 — Signature:

C Receiver / consignee / Réceptionnaire / destinataire — Reference Nos. of other movement documents(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 00068 3206FLE

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A031906

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est le même qu'à la Partie A: ☐ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise: CLEAN HARBORS CANADA INC

Mailing address / Adresse postale: R.R. #1, 4090 TELFER ROAD — City / Ville: CORUNNA, ONTARIO — Province — Postal code / Code postal: N0N 1G0

E-mail / Courrier électronique — Tel. No. / N° de tél.: 519-864-1021

Receiving site address / Adresse de lieu de destination: Same

Date received / Date de réception — Year / Année: 09 — Month / Mois: 10 — Day / Jour: 17 — Time / Heure: 0300 ☐ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire — Registration No. / Provincial ID No. / N° d'immatriculation/d'id provincial

	Prov. code / Code prov.	Shipping name / Appellation réglementaire	Class / Classe Sub. classe(s) / Classe(s) sub.	UN No. / N° NU	Packing / risk gr. / Gr. d'emballage / de risque	Quantity shipped / Quantité expédiée	Units L or / ou Kg / Unités	Packaging/Contents No. / N°	Codes Inc. est.	Phys. state / État phys.	Quantity received / Quantité reçue	Units L or / ou kg / Unités	Comments / Commentaires	Handling Code / Code de manutention	Shipment / Envoi Accepted / Accepté	Shipment / Envoi Refused / Refusé	Decont. Pack. Cont.	Decont. Veh. Véh.
(i)		146T ENVIRONMENTALLY HAZARDOUS WASTE, (contaminated soil, oil/water)	NA	NA	N/a	9079	Kg	001	06	54	9450	Kg	Please send attached variance approval from Ministry	06	YES		NON	
(ii)																		
(iii)																		
(iv)																		

	Notice No. / N° de notification	Notice Line No. / N° de ligne de la notification	Shipment / Envoi	Of / De	D or R code / Code É ou R	C code / Code C	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE	H code / Code H	Y code / Code Y	National code in country of / Code du pays: Export / Exportation	Import / Importation	Customs code(s) / Code(s) de douanes
(i)	513241	3	3	351	D05	C15	A1020	H13	N/a	N/a	N/a	3825.69.00.00
(ii)	International use only											
(iii)												
(iv)												

If handling code "Other" (specify) / Si code de manutention « autre » (préciser):

Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire: J'atteste que tous les renseignements à la partie C sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Br. Hony Ce

Signature: RD — Tel. No. / N° de tél.: 519-864-1021

Special handling / Manutention spéciale: 24 HR Emergency Number ☐ Attached / Ci-joint ☐ As follows / Ci-contre: 1-800-423-3719

Generator / consignor certification: I certify that the information contained in Part A is correct and complete.
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Amber R. Garrity — Signature: Amber R. Garrity — Tel. No. / N° de tél.: (203) 853-0917

Date shipped / Date d'expédition — Year / Année: 08 — Month / Mois: 10 — Day / Jour: 16 — Time / Heure: 10:00 ☒ A.M. ☐ P.M.

Scheduled arrival date / Date d'arrivée prévue — Year / Année: 08 — Month / Mois: 10 — Day / Jour: 16

MOE 04-1917 (06/06)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaune)

APPENDIX J: AOC-17 CONFIRMATORY SOIL ANALYTICAL REPORT

ANALYTICAL REPORT

Lab Number:	L0810715
Client:	Woodard & Curran 35 New England Business Center Suite 180 Andover, MA 01810
ATTN:	Jeff Hamel
Project Name:	RISDON
Project Number:	97001
Report Date:	07/28/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

Alpha Sample ID	Client ID	Sample Location
L0810715-01	RDS.AOC17.CS5.1	DANBURY, CT
L0810715-02	RDS.AOC17.CS6.1	DANBURY, CT
L0810715-03	RDS.AOC17.CS6.2	DANBURY, CT
L0810715-04	RDS.AOC17.CS7.1	DANBURY, CT
L0810715-05	RDS.AOC17.CS7.2	DANBURY, CT

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

CT DEP Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

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

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

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

RCP Related Narratives:

Metals

SPLP Extraction Date & Time: 21-JUL-08 14:30

In reference to question 6:

At the client's request, all submitted samples were not analyzed for the full RCP list of constituents identified in the method specific analyte list presented in the RCP documents.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative

