Engineering Certification Report

Brownfield Environmental Restoration Project
(Project No. B00053-4)

Riverside Technology Park - Lot No. 6
City of Schenectady, New York

Prepared For:

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Table of Contents

Engineering Certification Report
Brownfield Environmental Restoration Project No. B00053-4
Riverside Technology Park – Lot 6, Schenectady, NY

Table of Contents (cont.)

List of Appendices

Engineering Certification Report
Brownfield Environmental Restoration Project No. B00053-4
Riverside Technology Park – Lot 6, Schenectady, NY

I. Executive Summary

This Engineering Certification Report documents the remedial construction activity at the Riverside Technology Park, Lot 6, site under the NYS Brownfield Restoration Program. This site is owned by the City of Schenectady IDA and was investigated over the period 1999 through 2003, culminating in a DEC Record of Decision (ROD) issued March 2004. Remedial construction on the site in accordance with the Record of Decision took place from March through May 2005, with substantial completion determined in August 2005. Remedial construction activities were provided under a general contract to Valley Equipment Company of Schenectady, NY.

Remediation consisted of excavation and removal of 9,714.5 tons of petroleum-contaminated soil with disposal at permitted landfill facilities or treatment by thermal destruction. Excavations were backfilled to pre-existing grades with imported granular fill soil. Also included was collection and treatment of groundwater from excavations, prior to discharge to the City of Schenectady POTW (654,133 gallons).

The Investigation Phase of the Brownfield Project installed eight ground water monitoring wells. These wells were decommissioned and removed as part of the remediation activity on March 17, 2005

The DEC ROD called for the following cleanup goals:

"• Reduce, control, or eliminate to the extent practicable the petroleum contamination present within the soils on site.
- Eliminate the potential for direct human or animal contact with the contaminated soils during site redevelopment.
- Prevent, to the extent practicable, migration of contaminants in the subsurface to groundwater.
- Provide, to the extent practicable, for attainment of SCGs for soil and ground water quality."

The Project Design Report called for the following specific cleanup requirements for contaminated soils:

> "Individual Volatile Organic Compounds (VOCs) at/or less than 10 parts per million (PPM) and ethyl benzene at/or less than 5.5 ppm and xylene at/or less than 1.2 ppm, and Total Volatile Organic Compounds (VOCs) less than 100 parts per million (ppm)."

It is intended that the property be available for light industrial or commercial use, however the property shall be restricted from residential development, and shall be subject to an Environmental Easement including a Site Management Plan (SMP). The SMP calls for institutional controls including:

- Filed Environmental Easement on the property,
- General site use restrictions,
- Specific restrictions regarding handling and use of ground water, and
- Specific restrictions regarding soil disturbance.

The remediation cleanup goals were attained in all but two specific areas. These two areas were impacted by physical site limitations that did not permit complete excavation of soil to the limits of known contamination. These areas are identified as "Area A" and "Area B."

Participants

Holt Consulting - Engineering design, construction oversight and inspection and preparation of this Engineering Certification Report.

Valley Equipment Company - Remedial construction general contractor.

ECS Consulting - Prepared and implemented the Project Health and Safety Plan and the Community Air Monitoring Plan.

Phoenix Environmental Laboratories - Laboratory analyses of soil and water samples.

Environmental Cleanup Solutions - Ground water monitoring well decommissioning and removal.

ESMI - Disposal by thermal destruction of petroleum contaminant constituents in excavated soil.

Town of Colonie Municipal Landfill & City of Albany Municipal Landfill - Disposal at landfill of petroleum-contaminated excavated soil..

NYS DEC - Oversight of the project design & construction.

Lot 6 Remediation Construction Summary

Project Construction Schedule

The milestone or other significant dates relating to the performance of the Project are:

Receipt of Construction Bids	6/30/04
Notice of Award of General Contract	7/20/04
General Contract Date	11/17/04
Project Start-up Meeting	1/19/05
Site Mobilization	2/10/05
Excavation Initiated	2/23/05
Excavation Completed	4/29/05
Backfilling Completed	5/10/05
Substantial Project Completion	5/18/05
Final Site Inspection	8/25/05

Progression

Limited excavation consisting of stripping of clean surface soils began on February 23, 2005 in Project Area B. Excavation of contaminated soils began at the southeast corner of Project Area A on March 15, 2005, and progressed generally from south the north within Project Area A, then east to west within Project Area A, and ultimately north to include all of Project Area B.

Excavation of Contaminated Soil

The progress of the limit of excavation was monitored by measuring VOC vapor within excavation wall and floor soil samples. Indications of uncontaminated conditions, including the lack of visual indicators of contamination or odors, or VOC concentrations below approximately10 ppm by PID screening, was accepted as evidence that the excavation had advanced beyond the area of soil contamination. Uncontaminated conditions were verified by the taking of verification soil samples for laboratory testing for the Project SCGs. These samples were generally taken on a 30-foot spacing on the excavation perimeter wall.

The depth of excavation varied from 11 to 13 feet below ground surface (bgs) at a silt layer. Verification soil samples were collected and analyzed to document the achievement of cleanup levels at this depth, generally at a 30-foot spacing throughout the excavation floor.

Excavation of contaminated soil progressed to include the entire defined Project Area A and progressed further to the north to include the entire Project Area B and the area between the defined A and B Project Areas. The total plan area subject to removal of contaminated soil was measured at 18,350 square feet (0.42 acres), comprising a volume of about 4,970 cubic yards. This included 6,951.54 tons disposed of at landfill, and

2,762.96 tons disposed of by thermal destruction of petroleum constituents, for a total of 9,714.5 tons excavated and disposed.

The remediation cleanup goals were attained in all but two specific areas. These two areas were impacted by physical site limitations that did not permit complete excavation of soil to the limits of known contamination. These areas are identified in the Site Management Plan (SMP) as "Area A" in the central portion of Lot No. 6 and "Area B" in the western limit of Lot No. 6 along a portion of the existing City of Schenectady sewer lines.

The Lot No. 6 property of the remediation project is subdivided into two separate parcels, the larger parcel being "Lot No. 6" containing SMP Area A and the smaller parcel being the "sewer parcel" situated along the western edge of the project Lot No. 6 and containing SMP Area B.

Delays & Weather Impacts

There were several periods of delay in project execution and excavation of contaminated soils, due in part to landfill availability, weather conditions, air quality (odor), and Contractor inexperience or poor execution decisions and direction.

Excavation Dewatering

Sumps placed in the active excavation areas and moved as required to facilitate excavation. The sumps consisted of 10 to 12 foot lengths of perforated 24-inch diameter corrugated metal drainage pipe, installed vertically with a trash pump installed at the bottom of the installed pipe.

A total of 42 frac tank "fillings" were completed during the duration of project dewatering. The frac tank "fillings" varied from about 10,000 to 19,000 gallons. Each "filling" was sampled for testing to POTW discharge criteria prior to release. A total of 654,133 gallons of construction water was collected and released to the POTW after storage in frac tanks to allow settlement of suspended solids. This total was comprised of 375,109 gallons released without carbon pre-treatment, and 279,024 gallons released after passing through dual drums of activated carbon media as pre-treatment by carbon adsorbtion of organic compounds.

Community Air Monitoring

The project Community Air Monitoring Plan (CAMP) was prepared by ECS in accordance with the NYSDOH requirements presented in the Project Design Manual and was followed throughout the construction period. This CAMP called for continuous monitoring of ambient air at the project perimeter at all times when excavated soil was either being excavated, removed, or otherwise handled.

Odor Control

Strong petroleum odors were commonly evident during excavation and handling of contaminated soil. These odors were often noticeable beyond the project perimeter although air monitoring and screening for VOCs did not indicate the presence of VOCs at the limit of sensitivity of the instruments, typically about 0.1 ppm.

On March 4, 2005 complaints from neighboring land users to the DEC prompted the institution of odor control techniques that were employed at all times that contaminated soils were being excavated or handled after this date. These techniques included the covering of all exposed un-completed excavation and piles with plastic sheeting, and the spray application of BioSolve® vapor suppression solution to recently excavated, exposed, or stockpiled contaminated soils. These measures were effective in controlling odors and no further complaints were received.

Water Testing

Testing of collected construction water was provided prior to release to verify that collected and stored water met the POTW acceptance criteria. This criteria included limitations on metals, suspended solids, and organic compounds. In summary, total toxic organics were to be < 2.13 mg/L and individual organic compounds were to be < 100 ug/L prior to release to the POTW. Each frac tank was tested. If testing indicated that treatment was required, the tank discharge was passed through pre-treatment and a treatment effluent sample was collected and tested to verify/document the effectiveness of pre-treatment.

Backfill & Grading

The excavation was backfilled with clean earth fill from a permitted commercial mining source. The fill soil provided is characterized as a clean coarse to fine sand meeting environmental testing criteria. Backfill was placed by dozer in lifts not greater than one foot, and compacted utilizing a motorized vibratory steel drum roller. Typically a minimum of 4 passes with the roller were accomplished per lift. Backfilling of the excavation was begun of March 31 and generally following the course of the excavation after clearance by evidence of acceptable verification soil sample testing results. Placement of backfill was completed on May 10, 2005.

Final Seeding & Site Condition

Final grading of the site was accomplished the week of May 10, 2005 and resulted in de-mobilization of all equipment, frac tanks, and office and supply trailers, re-establishing the pre-construction grades, and repairing areas of equipment rutting or other surface damage. The stormwater/silt control fence installed during the pre-construction period along the west side of the site was left in-place to provide continued control during establishment of seeded areas.

Surface areas that were significantly damaged by construction operations, or were barren due to imported backfill placement, were seeded including a total area of 50,390 square feet (1.16 acres).

Attainment of Project Goals & Cost Summary

In all but the two specific areas of remaining contaminated soil ("Area A" and "Area B") the Project goals were attained. All contaminated soils were removed from the site and properly disposed of (except Areas A and B) and the site was restored to its pre-construction condition. The two small areas of remaining soil contamination have been identified and characterized and will be referenced in property deed filings and otherwise addressed utilizing institutional controls as described in the Site Management Plan.

Considering the record of removed soils, verification soil testing, and removed and treated construction water, as well as the institutional controls to be implemented, the Project Goals were attained. The site is suitable for future use characterized as light industrial or commercial, consistent with the specified and proposed industrial controls. Residential use will not be allowed.

Cost Summary

The Lot 6 Project Remediation work was publicly bid with a bid due date of June 30, 2004. Four qualified firms submitted bids for the base work, ranging from $448,387 to $573,363. The remediation work was awarded to the low bidder, Valley Equipment Company, Inc. (VEC). The total value of the completed Project work was $716,130, compared to the bid amount of $448,387. This represents an increase of $267,743, or an increase of 60%.

Western Fill Soil Remediation

Contaminated soils identified with samples from Test Pit No. C-10 during the site investigation were excavated to the limit of contamination and removed. This work was not a formal part of the Brownfields Remediation Project, but was required by the DEC to address and remove contaminated soils identified during the Brownfield site investigation.

Three soil samples were taken at a depth of 2.5 to 3.0 feet from the walls of the TP-C10 area excavation on April 21, 2005 and were tested by EPA method 8270 for PAHs. Testing was provided by Adirondack Environmental Services, Albany, NY. This laboratory reported that these compounds were either not detected at the method detection limit, or were detected at concentrations above, but close to, the SCG criteria (but well below the concentrations detected in the investigation samples).

Considering the presence of asphalt pavement rubble as a likely source of the detected SVOCs in the fill soils surrounding the C-10 location, and the very low concentrations detected, the DEC considered the verification samples did not indicate significant levels of contamination remaining in the soils. After review and evaluation of the verification soil sample testing a total of 19 tons of excavated soil (approximately 10 cubic yards) was disposed of at the City of Albany Landfill on April 29, 2005.

Verification testing confirmed that the significantly contaminated soil at the location of TP-C10 had been removed and the remaining soil did not indicate significant remaining contamination. This Project Goal was attained.

Lot 6 Site Management Plan

Institutional controls called for on the remediated Riverside Technology Park Lot-6 parcel include subdivision of the parcel to separate the City of Schenectady sewer line easement and an area of remaining contaminated soil ("Area B") from the remaining parcel, and the implementation of a Site Management Plan that is filed as an environmental easement referenced in the deeds of each new parcel.

The Site Management Plan specifies property use limitations, restrictions, and precautions and procedures to be taken during the disturbance or excavation of any soils on either of the subdivided Lot-6 parcel and is attached to the respective deeds. This includes:

- Filed Environmental Easement on the property,
  (Schenectady County Clerk, Book 1786, page 966, 8/5/08)
- General site use restrictions,
- Specific restrictions regarding handling and use of ground water, and
- Specific restrictions regarding soil disturbance.

* * *

Engineering Certification Report
Brownfield Environmental Restoration Project No. B00053-4
Riverside Technology Park – Lot 6, Schenectady, NY

1.0 Introduction

On behalf of the City of Schenectady Industrial Development Agency (COSIDA), Holt Consulting of Valatie, New York has prepared this Engineering Certification Report to document the remedial construction activity of the Riverside Technology Park, Lot 6, site under the NYS Brownfield Restoration Program (refer to enclosed Site Location Map). This site was investigated under the Brownfield Restoration Program over the period 1999 through 2003, culminating in a DEC Record of Decision (ROD) issued March 2004. Remedial construction on the site in accordance with the Record of Decision took place from March 2005 through May 2005, with substantial completion determined in August 2005. Remedial construction activities were provided under a general contract to Valley Equipment Company of Schenectady, NY, by the City of Schenectady IDA.

Remediation consisted of excavation and removal of petroleum-contaminated soil with disposal at permitted landfill facilities or treatment by thermal destruction at a remote, permitted commercial facility. Excavations were backfilled to pre-existing grades with imported granular fill soil. Also included was collection and treatment of groundwater from excavations, prior to discharge to the City of Schenectady POTW.

Activities included the removal and disposal of 9,714.5 tons of petroleum contaminated soil, and collection and discharge of 654,133 gallons of construction water (largely groundwater from excavation de-watering), with verification media testing and community air monitoring in accordance with the DEC-approved Project Design Report.

The DEC ROD was prepared on the basis of the Site Investigation / Remedial Alternatives Report prepared by Holt Consulting, dated March 2003, and construction proceeded in accordance with the Project Design Report (Bid Documents and Specifications) and Project Drawings prepared by Holt Consulting, dated April, 2004. A site plan presenting the work to be completed, titled "Site Plan, Contaminated Soil Site Remediation" (Dwg. No. 03-158.06-4), is included in Appendix 10.

The DEC ROD called for the following cleanup goals:

"• Reduce, control, or eliminate to the extent practicable the petroleum contamination present within the soils on site.

- Eliminate the potential for direct human or animal contact with the contaminated soils during site redevelopment.
- Prevent, to the extent practicable, migration of contaminants in the subsurface to groundwater.

- Provide, to the extent practicable, for attainment of SCGs for soil and ground water quality."

The Project Design Report called for the following specific cleanup requirements for contaminated soils:

"Individual Volatile Organic Compounds (VOCs) at/or less than 10 parts per million (PPM) and ethyl benzene at/or less than 5.5 ppm and xylene at/or less than 1.2 ppm, and Total Volatile Organic Compounds (VOCs) less than 100 parts per million (ppm)."

It is intended that the property be available for light industrial or commercial use, however the property shall be restricted from residential development, and shall be subject to an Environmental Easement including a Site Management Plan. In addition the DEC ROD called for institutional controls to be applied as follows:

"Institutional controls in the form of existing use and development restrictions preventing the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by the Schenectady County Department of Health."

Specific institutional controls include:

- Filed Environmental Easement on the property (Schenectady County Clerk, Book 1786, page 966, 8/5/08)
- General site use restrictions,
- Specific restrictions regarding handling and use of ground water, and
- Specific restrictions regarding soil disturbance.

The remediation cleanup goals were attained in all but two specific areas. These two areas were impacted by physical site limitations that did not permit complete excavation of soil to the limits of known contamination. These areas are identified as "Area A" in the central portion of Lot No. 6 and "Area B" in the western limit of Lot No. 6 along a portion of the existing City of Schenectady sewer lines. In these areas soil contamination by petroleum products has been confirmed up to:

	Target VOCs (ppm)	VOC TICs (ppm)*
Area A	None	92.2
Area B	360.5	856.0

* Sum of top ten tentatively identified compounds (VOCs)

The Lot No. 6 property of the remediation project is subdivided into two separate parcels, the larger parcel being "Lot No. 6" containing Area A and the smaller parcel being the "sewer parcel" situated along the western edge of the project Lot No. 6 and containing Area B.

A property survey drawing titled "Map Showing Survey, Riverside Technology Park, Revised Lot 6" (by ABD Engineers & Surveyors, Dwg. No. 2447A-NEW6, Rev. 1, 10-3-05) is a part of the environmental easement and Site Management Plan and presents the property limits and the Areas A and B. A copy of this drawing is included with the Site Management Plan in Appendix 9

Changes to the completed remedial design and Project description included:

- The laboratory test method for soil verification testing was changed from EPA method 8021 to EPA 8260 (to include the ten highest tentatively identified compounds - TICs) at the request of the DEC.

- Petroleum odors during soil removal and handling operations. (Spray application of BioSolve® vapor suppression solution).

- The area of excavated contaminated soil was increased from the estimated 0.22 acres to 0.42 acres as the limits of petroleum contamination were discovered during the course of soil excavation. The larger area and site restrictions necessitated the non-attainment of cleanup criteria in two limited areas (identified as Area A (southeast) and Area B (west, along the City sewer lines).

- The amount of excavated contaminated soil was increased from the estimated 6,200 tons to 9,714.5 tons as the limits of petroleum contamination were discovered during the course of soil excavation.

- The disposal of contaminated soil included disposal of some soils by thermal destruction (at ESMI, Fort Edward, NY) in addition to the planned disposal at landfill in order to expedite the project schedule by increasing the total capacity of disposal facility availability.

- The amount of removed and handled construction water increased from the estimated 200,000 gallons to 654,133 gallons due to a combination of the increased size of excavation, increased duration of the project completion schedule, and periods of heavy precipitation.

This Engineering Certification Report includes a summary of all remedial construction completed and the results of all construction quality control testing performed.

2.0 Project Participants & Responsibilities

2.1 Holt Consulting

Holt Consulting of Rensselaer, New York, provided engineering oversight and inspection services by qualified personnel during remedial construction activities which included site preparation, contaminated soil excavation and removal, construction water collection and treatment and disposal, monitoring of site health and safety and community air monitoring, verification media sampling, and construction excavation backfill and grading. This Engineering Certification Report is prepared and presented by Holt Consulting.

2.2 Valley Equipment Company

Valley Equipment Company of Schenectady, NY, was the remedial construction general contractor and provided remedial construction services under contract with COSIDA. Work included providing the labor and equipment for all on-site construction activities including site preparation, soil excavation, excavation maintenance and de-watering, collection and treatment of construction water (excavation de-watering and storm run-off and snow melt), removal and disposal of contaminated soils, backfilling of excavations, site grading and final site restoration, and, through sub-contact, soil and water verification testing and on-site health and safety monitoring services.

2.3 ECS Consulting

ECS Consulting of Eastmeadow, Massachusetts, provided preparation of the Project Health and Safety Plan and the Community Air Monitoring Plan under a subcontract to Valley Equipment Company. ECS provided full time on-site personnel during soil excavation and disturbance activities to provide oversight of the provisions of the project Health & Safety Plan and to provide air monitoring measurement and interpretation under the community Air Monitoring Plan.

2.4 Phoenix Environmental Laboratory

Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut provide laboratory analyses of soil and water samples collected during the course of the Project as called for in the Project Manual, under a subcontract to Valley Equipment Company.

2.5 Environmental Cleanup Solutions

Environmental Cleanup Solutions, Inc. of Scotia, NY, provided ground water monitoring well decommissioning and removal services, under a subcontract to Valley Equipment Company.

2.6 ESMI

ESMI of Fort Edward, NY, accepted contaminated soil from the Lot 6 site as removed by Valley Equipment, and provided disposal by thermal destruction of petroleum contaminant constituents.

2.7 Town of Colonie Municipal Landfill; City of Albany Municipal Landfill

Municipal sanitary landfills owned an operated by the Town of Colonie and the City of Albany accepted for disposal or as alternate cover material petroleum contaminated soil removed from the Lot 6 site by Valley Equipment. Both landfills operated under valid permits issued by the NYSDEC and are approved to accept such materials.

2.8 NYS DEC

The NYSDEC provided oversight of the project, including part-time on-site inspection by DEC personnel, to assess compliance of project activities with the approved Project Manual.

2.9 Engineer's Certification

Holt Consulting certifies, on the basis of on-site observation and documentation as presented herein, that the construction activities completed in the remediation of the Riverside Technology Part, Lot 6, site were completed in substantial compliance with the Brownfield Environmental Restoration Program, the NYSDEC issued ROD dated March 2003, and the NYSDEC approved Project Design Report with Specification, and Drawings.

Date: 12/18/06
8/15/08

Signed:

Jeffrey R. Holt, P.E.
New York P.E. No. 57039

3.0 Construction Documentation

During all periods of active Contractor soil-related operations on-site, including all soil disturbance, excavation or disposal, full-time inspection of Contractor activities was provided by Holt Consulting. Daily logs recording inspector presence and general Contractor activity are attached in Appendix 2. Digital photos of site condition, soil excavation, and site reclamation progress were taken periodically and are presented in Appendix 8.

The specific activities accomplished during the performance of the Lot 6 remedial construction project are presented in summary discussion in this Section, below:

Lot 6 Remediation

3.1 Project Construction Schedule

The milestone or other significant dates relating to the performance of the Project are indicated below. Further information regarding project schedule may be found in the discussion of specific sections below:

Receipt of Construction Bids	6/30/04
Notice of Award of General Contract	7/20/04
General Contract Date	11/17/04
Project Start-up Meeting	1/19/05
Site Mobilization	2/10/05
Excavation Initiated	2/23/05
Excavation Completed	4/29/05
Backfilling Completed	5/10/05
Substantial Project Completion	5/18/05
Final Site Inspection	8/25/05

3.2 Site Preparation & Pre-construction Testing, Monitor Well Decommissioning

Site preparation was comprised of installing security fence around the perimeter of the site property, installing silt fence on the down-gradient side of the site property, clearing of woody vegetative growth that would interfere with remediation activities, construction of site access and haul roads, and construction of a truck decontamination pad with spray collection sump. Also included was pre-construction testing of site surface soils beneath the decontamination pad and sump

The decontamination pad was constructed of steel mesh reinforced concrete and a pre-cast concrete drainage sump which varied from the installation called for in the Project Design Manual but which was approved for construction and use by Holt Consulting and by the DEC. Site preparation began with initial Contractor mobilization to the site on 2/10/05 and was completed by 2/25/05.

Three pre-construction samples of soil beneath the decontamination pad were taken and tested as called for in the Project Design Manual. These are identified as soil samples DP-PRC-SS01, -SS02, and –SS03. Testing results are presented in Appendix 6 and Appendix 8.

The Investigation Phase of the Brownfield Project installed eight ground water monitoring wells. These wells were decommissioned and removed as part of the remediation activity. Well Decommissioning was provided by Environmental Cleanup Solutions, Inc. and was accomplished on March 17, 2005. The steel casing protecting each well was removed and set aside for later removal as scrap metal from the Project. Each well surface pad of 4 to 6 inch thick concrete, approximately 5 feet square, was broken and set aside for later removal as bulky debris.

For each of wells HC-1, HC-3, HC-4s, HC-4d, HC-5, and HC-6 attempt was made to withdraw the PVC well casing intact, however in each case the well casing fractured at from 5 to 10 feet depth. The well bore and the remaining pvc casing and well screen was drilled out with hollow stem auger drilling equipment. A portland cement/bentonite grout slurry was introduced into each well through the hollow auger casing string as the casing was being withdrawn, being careful to place enough grout slurry to fully fill the removed casing volume as it was withdrawn. After withdrawal grout slurry was added to the well bore until a stable slurry surface was maintained at the ground surface. Each ground water monitoring well was decommissioned in this manner.

Well HC-2d was fully grouted in-place up to a depth of 16 feet below ground surface. Well HC-2s (and the top 13 feet of well HC-2d) was entirely removed during the contaminated soil excavation process. The decommissioned well HC-6 was also removed during the excavation of contaminated soil.

3.3 Soil Excavation & Disposal

Progression

Excavation of soils began on February 23, 2005 in Project Area B comprised of stripping of uncontaminated soil stripped to 2-ft. depth and stockpiled on-site for later backfill use. Documentation of the uncontaminated nature of this soil is confirmed by testing of soils samples B-FILL-SS01 and B-FILL-SS02, see Appendix 6 and Appendix 8. Excavation activities moved to Area A to begin excavation and removal of contaminated soils.

Excavation of contaminated soils began at the southeast corner of Project Area A on March 15, 2005, and progressed generally from south the north within Project Area A and then east to west, within Project Area A.

The progress of the limit of excavation was monitored by measuring VOC vapor within excavation wall and floor soil samples. Indications of uncontaminated conditions, including the lack of visual indicators of contamination or odors, or VOC concentrations below approximately10 ppm by PID screening, was accepted as evidence that the excavation had advanced beyond the area of soil contamination. Uncontaminated conditions were verified by the taking of verification soil samples for laboratory testing for the Project SCGs. These samples were generally taken on a 30 foot spacing on the excavation perimeter wall, and a 30 foot spacing throughout the excavation floor.

The Project Design Report called for the following specific cleanup requirements for contaminated soils:

"Individual Volatile Organic Compounds (VOCs) at/or less than 10 parts pre million (PPM) and ethyl benzene at/or less than 5.5 ppm and xylene at/or less than 1.2 ppm, and Total Volatile Organic Compounds (VOCs) less than 100 parts per million (ppm)."

In the circumstance where the laboratory-reported results did not meet the project clean-up criteria, the excavation at the "failing" test location continued and additional soil sample(s) were taken until a satisfactory result was obtained. In these instances when a soil sample from a presumed excavation limit did not verify that cleanup requirements were met, the excavation was continued in the area of the "failing" test sample. This generally entailed excavation of soil by the excavation equipment of an additional 5 to 10 feet in a direction perpendicular to (into) the excavation wall, and generally from 10 to 20 feet along the excavation wall. This additional excavation was generally extended to the full depth of the surrounding excavation.

Upon completion of this additional excavation, soil samples were taken from the excavation wall and subjected to PID screening for VOCs. If the screening criteria of 10 ppm by PID was exceeded, the excavation was continued further until the screening criteria was met. When the PID screening criteria was met at the extended excavation wall, verification samples were taken and submitted to the laboratory for testing. If the laboratory testing verified compliance with the cleanup criteria, the excavation limit was determined to have been met. If the cleanup criteria was not achieved the excavation was carried further in the same manner.

Excavation proceeded in this manner to the limits of the excavation presented on drawing Dwg. No. 05-158.07-2 "Excavation Limit, Sub-Division & Soil Management Plan Areas," attached in Appendix 1. The depth of excavation varied from 11 to 13 feet below ground surface (bgs) at the silt layer. Verification soil samples were collected and analyzed to document the achievement of cleanup levels at this depth.

Excavation of contaminated soil progressed to include the entire defined Project Area A and progressed further to the north to include the entire Project Area B and the area between the defined A and B Project Areas. The total plan area subject to removal of contaminated soil was measured at 18,350 square feet, comprising a volume of about 4,970 cubic yards.

A comparison of quantities anticipated in the project Design Report and the actual areas and volumes of excavated soil are presented below:

	Design Report	Total Excavated
Project Area A (Sq. Ft.)	980	--
Project Area B (Sq. Ft.)	8,680	--
Total Area (Sq. Ft.)	9,660	18,350
Total Volume (Cu. Yds.)	3,675	4,970

Disposal of contaminated soil was accomplished by transport by truck to three facilities. These were the Town of Colonie Municipal Landfill, The City of Albany Municipal Landfill, and the ESMI thermal destruction facility. The disposal site designated for the excavated soils removed on any given day was determined on the basis of daily facility import limitations of each of the facilities and excavation soil production. The following disposal was achieved:

Town of Colonie Landfill	2,573.08 tons
City of Albany Landfill	4,378.46 tons
ESMI Thermal Destruction	2,762.96 tons
Total	9,714.50 tons

The quantity of soil to be disposed that was anticipated in the project Design Report was 6,200 tons. A daily and weekly summary of soil disposal, recording tons disposed, disposal facility, and disposal facility scale ticket number are presented in Appendix 3.

Non-Attainment Areas

Two specific areas of contaminated soils were not excavated to the complete limits of contaminated soil, leaving two areas of remaining contaminated soil.

The Project Design Report called for the following specific cleanup requirements for contaminated soils:

"Individual Volatile Organic Compounds (VOCs) at/or less than 10 parts pre million (PPM) and ethyl benzene at/or less than 5.5 ppm and xylene at/or less than 1.2 ppm, and Total Volatile Organic Compounds (VOCs) less than 100 parts per million (ppm)."

The remediation cleanup goals were attained in all but two specific areas. These two areas were impacted by physical site limitations that did not permit complete excavation of soil to the limits of known contamination. These areas are identified in the Site Management Plan (SMP) as "Area A" in the central portion of Lot No. 6 and "Area B" in the western limit of Lot No. 6 along a portion of the existing City of Schenectady sewer lines.

A small area of contaminated soil remains in the southeast corner of Project Area A (specifically at grid coordinates (A-5')-(A-10') at a depth of 10 feet, verification soil sample A-VER SS-06. This area of contamination was left undisturbed since at the time of excavation its removal would have created a disruption in the site access and equipment operations, and may have resulted in the undermining of the established project access and haul road if the contamination been chased to uncontaminated conditions. This decision to leave the contamination in place, and address its presence with institutional controls, was made jointly by Holt Consulting and DEC field and office personnel.

The second area of remaining contaminated soil is located along the south-western excavation wall parallel and adjacent to the City of Schenectady sewer trunk lines (specifically at grid coordinate Line E-3', from grid line A-10' to E+10', at a depth of from 3 to 11 feet, verification soil samples A-VER SS-14 and SS-18. Excavation was not progressed closer to the sewer lines as a precautionary measure to avoid the potential undermining and damaging the sewer lines. This area of remaining contaminated soil will be addressed with institutional controls.

In these, areas soil contamination by petroleum products has been confirmed in excavation wall samples up to:

	Total Target VOCs (ppm)	SCG (ppm)	Total VOC TICs (ppm)*	SCG (ppm)
Area A				
Sample SS-01	ND	100	14.6	100
Sample SS-06	ND	100	92.2	100
Area B				
Sample SS-14	360.5	100	856.0	100
Sample SS-18	18.6	100	29.0	100

* Sum of top ten tentatively identified compounds (VOCs)
ND = Not Detected

The Lot No. 6 property of the remediation project is subdivided into two separate parcels, the larger parcel being "Lot No. 6" containing SMP Area A and the smaller parcel being the "sewer parcel" situated along the western edge of the project Lot No. 6 and containing SMP Area B.

A property survey drawing titled "Map Showing Survey, Riverside Technology Park, Revised Lot 6" (by ABD Engineers & Surveyors, Dwg. No. 2447A-NEW6, Rev. 1, 10-3-05) is a part of this Plan and presents the property limits and the SMP Areas A and B (included in Appendix 9).

Delays & Weather Impacts

There were several periods of delay in project execution and excavation of contaminated soils, due in part to landfill availability, weather conditions, air quality (odor), and Contractor inexperience or poor execution decisions and direction.

These included at least one day in February when landfills were not accepting soil due to snow clearing activities, and several days in March and April during which heavy rains shut down landfill acceptance of soils. These same days prevented excavation activities on-site due to saturated soil conditions and the soil excavation flooding with surface run-off and/or increased ground water flow into the open excavation. This was the case during a particularly heavy period of rain from March 31 through April 4, 2005.

The condition of strong petroleum odor traveling beyond the site perimeter in early March resulted in the cessation of excavation activities for about a week while odor control and suppression procedures were developed and implemented.

Some early delays in excavation and low productivity were due to the Contractor-selected dewatering method and insufficient on-site water storage capacity. The selected method of pumping from sumps within the excavation was overwhelmed by large discharges of ground water to the excavation and the slow Contractor response to required pumping rates and mobilizing additional frac tank storage capacity resulted in delays. Incomplete early excavation dewatering resulted in necessary stockpiling and surface dewatering of excavated soils, and in some instances saturated soils transported for disposal at landfill.

3.4 Debris Disposal

Debris disposal was comprised of buried concrete foundations, metal pipelines, decommissioned well pad concrete and steel casing, and occasionally large boulders. These stockpiled on-site as uncontaminated bulky materials and were disposed of at landfill (rocks and concrete) or as recovered scrap metal (metal pipe) in May 2005. A total of 105.33 tons of bulky debris was disposed.

3.5 Excavation De-watering & Water Management

Excavation Dewatering

Sumps placed in the active excavation areas and moved as required to facilitate excavation. The sumps consisted of 10 to 12 foot lengths of perforated 24-inch diameter corrugated metal drainage pipe, installed vertically with a trash pump installed at the bottom of the installed pipe. The pipe bottom (inside and outside) was bedded and surrounded in crushed stone to provide an anchor and filter for the installation. Discharge from the pumps was directed directly into frac tank storage on-site through sections of 4-inch diameter fire hose.

Excavation dewatering was initiated in Project Area A after the initial excavation depth reached the depth of the ground water table (about 5 feet). A sump assembly was installed in the south corner of Project Area A and excavation dewatering continued until standing water in the excavation was limited to less than one foot. Additional excavation wall removal proceeded, with excavation floor removal proceeding when dewatering lowered the water table to below the then current floor elevation. The sump assembly was relocated, and when necessary additional sump installations constructed and employed as necessary to maintain a dewatered condition as the excavation and soil removal progressed to completion.

Initial dewatering operations were quickly overwhelmed by the amount of ground water entering the excavation, and the excavation filled during periods of inactivity or downtime, and with heavy precipitation recharge to ground water. Increased installed storage capacity and greater attention to the importance of the dewatering operations on the part of the Contractor, as well as the on-set of dryer weather conditions, improved dewatering performance and allowed the Project to proceed after the initial difficulties.

Construction Water Management

The construction water management plan called for storage of all water (storm and excavation dewatering) in frac tanks for testing and staging for treatment prior to release to the city of Schenectady POTW. Storage was accomplished in three, 21,000-gallon capacity frac tanks staged on-site. Stored water was tested and either found to meet the POTW acceptance criteria for treatment and released, or treated prior to release by double carbon treatment in not meeting the POTW criteria.

A total of 42 frac tank "fillings" were completed during the duration of project dewatering. The frac tank "fillings" varied from about 10,000 to 19,000 gallons. Each "filling" was sampled for testing to POTW discharge criteria prior to release. A total of 654,133 gallons of construction water was collected and released to the POTW after storage in frac tanks to allow settlement of suspended solids. This total was comprised of 375,109 gallons released without carbon pre-treatment, and 279,024 gallons released after passing through dual drums of activated carbon media for pre-treatment by carbon adsorbtion of organic compounds.

Water testing is discussed in Section 3.8, laboratory report summaries are presented in Appendix 5 and Appendix 8.

3.6 Community Air Monitoring

The project Community Air Monitoring Plan (CAMP) was prepared by ECS in accordance with the NYSDOH requirements presented in the Project Design Manual and was followed throughout the construction period. This CAMP called for continuous monitoring of ambient air at the project perimeter at all times when excavated soil was either being excavated, removed, or otherwise handled.

ECS maintained trained personnel on-site whenever soil excavation, disturbance or movement occurred for operation and recording of the air monitoring equipment. The ECS CAMP monitoring report as well as summary daily field records are attached in Appendix 4.

CAMP exceedance criteria were not violated at any time during the Project, however nuisance odor was noted as discussed in Section 3.7, below.

3.7 Odor Control

Strong petroleum odors were commonly evident during excavation and handling of contaminated soil. These odors were often noticeable beyond the project perimeter although air monitoring and screening for VOCs did not indicate the presence of VOCs at the limit of sensitivity of the instruments, typically about 0.1 ppm

On March 4, 2005 complaints from neighboring land users to the DEC prompted the institution of odor control techniques that were employed at all times that contaminated soils were being excavated or handled after this date. These techniques included the covering of all exposed un-completed excavation and piles with plastic sheeting, and the spray application of BioSolve® vapor suppression solution (Westford Chemical Corp.) to recently excavated, exposed, or stockpiled contaminated soils. These measures were effective in controlling odors and no further complaints were received.

3.8 Water Testing

As noted in 3.5 above water testing was provided prior to release to verify that collected and stored water met the POTW acceptance criteria. This criteria included limitations on metals, suspended solids, and organic compounds, and is presented in full in Appendix 5. In summary, total toxic organics were to be < 2.13 mg/L and individual organic compounds were to be < 100 ug/L prior to release to the POTW. Each frac tank was tested as noted in section 3.5 above, in accordance with the Project Design Manual and the Construction Water Management Plan.

Samples of collected water held in each frac tank batch, or "filling," were tested for POTW discharge criteria. If POTW criteria were met satisfactorily, the frac tank contents could be released to the sewer without pre-treatment. If testing indicated that treatment was required, the tank discharge was passed through pre-treatment and a treatment effluent sample was collected and tested to verify/document the effectiveness of pre-treatment. During later stages of the Project all water was discharged with pre-treatment and a post-treatment effluent sample was collected but only analyzed if the tank batch sample did not meet POTW discharge criteria.

Test results are presented in Appendix 5 and Appendix 8, with test sample identification references to the sequential filling of the frac tanks, numbered 1 through 42. Samples are identified as A- or B-CON-WS01 through -WS42. A "Pre" suffix indicates a frac tank bulk sample prior to discharge, a "Eff" suffix indicates a sample of tank effluent after pre-treatment with carbon adsorbtion. On the basis of this testing 17 frac tank "fillings" (279,024 gallons) required pre-treatment, and 25 "fillings" (375,109 gallons) were released to the POTW without pre-treatment.

3.9 Soil Verification Testing & SCG Clean-up Criteria

Soil verification testing was completed on samples of soil taken in accordance with the Project Design Manual and the Contaminated Soil Management Plan. Verification soil samples were taken at a 30-foot interval on the excavation walls and on the excavation floor. Tested samples that met the criteria of the Soil Management Plan were evidence that the excavation had progressed beyond the area of contaminated soil, and excavation was not necessary beyond the location of the acceptable sample. Tested samples that did not meet the Soil Management Plan acceptance criteria called for continued excavation and removal of contaminated soils beyond the failing sample location.

Soil cleanup goals required that acceptable verification soil samples meet the following criteria, as specified in the Project Design Report:

"Individual Volatile Organic Compounds (VOCs) at/or less than 10 parts pre million (PPM) and ethyl benzene at/or less than 5.5 ppm and xylene at/or less than 1.2 ppm, and Total Volatile Organic Compounds (VOCs) less than 100 parts per million (ppm)."

A total of 47 verification soil samples were taken, identified as excavation wall (W - "wall") samples or excavation floor (F - "floor") samples. Laboratory testing was completed by EPA method 8260 with Target compounds and top ten TICS (tentatively identified compounds) reported. A total of 28 wall samples and 19 floor samples were taken, identified as A-VER-SS-01 through -47 ("A-VER-" for area "A" and "B-VER-" for area "B") In addition, 4 duplicate samples were taken of verification samples A-VER-SS-13, -27, -33, and -44, identified as DUPE-1 through DUPE-4, respectively. (Sample identification of laboratory report files on the enclosed CD are identified only as "SS-##." The prefix "A-VER-" is dropped.)

Verification sample locations are presented on the attached Dwg. No. 05-158.07-2 "Excavation Limit, Sub-Division & Soil Management Plan Areas," attached in Appendix 1 and test results are summarized and included in Appendix 6 and Appendix 8.

A review of the laboratory analytical data package was performed by Jennifer Warner Carter, P.G. The Data Usability Summary Reports (DUSRs) prepared by Ms. Carter are attached in Appendix 6.

3.10 Backfill & Grading

The excavation was backfilled with clean earth fill from the RJ Valente gravel pit, Halfmoon, NY, a permitted commercial mining source, and was placed into the excavation and compacted utilizing a motored vibratory steel drum roller. Pre-placement characterization testing of the backfill material was provided for the project SEG criteria. No contaminants were identified and the backfill material was accepted for use. Test results from samples "NEW FILL-1" and "NEW FILL-2" presented in Appendix 6 and Appendix 8.

Backfill soil was required to be from a NYSDOT-approved source, sand and gravel similar in consistency to existing materials, with a particle size not exceeding 2-inches, and free of heavy clay and deleterious material. The fill soil provided is characterized as a clean coarse to fine sand meeting the specifications and environmental testing criteria.

Backfill was placed by dozer in lifts not greater than one foot, and compacted utilizing a motorized vibratory steel drum roller. Typically a minimum of 4 passes with the roller were accomplished per lift. No specific compaction or density testing was called for in the Project Design Manual and none was performed.

Backfilling of the excavation was begun of March 31 at the southern end of the excavation and progressed west and north generally following the course of the excavation after clearance by evidence of acceptable verification soil sample testing results. Placement of backfill was completed on May 10, 2005

3.11 Final Seeding & Site Condition

Final grading of the site was accomplished the week of May 10, 2005 and resulted in de-mobilization of all equipment, frac tanks, and office and supply trailers, re-establishing the pre-construction grades, and repairing areas of equipment rutting or other surface damage. The stormwater/silt control fence installed during the pre-construction period along the west side of the site was left in-place to provide continued control during establishment of seeded areas. Surface areas that were significantly damaged by construction operations, or were barren due to imported backfill placement were seeded in accordance with the requirements of the Project Design Manual. A total of 50,390 square feet of seeded area was included. At the request of the Owner, a small stone-covered vehicle entrance and parking area and the perimeter security fence were left to remain on-site after the completion of construction.

3.12 Attainment of Project Goals & Cost Summary

In all but the two specific areas of remaining contaminated soil referenced in Section 3.3 above, the Project goals were attained. All contaminated soils were removed from the site and properly disposed of (except the two limited areas noted) and the site was restored to its pre-construction condition. The limit of contaminated soils, and proper removal to that limit was verified by laboratory testing of the implemented soil sample verification testing program. Construction water collected during the construction period was properly characterized and appropriately and properly pre-treated and/or released to the POTW.

The two small areas of remaining soil contamination have been identified and characterized and are referenced in property deed filings and otherwise addressed utilizing institutional controls as described in the Site Management Plan and the Environmental Easement attached in Appendix 9.

Considering the record of removed soils, verification soil testing, and removed and treated construction water, as well as the institutional controls to be implemented, the Project Goals were attained.

The site is suitable for future use characterized as light industrial or commercial, consistent with the specified and proposed industrial controls. Residential use will not be allowed. Institutional controls will include:

- Limiting end-use (e.g. prohibit child care facilities) to light industrial or allowed commercial use
- Prohibit agricultural or gardening (for consumption) use
- Prohibit ground water withdrawal as a potable water source
- Require conditional testing/monitoring for any ground water withdrawal
- Require structures designed/constructed to include basement/floor slab vapor intrusion prevention and/or control
- Require all construction/excavation/grading to be done in accordance with the Site Management Plan.

Cost Summary

The Lot 6 Project Remediation work was publicly bid with a bid due date of June 30, 2004. Four qualified firms submitted bids for the base work, ranging from $448,387 to $573,363. The remediation work was awarded to the low bidder, Valley Equipment Company, Inc. (VEC). VEC also submitted an alternate to the bid price for soil excavation and disposal at landfill ($34.10/ton) comprised of soil excavation and disposal by thermal destruction (at ESMI – at $44.00/ton). A tabulated bid summary is included in Appendix 10.

Change orders to the original contract scope or increases in bid quantities were awarded, including:

- Revised laboratory testing methods and requirements
- Petroleum vapor/odor control
- Disposal at ESMI (acceptance of the bid alternate, in addition to on-going disposal at landfill)
- Disposal of concrete debris
- Increases in the amounts of contaminated soil excavated, removed and disposed, and backfill placed
- Increases in the amounts of construction water handled and discharged
- Increases in the total soil and water laboratory analyses
- Increase in days requireing Health & Safety and Community Air Monitoring

A comparison of the impact of change orders and increases in payment item quantities is provided through examination of the summary bid tabulation and the final payment requisition submitted by VEC and approved (Application No. 13) upon Project completion. Both are included in Appendix 10.

The total value of the completed Project work was $716,130, compared to the bid amount of $448,387. This represents an increase of $267,743, or an increase of 60%.

Western Fill Soil Remediation

3.13 Soil Excavation & Disposal

Contaminated soils identified with samples from Test Pit No. C-10 during the site investigation were required to be excavated to the limit of contamination and removed as petroleum contaminated soil. This work was not a formal part of the Brownfields Remediation Project, but was required by the DEC to address and remove contaminated soils identified during the Brownfield site investigation. The location of excavation and verification soil samples is presented on the drawing titled "Excavation Limit, Sub-Division & Soil Management Plan Areas – Full Site" (Dwg. No. 05-158.07-2A), included in Appendix 1.

The investigation identified shallow soil fill contaminated with SVOCs above the applicable SCGs (DEC TAGM 4046) at a depth of 2.5 to 4 feet:

SVOC	ug/kg (ppb)	SCG (TAGM 4046) ug/kg (ppb)
benzo (a) anthracene	1,500	224
chrysene	1,300	400
benzo (k) anthracene	1,300	1,100
benzo (a) pyrene	1,100	61

Accordingly, the soils around the location of TP-C-10 were excavated to a depth of 4 feet on April 21, 2005 and properly held in a plastic lined and covered pile until verification testing was completed. The walls or floor of the excavation exhibited no visual or olfactory signs of contamination, but did contain included small pieces of broken and crushed asphalt pavement and asphalt-coated gravel.