Date: 07/28/08

METALS

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

SAMPLE RESULTS

Lab ID:	L0810715-01	Date Collected:	07/18/08 08:35
Client ID:	RDS.AOC17.CS5.1	Date Received:	07/18/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series										
Silver, Total	ND		mg/kg	0.54	1	07/21/08 10:30	07/24/08 18:58	EPA 3050B	77,6010B	AI
SPLP Metals										
Silver, SPLP	ND		mg/l	0.007	1	07/22/08 12:30	07/24/08 19:01	EPA 3005A	1,6010B	MG

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

SAMPLE RESULTS

Lab ID:	L0810715-02	Date Collected:	07/18/08 08:40
Client ID:	RDS.AOC17.CS6.1	Date Received:	07/18/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series										
Chromium, Total	29		mg/kg	0.54	1	07/21/08 10:30	07/24/08 19:05	EPA 3050B	77,6010B	AI
SPLP Metals										
Chromium, SPLP	ND		mg/l	0.01	1	07/22/08 12:30	07/24/08 19:04	EPA 3005A	1,6010B	MG

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

SAMPLE RESULTS

Lab ID:	L0810715-03	Date Collected:	07/18/08 08:40
Client ID:	RDS.AOC17.CS6.2	Date Received:	07/18/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series										
Chromium, Total	78		mg/kg	0.55	1	07/21/08 10:30	07/25/08 20:43	EPA 3050B	77,6010B	AI
SPLP Metals										
Chromium, SPLP	0.03		mg/l	0.01	1	07/22/08 12:30	07/24/08 19:07	EPA 3005A	1,6010B	MG

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

SAMPLE RESULTS

Lab ID:	L0810715-04	Date Collected:	07/18/08 08:45
Client ID:	RDS.AOC17.CS7.1	Date Received:	07/18/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series										
Chromium, Total	13		mg/kg	0.53	1	07/21/08 10:30	07/25/08 20:46	EPA 3050B	77,6010B	AI
SPLP Metals										
Chromium, SPLP	ND		mg/l	0.01	1	07/22/08 12:30	07/24/08 18:24	EPA 3005A	1,6010B	MG

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

SAMPLE RESULTS

Lab ID:	L0810715-05	Date Collected:	07/18/08 08:45
Client ID:	RDS.AOC17.CS7.2	Date Received:	07/18/08
Sample Location:	DANBURY, CT	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series										
Chromium, Total	20		mg/kg	0.54	1	07/21/08 10:30	07/25/08 20:49	EPA 3050B	77,6010B	AI
SPLP Metals										
Chromium, SPLP	ND		mg/l	0.01	1	07/22/08 12:30	07/24/08 19:11	EPA 3005A	1,6010B	MG

Project Name: RISDON **Lab Number:** L0810715

Project Number: 97001 **Report Date:** 07/28/08

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by CT RCP 6000/7000 series for sample(s): 01-05 Batch: WG329801-1									
Chromium, Total	ND		mg/kg	0.50	1	07/21/08 10:30	07/24/08 18:48	77,6010B	AI
Silver, Total	ND		mg/kg	0.50	1	07/21/08 10:30	07/24/08 18:48	77,6010B	AI

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals for sample(s): 01-05 Batch: WG329973-3									
Chromium, SPLP	ND		mg/l	0.01	1	07/22/08 12:30	07/24/08 18:18	1,6010B	MG
Silver, SPLP	ND		mg/l	0.007	1	07/22/08 12:30	07/24/08 18:18	1,6010B	MG

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RISDON

Project Number: 97001

Lab Number: L0810715

Report Date: 07/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals by CT RCP 6000/7000 series Associated sample(s): 01-05 Batch: WG329801-2					
Chromium, Total	92	-	75-125	-	30
Silver, Total	96	-	75-125	-	30
SPLP Metals Associated sample(s): 01-05 Batch: WG329973-4					
Chromium, SPLP	100	-	80-120	-	
Silver, SPLP	96	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
SPLP Metals Associated sample(s): 01-05 QC Batch ID: WG329973-2 QC Sample: L0810715-04 Client ID: RDS.AOC17.CS7.1									
Chromium, SPLP	ND	0.2	0.19	95	-	-	75-125	-	20
Silver, SPLP	ND	0.05	0.045	90	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
SPLP Metals Associated sample(s): 01-05 QC Batch ID: WG329973-1 QC Sample: L0810715-04 Client ID: RDS.AOC17.CS7.1					
Chromium, SPLP	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

SAMPLE RESULTS

Lab ID: L0810715-01
Client ID: RDS.AOC17.CS5.1
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 07/18/08 08:35
Date Received: 07/18/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	89		%	0.10	1	-	07/21/08 17:10	30,2540G	SD