Test results from the verification samples taken indicated:

SVOC	ug/kg (ppb)	SCG (TAGM 4046)
benzo (a) anthracene	ND - 370	224
chrysene	ND - 360	400

ND = Not Detected

3.14 Soil Verification Testing

Three soil samples were taken at a depth of 2.5 to 3.0 feet from the walls of the TP-C10 area excavation on April 21, 2005. There were identified as C10-A1, C10-B, and C10-C and were tested by EPA method 8270 for PAHs. Testing was provided by Adirondack Environmental Services, Albany, NY. This laboratory reported that these compounds were either not detected at the method detection limit, or were detected at concentrations above, but close to, the SCG criteria (but well below the concentrations detected in the investigation samples).

Considering the presence of asphalt pavement rubble as a likely source of the detected SVOCs in the fill soils surrounding the C-10 location, and the very low concentrations detected, the DEC considered the verification samples did not indicate significant levels of contamination remaining in the soils. The laboratory report is presented in Appendix 7. After review and evaluation of the verification soil sample testing a total of 19 tons of excavated soil (approximately 10 cubic yards) was disposed of at the City of Albany Landfill on April 29, 2005.

3.15 Attainment of Project Goals

Verification testing confirmed that the significantly contaminated soil at the location of TP-C10 had been removed and the remaining soil did not indicate significant remaining contamination. This Project Goal was attained.

4.0 Lot 6 Subdivision & Site Management Plan

Institutional controls called for on the remediated Riverside Technology Park Lot-6 parcel include subdivision of the parcel to separate the City of Schenectady sewer line easement and an area of remaining contaminated soil from the remaining parcel, and the implementation of a Site Management Plan to be filed as an environmental easement referenced in the deeds of each new parcel.

The Lot-6 subdivision was prepared by ABD Engineers & Surveyors, Schenectady, New York, in September 2005, and is presented on ABD drawing number 2447A-NEW6, titled "Map Showing Riverside Technology Park Revised Lot 6," dated September 27, 2005 (Rev. 1 10/3/05) (included in Appendix 9). This map identifies the bounds of each new parcel and specific areas as defined in the Site Management Plan ("Area A" on the Lot 6 parcel and "Area B" on the sewer line parcel), and is referenced in the deed of each parcel. The Metes and Bounds description of each parcel is included in Appendix 9.

The Site Management Plan specifies property use limitations, restrictions, and precautions and procedures to be taken during the disturbance or excavation of any soils on the Lot-6 parcel and is attached to the Lot-6 deed, and includes

- Filed Environmental Easement on the property,
  (Schenectady County Clerk, Book 1786, page 966, 8/5/08)
- General site use restrictions,
- Specific restrictions regarding handling and use of ground water, and
- Specific restrictions regarding soil disturbance.

It is intended that the property be available for light industrial or commercial use, however the property shall be restricted from residential development, and shall be subject to the Environmental Easement referencing and including this Site Management Plan. This Site Management Plan is presented in full in Appendix 9.

In summary, the soil management aspects of the Site Management Plan call for general soil management provisions to be applied to the entire Lot 6 Project parcel, and additional specific soil management provisions to be applied within the bounds of the identified Areas A and B, including:

- Require soil screening/monitoring for general site excavation or grading
- Require soil screening and testing, and development of Health & Safety Plan and specific excavation monitoring procedures for excavation in defined Soil Management Areas
- The same site restrictions identified in Section 3.12, above.

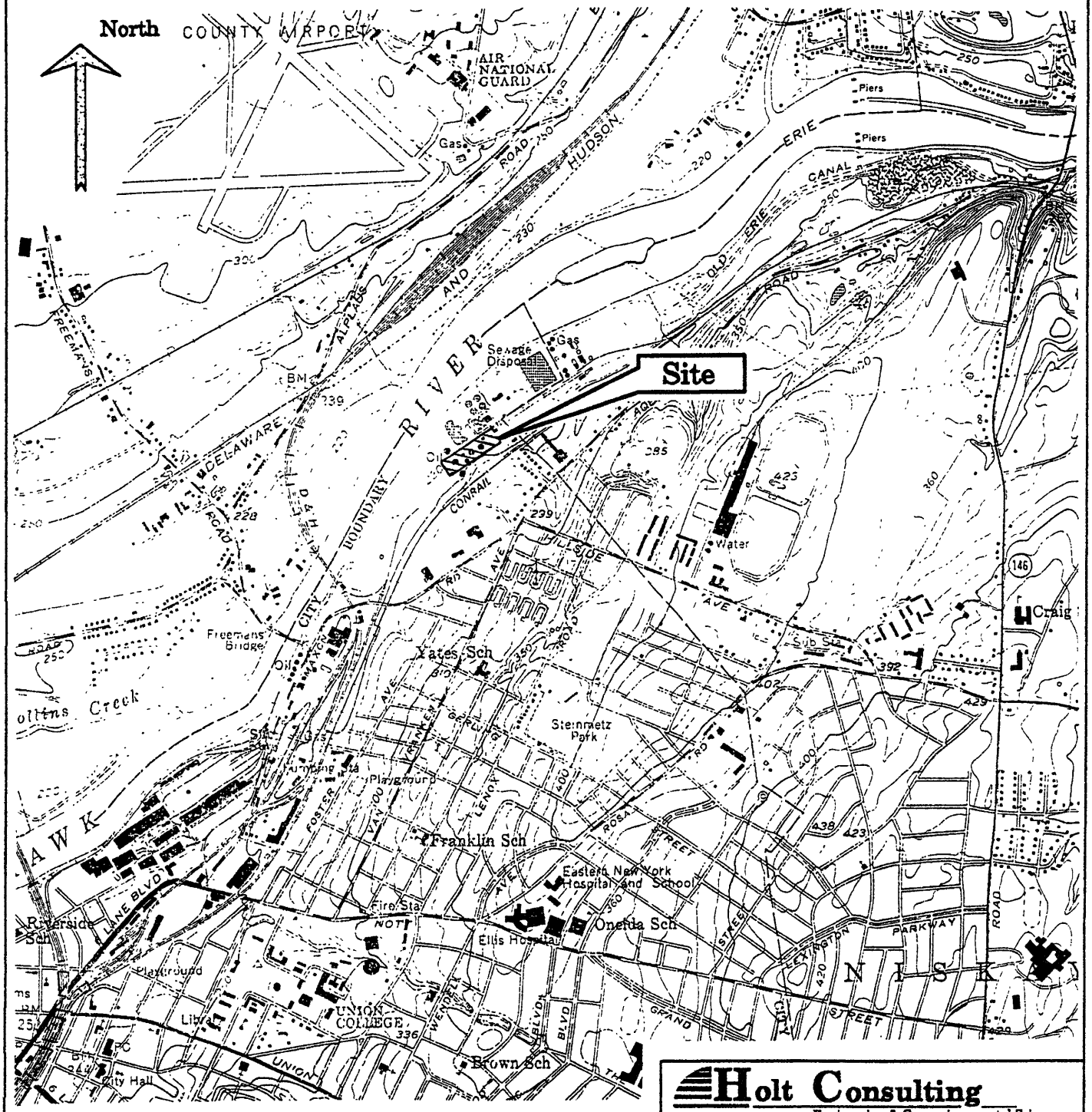
APPENDIX 1

Construction Site Plans

"Excavation Limit, Sub-Division & Soil Management Plan Areas"
w/ Verification Testing Locations
(Dwg. No. 05-158.07-2)

"Excavation Limit, Sub-Division & Soil Management Plan Areas – Full Site"
(Dwg. No. 05-158.07-2A)

sitemap



Source: USGS 7.5 Min Topographic Quadrangle
Schenectady, NY 1980

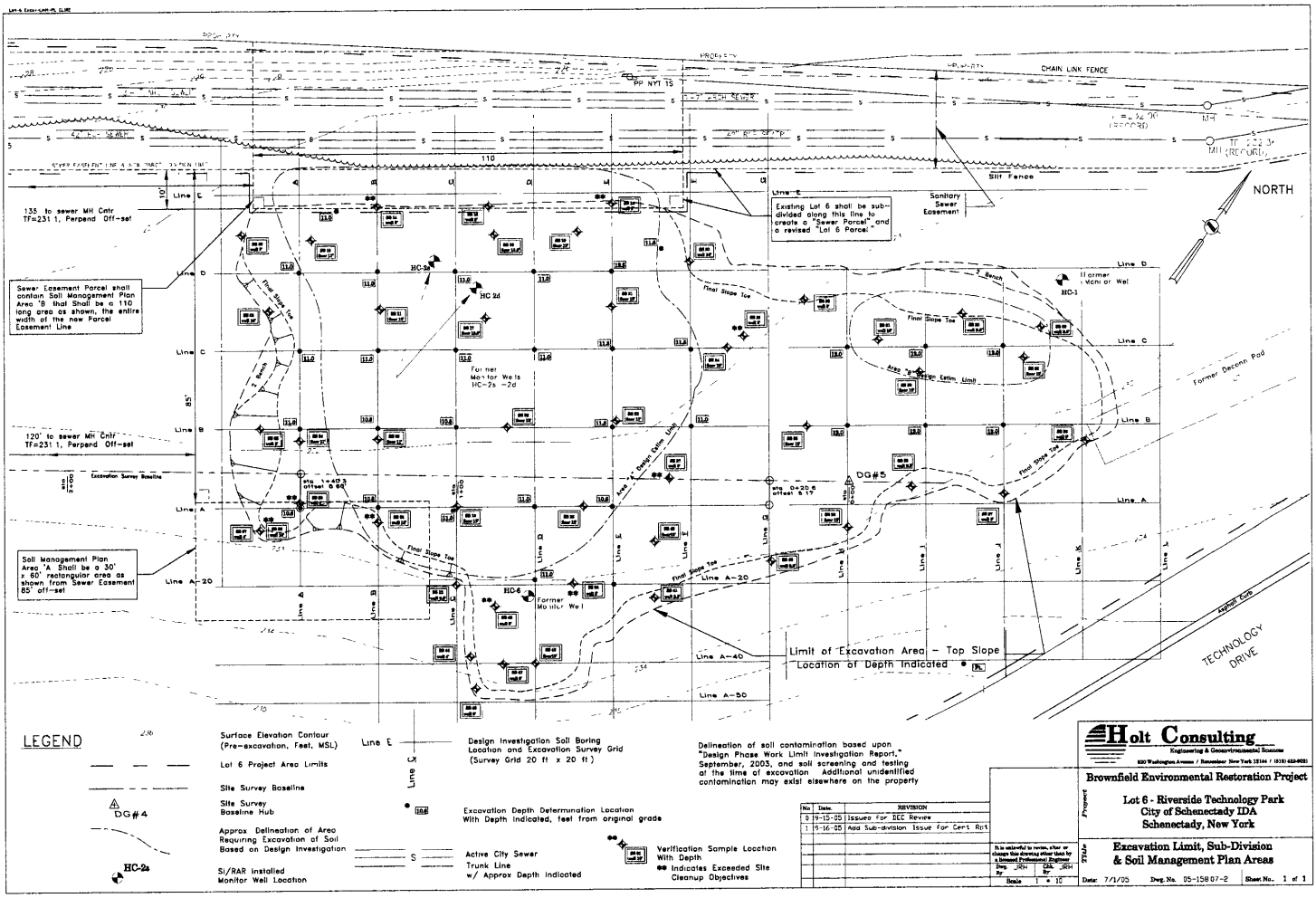
Approximate Scale: 1" = 2,000'

Holt Consulting
Engineering & Geoenvironmental Sciences
15 Elk Street / Albany, New York 12207 / (518) 432-9021

Brownfield Environmental Restoration Project
Lot 6 Riverside Technology Park
City of Schenectady, New York

Site Location Map

Dwg. By: JRH	Chk. By: JRH		
Scale: As Noted	Date: 2/10/99	Dwg. No.: 99-158.01-S1	Sheet No.: 1 of 1



LEGEND

- Surface Elevation Contour (Pre-excavation, Feet, MSL)
- Lot 6 Project Area Limits
- Site Survey Baseline
- Site Survey Baseline Hub
- Approx Delineation of Area Requiring Excavation of Soil Based on Design Investigation
- Si/RAR installed Monitor Well Location
- Design Investigation Soil Boring Location and Excavation Survey Grid (Survey Grid 20 ft x 20 ft)
- Excavation Depth Determination Location With Depth Indicated, feet from original grade
- Active City Sewer
- Trunk Line w/ Approx Depth Indicated
- Verification Sample Location With Depth
- ** Indicates Exceeded Site Cleanup Objectives

Delineation of soil contamination based upon "Design Phase Work Limit Investigation Report," September, 2003, and soil screening and testing at the time of excavation. Additional unidentified contamination may exist elsewhere on the property

No.	Date	REVISION
0	9-15-05	Issued for DEC Review
1	9-16-05	Add Sub-division Issue for Cert Rpt

It is unlawful to revise, alter or change this drawing other than by a licensed Professional Engineer

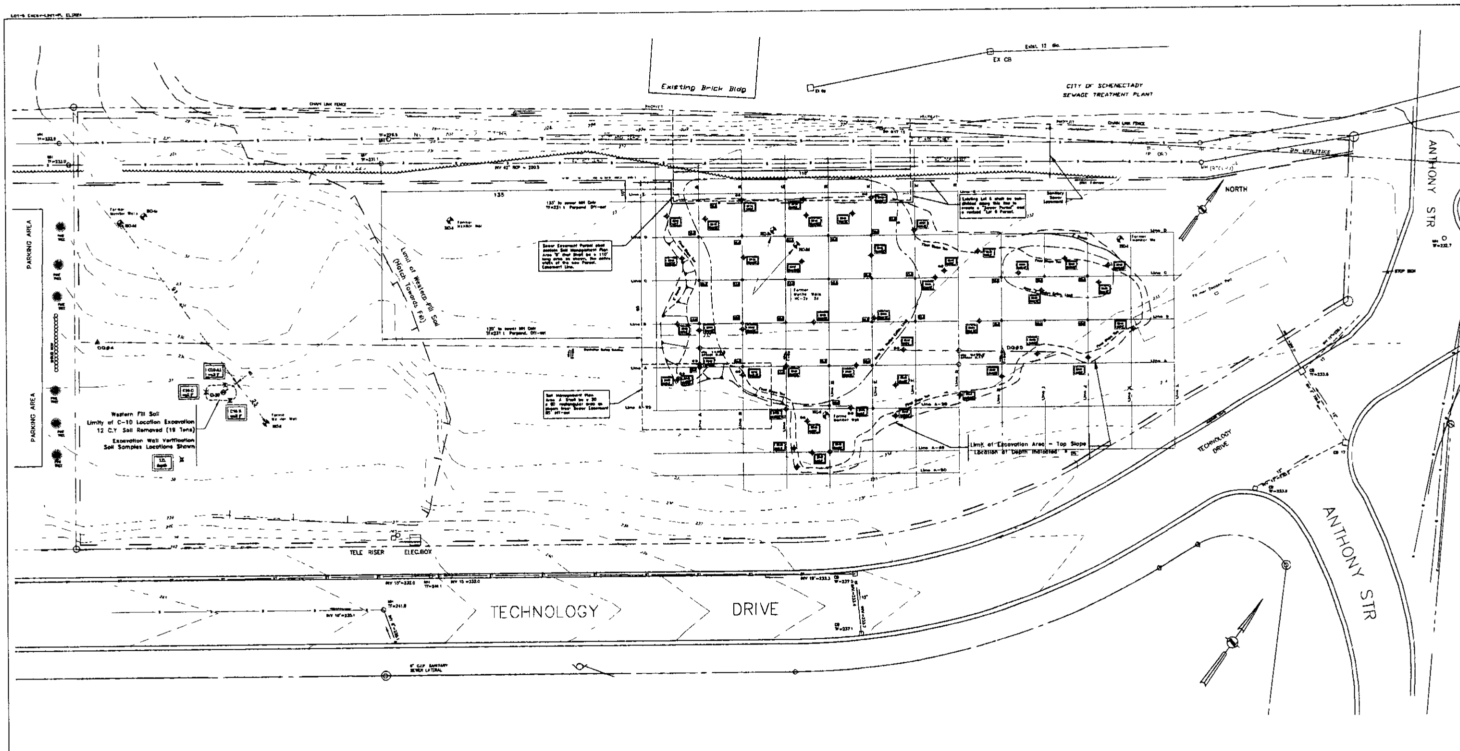
Dwg. JRH By | Chk. JRH By | Scale 1 = 10'

Holt Consulting
Engineering & Geoenvironmental Sciences
820 Washington Avenue / Rensselaer, New York 12144 / (518) 432-9081

Project: **Brownfield Environmental Restoration Project**
Lot 6 - Riverside Technology Park
City of Schenectady IDA
Schenectady, New York

Title: **Excavation Limit, Sub-Division & Soil Management Plan Areas**

Date: 7/1/05 | Dwg. No. 05-15807-2 | Sheet No. 1 of 1



LEGEND

Surface Elevation Contour (Pre-excavation Feet, MSL)

Lot 6 Project Area Limits

Site Survey Baseline

DG#4 — Site Survey Baseline Hub

Approx Delineation of Area Requiring Excavation of Soil Based on Design Investigation

HC-2s — SI/RAR Installed Monitor Well Location

Line E / Line C — Design Investigation Soil Boring Location and Excavation Survey Grid (Survey Grid 20 ft x 20 ft)

Excavation Depth Determination Location With Depth Indicated feet from original grade

S — Active City Sewer Trunk Line w/ Approx Depth Indicated

Verification Sample Location With Depth
** Indicates Exceeded Site Cleanup Objectives

Delineation of soil contamination based upon "Design Phase Work Limit Investigation Report," September, 2003, and soil screening and testing at the time of excavation Additional unidentified contamination may exist elsewhere on the property

No.	Date.	REVISION
0	9-15-05	Issued for DEC Review
1	9-16-05	Add Sub-division Issue Cert Rpt

It is unlawful to revise, alter or change this drawing other than by a licensed Professional Engineer

Dwg By JRH | Chk. By JRH | Scale. 1" = 20'

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Brownfield Environmental Restoration Project

Project: **Lot 6 - Riverside Technology Park**
City of Schenectady IDA
Schenectady, New York

Title: **Excavation Limit, Sub-Division & Soil Management Plan Areas - Full Site**

Date: 7/1/05 | Dwg No. 05-158 07-2A | Sheet No. 1 of 1

2

APPENDIX 2

Daily Activity Logs, Miscellaneous Documents

Riverside Technology Park - Lot 6

Daily Construction Activity — **February-March 2005**

Week End	Date	Water De-watering	Soil Excav.	Soil Dispose tons / LF	Monitoring Air Monit.	Monitoring Odor Contr'l	Over-Sight HC On-Site
	2/23		X	85.07	X		X
w 1	2/24		X	178.84	X		X
	2/25		X	192.99	X		X
2/25				**456.90**			
	2/26						
	2/27						
	2/28		X	221.99	X		X
	3/1						
w 2	3/2						
	3/3		X	313.83	X		X
	3/4		X	366.26	X		X
3/4				**902.08**			
	3/5						
	3/6						
	3/7		X	334.29	X		X
	3/8						
w 3	3/9						
	3/10						
	3/11						
3/11				**334.29**			
	3/12						
	3/13						
	3/14						
	3/15	X					X
w 4	3/16	X					
	3/17	X	X	100.17	X		X
	3/18	X					
3/18				**100.17**			
	3/19	X					
	3/20	X					
	3/21	X	X	56.20	X		X
	3/22	X	X	42.67	X	X	X
w 5	3/23	X	X	199.38	X	X	X
	3/24	X	X	70.35	X	X	X
	3/25	X	X	140.59	X	X	X
3/25				**509.19**			
	3/26	X					
	3/27	X					
	3/28	X					X
w 6	3/29	X					X
	3/30	X	X	207.45	X	X	X
	3/31	X	X	498.53	X	X	X
	4/1	X	X	229.97	X	X	X
4/1				**935.95**			
	Period Total :			**2,974.67**			

Riverside Technology Park - Lot 6

Daily Construction Activity

April-May 2005

Week End	Date	Water De-watering	Soil Excav.	Soil Dispose tons LF	Soil Dispose tons ESMI	Monitoring Air Monit.	Monitoring Odor Contr'l	Over-Site HC On-Site
	4/2	X						
	4/3	X						
w 7	4/4	X	X	228.70		X	X	X
	4/5	X	X	234.76		X	X	X
	4/6	X	X	228.03		X	X	X
	4/7	X	X	231.40		X	X	X
	4/8	X	X	229.15		X	X	X
4/8				**1,152.04**				
	4/9	X						
	4/10	X						
	4/11	X	X	238.35	236.27	X	X	X
w 8	4/12	X	X	236.49	225.75	X	X	X
	4/13	X	X	214.57	358.83	X	X	X
	4/14	X	X	196.93	345.99	X	X	X
	4/15	X	X	125.68	159.79	X	X	X
4/15				**1,012.02**	**1,326.63**			
	4/16	X						
	4/17	X						
	4/18	X	X	119.56	67.98	X	X	X
w 9	4/19	X	X	213.00	195.92	X	X	X
	4/20	X	X	218.94	288.41	X	X	X
	4/21	X	X	151.91	235.04	X	X	X
	4/22	X	X	146.67	207.20	X	X	X
4/22				**850.08**	**994.55**			
	4/23	X						
	4/24	X						
	4/25	X	X	145.55	115.82	X	X	X
w 10	4/26	X	X	141.39	119.22	X	X	X
	4/27	X	X	157.94	122.75	X	X	X
	4/28	X	X	129.95	83.99	X	X	X
	4/29	X	X	123.99	0.00	X	X	X
4/29				**698.82**	**441.78**			
	Period Total :			**3,712.96**	**2,762.96**			
	Project Total, All Soil :			**9,450.59**				
	4/30							
	5/1							
	5/2							X
	5/3							X
w 11	5/4							
	5/5		Debris	105.33				
	5/6							

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 35°
Weather: clear
Other Conditions:

Project Title: LOT 6
Project No.:
Log No.: 1 Date: 2/23/05 Time:
Site: LOT-6

Materials Attached:

Contractor Activity/Crews Excavation Area B to 4½ ft
Excavate frost layer (18" +/-) as "clean" & stockpile on-site

Set-up Air Monitoring

(2) Trucks (10-wheel)
(1) Excavator
(1) dozer

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments: Area B G.W. @ 5' +/-. Excavate only above 5'.
4 truck loads total disposed
Area B pile (within Area B) covered w/ plastic

N2- 630-300 PID + UV
8.5 hrs

Distribution:

Signed:

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 10's into 20's
Weather: Partly cloudy
Other Conditions: _____

Project Title: Lot 6
Project No.: _____
Log No.: 2 Date: 2/04/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews NZ arrived @ 7 - State truck here
air monitoring set at 8:00

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: NZ on site 7:00
air monitoring set @ 0800 1st trucks out @ 0810 2nd trucks out @ 945
3rd truck out at 1045 4th truck @ 1215 (pulled one off after 3rd) 5th @ 145
Stockpiled area A on contaminated ground
Backhoe 1035 ★ - fuel tank w/ 2nd containment delivered on site 1030
1430 630 - 330 pm 9 hrs

Distribution: _____

Signed: _____

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature teens mid 20's
Weather: partly cloudy
Other Conditions: little breeze

Project Title: Lot 4
Project No.:
Log No.: ____ Date: 2/25/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews N2 onsite @ 7:00 - Valley + State here
air monitoring set @ 800
1st trucks left @ 805
2nd trucks @ 925
3rd trucks @ 1030
4th trucks @ 1200

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ____ ☐ Samples Taken ____

☐ Photos taken ____ ☐ Other: ____

Comments: Dirt leaving from area A stockpile
last trucks left at 1:15 - 10 loads total

630 - 230 pod UV
8 hrs

Distribution:

Signed: ____

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: teens into 20's
Weather: Cloudy - snow storm predicted
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 2/28/05 Time: 7:10-200
Site:

Materials Attached:

Contractor Activity/Crews: N2 on site 0710 - Stute, Valley, ECS are here
air monitoring set at
1st trucks out at 0800
2nd @ 0930
3rd @ 1040
4th @ 1210
5th @ 1330

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments: 1 load stone (Knight M @ 0850) to pt around wells.
installed dewatering well in area A
Tuesdays meeting changed to Thurs.
Nothing happening ~~Tue~~ Tues + Wed. - snow Tues - dewater Wed

630 - 230 pm UV
8 hrs

Distribution:

Signed:

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: teens – mid 20's
Weather: clear / windy
Other Conditions:

Project Title: LOT G
Project No.:
Log No.: Date: 3/3/05 Time: 9:00 / 4:30
Site:

Materials Attached:

Contractor Activity/Crews: Glenn – Excavator
(3) Trucks – TOTAL 15 TRUCKS
(2) FRAC TANKS
Ed – Operator

Project mtg 9:00 : T. Sylvester, K. Eastman, Wm Toren, Russ Carter, L. Hale, J. Holt, Glenn

Work Observed:

Items	Location	Description	Status
Excav.	Area A	Excavation – 15 Trucks	
		Dewatering Sump 1 @ (A+15/B-10)	
DeWater		last truck left site @ 1:10 pm	
		Continued excavation above water & stockpile	
		water down to 8' +/- in excavation	
		installed Dewater Sump 2 (~~C+~~ C+10 / A+10)	

☐ Tests Performed
☐ Samples Taken
☐ Photos taken
☐ Other:

Comments: Fabric on dewater well clogged w/ silt/sand @ 11:30. ~~Fabric Replaced~~
Re-installed w/o Fabric.
Will pump from sump tomorrow (Fri)
FRAC TANK #1 – 12,200 gal.

(PID Delivered to Trailer)

Distribution:

FRAC #1 ≈ 12,200 gal

Signed: [signature]

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: teens - mid 20's
Weather: clear - windy
Other Conditions:

Project Title: LOT - 6
Project No.:
Log No.: ____ Date: 3/4/05 Time: 8:00
Site:

Materials Attached:

Contractor Activity/Crews: Glenn - excavator Ed - operator
(3) Trucks - Total # Trucks (17)
(2) Frac Tanks
Excavated Area A. pumped from excavation sump #2 to Frac Tank #2
Orange barrier fence placed around excavation

Work Observed:

Items	Location	Description	Status
Excav	Area A	Trucks 17	
Dewater		fr. sump #2 to Tank #2 -	

☐ Tests Performed ☐ Samples Taken
☐ Photos taken ☐ Other:

Comments: Authorization to discharge water on hold. May not see until Tuesday will try to get inspection of treatment on Monday.

Distribution:

Signed:

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 30 S
Weather: overcast - breeze
Other Conditions: _____

Project Title: Lot 6
Project No.: _____
Log No.: _____ Date: 3/7/05 Time: 0730
Site: _____

Materials Attached: _____

Contractor Activity/Crews Arrived on site @ 0700 - trucks being loaded. Scott from NYS here complaints of odor coming from neighbours. Walked road with PID - 0.0 reading Pile needs to be covered in between loads. Can't discharge water until meeting with Bernie Sisson - City of Schenectady

1st truck at 0700; 3rd Frac tank delivered - Met with city for water - more testing(?) Last truck out at 1400. No stockpile.

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: Shutdown till further notice due to Bod 5 water Sample.

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 30's
Weather: clear
Other Conditions:

Project Title: LOT-6
Project No.:
Log No.: Date: 3/15 Time:
Site:

Materials Attached:

Contractor Activity/Crews Project mtg @ 9:00 - 11:00 +/-

No Contractor Activity w/ excavation

Treating / releasing water from Tank 1
pumping from excavation to Tank 2

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

NZ-630-1230 0 0
6

Distribution:

Signed:

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 20'S - 40'S
Weather: Clear, sunny
Other Conditions: _____

Project Title: hot 6
Project No.: _____
Log No.: _____ Date: 3/17/05 Time: 0800
Site: _____

Materials Attached: _____

Contractor Activity/Crews Valley here digging & treating water 1st trucks out 730-800
ECS (air monitor) here. ECS here to decom. wells. Excavation to North of open area (BD & BE). Strong Petrol odor @ , PID 20-120 ppm
— trucks removed, covered w/ plastic

pumping from excavation to Tank 1, Treating Tank 2

Work Observed:

Items	Location	Description	Status
Well Decompression		-HC-4d - completed 12:00, HC-4s complete @ 12:15	
		HC-5 completed @ 12:30, HC-2d completed @ 1:00	
		HC-6 completed @ 1:45, HC-3 completed @ 2:15	
		HC-1 completed: 2:45.	

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: Well decomm - PVC wells casing fractured to 10'. Entire well tremie-grouted to surface. All wells except 2S & 2d. Well 2d grouted in-place (inside PVC casing) to 16' depth.

10:50 - 12:00 - Pond level lowered 1/2"

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 30's
Weather: Cloudy - 10
Other Conditions: _____

Project Title: Lot 6
Project No.: _____
Log No.: _____ Date: 3/21/05 Time: 0700
Site: _____

Materials Attached: _____

Contractor Activity/Crews Valley - Air Monitoring on site - Trucks being loaded 7:15 Jeff took care of stick + meter readings. Went over weekend readings with Ed Still a little water in Whole - Installing another dewatering point in Area H today tank 2 empty - treating out of 3 - filling 1 - 1

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: Not doing biosolve - ~~treati~~ Filled 4 trucks - No more excavating for today. Covered with poly - Pumping out of 2 dewatering points. 11:30 tank 3 emptied - tank 1 filling -

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 20's – 40's
Weather: Clear
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 3/22/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews 0700 - Valley on site setting up for Biosolve treating out of 1 filling 2 3 is empty filled 1 truck Set dewatering point. End of day - #1 & 3 empty - #2 filling

2 trucks out today

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ____ ☐ Samples Taken ____

☐ Photos taken ____ ☐ Other: ____

Comments: Sample - 3 Sample
1 - 40's
2 20's
3 - 3

using biosolve + poly for odor control

630 - 500 PID UV
10.5

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature _____
Weather: _____
Other Conditions: _____

Project Title: LOT 4
Project No.: _____
Log No.: _____ Date: 3/03/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews 0700 - tank 1 empty - treating tank 2 - filling tank 3
0730 air set up - 0745 - trucks being loaded with stock pile

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: using biosolve + poly for odor control -
removing stock pile - adding dry stuff from B/W CD line

Sample # 4 - 5BA @ 11'
5 BA-10 @ 8'

630-400 PID UV
9.5 hrs

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 30's
Weather: Cloudy - snow previous night
Other Conditions: Complete inches on ground

Project Title: LOST 4
Project No.:
Log No.: ____ Date: 3/24/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews 0700 - all here - 1st trucks out at 0730 are already set up filling tank 1 treating tank 3 - There is some sludge in bottom of tanks so reading are a little off.

Trucks shut down at landfill so we'll just be treating water today Talked to Bill Turin about taking water sample pre treatment as per Jeff request

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

0630 - 1030 PID OV

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: 30's - 40's
Weather:
Other Conditions: Overcast, breezy

Project Title:
Project No.:
Log No.: Date: 3/25/05 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews: air set up 4 trucks running today Biosolve for odor control tank 1 being treated #2 filling #3 MT 55 trucks total - landfill shut down. Still waiting for decision about backfilling - Covered with poly - Ed will keep dewatering going over weekend.

Work Observed:

Items	Location	Description	Status

☐ Tests Performed
☐ Samples Taken
☐ Photos taken
☐ Other:

Comments:

630 - 1200 PID UV
5.5

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 30's - 40's
Weather: raining hard
Other Conditions:

Project Title:
Project No.:
Log No.: Date: 3/28 Time:
Site:

Materials Attached:

Contractor Activity/Crews Trucks shut down at landfill. Raining hard - Ed's gonna keep treating water

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

630-930 PM VR

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 40's Cloudy
Weather: _____
Other Conditions: _____

Project Title: _____
Project No.: _____
Log No.: _____ Date: 3/29/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews 0700 Waiting to hear from landfill. Meeting at 900 to decide on backfill etc.; No digging Ed doing water treat should be able to dig + haul + backfill tomorrow

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: _____

0630 - 1200
P.D UK

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 30's and 50's
Weather:
Other Conditions: Clear Calm Sunny

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 3/30/05 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews Colonie closed to US. Albany accepting 200 tons. LT Valente bringing in backfill took side sample # 6 (hot) took #7 upright at 4' Tony Dave Jeff talked. Tower and were in agreement not to Chase any further. Started backfilling. Used Biosolve for odors. Trucking slips for today need to be copied. Ed will do That tonight. Tank 3 done filling around noon treating at slow rate to go all night. Tank 1 is filling

Work Observed:

Items	Location	Description	Status

☐ Tests Performed
☒ Samples Taken #6 + 7 - 10 AA - 6 10' +4'
☐ Photos taken
☐ Other:

Comments:

Distribution:

0630 - 330
p.d UV

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: Fair ~ 40°-50°
Weather:
Other Conditions:

Project Title: Riverside Lot-6
Project No.:
Log No.: ____ Date: 3/31/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews: ECS - Air Monitor on site / BioSolve all day
Excavate west side along line A @ back corner (EA)
22 - trucks sent 200 T - Albany LF / 300 T - Colonie LF

Work Observed:

Items	Location	Description	Status

☐ Tests Performed

☒ Samples Taken: 2 - well samples SS-8 & SS-9
2 - floor soils SS-10 & SS-4

☒ Photos taken: 9:00 am - site
3:30 pm - site

☐ Other:

Comments: Water treatment truck tilting. Re-righted

Distribution:

Signed: JPA

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 40's
Weather: cloudy start then some sun
Other Conditions: _____

Project Title: Lot 6
Project No.: _____
Log No.: _____ Date: 4/1/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews 0700 - trucks being loaded - Only 2 trucks running Can only get 200 tons to Albany today. Burning up around excavation for rain storm tomorrow. 1000 tank 1 MT will treat overnight. Took samples 12 + 13 - side + bottom Jeff here to take measurements

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: _____

630 - 230

Distribution: _____

Signed: NE PID U V

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: HO's
Weather: breezy cloudy
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 4/4/05 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews: Hauling to AIF today. Ed did awesome job with water lots of rain over weekend. Treating out of tank 1 filling tank 2 #3-MT - 0930 tank 1 done treating. Started treating tank 2 + filling 3. Waiting to hear about backfill.

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

0630 -
pid U.V

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 40's - 50's
Weather: Clear Sunny Breezy
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 4/5/05 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews AV Set up Biosolve set up Trucking to ALF Backfilling hole along western border to D Line running N/S. Had meeting at 9:00 - Took samples # 14 + 15 - Wall samples along E line - Treating water

Work Observed:

Items	Location	Description	Status

☐ Tests Performed
☐ Samples Taken
☐ Photos taken
☐ Other:

Comments:

Distribution:

PID/UV 630-

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 40's into 50's
Weather: partly cloudy
Other Conditions:

Project Title:
Project No.:
Log No.: ____ Date: 4/6/05 Time:
Site:

Materials Attached:

Contractor Activity/Crews putting down filter fabric + stone for parking area - Trucks going to AIF Biosolve for odor - took samples 16 + 17 North floor Samples - re set dewatering pont. Treating tank #1

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

Distribution:

0630-330
PID UV
Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 50°-65°
Weather: Fair — cloudy
Other Conditions: _____

Project Title: Lot - 6
Project No.: _____
Log No.: _____ Date: 4/7/05 Time: 7:30 - 3:00
Site: _____

Materials Attached: _____

Contractor Activity/Crews ECS - air monitor BobSolve applied
deliver/place backfill along E-line well
Total 10 - trucks to ALF
pumping / treating water

Work Observed:

Items	Location	Description	Status

☐ Tests Performed No ☐ Samples Taken No

☐ Photos taken No ☐ Other: _____

Comments: Screened well @ A line, AD to AE not @ 80 - 700 ppm

Distribution: _____

Signed: _____

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 40's - 50's into 60's
Weather: sunny
Other Conditions: _____

Project Title: _____
Project No.: _____
Log No.: _____ Date: 4/8/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews Finishing treating tank 2 & filling 3
loading truck U Going BioSolve - 0830 Started treating 3 #2 empty except sludge/silt Filling tank 1 Jeff called wanted 2 floor samples if possible - Didn't get these going to swing back (Line E towards front) ESMI & AIF on Monday

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: _____

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: NO'S Mid 50's
Weather: Clear, Sunny, Breezy
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 4/11/05 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews: Hauling to ESMI today 2 trailer to there - Valley trucks to AIF - Biosolve for Odor Control - Didn't treat water over the weekend, only pumped. TOOK Samples #18 - E/E wall @ 9' #19 DE/DE @ 12'
Installed well in area B

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

630-330 - 9hrs
PID-UV

Distribution:

Signed: NZ

LOT - 6
4-12-05

Daily Log - 630 - 430 - 10.6 UV PID

4/12/05 40's to 50's - Sunny Breezy

Trucking to ESMI + AIF - Little problem with trucks to ESMI Had it straight by Noon.
Pumping water from Area A + B - Had meeting at 9:00
Took Sample # 20 - Sent to Lab in A.M. Took sample #21 sent out in P.M. - Screened along bank at D+H/F - 4' 8' + 12' all pid's range from 5-15 ppm.
Started pumping water from area B into Frac #2 - Area A into #1

NZ

Lot - 6
4-13-05

4/13 0630 - PID UV

Having to ESM1 + AIF -
Found dirty dirt real stinky along pipes running from A to B area, along BC line starting around F
Will keep PID in excavator while digging that area
Mike will also close windows - Resp if needed. - Biosolve used for Odor

Area B still pumping to #2 A into #3 treating #1

tank Sample #22 - B/E @ 11' - 2.0 PID

NZ

LOT-6
4-14-05

Daily log 4/14/05

0700 clear sunny 50's

Discussed areas of concern -20A/DE with Jeff + Tony
will chase back to old well
under group of 3 pipes - extremely hot towards B (1500-2000 PID)
will chase that back toward B

Trucks to FSmi + AIF - Treating # 2 (B) filling
1 (B) # 3 (A)

#2 - MT 1173924
Brought in lime for wet stuff at bottom
Took Samples #24 - 20A/DE; #25 A/DE; #26 C-3/-66
#27 A/E #2 -
Got depth measurements DE along E F
Will treat tank # ( ) over night

Had Mike keep pid in excavator while doing the nasty soil

0630 - 40's
pid UV
NZ

LOT-6
4-15-05

0630-330
Sunny - 30's-50's - breezy

/05

hauling to ESmi + AIF - Air sweep Biosolve being used - finished treating tank 2 - Started treating #1

Digging in Area B - will screen as progress is made. Will finish getting pile out of area A

Dave from ECS requested MSDS for lime being used in case of questions

Stopped pumping A - Had to move well. Will reinstall after awhile

Backfill being brought in - hoping for results from 21-23

Put pump back in A for water control during backfill. Also will have to dig out more of "pipe" area

Reinstalled well deeper in B - stuck pipe for Monday
Still treating tank #1 (B)

Valley will backfill more on Saturday

NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature: 40's -> 70°
Weather: Clear
Other Conditions:

Project Title: Lot 4
Project No.:
Log No.: Date: 4/18/05 Time:
Site:

Materials Attached:

Contractor Activity/Crews: arrived on site 7:05 Going to AIF
Biosolve being used - pumping water

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

0630 - 300 8.5 hrs
PID UV

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 40's - 70's
Weather: Clear Sunny
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 4/19/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews Hauling to ESMI & AIF - Air setup - Biosolve being used Jeff and I took samples in Barca #128 - #32

Meeting at 1100 - 60 for the property lines - top clean manhole

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments:

630 - 330 pid - UV
9 hrs NZ

Distribution:

Signed:

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 60 - 70/80
Weather: Clear Sunny
Other Conditions: _____

Project Title: Lot 6
Project No.: _____
Log No.: _____ Date: 4/20/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews Trucks to AIF + ESMI - Air set up BioSolve being used Did screening. Tony + new guy here from State, Jeff here for some final decisions - small tank area 20 x 20 - to bottom Chase along road

took samples 33-35 - dupe is 33

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: _____

UV pid 630 - 430 < waiting for truck

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 40's
Weather: Clear breezy
Other Conditions:

Project Title: LOTG
Project No.:
Log No.: ____ Date: 4/21 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews air set up - Biosolve - 2 - trailers to Esmi
2 - dumps to AIF - Tanks still filling

Treating # 3 overnight (A) Started filling # 2

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments: Screened area b along the C/KT line still hot 150's
Wall along haul road in the 50's.

PID Calibrated.

Distribution:

0630 - 330
pid UV

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 30's → 50's/60's
Weather: Sunny clear
Other Conditions:

Project Title: 1 + 6
Project No.:
Log No.: ____ Date: 4/22/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews Air Set up - Biosolve being used, #3 still treating from overnight - #1 + #2 still filling. #3 close treating - #1 start 0800 - 1 Vallen truck to AIF 1 trailer + 1 truck to GSMI Drg test pit left side of decon pad east of hole - CLEAN!!

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ____ ☐ Samples Taken ____

☐ Photos taken ____ ☐ Other: ____

Comments:

Distribution:

0630-300
p.d UV

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Week 10

Temperature: 40's - partly sunny
Weather:
Other Conditions:

Project Title:
Project No.:
Log No.: Date: 4/25 Time: 0700
Site:

Materials Attached:

Contractor Activity/Crews: Air set up - 2 truck 1-dump to A/F 1 truck to E 3m; B uside being used. Hole stayed good over weekend. Didn't treat over weekend

Work Observed:

Items	Location	Description	Status

☐ Tests Performed

☐ Samples Taken

☐ Photos taken

☐ Other:

Comments: Screened wall along haul road - Hot around 8'

Distribution:

630-230 pid-uv

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 40-60's
Weather: Sunny
Other Conditions:

Project Title: Lot 6
Project No.:
Log No.: ____ Date: 4/26/05 Time: ____
Site:

Materials Attached:

Contractor Activity/Crews Air Set up. Biosolve being used - 1 truck to AIF
1 truck/trailer to ESMi - #3 being treated - 1+2 filling
Screened wall - Appears to be cleaning up around fuel tank
start backfilling sewer line side of B

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ____ ☐ Samples Taken ____

☐ Photos taken ____ ☐ Other: ____

Comments: took samples 36 + 37

0630 -
UV pid

Distribution:

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE: (518) 432-9021
FAX: (518) 432-4589

Temperature 50's
Weather: Cloudy - Rainy
Other Conditions: _____

Project Title: _____
Project No.: _____
Log No.: _____ Date: 4/27/05 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews Air set up - Biosolve - 1- truck to Esmi 1- AIF
Just Pumping out of 1 sump now. Not having to treat water on daily basis.
Found more dirty dirt by where 2 small tanks were

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: Took Samples #38 (flour) 39, 40, +41 +42 - Wall

630-330 p.d uv

Distribution: _____

Signed: NZ

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature _____
Weather: _____
Other Conditions: _____

Project Title: _____
Project No.: _____
Log No.: _____ Date: 4/28 Time: _____
Site: _____

Materials Attached: _____

Contractor Activity/Crews air set up - Biosolve - digging dirt backfilling
Running to AIF & ESMi
Pumping only 1 pump - tank 3 NT - Not having to treat
everyday decided on how far to go. Dave, Tony, Jeff agreed to
haul to AIF tomorrow & call it quits - Will Smoke to document
what's left behind

Work Observed:

Items	Location	Description	Status

☐ Tests Performed _____ ☐ Samples Taken _____

☐ Photos taken _____ ☐ Other: _____

Comments: Shut ESMi truck down after 2 loads

Distribution: _____

0630-330
9 hrs pid UV NZ

Signed: _____

Inspection Record Log

HOLT CONSULTING
620 WASHINGTON AVENUE
RENSSELAER, NEW YORK 12144

PHONE : (518) 432-9021
FAX: (518) 432-4589

Temperature 30's -> 60's
Weather: Clear Sunny
Other Conditions:

Project Title:
Project No.:
Log No.: Date: 4/29/05 Time:
Site:

Materials Attached:

Contractor Activity/Crews Digging out last area - OK with Dave Crosby to leave some if need be - Running 1 truck to AIF - Backfilling Backfilling - Will take samples - 2/3 - 47 # 44 is duplicate

Work Observed:

Items	Location	Description	Status

☐ Tests Performed ☐ Samples Taken

☐ Photos taken ☐ Other:

Comments: Bottom of excavation at sample #43 is all shale ~~To~~ Only getting a 4.0 on pid. Sample taken at about 13' bottom isn't quite that deep we were trying for dryer stuff

Distribution: Dirt totals 123.99 to Albany. (Double check this figure)

Signed: NZ

LOT-6
5-2-05
5-3-05

Week 11

5/2 0630-330 UV - NO PID

Valley finishing breaking up of concrete - backfilling hole - Tank #1 17817 - treating - Filling tank #2 Tank #3 - MT

total 9 hrs

5/3 0630-300 UV - NO PID

Backfilling - Emptied sump in decon pad. Broke up decon pad - Filling tank #2 - #1+3 MT except for sludge. - Sludge from tanks to be hauled to Alloy at some point.

total 8.5 hrs.