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

SAMPLE RESULTS

Lab ID: L0810715-02
Client ID: RDS.AOC17.CS6.1
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 07/18/08 08:40
Date Received: 07/18/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	87		%	0.10	1	-	07/21/08 17:10	30,2540G	SD

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

SAMPLE RESULTS

Lab ID: L0810715-03
Client ID: RDS.AOC17.CS6.2
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 07/18/08 08:40
Date Received: 07/18/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	87		%	0.10	1	-	07/21/08 17:10	30,2540G	SD

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

SAMPLE RESULTS

Lab ID: L0810715-04
Client ID: RDS.AOC17.CS7.1
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 07/18/08 08:45
Date Received: 07/18/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	90		%	0.10	1	-	07/21/08 17:10	30,2540G	SD

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

SAMPLE RESULTS

Lab ID: L0810715-05
Client ID: RDS.AOC17.CS7.2
Sample Location: DANBURY, CT
Matrix: Soil

Date Collected: 07/18/08 08:45
Date Received: 07/18/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	88		%	0.10	1	-	07/21/08 17:10	30,2540G	SD

Lab Duplicate Analysis
Batch Quality Control

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-05 QC Batch ID: WG329874-1 QC Sample: L0810631-02 Client ID: DUP Sample					
Solids, Total	83	84	%	1	20

Project Name: RISDON
Project Number: 97001

Lab Number: L0810715
Report Date: 07/28/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0810715-01A	Amber 250ml unpreserved	A	N/A	2.1C	Y	Absent	CT-AG-6010T(180),TS(7)
L0810715-01B	Plastic 250ml HNO3 preserved spl	A	<2	2.1C	Y	Absent	AG-PI(180)
L0810715-02A	Amber 250ml unpreserved	A	N/A	2.1C	Y	Absent	TS(7),CT-CR-6010T(180)
L0810715-02B	Plastic 250ml HNO3 preserved spl	A	<2	2.1C	Y	Absent	CR-PI(180)
L0810715-03A	Amber 250ml unpreserved	A	N/A	2.1C	Y	Absent	TS(7),CT-CR-6010T(180)
L0810715-03B	Plastic 250ml HNO3 preserved spl	A	<2	2.1C	Y	Absent	CR-PI(180)
L0810715-04A	Amber 250ml unpreserved	A	N/A	2.1C	Y	Absent	TS(7),CT-CR-6010T(180)
L0810715-04B	Plastic 250ml HNO3 preserved spl	A	<2	2.1C	Y	Absent	CR-PI(180)
L0810715-05A	Amber 250ml unpreserved	A	N/A	2.1C	Y	Absent	TS(7),CT-CR-6010T(180)
L0810715-05B	Plastic 250ml HNO3 preserved spl	A	<2	2.1C	Y	Absent	CR-PI(180)

*Hold days indicated by values in parentheses

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name:	RISDON	**Lab Number:**	L0810715
Project Number:	97001	**Report Date:**	07/28/08

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

77 Connecticut DEP Quality Assurance and Quality Control Requirements for SW-846 Methods. CTDEP Reasonable Confidence Protocols (RCPs). Version 1.0, July 2005.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

07280812:01

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 7/18/08

ALPHA Job #: L0816715

ALPHA TECHNICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: WOODARD + CURRAN

Address: 35 NEW ENGLAND BUS. CTR. SUITE 180. ANDOVER, MA

Phone: 866.702.6371

Fax: 978.557.7948

Email: JHAMEL@WOODARDCURRAN.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RISDON

Project Location: DANBURY, CT

Project #: 97001.

Project Manager: JEFF HAMEL

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 7/25/08 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
CT RCP METHOD	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Recuirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOTAL + SPLP SILVER	TOTAL + SPLP CHROM	Sample Specific Comments	TOTAL # BOTTLES
10715-01	RDS.AOC17.CS5.1	7/18/08	835	S	CG	1			1
-02	RDS.AOC17.CS6.1	↓	840	S	CG		1		1
-03	RDS.AOC17.CS6.2	↓	840	S	CG		1		1
-04	RDS.AOC17.CS7.1	↓	845	S	CG		1		1
-05	RDS.AOC17.CS7.2	↓	845	S	CG		1		1

Container Type	G	G
Preservative	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	7/18/08 14:00		7/18/08 14:00
	7/18/08 14:50		7/18/08 14:15
	7/18/08 16:20		7/18/08 16:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)