Week 11 Total

2 UV

17.5 hours

NZ

X-McAfeeVS-TimeoutProtection: 0
X-McAfeeVS-TimeoutProtection: 1
X-McAfeeVS-TimeoutProtection: 2
X-McAfeeVS-TimeoutProtection: 3
X-McAfeeVS-TimeoutProtection: 4
X-McAfeeVS-TimeoutProtection: 5
X-McAfeeVS-TimeoutProtection: 6
X-McAfeeVS-TimeoutProtection: 7
X-McAfeeVS-TimeoutProtection: 8
X-McAfeeVS-TimeoutProtection: 9
X-McAfeeVS-TimeoutProtection: 10
X-McAfeeVS-TimeoutProtection: 11
X-McAfeeVS-TimeoutProtection: 12
X-McAfeeVS-TimeoutProtection: 13
X-McAfeeVS-TimeoutProtection: 14
From: "russell" <rbcarter@nycap.rr.com>
To: "Jeff Holt" <jholt@holtconsulting.net>
Subject: Fw:
Date: Tue, 1 Feb 2005 11:54:54 -0500
X-Mailer: Microsoft Outlook Express 6.00.2900.2180
X-Virus-Scanned: Symantec AntiVirus Scan Engine

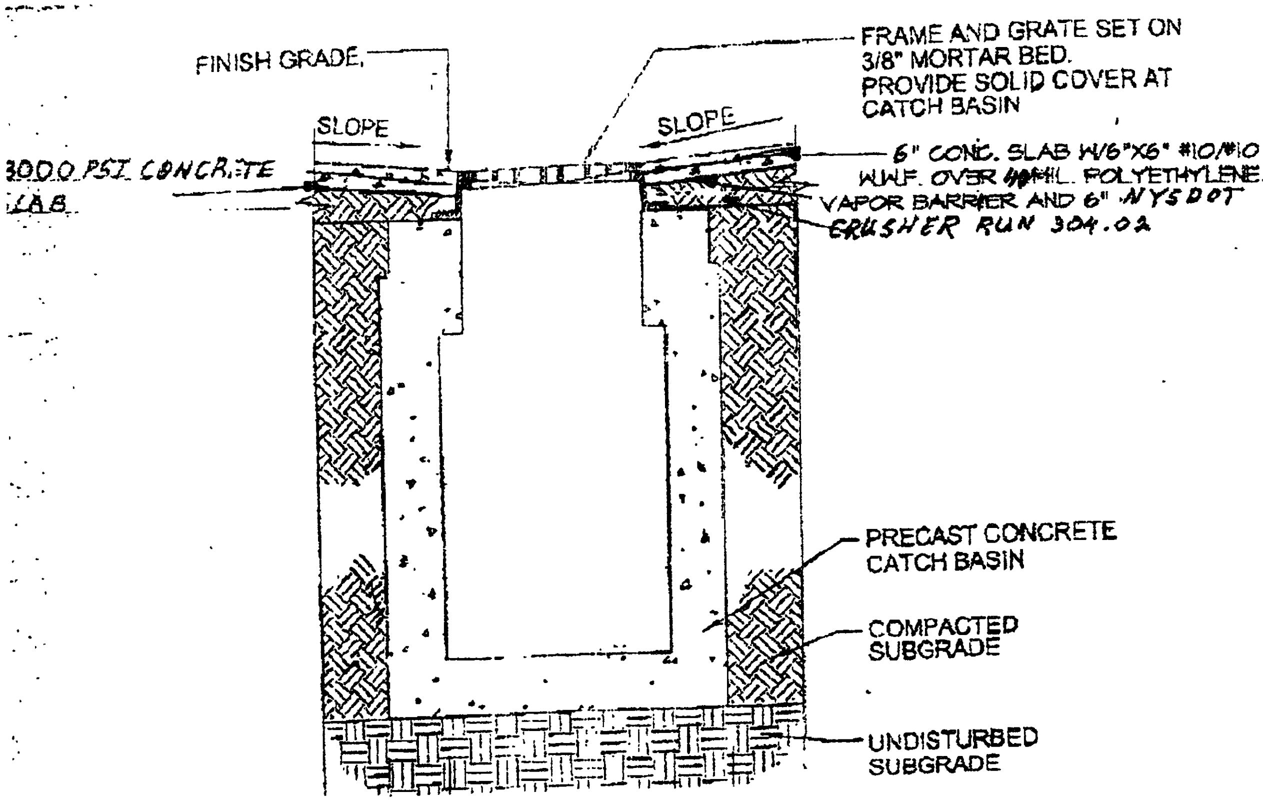
---- Original Message ----
From: russell
To: Jeff Holt
Sent: Tuesday, February 01, 2005 10:38 AM

Hi Jeff,
Attached is the decon pad detail. We would like to start installation tomorrow and expect this work to take approx. 5 days. We will also take pre-construction samples in this area tomorrow. I will send a work schedule later today. Please give me a call so we can set up for tomorrow.

Thank You,
Russell

75' x 12'
5" x 12" w curb
300 gal CATCH
BASIN + VAC
TRUCK on-STATION

Temp side panels
of plastic on stakes
to be erected if
spray utilized.



NTS PRECAST CONCRETE CATCH BASIN

04-439
Test#

September 30, 2004
Date:

STATE OF NEW YORK
DEPARTMENT OF AGRICULTURE AND MARKETS
10B Airline Drive, Albany, New York 12235
1-800-554-4501
www.agmkt.state.ny.us

REPORT OF TEST

For: Somers Meter Service
PO Box 5209
Albany, NY 12205

The item listed below has been compared to standards of New York State which are traceable to the National Institute of Standards and Technology.

This item conforms to specifications and tolerances for field standards.

Description	Identification
Liquid Measure 100 gallon	NY78-715

This test was performed by W&M Specialist II, Robert Acheson

Edward Szesnat
NYS Metrologist

Somers Meter Service Inc.
104 Sand Creek Rd.
Albany NY 12205
518-489-5442

CALIBRATION REPORT

ATE: DEC 22 2005

OMPANY NAME: VALLEY EQUIPMENT

ETER TYPE: BADGER

RIAL NUMBER: 95677565

ST TEST: GPM 26 ERROR +690 in³ ADJUSTED —

OW TEST: GPM 1 3/4 ERROR −460 in³ ADJUSTED —

ESET TESTED: N/A

OTES _____

Somers Meter Service Inc
104 Sand Creek Rd
Albany NY 12205
518-489-5442

CALIBRATION REPORT
100 GALLON PROVE--ALL TESTS DONE ON WATER

DATE: 12-23-05

COMPANY NAME: Valley Equipment

METER TYPE: Badger

SERIAL NUMBER: 45677 566

FAST TEST: GPM 37 ERROR + 570 10^3 ADJUSTED —

SLOW TEST: GPM 19 ERROR + 345 10^3 ADJUSTED —

PRESET TESTED: N/A

NOTES _____

BioSolve® *...In Making A Difference!*

Hydrocarbon Mitigation Technology

VAPOR SUPPRESSION / ODOR CONTROL

BioSolve® offers a relatively simple and cost effective method of suppressing Odors and VOC release from soils, during excavation, loading, stockpiling, etc. The following guidelines will apply to the most common situations encountered on site.

In most cases a 3% BSW solution (1 part BioSolve® concentrate to 33 parts water) will be adequate to keep vapor emissions within acceptable limits and control fugitive odor problems on contact. Although, some sites may only require a 2% solution, up to a 6% solution may be recommended on sites with elevated levels or particularly difficult/ mixed stream contaminants are present.

The BioSolve® solution should be applied evenly to the soil surface in sufficient quantity to saturate the surface area. As a general rule, use 1-3 litres of BioSolve® solution to 1 square metre of surface area. (1 gallon of BioSolve® per solution will cover approximately 4-sq. yd. of soil surface area) BioSolve® is a water-based surfactant that will apply like water.

BioSolve®, in its concentrated form, is a viscous liquid material that must be diluted with water. A fluorescent red tracing dye is present in the formula allowing BioSolve® to be detected during application. Once diluted, BioSolve® can be applied with virtually any equipment that can spray water. BioSolve® will not harm equipment or clog pipes. For large sites, applicators such as water truck, portable agricultural sprayers, foam inductors & pressure sprayers can be used. For smaller jobs, garden sprayers, water extinguishers or a garden hose with a fertiliser attachment on the nozzle can be used effectively. This characteristic makes BioSolve® very adaptable and much most convenient to use in almost any situation. BioSolve® is equally effective when used with all types of water (soft, hard, salt or potable).

On stockpiled soil or other soil that will be left undisturbed, a single application of BioSolve® to the exposed surfaces may last up to 10 to 14 days or more (depending on environmental conditions). BioSolve®, when applied, will form a "cap" of clean soil. If the soil is not disturbed, via weather, movement, etc. this "cap" will remain functional. During excavation, loading or other movement of the soil, it may be required to spray an additional amount of BioSolve® to the freshly exposed surface area to keep emissions at an acceptable level.

In case of an extremely high level of emissions, or if the soil is heavily contaminated, it may be necessary to increase the strength of the BioSolve® solution or apply more solution per square metre to reduce emissions adequately. It is important that the site be monitored regularly and that the BioSolve® solution be reapplied if and when necessary to insure that VOC emissions and odors remain under control.

BioSolve® is packaged and readily available in 55 gallon (208 liter) drums, 5 gallon (19 liter) pails and in 4X1 gallon (3.8 liter X 4) cases. Contact The Westford Chemical Corporation® Toll Free @ 1-800-225-3909, via e-mail at info@biosolve.com or your Local BioSolve distributor for pricing.

BioSolve® *should only be used in accordance with all regulatory rules and regulations.*

A multipurpose, Eco-Friendly Water Additive for Hydrocarbon Spill Mitigation, Vapor Control and Surface Clean up.

BioSolve®, as a multi-purpose response agent, offers the Responders many unique advantages over traditional method responses to fuel, solvent and other Hydrocarbon spills as well as Vapor Suppression activities. The use of The BioSolve® Hydrocarbon Mitigation Technology™ benefits the Safety, Operational, Economic and an Environmental Impact standpoints of Spill Response & remediation.

When dealing with non-ignited Class B spills involving volatile hydrocarbons and most volatile solvents, BioSolve® ***prevents ignition & explosion hazards of fuel source*** when properly applied by encapsulating and micro emulsifying the spill. Foams merely blanket the spill and separate the Fuel source from the oxygen; this physical activity creates significant operational challenges for the responder. When utilizing absorbents ONLY (i.e. "speedy dry") risks that exist to personnel including ignition/explosion, slip hazards, exposure hazards are left unaddressed. Additionally, uncollected/untreated run off leaves "sheening", asphalt surface damage, and can result in serious negative impacts to the environment.

BioSolve® helps eliminate these problems while increasing safety and reducing overall response time & costs! BioSolve® breaks down, encapsulates & significantly accelerates natural attenuation of residual, unrecoverable runoff® thereby mitigating the potential of costly future liability. Another concern raised by many environmentalists is the fact that many Foam products contain hazardous ingredients and/or are corrosive. BioSolve® is a non-hazardous, non-corrosive, water-based product. Unlike many Foam products, BioSolve® will not cause the etching of or pitting of aluminum surfaces as confirmed by ASTM D-930 testing procedures conducted.

BioSolve® is the preferred choice when attempting to **INCREASE SAFETY** while simultaneously reducing negative ecological impacts, total response time and clean up expenses involved with outdated response methods. These features are particularly beneficial in areas where closure of roadway or incident area (ie: Railway, airport, major thoroughfare, industrial/refining facility) results in expensive economic ripple effects.

On class B (hydrocarbon) fires, BioSolve® plays a dual role in efficiently knocking down the Flame AND neutralizing the hydrocarbon source. Neutralization of unburned hydrocarbon is achieved by encapsulation thus eliminating VOC Vapor release. This approach offers an added degree of safety over Foams by eliminating possibility of flash back due "Blanket" breaching and/or Foam dissipation

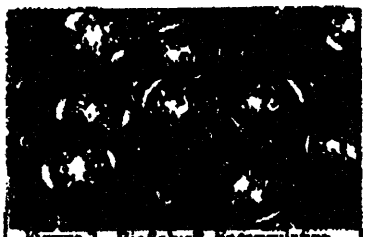


Figure 2- BioSolve® Encapsulation & Micro emulsification of Hydrocarbon Molecules.

BioSolve® Advantages:

- **Not a blanket approach,** BioSolve® neutralizes the fuel and eliminates Flammability and/or combustibility of the hydrocarbon without the need for maintaining a blanket.
- **Eliminates slip hazards to responders leaving surfaces "sheen" free.**
- **Checks" asphalt damage in place, preventing additional damage & lowering repair costs to municipality.**
- **Initiates secondary cleanup, significantly lowering total "per incident" response costs.**

BioSolve® InfoSheet

Vapor Suppression

Spill Response

Always use BioSolve in accordance with State, Federal or Local Approvals.

BioSolve has an amazing ability to suppress or eliminate Volatile Organic Compounds (VOC's). Unlike a foam that suppresses vapor only as long as the blanket lasts, BioSolve's unique properties encapsulate and emulsify the hydrocarbon giving long term vapor suppression.

BioSolve, diluted to a 3% to 6% solution can be applied with any water applicator. Special equipment is not required. Since BioSolve is not a foam, it can be applied on high wind days as well as hillsides. For large sites, applicators can include foam eductors, water trucks, and sprinkler systems, for smaller jobs, a hand pump sprayer, water extinguisher, or garden hose with a fertilizer attachment on the nozzle works quite well.

Because BioSolve applies like water, it's applications are almost endless. In Underground Storage Tanks (UST's), BioSolve is used in the "Triple Rinse" washing procedure. BioSolve eliminates the recurrence of vapor release often associated with UST removals. Because BioSolve is a unique biosurfactant, it not only suppresses the vapor but cleans the tank right down to the metal. BioSolve can be used with any pressure washer with tremendous efficiency.

Water Based
Biodegradable

Fast--Suppresses VOC's within seconds!

Cost Effective--Lasts a long time

Simple-- Applies like water

Versatile--Replaces a variety of other chemicals.

Drum washers/recyclers find that BioSolve is ideal to handle a wide range of contaminated drums. A 6% solution of BioSolve is high pressure sprayed into the drums to wash them out. BioSolve's double action of encapsulation and cleaning, effectively cleans the drums in a one step application. BioSolve is so effective it is even used to clean out mercaptan drums with little to no odor release. Because *BioSolve enhances the bioremediation of organic compounds, it makes it possible to dispose of wash water to a plant's activated sludge pond.*

In refinery and on oil production platforms, BioSolve is proving an effective agent for suppressing VOC vapor in open drain systems during Turnarounds and Workover Operations

BioSolve is commonly utilized by Haz Mat, Emergency Response, and Fire Departments nationwide to suppress VOC vapors and odors. Many departments report that BioSolve inducted into the sanitary sewers effectively eliminates the explosion hazard when gas leaks into the municipal sewer systems. NOTE: *Always follow State and Federal guidlines and approvals before using in sewers.* We have on file a variety of letters from Fire Depts. and Sanitation Districts regarding this procedure. These are available upon request.

Additional uses: BioSolve is also being utilized in bilge cleaning, vessel cleanups, cutting washers, soil & sludge washing and more.....

Distributed By:

The Westford Chemical Corp P.O Box 798 Westford, Massachusetts 01886 USA
Phone (800) 225-3909 • (978) 392-0689 • FAX (978) 692-3487

3

APPENDIX 3

Soil Excavation & Disposal Summaries

Riverside Technology Park - Lot 6

Disposed Soil

Summary **2/23/05 - 4/29/05**

Date	*Area*	*Tons Removed*	*Weekly Total*	*Cummulative Total*
Week 1	A	192.99		
2/25/05	B	263.91	456.90	456.90
Week 2	A	902.08		
3/4/05	B	0	902.08	1,358.98
Week 3	A	334.29		
3/11/05	B	0	334.29	1,693.27
Week 4	A	100.17		
3/18/05	B	0	100.17	1,793.44
Week 5	A	509.19		
3/25/05	B	0	509.19	2,302.63
Week 6	A	935.95		
4/1/05	B	0	935.95	3,238.58
Week 7	ESMI	0.00		
4/8/05	LF	1,152.04	1,152.04	4,390.62
Week 8	ESMI	1,326.63		
4/15/05	LF	1,012.02	2,338.65	6,729.27
Week 9	ESMI	994.55		
4/22/05	LF	850.08	1,844.63	8,573.90
Week 10	ESMI	441.78		
4/29/05	LF	698.82	1,140.60	9,714.50
		Total :	9,714.50	
	Sub-Total LF :	6,951.54		
	Sub-Total ESMI :	2,762.96		
	Total :	9,714.50		

Riverside Technology Park - Lot 6

Disposed Soil

Week 1 **2/23/05 - 2/25/05** CLF = Colonie Landfill

Date	No.	Manifest	Wt. Slip	Area	Disposal	Wt. Tons	Daily Total	Weekly Total
2/23/05	1	0371	170617	B	CLF	17.90		
	2	0292	170616			23.17		
	3	0340	170651			23.33		
	4	0372	170652			20.67	**85.07**	
2/24/05	1	0341	170695	B	CLF	24.13		
	2	0335	170696			22.08		
	3	0346	170718			23.37		
	4	0336	170721			20.74		
	5	0345	170744			21.37		
	6	0337	170742			19.59		
	7	0344	170780			23.59		
	8	0343	170802			23.97	**178.84**	**263.91**
2/25/05	1	0338	170829	A	CLF	15.16		
	2	0342	170831			21.80		
	3	0339	170856			19.39		
	4	0347	170858			18.57		
	5	0348	170880			18.07		
	6	0356	170889			22.15		
	7	0349	170910			17.52		
	8	0357	170914			18.81		
	9	0350	170935			20.01		
	10	0358	170939			21.51	**192.99**	
								456.90

Riverside Technology Park - Lot 6

Disposed Soil

Week 2 | **2/28/05 - 3/4/05** | CLF = Colonie Landfill

Date	No.	Manifest	Wt. Slip	Area	Disposal	Wt. Tons	Daily Total	Weekly Total
2/28/05	1	0351	171075	A	CLF	18.95		
	2	0359	171070			21.30		
	3	0363	171105			23.54		
	4	0352	171110			21.18		
	5	0362	171139			24.01		
	6	0353	171141			19.64		
	7	0360	171173			24.44		
	8	0355	171178			22.63		
	9	0361	171207			24.70		
	10	0354	171210			21.60	**221.99**	
3/3/05	1	0377	171366	A	CLF	20.72		
	2	0364	171368			21.44		
	3	0388	171369			18.43		
	4	0378	171391			23.69		
	5	0365	171394			19.84		
	6	0389	171395			19.15		
	7	0379	171413			22.77		
	8	0366	171418			21.11		
	9	0390	171419			19.15		
	10	0380	171446			22.67		
	11	0367	171447			21.38		
	12	0392	171449			20.09		
	13	0381	171468			22.32		
	14	0368	171469			19.94		
	15	0391	171471			21.13	**313.83**	
3/4/05	1	0382	171490	A	CLF	21.97		
	2	0393	171492			19.98		
	3	0369	171496			20.46		
	4	0383	171502			22.87		
	5	0395	171510			21.72		
	6	0479	171514			22.33		
	7	0385	171535			24.90		
	8	0394	171536			21.67		
	9	0370	171539			20.44		
	10	0387	171552			22.02		
	11	0396	171554			18.95		
	12	0375	171563			20.67		
	13	0384	171580			20.90		
	14	0397	171585			22.87		
	15	0374	171588			20.81		
	16	0386	171592			24.07		
	17	0398	171596			19.63	**366.26**	
								902.08

Riverside Technology Park - Lot 6

Disposed Soil

Week 3 **3/7/05 - 3/11/05** CLF = Colonie Landfill

Date	*No.*	*Manifest*	*Wt. Slip*	*Area*	*Disposal*	*Wt. Tons*	*Daily Total*	*Weekly Total*
3/7/05	1	0376	171700	A	CLF	20.61		
	2	0416	171696			23.84		
	3	0399	171720			18.92		
	4	0418	171722			20.25		
	5	0415	171725			17.50		
	6	0403	171746			18.56		
	7	0417	171747			22.47		
	8	0414	171751			19.74		
	9	0419	171773			23.90		
	10	413	171783			20.34		
	11	0402	171772			22.41		
	12	0401	171808			20.84		
	13	0420	171812			21.22		
	14	0412	171815			19.01		
	15	0400	171832			16.07		
	16	0427	171834			13.92		
	17	0411	171840			14.69		
							334.29	**334.29**

Riverside Technology Park - Lot 6
Disposed Soil
Week 4
3/14/05 - 3/18/05

CLF = Colonie Landfill

Date	No.	Manifest	Wt. Slip	Area	Disposal	Wt. Tons	Daily Total	Weekly Total
3/17/05	1	501	172818	A	CLF	18.16		
	2	409	172819			18.31		
	3	0278	172833			21.07		
	4	0408	172844			20.15		
	9	502	172842			22.48	**100.17**	
								100.17

Riverside Technology Park - Lot 6

Disposed Soil

Week 5 **3/21/05 - 3/25/05** CLF = Colonie Landfill

Date	*No.*	*Manifest*	*Wt. Slip*	*Area*	*Disposal*	*Wt. Tons*	*Daily Total*	*Weekly Total*
3/21/05	1	513	173214	A	CLF	19.12		
	2	522	173215			19.58		
	3	0407	173218			17.50	**56.20**	
3/22/05	1	0440	173477	A	CLF	22.20		
	2	0069	173420			20.47	**42.67**	
3/23/05	1	0406	173543	A	CLF	23.06		
	2	0033	173544			21.13		
	3	0032	173575			21.37		
	4	0405	173580			22.58		
	5	0404	173602			21.94		
	6	511	173626			21.40		
	7	0262	173612			23.23		
	8	0263	173642			23.09		
	9	509	173655			21.58	**199.38**	
3/24/05	1	510	173704	A	CLF	23.57		
	2	515	173701			23.30		
	3	0264	173705			23.48	**70.35**	
3/25/05	1	517	173820	A	CLF	23.17		
	2	0265	173821			22.17		
	3	0279	173824			23.36		
	4	512	173826			23.66		
	5	518	173838			26.24		
	6	442	173843			21.99	**140.59**	
								509.19

Riverside Technology Park - Lot 6

Disposed Soil

Week 6 **3/28/05 - 4/1/05**

ALF = Albany Landfill

CLF = Colonie Landfill

Date	No.	Manifest	Wt. Slip	Area	Disposal	Wt. Tons	Daily Total	Weekly Total
3/30/05	1	01	222784	A	ALF	24.11		
	2	0457	{2354-5}			23.96		
	3	0464	222786			20.24		
	4	0465	{2354-2}			23.01		
	5	0458	222809			22.25		
	6	02	{2354-4}			22.79		
	7	0466	222841			23.13		
	8	0459	222846			25.76		
	9	0473	222847			22.20	207.45	
3/31/05	1	0452	174505	A	CLF	20.89		
	2	0474	222921		ALF	22.74		
	3	523	222922		ALF	23.71		
	4	0441	174509		CLF	19.03		
	5	0451	174529		CLF	26.33		
	6	0478	222945		ALF	23.96		
	7	0443	174532		CLF	23.27		
	8	524	222948		ALF	23.67		
	9	0450	174557		CLF	23.33		
	10	0467	174560		CLF	22.69		
	11	0477	222981		ALF	25.56		
	12	0438	222983		ALF	22.75		
	13	0267	174574		CLF	24.68		
	14	0468	174581		CLF	21.46		
	15	0476	223000		ALF	24.33		
	16	0437	223001		ALF	21.90		
	17	0460	174609		CLF	23.98		
	18	0469	174611		CLF	21.92		
	19	521	223036		ALF	19.46		
	20	0461	174641		CLF	23.68		
	21	0470	174653		CLF	19.19		
	22					20.00	498.53	
4/1/05	1	0462	223054	A	ALF	22.88		
	2	0471	223055			21.44		
	3	0463	223074			24.02		
	4	0472	223078			22.25		
	5	0453	223101			23.68		
	6		223102			23.43		
	7	0454	223132			23.32		
	8	0480	223133			22.03		
	9		223143			23.54		
	10	0455	223146			23.38	229.97	
								935.95

Riverside Technology Park - Lot 6

Disposed Soil

Week 7 **4/405 - 4/8/05**

ALF = Albany Landfill

Date	No.	Manifest	Wt. Slip	Area	Disposal	Wt. Tons	Daily Total	Weekly Total
4/4/05	1	0456	223202	A	ALF	23.69		
	2	0481	223203			21.16		
	3	0482	223222			20.35		
	4	0490	223226			24.55		
	5	0483	223249			23.49		
	6	0489	223254			24.86		
	7	0484	223267			23.39		
	8	0491	223273			24.41		
	9	0485	223288			19.71		
	10	0492	223295			23.09	228.70	
4/5/05	1	0493	223322	A	ALF	23.78		
	2	0486	223333			23.87		
	3	0494	223340			23.61		
	4	0487	223351			22.51		
	5	0495	223364			25.53		
	6	0488	223372			21.72		
	7	0496	223395			26.49		
	8		223396			24.03		
	9	0497	223407			22.86		
	10		223408			20.36	234.76	
4/6/05	1	0498	223456	A	ALF	23.22		
	2	0502	223471			21.16		
	3	0499	223476			25.58		
	4	0503	223492			21.35		
	5	0500	223501			23.21		
	6	0504	223524			21.89		
	7	859	223528			24.81		
	8	0505	223539			22.32		
	9	860	223555			22.66		
	10	0501	223452			21.83	228.03	
4/7/05	1	851	223595	A	ALF	21.75		
	2	861	223599			24.17		
	3	852	223613			21.21		
	4	862	223616			24.09		
	5	853	223640			20.46		
	6	863	223646			23.86		
	7	854	223663			23.10		
	8	864	223668			24.89		
	9	855	223686			23.82		
	10	865	223690			24.05	231.40	
4/8/05	1	878	223720	A	ALF	20.28		
	2	866	223722			22.06		
	3	857	223738			21.98		
	4	867	223742			24.23		
	5	856	223771			22.22		
	6	868	223775			25.35		
	7	858	223801			21.01		
	8	869	223806			24.86		
	9	879	223826			22.14		
	10	870	223832			25.02	229.15	1,152.04

Riverside Technology Park - Lot 6 | ALF = Albany Landfill

Disposed Soil

Week 8 | **4/11/05 - 4/15/05**

Date	No.	Manifest	Wt. Slip	Area	Disp. Site	Wt. Tons LF	Daily Wt. Tons ESMI	Daily Total	Weekly Total LF	Weekly Total ESMI
4/11/05	1	871	223864	A	ALF	24.84				
	2	880	223873			19.68				
	3	872	223888			25.54				
	4	881	223895			22.53				
	5	873	223917			26.37				
	6	882	223921			22.89				
	7	874	223940			24.78				
	8	883	223945			22.58				
	9	875	223963			25.50				
	10	884	223961			23.64	236.27			
						238.35	236.27	474.62		
4/12/05	1	876	224012	A	ALF	25.91				
	2	905	224015			23.24				
	3	906	224033			24.80				
	4	877	224035			24.12				
	5	908	224050			22.07				
	6	885	224060			25.08				
	7	909	224115			20.64				
	8	886	224091			23.92				
	9	887	224119			24.64				
	10	907	224083			22.07	225.75			
						236.49	225.75	462.24		
4/13/05	1	910	224173	A	ALF	18.25				
	2	889	224174			21.82				
	3	911	224199			20.49				
	4	890	224203			22.71				
	5	912	224232			20.78				
	6	891	224235			22.05				
	7	913	224268			20.28				
	8	892	224271			23.39				
	9	893	224305			24.40				
	10	914	224304			20.40	358.83			
						214.57	358.83	573.40		
4/14/05	1	894	224346	A	ALF	23.51				
	2	915	224355			20.17				
	3	895	224367			22.36				
	4	916	224374			20.68				
	5	896	224395			21.59				
	6		224412			22.54				
	7	897	224426			22.80				
	8	917	224404			18.50				
	9	898	224454			24.78	345.99			
						196.93	345.99	542.92		
4/15/05	1	918	224492	A	ALF	21.20				
	2	945	224517			21.31				
	3	946	224536			21.67				
	4	947	224568			20.10				
	5	948	224591			21.32				
	6	949	224609			20.08	159.79			
						125.68	159.79	285.47		
									1,012.02	1,326.63
								Weekly Total :		2,338.65

Riverside Technology Park - Lot 6

Disposed Soil

Week 9 **4/18/05 - 4/22/05**

ALF = Albany Landfill

Date	No.	Manifest	Wt. Slip	Area	Disp. Site	Wt. Tons LF	Daily Wt. Tons ESMI	Daily Total	Weekly Total LF	Weekly Total ESMI
4/18/05	1	950	224639	A	ALF	19.89				
	2	951	224660			21.60				
	3	952	224683			21.45				
	4	953	224703			18.79				
	5	954	224731			20.52				
	6	955	224750			17.31	67.98			
						119.56	67.98	187.54		
4/19/05	1	899	224793	A	ALF	21.24				
	2	956	224794			20.52				
	3	900	224813			22.68				
	4	957	224816			20.90				
	5	901	224839			21.99				
	6	958	224843			19.61				
	7	902	224871			22.48				
	8	959	224873			20.50				
	9	903	224902			22.66				
	10	961	224904			20.42	195.92			
						213.00	195.92	408.92		
4/20/05	1	926	224967	A	ALF	22.55				
	2	960	224970			21.77				
	3	927	224985			21.13				
	4	962	224989			19.96				
	5	904	225009			22.70				
	6	963	225017			20.56				
	7	964	225043			22.16				
	8	924	225045			23.92				
	9	965	225072			20.33				
	10	925	225078			23.86	288.41			
						218.94	288.41	507.35		
4/21/05	1	967	225122	A	ALF	22.51				
	2	994	225128			21.02				
	3	968	225145			21.72				
	4	970	225189			21.38				
	5	993	225149			20.81				
	6	969	225162			20.77				
	7	971	225222			23.70	235.04			
						151.91	235.04	386.95		
4/22/05	1	972	225284	A	ALF	23.62				
	2	973	225312			24.64				
	3	974	225335			24.18				
	4	975	225371			25.77				
	5	976	225395			25.25				
	6	928	225424			23.21	207.20			
						146.67	207.20	353.87		
									850.08	994.55
								Weekly Total :		1,844.63

Riverside Technology Park - Lot 6						ALF = Albany Landfill					
Disposed Soil											
Week 10		**4/25/05 - 4/29/05**									
Date	***No.***	***Manifest***	***Wt. Slip***	***Area***	***Disp. Site***	***Wt. Tons LF***	***Daily Wt. Tons ESMI***	***Daily Total***	***Weekly Total LF***	***Weekly Total ESMI***
4/25/05	1	929	225443	A	ALF	28.59				
	2	940	225468			25.96				
	3	941	225498			22.18				
	4	942	225524			24.09				
	5	943	225552			22.21				
	6	944	225585			22.52	115.82			
						145.55	115.82	261.37		
4/26/05	1	977	225600	A	ALF	25.77				
	2	978	225626			23.77				
	3	979	225648			23.16				
	4	980	225681			23.33				
	5	981	225708			23.70				
	6	982	225736			21.66	119.22			
						141.39	119.22	260.61		
4/27/05	1	983	225761	A	ALF	25.64				
	2	984	225781			25.85				
	3	985	225808			26.50				
	4	986	225841			26.73				
	5	987	225860			25.74				
	6	988	225874			27.48	122.75			
						157.94	122.75	280.69		
4/28/05	1	989	225893	A	ALF	24.63				
	2	990	225907			26.12				
	3	1000	225930			29.11				
	4	651	225969			26.45				
	5	659	225996			23.64	83.99			
						129.95	83.99	213.94		
4/29/05	1	653	226027	A	ALF	26.02				
	2	654	226047			28.79				
	3	655	226069			20.16				
	4	656	226107			25.64				
	6	657	226136			23.38	0.00			
						123.99	0.00	123.99		
									698.82	441.78
								Weekly Total :		1,140.60

16 Wilbur Avenue
Schenectady, New York

Tel: (518) 374-6755
Fax: (518) 374-1599
E-mail: valley@albany.net

SINCE 1936

Fax Transmittal

Valley Equipment Company

To: Jeff Holt **Fax:** 432-4589

From: Russell Carter **Date:** July 21, 2005

Re: Lot 6 Schenectady **Pages:** 7 + Cover

CC: Lot 6 Billing

☐ Urgent ☐ For Review ☐ Please Comment ✔ Please Reply ☐ Please Recycle

Notes: Jeff, These are the weight slips for the last two days at site (5-5 and 5-6). We were shipping out concrete both days; mixed loads for decon pad and excavated concrete. Total concrete was 105.33 Tons. I am estimating 58.9 T for decon pad and 46.43 for excavated concrete. I hope this will resolve issue of application #11 item 5.

Regards,

Russell Carter

4

APPENDIX 4

Community Air Monitoring Report

588 SILVER STREET
AGAWAM, MA 01001
413-789-3530
FAX: 413-789-2776
WWW.ECSCONSULT.COM

November 22, 2005
File No. 01-202506.00
Document No. 30102

Mr. Russell Carter
Valley Equipment Company, Inc.
16 Wilber Avenue
Schenectady, NY 12304

RE: Air Sampling Results
Lot 6, Riverside Technology Park
Schenectady, New York

Dear Mr. Carter:

1.0 SCOPE OF SERVICES

Environmental Compliance Services, Inc. (ECS) was present at the above-referenced property (the site) from February 23 to April 29, 2005, to conduct real-time ambient air quality monitoring. A DUSTTRAK™ Aerosol Monitor manufactured by TSI Incorporated was used to measure the daily amount of dust/particulate matter in the ambient air. A MiniRAE 2000 instrument manufactured by RAE systems was used to measure the daily amount of Volatile Organic Compounds (VOCs) in the ambient air.

All sampling was performed in accordance with New York State Department of Health Community Air Monitoring Plan and the Riverside Lot 6 Brownfields Restoration Project Specification Section 01310A Health and Safety Plan-Minimum Requirements part 1.15 Air Monitoring Program.

The equipment was set up at temporary monitoring stations; one (1) station was upwind and two (2) stations were downwind from a predetermined location. A visual assessment was done each day to determine the wind direction. Included at each station were a tripod, environmental enclosure, dustTrak, and miniRAE 2000. (See Attachment I) Each piece of environmental monitoring equipment was programmed to run continuously and data log a reading every fifteen (15) minutes.

Calibration of the equipment was performed daily in accordance with the manufacturer specifications. 100 parts per million (ppm) of Isobutylene gas was used to calibrate the MiniRAE 2000.

The data recorded and stored by the instruments was downloaded to the computer and printed out weekly. A copy of the ECS Industrial Hygiene Field Data Collection sheets is provided as Attachment A. A copy of the daily DustTrak data log entries is provided as Attachment II. A copy of the daily MiniRAE 2000 data log entries is provided as Attachment III. The results from all three monitoring locations were recorded at fifteen minute intervals. The combined range of lowest to highest readings for both the DustTrak and the MiniRAE 2000 are summarized in the following table:

2.0 SUMMARY OF RESULTS

Date	DustTrak	MiniRAE 2000
February 23, 2005	0.004 – 0.024 mg/m^3	0.1 – 1.5 ppm
February 24, 2005	0.008 – 0.034 mg/m^3	0.0 – 0.6 ppm
February 25, 2005	0.013 – 0.060 mg/m^3	0.2 – 4.1 ppm
February 28, 2005	0.020 – 0.191 mg/m^3	0.0 – 1.5 ppm
March 3, 2005	0.006 – 0.015 mg/m^3	0.2 – 1.3 ppm
March 4, 2005	0.008 – 0.090 mg/m^3	0.0 – 2.2 ppm
March 7, 2005	0.021 – 0.061 mg/m^3	0.2 – 4.4 ppm
March 17, 2005	0.005 – 0.047 mg/m^3	0.0 – 6.3 ppm
March 21, 2005	0.031 – 0.117 mg/m^3	0.0 – 4.0 ppm
March 22, 2005	0.015 – 0.055 mg/m^3	0.0 – 9.2 ppm
March 23, 2005	0.004 – 0.035 mg/m^3	0.0 – 4.5 ppm
March 24, 2005	0.005 – 0.012 mg/m^3	0.0 – 1.1 ppm
March 25, 2005	0.035 – 0.055 mg/m^3	0.0 – 1.9 ppm
March 30, 2005	0.019 – 0.049 mg/m^3	0.0 – 9.0 ppm
March 31, 2005	0.007 – 0.060 mg/m^3	0.0 – 8.3 ppm
April 1, 2005	0.025 – 0.056 mg/m^3	0.0 – 6.6 ppm
April 4, 2005	0.001 – 0.004 mg/m^3	0.0 – 2.7 ppm
April 5, 2005	0.007 – 0.025 mg/m^3	0.0 – 2.8 ppm
April 6, 2005	0.001 – 0.052 mg/m^3	0.0 – 7.6 ppm
April 7, 2005	0.007 – 0.058 mg/m^3	0.0 – 5.2 ppm
April 8, 2005	0.003 – 0.140 mg/m^3	0.0 – 5.3 ppm
April 11, 2005	0.005 – 0.438 mg/m^3	0.0 – 6.4 ppm
April 12, 2005	0.004 – 0.189 mg/m^3	0.0 – 8.9 ppm
April 13, 2005	0.005 – 0.090 mg/m^3	0.0 – 5.6 ppm
April 14, 2005	0.009 – 0.154 mg/m^3	0.0 – 19.3 ppm
April 15, 2005	0.000 – 1.739 mg/m^3	0.0 – 17.6 ppm
April 18, 2005	0.012 – 3.337 mg/m^3	0.0 – 12.0 ppm
April 19, 2005	0.014 – 0.240 mg/m^3	0.0 – 15.9 ppm
April 20, 2005	0.056 – 0.331 mg/m^3	0.0 – 12.0 ppm
April 21, 2005	0.005 – 0.147 mg/m^3	0.0 – 11.2 ppm
April 22, 2005	0.006 – 0.162 mg/m^3	0.0 – 9.7 ppm
April 25, 2005	0.006 – 0.028 mg/m^3	0.0 – 0.0 ppm
April 26, 2005	0.009 – 0.399 mg/m^3	N/A*
April 27, 2005	0.022 – 0.202 mg/m^3	N/A*
April 28, 2005	0.013 – 0.071 mg/m^3	N/A*
April 29, 2005	0.003 – 0.218 mg/m^3	N/A*
	[1]	

[1] Milligrams per cubic meter (mg/m^3)

* Due to malfunction of data log feature, technical staff reviewed readings at 15 minute intervals. No readings were found to be inconsistent with past data logged readings.

3.0 CONCLUSION

The VOC levels throughout the project remained below 25 ppm, which was the level at which the project would have had to shut down per the requirements of the NYSDOH Community Air Monitoring Plan. Dust levels were not above the action level of 150 micrograms per cubic meter ($\mu g/m^{3)}$) for more than 15 minutes per day per the requirements of the NYSDEC Fugitive Dust Suppression and Particulate Monitoring at Inactive Hazardous Waste Sites. Dust Suppression methods were employed at the site, and included spraying bio-solv on the soil, and covering it when excavation was not taking place.

In reading and understanding the data, certain factors must be taken into consideration. The sampling instruments are sensitive to environmental factors such as; airborne moisture, condensation, dust, and temperature extremes (including extremely cold temperatures). Additional considerations include site related equipment movement. Readings can be impacted by exhaust of nearby vehicles.

Please do not hesitate to contact the undersigned with any further questions or concerns.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Laura C. Hale
Laura Hale, CET & OHST
Instructor/Field Technician

LH/kab
Attachments

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number	**_INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET_**			
Date: February 23, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOCs, particulates	continuous

Inst. Type DustTrak, miniRAE 2000	Inst. ID No.	Inst. Calibration Date 2/23/05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time:	Sample Stop Time:	Calibrated By: Laura Hale
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		
Employee Name:	SSN, Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- set up 1 monitoring station upwind and 2 stations downwind.
- equipment included tripod, environmental enclosure, dustTrak, and miniRAE 2000.
- equipment set up to log data, and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time:
Received by: Glenn Berg	Date/Time: 2/23/05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Pa

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: February 24, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOCs, particulates	continuous

Inst. Type Dust Trak, miniRAE 2000	Inst. ID No.	Inst. Calibration Date 2/24/05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time:	Sample Stop Time:	Calibrated By: Laura Hale
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- set up 1 monitoring station upwind and 2 stations downwind.
- equipment included tripod, environmental enclosure, dust Trak, and mini RAE 2000.
- Equipment set up to log data, and run continuously

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time:
Received by: Glenn Berry	Date/Time: 2/24/05

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET	
Date: February 25, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOCs, particulates				continuous	
Inst. Type miniRAE 2000 DustTrak	Inst. ID No.			Inst. Calibration Date 2/25/05	
Flow Rate (liters/minute):	Sampled By: Laura Hale			☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time:	Sample Stop Time:			Calibrated By: Laura Hale	
TOTAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:	SSN, Serial No.:		Job Classification: Shift Hours:		

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment included tripod, environmental enclosure, dust Trak and miniRAE 2000
- Equipment set up to log data, and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time:
Received by: Glen Berg	Date/Time: 02/25/05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**	
Date: February 28, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOCs, particulates				continuous	
Inst. Type miniRAE 2000 DustTrak	Inst. ID No.			Inst. Calibration Date 2/28/05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time:		Sample Stop Time:		Calibrated By: Laura Hale	
TAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment included tripod, environmental enclosure, DustTrak, and miniRAE 2000
- Equipment set up to log data and run continuously

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time:
Received by: Glen Berg	Date/Time: 2/28/05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET	
Date: March 3 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOCs, particulates				continuous	
Inst. Type DustTrak miniRAE 2000	Inst. ID No.			Inst. Calibration Date 3/3/05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☐ Other	
Sample Start Time:		Sample Stop Time:		Calibrated By: Laura Hale	
TAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment included tripod, environmental enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data, and run continuously.

Chain of Custody Record:

Relinquished by:	Laura C. Hale	Date/Time:	3/3/05
Received by:		Date/Time:	3/3/05

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Par.

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: March 4 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOCs, particulates	continuous

Inst. Type miniRAE 2000 dustTrak	Inst. ID No.	Inst. Calibration Date 3/4/05
Flow Rate (liters/minute):	Sampled By: Tom Dion	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 7:20 AM	Sample Stop Time: 1:50 PM	Calibrated By: Tom Dion
TAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN, Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment included tripod, environmental enclosure dustTrak, and miniRAE 2000.
- Equipment set up to log data, and run continuously.

Chain of Custody Record:

Relinquished by: Tom Dion	Date/Time: 3/4/05
Received by: Glen Berg	Date/Time: 3/4/05

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Par

Sample Number				INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET	
Date: March 7, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOCs, particulates				continuous	
Inst. Type DustTrak, miniRAE	Inst. ID No.			Inst. Calibration Date 3/7/05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time: 0700		Sample Stop Time: 1400		Calibrated By: Laura Hale	
TOTAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN, Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment included tripod, environmental enclosure, dustTrak, and miniRAE 2000
- Equipment set up to log data, and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale		Date/Time: 3/7/05	
Received by: Glenn Berg		Date/Time: 3/7/05	

Project # 01-202506.01.01 Site Location Lot 6, Riverside Industrial Park.

Sample Number				***INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET***	
Date: March 17, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOC's, particulates				continuous	
Inst. Type Mini Rae 2000 Dust Track	Inst. ID No.			Inst. Calibration Date 3-15-05	
Flow Rate (liters/minute):	Sampled By:			☐ Bubble ☐ Rotameter ☐ Other	
Sample Start Time: 7:00 AM	Sample Stop Time: 12:30			Calibrated By: Tom Dion	
TOTAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:	SSN, Serial No.:		Job Classification: Shift Hours:		

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up one monitoring station upwind and two monitoring stations downwind
- Equipment included tripod, Environmental enclosure, dust Trak, and MiniRae 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by:	Date/Time: 3/17/05
Received by:	Date/Time: 3/17/05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Industrial Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: March 21, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, Particulates	continuous

Inst. Type: Mini Rae 2000 / Dust Track	Inst. ID No.	Inst. Calibration Date: 3-20-05
Flow Rate (liters/minute):	Sampled By: Tom Dion	☐ Bubble ☐ Rotameter ☐ Other
Sample Start Time: 6:45 AM	Sample Stop Time: 9:30 AM	Calibrated By: Tom Dion

TAL TIME (min.):	TOTAL SAMPLE VOL. (liters):
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other
Personal Protective Equipment (PPE) Worn: LEVEL D	

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up one monitoring station upwind and two monitoring stations downwind.
- Equipment included Tripod, Environmental Enclosure, Dust Track, and Mini Rae 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by:	Date/Time: 3/21/05
Received by:	Date/Time: 3-21-05

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Industrial Par.

Sample Number				*INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET*	
Date: March 22, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis: VOCs, particulates				ANALYTICAL METHOD: continuous	
Inst. Type miniRAE 2000 DustTrak	Inst. ID No.			Inst. Calibration Date 3-21-05	
Flow Rate (liters/minute):	Sampled By: Laura Hale			☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time: 7:45 AM	Sample Stop Time: 3:00 pm			Calibrated By: Tom Dion	
TAL TIME (min.):		TOTAL SAMPLE VOL. (liters):			
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other		Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other			
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:	SSN. Serial No.:			Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up one monitoring station upwind and two monitoring stations downwind
- Equipment included tripod, environmental enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

nquished by: Laura Hale	Date/Time: 3/22/05
Received by: [illegible]	Date/Time: 3-22-2005

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: March 23, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, particulates	continuous

Inst. Type miniRAE 2000 DustTrak	Inst. ID No.	Inst. Calibration Date 3-22-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 7:45 am	Sample Stop Time: 2:00 pm	Calibrated By: Laura Hale
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 monitoring stations downwind.
- Equipment included tripod, environmental enclosure, dustTrak and miniRAE 2000.
- Equipmant set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura Hale	Date/Time: 3/23/05
Received by: EMB	Date/Time: 3-23-05

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: March 24, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOCs, particulates	continuous

Inst. Type dustTrak miniRAE2000	Inst. ID No.	Inst. Calibration Date 3-23-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0700	Sample Stop Time: 0930	Calibrated By: Laura Hale
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		
Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 monitoring stations downwind.
- Equipment included tripod, environmental enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 3-24-05
Received by: [illegible]	Date/Time: 3-24-05

ecs

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: March 25, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, particulates	continuous

Inst. Type dustTrak, miniRAE 2000	Inst. ID No.	Inst. Calibration Date 3-24-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0700	Sample Stop Time: 1030	Calibrated By: Laura Hale
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		
Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment included environmental enclosure, tripod, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura Hale	Date/Time: 3-25-05
Received by: EJ Ja Bh.	Date/Time: 3-25-05

ecs

Project # 01-202506.01.01 Site Location Lot 6 Riverside Industrial Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: 3/30/05	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☒ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's and Particulates	

Inst. Type miniRAE 2000 dustTrak	Inst. ID No.	Inst. Calibration Date 3/29/05
Flow Rate (liters/minute):	Sampled By: Thomas Dion	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time:	Sample Stop Time:	Calibrated By: Thomas Dion

TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☒ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other

Personal Protective Equipment (PPE) Worn: LEVEL D

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- 3 stations setup for VOCs and particulates. Two stations downwind and one station upwind.
- Equipment MiniRae 2000, DustTrack, Environmental Enclosure, Tri-pod.
- ALL Equipment set up for continuous monitoring and to log data.

Chain of Custody Record:

Relinquished by: [signature]	Date/Time: 3/30/05 2:10 PM
Received by: [signature]	Date/Time: 3-30-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: March 31 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, particulates	continuous

Inst. Type dustTrak miniRAE 2000	Inst. ID No.	Inst. Calibration Date 3-30-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0700	Sample Stop Time: 1400	Calibrated By: Tom Dion
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment included tripod, environmental enclosure, miniRAE and dustTrak
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura Hale	Date/Time: 3/31/05
Received by:	Date/Time: 3-31-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: April 1, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd
Contaminant(s) For Analysis				ANALYTICAL METHOD
VOC's, particulates				continuous
Inst. Type miniRAE 2000 dustTrak	Inst. ID No.			Inst. Calibration Date 3-31-05
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0700		Sample Stop Time:		Calibrated By: Laura Hale
TOTAL TIME (min.):		TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other		Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D				
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment included tripod, environmental enclosure, dustTrak, and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura Hale	Date/Time: 4/1/05
Received by: EJmB	Date/Time: 4-1-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: April 4, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd
Contaminant(s) For Analysis				ANALYTICAL METHOD
VOC's, particulates				continuous
Inst. Type miniRAE 2000 dustTrak	Inst. ID No.			Inst. Calibration Date 4-3-05
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0745		Sample Stop Time:		Calibrated By: Laura Hale
TOTAL TIME (min.):		TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other		Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D				
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment included tripod, environmental enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-4-05
Received by: [illegible]	Date/Time: 4-4-05

Project # 01-203506.01.01 Site Location Lott 6 Riverside Industrial Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: 4/5/05	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☒ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOCs and Particulates	continuous

Inst. Type: Mini Rae 2000 DustTrack	Inst. ID No.	Inst. Calibration Date: 4/4/05
Flow Rate (liters/minute): Continuous	Sampled By: Thomas Dion	☐ Bubble ☐ Rotameter ☒ Other
Sample Start Time:	Sample Stop Time:	Calibrated By: Thomas Dion

TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):
Sample Type: ☐ Personal ☒ Area ☐ Bulk ☐ Wipe ☒ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☒ Other

Personal Protective Equipment (PPE) Worn: Level D

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

1. 3 stations set up in area. Two stations down wind and ONE station upwind.

2. Equipment included mini Rae 2000, DustTrack, Environmental Enclosure, Tripods.

3. Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by:	Date/Time: 4/5/05	1:30PM
Received by:	Date/Time: 4-5-05	1:30 pm.

Project # 01-203506.01.01 Site Location Lot #6 Riverside Industrial Park.

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: 4/6/05	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☒ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOCs, Particulates	continuous

Inst. Type MINI RAE 2000 DustTrack	Inst. ID No.	Inst. Calibration Date 4/5/05
Flow Rate (liters/minute): CONTINUOUS	Sampled By: Thomas Dion	☐ Bubble ☐ Rotameter ☒ Other
Sample Start Time:	Sample Stop Time:	Calibrated By: Thomas Dion
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☒ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☒ Other	
Personal Protective Equipment (PPE) Worn: LEVEL D		
Employee Name:	SSN, Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

1. 3 Stations set up in area Two stations downwind and ONE station upwind.
2. Equipment wclude MiniRae2000, DustTrack, ENVIRONMENTAL Enclosure, Tripod.
3. Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by:	Date/Time: 4/6/05 1:15PM
Received by:	Date/Time: 4-6-5 1:15

Project # 01-203526.01.01 Site Location Lot 6 Riverside Industrial Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: 4/7/05	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☒ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, Particulates	continuous

Inst. Type: Mini Rae 2000 / DustTrak	Inst. ID No.	Inst. Calibration Date: 4/6/05
Flow Rate (liters/minute): Continuous	Sampled By: Thomas Dion	☐ Bubble ☐ Rotameter ☒ Other
Sample Start Time:	Sample Stop Time:	Calibrated By: Thomas Dion
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☒ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☒ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

1. Setup 3 stations in area, Two stations downwind and one station setup upwind.
2. Equipment included Mini Rae 2000, DustTrack, environmental Enclosure, and Tripod.
3. All Equipment setup to log data and run continuously.

Chain of Custody Record:

Relinquished by:		Date/Time: 4/7/05	14:15
Received by:		Date/Time: 4-7-05	2:15

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number					**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: April 8, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOCs, particulates				continuous	
Inst. Type dustTrak miniRAE 2000	Inst. ID No.			Inst. Calibration Date 4-7-05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time: 0700		Sample Stop Time:		Calibrated By: Laura Hale	
TOTAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment set up included tripod, environmental enclosure, dustTrak, and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-8-05
Received by: EJ ZB	Date/Time: 4-8-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Pa,

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: April 11, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, particulates	continuous

Inst. Type miniRAE 2000 dustTrak	Inst. ID No.	Inst. Calibration Date 4-10-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0700	Sample Stop Time:	Calibrated By: Laura Hale
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations... downwind.
- Equipment set up included tripod, environmental enclosure. dustTrak, and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C Hale	Date/Time: 4-11-05
Received by: E J Bk	Date/Time: 4-11-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Par

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**	
Date: April 12, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOCs, particulates				continuous	
Inst. Type miniRAE 2000 / DustTrak	Inst. ID No.			Inst. Calibration Date 4-11-05	
Flow Rate (liters/minute):	Sampled By: Laura Hale			☐ Bubble ☐ Rotameter ☐ ~~Other~~	
Sample Start Time: 0630	Sample Stop Time: 1600			Calibrated By: Laura Hale	
TAL TIME (min.):				TOTAL SAMPLE VOL. (liters):	
le Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other				Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ ~~Other~~	
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:	SSN. Serial No.:			Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment set up included tripod, environmental enclosure, dustTrak, and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-12-05
Received by: [illegible]	Date/Time: 4-12-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				
INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET				
Date: April 13, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd
Contaminant(s) For Analysis				ANALYTICAL METHOD
VOC's, particulates				continuous
Inst. Type dustTrak miniRAE 2000	Inst. ID No.			Inst. Calibration Date 4-12-05
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0630		Sample Stop Time:		Calibrated By: Laura Hale
TOTAL TIME (min.):			TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D				
Employee Name:		SSN, Serial No.:		Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment set up included tripod, environmental enclosure dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C Hale	Date/Time: 4-13-05
Received by: EJmB	Date/Time: 4-13-05

ecs

Project # 01-202506.01.01 Site Location LOT 6, RIVERSIDE TECHNOLOGY PARK

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: APRIL 14, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's & PARTICULATES	CONTINUOUS

Inst. Type DUST TRAK MINIRAE-2000	Inst. ID No.	Inst. Calibration Date 4-14-05
Flow Rate (liters/minute):	Sampled By: DAVID LYNCH	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0630	Sample Stop Time: 1430	Calibrated By: DAVID LYNCH
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: LEVEL-D		

Employee Name:	SSN, Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- SET UP (1) ONE MONITORING STATION, UPWIND & (2) TWO STATIONS DOWN WIND
- EQUIPMENT SET UP INCLUDED TRIPOD, ENVIRONMENTAL ENCLOSURE, DUST TRAK & MINIRAE 2000
- EQUIPMENT SET UP TO LOG DATA, & RUN CONTINOUSLY

Chain of Custody Record:

Relinquished by:	Date/Time: 4-14-05 / 1400 HRS
Received by:	Date/Time: 4-14-05 / 1400 hrs

ecs

Project # 01-202506.01.01 Site Location LOT 6, RIVERSIDE TECHNOLOGY PARK

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**
Date: APRIL 15, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's & PARTICULATES	CONTINUOUS

Inst. Type DUST TRAK MINIRAE 2000	Inst. ID No.	Inst. Calibration Date 4-15-05
Flow Rate (liters/minute):	Sampled By: DAVID LYNCH	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0630	Sample Stop Time: 1930	Calibrated By: DAVID LYNCH
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	

Personal Protective Equipment (PPE) Worn: LEVEL - D

Employee Name:	SSN, Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- SET UP (1) ONE MONITORING STATION UPWIND & TWO (2) STATIONS DOWNWIND
- EQUIPMENT SET UP INCLUDED TRIPOD, ENVIRONMENTAL ENCLOSURE, DUST TRAK & MINIRAE 2000
- EQUIPMENT SET UP TO LOG DATA & RUN CONTINUOUSLY

Chain of Custody Record:

Relinquished by:	Date/Time: 4-15-05 / 1400 HRS
Received by:	Date/Time: 4-15-05 / 20:00 PM.

ECS

Project # 01-202506-01.01 Site Location Lot 6 Riverside Technology Pa.

Sample Number					INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET
Date: April 18, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOC's, particulates				continuous	
Inst. Type miniRAE 2000 dustTrak	Inst. ID No.			Inst. Calibration Date 4-17-05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time: 0630		Sample Stop Time:		Calibrated By: Laura Hale	
TAL TIME (min.):		TOTAL SAMPLE VOL. (liters):			
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other		Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other			
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment set up included tripod, environmental enclosure, dustTrak, and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura Hale		Date/Time: 4-18-05	
Received by: [illegible]		Date/Time: 4-18-05	

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: April 19, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, particulates	continuous

Inst. Type miniRAE 2000 dustTrak	Inst. ID No.	Inst. Calibration Date 4-18-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☐ Other
Sample Start Time: 0630	Sample Stop Time:	Calibrated By: Laura Hale

TAL TIME (min.):	TOTAL SAMPLE VOL. (liters):
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☐ Other
Personal Protective Equipment (PPE) Worn: Level D	

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind
- Equipment set up included tripod, env. enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-19-05
Received by: Michael Cairney	Date/Time: 4-19-05

Project # 01-20250601.01 Site Location Lot 6, Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: April 20, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC's, particulates	continuous

Inst. Type dustTrak miniRAE 2000	Inst. ID No.	Inst. Calibration Date 4-19-05
Flow Rate (liters/minute):	Sampled By: Laura Hale	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 0630	Sample Stop Time: 1600	Calibrated By: Laura Hale
TAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other	
Personal Protective Equipment (PPE) Worn: Level D		
Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment set up included tripod, environmental enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-20-05
Received by: Mike Carmel	Date/Time: 4-20-05

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Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET	
Date: April 21, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOC's, particulates				continuous	
Inst. Type miniRAE 2000 dustTrak	Inst. ID No.			Inst. Calibration Date 4-20-05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time: 0630		Sample Stop Time:		Calibrated By: Laura Hale	
TOTAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment set up included tripod environmental enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-21-05
Received by:	Date/Time: 4-21-05

Project # 01-202506.01.01 Site Location Lot 6, Riverside Technology Park

Sample Number				**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**	
Date: April 22, 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd	
Contaminant(s) For Analysis				ANALYTICAL METHOD	
VOC's, particulates				continuous	
Inst. Type miniRAE 2000 dustTrak	Inst. ID No.			Inst. Calibration Date 4-22-05	
Flow Rate (liters/minute):		Sampled By: Laura Hale		☐ Bubble ☐ Rotameter ☑ Other	
Sample Start Time: 0630		Sample Stop Time:		Calibrated By: Laura Hale	
TAL TIME (min.):			TOTAL SAMPLE VOL. (liters):		
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other			Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☑ Other		
Personal Protective Equipment (PPE) Worn: Level D					
Employee Name:		SSN. Serial No.:		Job Classification: Shift Hours:	

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 1 monitoring station upwind and 2 stations downwind.
- Equipment set up included tripod, env. enclosure, dustTrak and miniRAE 2000.
- Equipment set up to log data and run continuously.

Chain of Custody Record:

Relinquished by: Laura C. Hale	Date/Time: 4-22-05
Received by: 4-2705	Date/Time:

Project # 01-202506.01-01 Site Location LOT 6 RIVERSIDE TECHNOLOGY PARK

Sample Number				INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET
Date: APRIL FEB 25 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC & PARTICULATES	CONTINOUS

Inst. Type DUSTRACK MINIRAE 2000	Inst. ID No.	Inst. Calibration Date
Flow Rate (liters/minute):	Sampled By:	☐ Bubble ☐ Rotameter ☑ Other
Sample Start Time: 6 30 AM	Sample Stop Time: 2 PM	Calibrated By:
TOTAL TIME (min.):		TOTAL SAMPLE VOL. (liters):

Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other

Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☐ Other

Personal Protective Equipment (PPE) Worn: LEVEL D

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

1. SET UP 3 MONITORING LOCATIONS 1 UPWIND 2 DOWNWIND
2. EQUIPMENT INCLUDES TRIPOD, ENVIRONMENTAL ENCLOSURE DUSTTRACK AND MINIRAE 2000
3. EQUIPMENT SET TO LOG DATA AND READ CONTINOUSLY

Chain of Custody Record:

Relinquished by: Phillip R. Stefano J.	Date/Time: 4/25/05
Received by:	Date/Time: 4/26/05 2:00 PM

ecs

Project # 01-202506.01.01 Site Location LOT 6 RIVERSIDE TECHNOLOGY PAR

Sample Number (PWD)	INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET			
Date: April ~~FEB~~ 26 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☑ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC & PARTICULATES	CONTINUOUS

Inst. Type DUST TRACK MINI RAE 2000	Inst. ID No.	Inst. Calibration Date
Flow Rate (liters/minute):	Sampled By:	☐ Bubble ☐ Rotameter ☐ Other
Sample Start Time:	Sample Stop Time:	Calibrated By:

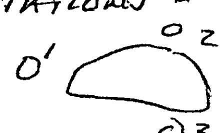
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):
Sample Type: ☐ Personal ☑ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☐ Other

Personal Protective Equipment (PPE) Worn: LEVEL D

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

① SET UP 3 MONITORING STATIONS - THERE IS NO WIND - SITES TRIANGULATED



② EQUIPMENT INCLUDES TRIPODS, ENVIRONMENTAL ENCLOSURES DUST TRACKS AND MINIRAE 2000 S

③ EQUIPMENT SET TO LOG DATA AND READ CONTINUOUSLY

Chain of Custody Record:

Relinquished by: [signature]	Date/Time: 4/26/05
Received by: [signature]	Date/Time: 4/26/05 2:00PM

Project # 01-202506.01.01 Site Location Lot 6 Riverside Technology Park

Sample Number		INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET		
Date: April 27 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☒ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC & Particulates	Continuous

Inst. Type Dust Trak Mini RAE 2000	Inst. ID No.	Inst. Calibration Date
Flow Rate (liters/minute):	Sampled By:	☐ Bubble ☐ Rotameter ☐ Other
Sample Start Time: 6:35 AM	Sample Stop Time: Dust Trak 1000	Calibrated By:
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):	
Sample Type: ☐ Personal ☒ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☐ Other	
Personal Protective Equipment (PPE) Worn: Level D		

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

1. Set up 3 monitoring locations triangulated around the pit. Rain is steady
2. Equipment includes tripods, environmental enclosure. Dust Track and Mini Rae 2000
3. Equipment set up to collect data and run continously

Chain of Custody Record:

Relinquished by: [signature]	Date/Time: 4/27/05
Received by: [signature]	Date/Time: 4/27/05

ecs

Project # 01-202 506 .01.01 Site Location Lot 6 Riverside Technology Park

Sample Number	**INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET**			
Date: April 28 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: [X] 1st [ ] 2nd [ ] 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
VOC & Particulates	Continuous

Inst. Type Dust Track mini RAE 2000	Inst. ID No.	Inst. Calibration Date
Flow Rate (liters/minute):	Sampled By:	[ ] Bubble [ ] Rotameter [ ] Other
Sample Start Time: 0630	Sample Stop Time: 1330	Calibrated By:

TOTAL TIME (min.): 7hrs	TOTAL SAMPLE VOL. (liters):
Sample Type: [ ] Personal [X] Area [ ] Bulk [ ] Wipe [ ] Other	Sample Media: [ ] Charcoal [ ] Silica Gel [ ] Membrane Filter [ ] Cyclone [ ] Badge [ ] Summa [ ] Detector Tube [ ] Impinger [ ] Other

Personal Protective Equipment (PPE) Worn: Level D.

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

Set up 3 monitoring locations 1 up wind 2 down wind

Equipment includes - tripods - work enclosures Dust track & mini rae 2000

Equipment set to log data and run continuously.

Chain of Custody Record:

Relinquished by: [signature]	Date/Time: 4/28/05
Received by: [signature]	Date/Time: 4/28/05 2:57 PM

ecs

Project # 01-20256.01.01 Site Location Lot 6 Riverside Technology Park

Sample Number	INDUSTRIAL HYGIENE FIELD DATA COLLECTION SHEET			
Date: April 29 2005	Temp (°F)	Rel. Hum. (%)	Bar. Press. (mm HG)	Shift: ☒ 1st ☐ 2nd ☐ 3rd

Contaminant(s) For Analysis	ANALYTICAL METHOD
Voc & Particulates	Continuous

Inst. Type Dust Track Mini Rae 2000	Inst. ID No.	Inst. Calibration Date
Flow Rate (liters/minute):	Sampled By:	☐ Bubble ☐ Rotameter ☐ Other
Sample Start Time:	Sample Stop Time:	Calibrated By:

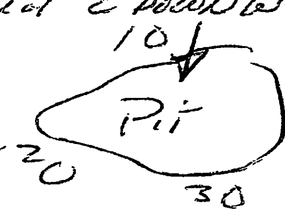
TOTAL TIME (min.):	TOTAL SAMPLE VOL. (liters):
Sample Type: ☐ Personal ☒ Area ☐ Bulk ☐ Wipe ☐ Other	Sample Media: ☐ Charcoal ☐ Silica Gel ☐ Membrane Filter ☐ Cyclone ☐ Badge ☐ Summa ☐ Detector Tube ☐ Impinger ☐ Other

Personal Protective Equipment (PPE) Worn: Level D

Employee Name:	SSN. Serial No.:	Job Classification: Shift Hours:

COMMENTS, WORK DETAILS, DIAGRAM, ETC.

- Set up 3 monitoring stations 1 upwind 2 downwind
- Equipment includes typicals Environ Enclosures Dust Track & Mini Rae 2000
- Equipment set to log data and run continuously



Chain of Custody Record:

Relinquished by: [signature]	Date/Time: 4/29/05
Received by: [signature]	Date/Time: 4-29-05

5

APPENDIX 5

Water Testing Summary

Water Testing files on CD

(CD bound in Appendix 8)

VEC-Samplelist	Adobe PDF
Lot 6 WS-eff-01	Adobe PDF
Lot 6 WS-eff-02	Adobe PDF
Lot 6 WS-eff-03-04-05	Adobe PDF
Lot 6 WS-eff-06	Adobe PDF
Lot 6 WS-eff-07	Adobe PDF
Lot 6 WS-eff-08	Adobe PDF
Lot 6 WS-eff-09 tnk-09	Adobe PDF
Lot 6 WS-eff-10-11	Adobe PDF
Lot 6 WS-eff-12-13 tnk-14	Adobe PDF
Lot 6 WS-eff-13	Adobe PDF
Lot 6 WS-eff-14	Adobe PDF
Lot 6 WS-eff-23	Adobe PDF
Lot 6 WS-eff-24-25	Adobe PDF
Lot 6 WS-tnk-01	Adobe PDF
Lot 6 WS-tnk-01b	Adobe PDF
Lot 6 WS-tnk-15	Adobe PDF
Lot 6 WS-tnk-16	Adobe PDF
Lot 6 WS-tnk-17	Adobe PDF
Lot 6 WS-tnk-18	Adobe PDF
Lot 6 WS-tnk-19	Adobe PDF
Lot 6 WS-tnk-20	Adobe PDF
Lot 6 WS-tnk-21	Adobe PDF
Lot 6 WS-tnk-22	Adobe PDF
Lot 6 WS-tnk-23	Adobe PDF
Lot 6 WS-tnk-24	Adobe PDF
Lot 6 WS-tnk-25	Adobe PDF
Lot 6 WS-tnk-26	Adobe PDF
Lot 6 WS-tnk-27	Adobe PDF

Water Testing files on CD

(CD bound in Appendix 8)

Lot 6 WS-tnk-28-29	Adobe PDF
Lot 6 WS-tnk-30	Adobe PDF
Lot 6 WS-tnk-31	Adobe PDF
Lot 6 WS-tnk-32-33	Adobe PDF
Lot 6 WS-tnk-34	Adobe PDF
Lot 6 WS-tnk-35	Adobe PDF
Lot 6 WS-tnk-36	Adobe PDF
Lot 6 WS-tnk-37	Adobe PDF
Lot 6 WS-tnk-38-39-40	Adobe PDF
Lot 6 WS-tnk-41	Adobe PDF
Lot 6 WS-tnk-42	Adobe PDF

Sample ID	Date Sampled	Analysis	Description/Comments	Treatment Required?
Test Pits	11/04/2004	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-2	02/23/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization (3 day TAT)	
CONT-3	02/23/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization (3 day TAT)	
CONT-4	02/23/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization (3 day TAT)	
CONT-5	02/24/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-6	02/24/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-7	02/24/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-8	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
CONT-9	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
CONT-10	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
CONT-11	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
B-FILL-SS01	02/25/2005	EPA 8260 + TICs	Soil sample of fill material from top 2' of area B	
B-FILL-SS02	02/25/2005	EPA 8260 + TICs	Soil sample of fill material from top 2' of area B	
New Fill-1	03/07/2005	EPA 8260 + TICs	Soil sample of fill material from RJ Valentie pit in Halfmoon	
New Fill-2	03/07/2005	EPA 8260 + TICs	Soil sample of fill material from RJ Valentie pit in Halfmoon	
DP-PRC-SS01	02/02/2005	EPA 8260 + TICs	Preconstruction soil sample from decon pad. Mis-labeled by lab as DP-PRO-5501	
DP-PRC-SS02	02/02/2005	EPA 8260 + TICs	Preconstruction soil sample from decon pad. Mis-labeled by lab as DP-PRO-5502	
DP-PRC-SS03	02/02/2005	EPA 8260 + TICs	Preconstruction soil sample from decon pad. Mis-labeled by lab as DP-PRO-5503	
A-CON-WS01	03/03/2005	Schenectady City sewer requirements	Water sample of first frac-tank. Supplimented to include copper.	Y
A-CON-WS01B	03/07/2005	Schenectady City sewer requirements	Additional water sample of first frac-tank. Additional analysis: pH, Phenolics, TSS, PCBs, Bis(2-ethylhexyl)phthalate.	
Effluent	03/07/2005	Schenectady City sewer requirements	Water sample from treated discharge from first frac-tank.	
A-CON-WS02-Eff	03/17/2005	Schenectady City sewer requirements	Water sample from treated discharge from second frac-tank.	Y
A-CON-WS03-Eff	03/18/2005	Schenectady City sewer requirements	Water sample from treated discharge from third frac-tank.	Y
A-CON-WS04-Eff	03/19/2005	Schenectady City sewer requirements	Water sample from treated discharge from fourth frac-tank.	Y
A-CON-WS05-Eff	03/20/2005	Schenectady City sewer requirements	Water sample from treated discharge from fifth frac-tank.	Y
A-CON-WS06-Eff	03/21/2005	Schenectady City sewer requirements	Water sample from treated discharge from sixth frac-tank.	Y
A-CON-WS07-Eff	03/22/2005	Schenectady City sewer requirements	Water sample from treated discharge from seventh frac-tank.	Y
A-CON-WS08-Eff	03/23/2005	Schenectady City sewer requirements	Water sample from treated discharge from eighth frac-tank.	Y
A-CON-WS09-Eff	03/24/2005	Schenectady City sewer requirements	Water sample from treated discharge from nineth frac-tank.	N
A-CON-WS09-Pre	03/24/2005	EPA 502.2	Water sample from nineth frac-tank, **prior** to treatment.	

Riverside Technology Park Lot 6
Media Sample List
Valley Equipment Company

A-CON-WS10-Eff	03/25/2005	Schenectady City sewer requirements	Water sample from treated discharge from fifth frac-tank.	Y
A-CON-WS11-Eff	03/26/2005	Schenectady City sewer requirements	Water sample from treated discharge from eleventh frac-tank.	Y
A-CON-WS12-Eff	03/28/2005	Schenectady City sewer requirements	Water sample from treated discharge from twelveth franc-tank.	Y
A-CON-WS13-Eff	03/28/2005	Schenectady City sewer requirements	Water sample from treated discharge from thirteenth frac-tank.	Y
A-CON-WS14-Pre	03/29/2005	Schenectady City sewer requirements	Water sample from fourteenth frac-tank, **prior** to treatment.	Y
A-CON-WS14-Eff	03/30/2005	Schenectady City sewer requirements	Water sample from treated discharge from 14th frac-tank.	Y
A-CON-WS15-Pre	03/30/2005	Schenectady City sewer requirements	Water sample from 15th frac-tank, **prior** to treatment.	N
~~A-CON-WS15-Eff~~	~~03/31/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 15th frac-tank.~~ DISCARDED	
A-CON-WS16-Pre	03/31/2005	Schenectady City sewer requirements	Water sample from 16th frac-tank, **prior** to treatment.	N
~~A-CON-WS16-Eff~~	04/01/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 16th frac-tank.~~ DISCARDED	
A-CON-WS17-Pre	04/01/2005	Schenectady City sewer requirements	Water sample from 17th frac-tank, **prior** to treatment.	N
~~A-CON-WS17-Eff~~	04/02/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 17th frac-tank.~~ DISCARDED	
A-CON-WS18-Pre	04/02/2005	Schenectady City sewer requirements	Water sample from 18th frac-tank, **prior** to treatment.	N
~~A-CON-WS18-Eff~~	04/03/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 18th frac-tank.~~ DISCARDED	
A-CON-WS19-Pre	04/03/2005	Schenectady City sewer requirements	Water sample from 19th frac-tank, **prior** to treatment.	N
~~A-CON-WS19-Eff~~	~~04/04/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 19th frac-tank.~~ DISCARDED	
A-CON-WS20-Pre	04/04/2005	Schenectady City sewer requirements	Water sample from 20th frac-tank, **prior** to treatment.	N
~~A-CON-WS20-Eff~~	04/04/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 20th frac-tank.~~ DISCARDED	
A-CON-WS21-Pre	04/05/2005	Schenectady City sewer requirements	Water sample from 21st frac-tank, **prior** to treatment.	N
~~A-CON-WS21-Eff~~	04/05/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 21st frac-tank.~~ DISCARDED	
A-CON-WS22-Pre	04/06/2005	Schenectady City sewer requirements	Water sample from 22nd frac-tank, **prior** to treatment.	N
~~A-CON-WS22-Eff~~	~~04/06/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 22nd frac-tank.~~ DISCARDED	

A-CON-WS23-Pre	04/07/2005	Schenectady City sewer requirements	Water sample from 23nd frac-tank, **prior** to treatment.	Y
A-CON-WS23-Eff	04/07/2005	EPA 502.2	Water sample from treated discharge from 23rd frac-tank. VOCs only	
A-CON-WS24-Pre	04/08/2005	Schenectady City sewer requirements	Water sample from 24th frac-tank, **prior** to treatment.	Y
A-CON-WS24-Eff	04/08/2005	EPA 502.2	Water sample from treated discharge from 24th frac-tank. VOCs only	
A-CON-WS25-Pre	04/09/2005	Schenectady City sewer requirements	Water sample from 25th frac-tank, **prior** to treatment.	Y
A-CON-WS25-Eff	04/11/2005	EPA 502.2	Water sample from treated discharge from 25rd frac-tank. VOCs only	
A-CON-WS26-Pre	04/11/2005	Schenectady City sewer requirements	Water sample from 26th frac-tank, **prior** to treatment.	N
~~A-CON-WS26-Eff~~	~~04/11/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 26th frac-tank.~~ ~~DISCARDED~~	
A-CON-WS27-Pre	04/12/2005	Schenectady City sewer requirements	Water sample from 27th frac-tank, **prior** to treatment.	N
~~A-CON-WS27-Eff~~	~~04/12/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 27th frac-tank.~~DISCARDED	
A-CON-WS28-Pre	04/13/2005	Schenectady City sewer requirements	Water sample from 28th frac-tank, **prior** to treatment.	N
~~A-CON-WS28-Eff~~	~~04/13/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 28th frac-tank.~~DISCARDED	
B-CON-WS29-Pre	04/13/2005	Schenectady City sewer requirements	Water sample from 29th frac-tank, **prior** to treatment.	N
~~B-CON-WS29-Eff~~	~~04/14/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 29th frac-tank.~~DISCARDED	
A-CON-WS30-Pre	04/14/2005	Schenectady City sewer requirements	Water sample from 30th frac-tank, **prior** to treatment.	N
~~A-CON-WS30-Eff~~	~~04/15/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 30th frac-tank.~~DISCARDED	
B-CON-WS31-Pre	04/15/2005	Schenectady City sewer requirements	Water sample from 31st frac-tank, **prior** to treatment.	N
~~B-CON-WS31-Eff~~	~~04/15/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 31st frac-tank.~~ Discarded	
A-CON-WS32-Pre	04/16/2005	Schenectady City sewer requirements	Water sample from 32nd frac-tank, **prior** to treatment.	N
~~A-CON-WS32-Eff~~	~~04/16/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 32nd frac-tank.~~ DISCARDED	
B-CON-WS33-Pre	04/16/2005	Schenectady City sewer requirements	Water sample from 33rd frac-tank, **prior** to treatment.	N
~~B-CON-WS33-Eff~~	~~04/17/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 33rd frac-tank.~~DISCARDED	
A-CON-WS34-Pre	04/18/2005	Schenectady City sewer requirements	Water sample from 34th frac-tank, **prior** to treatment.	N

~~A-CON-WS34-Eff~~	~~04/18/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 34th frac-tank.~~ DISCARDED	
B-CON-WS35-Pre	04/19/2005	Schenectady City sewer requirements	Water sample from 35th frac-tank, **prior** to treatment.	N
~~B-CON-WS35-Eff~~	~~04/19/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 35th frac-tank.~~ DISCARDED	
A-CON-WS36-Pre	04/20/2005	Schenectady City sewer requirements	Water sample from 36th frac-tank, **prior** to treatment.	N
~~A-CON-WS36-Eff~~	~~04/21/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 36th frac-tank.~~ DISCARDED	
B-CON-WS37-Pre	04/22/2005	Schenectady City sewer requirements	Water sample from 37th frac-tank, **prior** to treatment.	N
~~B-CON-WS37-Eff~~	~~04/22/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 37th frac-tank.~~ DISCARDED	
A-CON-WS38-Pre	04/25/2005	Schenectady City sewer requirements	Water sample from 38th frac-tank, **prior** to treatment.	N
~~A-CON-WS38-Eff~~	~~04/25/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 38th frac-tank.~~ DISCARDED	
B-CON-WS39-Pre	04/25/2005	Schenectady City sewer requirements	Water sample from 39th frac-tank, **prior** to treatment.	N
~~B-CON-WS39-Eff~~	~~04/26/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 39th frac-tank.~~ DISCARDED	
A-CON-WS40-Pre	04/28/2005	Schenectady City sewer requirements	Water sample from 40th frac-tank, **prior** to treatment.	N
~~A-CON-WS40-Eff~~	~~04/29/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 40th frac-tank.~~ DISCARDED	
A-CON-WS41-Pre	05/02/2005	Schenectady City sewer requirements	Water sample from 41st frac-tank, **prior** to treatment.	N
~~A-CON-WS41-Eff~~	~~05/02/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 41st frac-tank.~~ DISCARDED	
A-CON-WS42-Pre	05/04/2005	Schenectady City sewer requirements	Water sample from 42nd frac-tank, **prior** to treatment.	N
~~A-CON-WS42-Eff~~	~~05/04/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 42nd frac-tank.~~ DISCARDED	
A-VER-SS01	03/22/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS02	03/22/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS03	03/22/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS04	03/23/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS05	03/23/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS06	03/30/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS07	03/30/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS08	03/31/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS09	03/31/2005	EPA 8260 + TICs	Verification soil sample	

A-VER-SS10	03/31/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS11	03/31/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS12	04/01/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS13	04/01/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SSD1	04/01/2005	EPA 8260 + TICs	Verification soil sample - **Duplicate** of sample A-VER-SS13
A-VER-SS14	04/05/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS15	04/05/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS16	04/06/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS17	04/06/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS18	04/11/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS19	04/11/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS20	04/12/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS21	04/12/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS22	04/13/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS23	04/13/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS24	04/14/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS25	04/14/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS26	04/14/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SSD2	04/14/2005	EPA 8260 + TICs	Verification soil sample - **Duplicate** of sample A-VER-SS26
A-VER-SS27	04/14/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS28	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS29	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS30	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS31	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS32	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS33	04/20/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SSD3	04/20/2005	EPA 8260 + TICs	Verification soil sample - **Duplicate** of B-VER-SS33
B-VER-SS34	04/20/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS35	04/20/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS36	04/26/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS37	04/26/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS38	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS39	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS40	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS41	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS42	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS43	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS44	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SSD4	04/29/2005	EPA 8260 + TICs	Verification soil sample - Duplicate of B-VER-SS44
B-VER-SS45	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS46	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS47	04/29/2005	EPA 8260 + TICs	Verification soil sample

6

APPENDIX 6

Soil Pre-Construction &Verification Testing Summary
& Data Usability Summary Reports

Soil Testing files on CD

(CD bound in Appendix 8)

Soil SampleTest Summary	Adobe PDF
VEC SS-Samplelist	Adobe PDF
Area B Fill SS-01-02	Adobe PDF
Area B Fill SS-01-TICs	Adobe PDF
Area B Fill SS-02-TICs	Adobe PDF
Lot 6 SS-06-TICs	Adobe PDF
Lot 6 SS-07-TICs	Adobe PDF
Lot 6 SS-8-9-10-11-TICs	Adobe PDF
Lot 6 SS-12-TICs	Adobe PDF
Lot 6 SS-13-TICs	Adobe PDF
Lot 6 SS-14-TICs	Adobe PDF
Lot 6 SS-15-TICs	Adobe PDF
Lot 6 SS-16-TICs	Adobe PDF
Lot 6 SS-17-TICs	Adobe PDF
Lot 6 SS-18-TICs	Adobe PDF
Lot 6 SS-19-TICs	Adobe PDF
Lot 6 SS-20-TICs	Adobe PDF
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Lot 6 SS-22-TICs	Adobe PDF
Lot 6 SS-23-TICs	Adobe PDF
Lot 6 SS-24-TICs	Adobe PDF
Lot 6 SS-25-TICs	Adobe PDF
Lot 6 SS-26-TICs	Adobe PDF
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Lot 6 SS-28-TICs	Adobe PDF
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Lot 6 SS-39-TICs	Adobe PDF
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Lot 6 SS-41-TICs	Adobe PDF
Lot 6 SS-42-TICs	Adobe PDF

Soil Testing files on CD

(CD bound in Appendix 8)

Lot 6 SS-43-TICs	Adobe PDF
Lot 6 SS-44-TICs	Adobe PDF
Lot 6 SS-45-TICs	Adobe PDF
Lot 6 SS-46-TICs	Adobe PDF
Lot 6 SS-47-TICs	Adobe PDF
Lot 6 SS-D1-TICs	Adobe PDF
Lot 6 SS-D2-TICs	Adobe PDF
Lot 6 SS-D3-TICs	Adobe PDF
Lot 6 SS-D4-TICs	Adobe PDF
Lot 6 Deconn SS-1-2-3	Adobe PDF
Lot 6 SS-01-02-03	Adobe PDF
Lot 6 SS-04-05	Adobe PDF
Lot 6 SS-06-07	Adobe PDF
Lot 6 SS-08-09-10-11	Adobe PDF
Lot 6 SS-12-13-D1	Adobe PDF
Lot 6 SS-14-15	Adobe PDF
Lot 6 SS-16-17	Adobe PDF
Lot 6 SS-18-19	Adobe PDF
Lot 6 SS-20	Adobe PDF
Lot 6 SS-21	Adobe PDF
Lot 6 SS-22-23	Adobe PDF
Lot 6 SS-24-25-26-27-D2	Adobe PDF
Lot 6 SS-28-29-30-31-32	Adobe PDF
Lot 6 SS-33-34-35-D3	Adobe PDF
Lot 6 SS-36-37	Adobe PDF
Lot 6 SS-38-39-40-41-42	Adobe PDF
Lot 6 SS-43-44-45-46-47-D4	Adobe PDF
Lot 6 SS-New Back Fill 1-2	Adobe PDF

Riverside Technology Park - Lot 6
Verification Soil Sample Test Summary

	Sample I.D.	Wall / Floor	Depth	Sample Date 2005	PID Screen (ppm)	Lab Report Date	No. Target VOCs Detected	Total Target VOCs (ppb)	No. of TICs Detected	Total Ten TICs (ppb)
	A-VER SS-01	W	10	3/22	40	3/24	ND	ND	9	14,600
	A-VER SS-02	W	8	3/22	20	3/24	ND	ND	9	25,700
	A-VER SS-03	F	11	3/22	0-2	3/24	ND	ND	0	0
	A-VER SS-04	F	11	3/23	3-4	3/25	ND	ND	0	0
	A-VER SS-05	W	8	3/24	30's	3/25	ND	ND	8	3,080
*	A-VER SS-06	W	10	3/30	140's	4/1	ND	ND	0	0
*	A-VER SS-07	W	4	3/30	0	4/1	ND	ND	8	92,200
	A-VER SS-08	W	10	3/31	10-15	4/4	3	117	9	3,120
	A-VER SS-09	W	9	3/31	25-30	4/4	ND	ND	9	119
	A-VER SS-10	F	11	3/31	5-10	4/4	ND	ND	9	323
	A-VER SS-11	F	12	3/31	2-5	4/4	ND	ND	0	0
	A-VER SS-12	W	9.5	4/1	15-20	4/4	ND	ND	9	493
	A-VER SS-13	F	12	4/1	25-35	4/4	ND	ND	9	3,490
	DUPE D1 (13)		*12*	*4/1*		*4/4*	*ND*	*ND*	*9*	*8,023*
	A-VER SS-14	W	9	4/5	1600	4/8	9	360,500	10	856,000
	A-VER SS-15	W	9	4/5	650	4/8	9	515	8	2,507
	A-VER SS-16	F	13.5	4/6	10-20	4/8	ND	ND	8	66
	A-VER SS-17	F	13.5	4/6	0-1	4/8	ND	ND	0	0
	A-VER SS-18	W	9	4/11	600	4/14	10	18,590	10	29,000
	A-VER SS-19	F	12	4/11	10-20	4/14	ND	ND	0	0
	A-VER SS-20	W	10	4/12	6	4/13	ND	ND	0	0
	A-VER SS-21	F	12	4/12	5-10	4/14	ND	ND	0	0
	A-VER SS-22	F	11	4/13	2	4/15	ND	ND	1	12
	A-VER SS-23	F	12	4/13	12-17	4/15	ND	ND	4	39
	A-VER SS-24	W	8	4/14	150 (750)	4/18	7	15,580	10	106,900
	A-VER SS-25	F	12	4/14	15	4/18	ND	ND	8	285
	A-VER SS-26	W	9	4/14	1500	4/18	2	8,700	10	277,000
	DUPE D2 (26)		*9*	*4/14*		*4/18*	*ND*	*ND*	*10*	*392,000*
	A-VER SS-27	W	9	4/14	1600	4/18	ND	ND	8	21,000
	A-VER SS-28	F	12	4/19	3-4	4/20	ND	ND	2	25
	A-VER SS-29	W	8.5	4/19	30-40	4/20	ND	ND	6	46
	A-VER SS-30	W	9.5	4/19	5-10	4/20	ND	ND	8	269
	A-VER SS-31	W	10	4/19	30-50	4/20	ND	ND	9	1,502
	A-VER SS-32	F	12	4/19	5-7	4/20	ND	ND	0	0
	A-VER SS-33	W	8	4/20	10-15	4/22	ND	ND	0	0
	DUPE 3 (33)		*8*	*4/20*		*4/22*	*ND*	*ND*	*0*	*0*
	A-VER SS-34	F	12	4/20	3-5	4/22	ND	ND	0	0
	A-VER SS-35	F	12	4/20	1-3	4/22	ND	ND	0	0
	A-VER SS-36	W	9	4/26	1	4/29	ND	ND	0	0
	A-VER SS-37	W	9	4/26	8	4/29	ND	ND	0	0
	A-VER SS-38	F	12	4/27	2	4/29	ND	ND	0	0
	A-VER SS-39	W	9.5	4/27	<1	4/29	ND	ND	0	0
	A-VER SS-40	W	9.5	4/27	1-3	4/29	ND	ND	9	82
	A-VER SS-41	W	8.5	4/27	<1	4/29	ND	ND	0	0
	A-VER SS-42	F	12	4/27	<1	4/29	ND	ND	0	0
	A-VER SS-43	F	13	4/27	4	4/29	ND	ND	0	0
	A-VER SS-44	W	4	4/29	<1	5/3	ND	ND	0	0
	DUPE 4 (44)		4	4/29		5/3	ND	ND	0	0
	A-VER SS-45	W	9	4/29	110	5/3	ND	ND	9	229,000
	A-VER SS-46	W	9	4/29	1	5/3	ND	ND	0	0
	A-VER SS-47	W	9	4/29	100	5/3	ND	ND	9	7,500

* *Samples SS-06 and SS-07 may have been switched in the laboratory.*

Sample ID	Date Sampled	Analysis	Description/Comments	Treatment Required?
Test Pits	11/04/2004	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-2	02/23/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization (3 day TAT)	
CONT-3	02/23/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization (3 day TAT)	
CONT-4	02/23/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization (3 day TAT)	
CONT-5	02/24/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-6	02/24/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-7	02/24/2005	Albany & Colonie LF parameters	Soil sample for land fill disposal chatacterization	
CONT-8	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
CONT-9	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
CONT-10	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
CONT-11	04/07/2005	ESMI parameters: 8015 DRO & GRO, 8 Metals	Soil sample for thermal treatment chatacterization (1 day TAT)	
B-FILL-SS01	02/25/2005	EPA 8260 + TICs	Soil sample of fill material from top 2' of area B	
B-FILL-SS02	02/25/2005	EPA 8260 + TICs	Soil sample of fill material from top 2' of area B	
New Fill-1	03/07/2005	EPA 8260 + TICs	Soil sample of fill material from RJ Valentie pit in Halfmoon	
New Fill-2	03/07/2005	EPA 8260 + TICs	Soil sample of fill material from RJ Valentie pit in Halfmoon	
DP-PRC-SS01	02/02/2005	EPA 8260 + TICs	Preconstruction soil sample from decon pad. Mis-labeled by lab as DP-PRO-5501	
DP-PRC-SS02	02/02/2005	EPA 8260 + TICs	Preconstruction soil sample from decon pad. Mis-labeled by lab as DP-PRO-5502	
DP-PRC-SS03	02/02/2005	EPA 8260 + TICs	Preconstruction soil sample from decon pad. Mis-labeled by lab as DP-PRO-5503	
A-CON-WS01	03/03/2005	Schenectady City sewer requirements	Water sample of first frac-tank. Supplimented to include copper.	Y
A-CON-WS01B	03/07/2005	Schenectady City sewer requirements	Additional water sample of first frac-tank. Additional analysis: pH, Phenolics, TSS, PCBs, Bis(2-ethylhexyl)phthalate.	
Effluent	03/07/2005	Schenectady City sewer requirements	Water sample from treated discharge from first frac-tank.	
A-CON-WS02-Eff	03/17/2005	Schenectady City sewer requirements	Water sample from treated discharge from second frac-tank.	Y
A-CON-WS03-Eff	03/18/2005	Schenectady City sewer requirements	Water sample from treated discharge from third frac-tank.	Y
A-CON-WS04-Eff	03/19/2005	Schenectady City sewer requirements	Water sample from treated discharge from fourth frac-tank.	Y
A-CON-WS05-Eff	03/20/2005	Schenectady City sewer requirements	Water sample from treated discharge from fifth frac-tank.	Y
A-CON-WS06-Eff	03/21/2005	Schenectady City sewer requirements	Water sample from treated discharge from sixth frac-tank.	Y
A-CON-WS07-Eff	03/22/2005	Schenectady City sewer requirements	Water sample from treated discharge from seventh frac-tank.	Y
A-CON-WS08-Eff	03/23/2005	Schenectady City sewer requirements	Water sample from treated discharge from eighth frac-tank.	Y
A-CON-WS09-Eff	03/24/2005	Schenectady City sewer requirements	Water sample from treated discharge from nineth frac-tank.	N
A-CON-WS09-Pre	03/24/2005	EPA 502.2	Water sample from nineth frac-tank, **prior** to treatment.	

Riverside Technology Park Lot 6
Media Sample List
Valley Equipment Company

A-CON-WS10-Eff	03/25/2005	Schenectady City sewer requirements	Water sample from treated discharge from fifth frac-tank.	Y
A-CON-WS11-Eff	03/26/2005	Schenectady City sewer requirements	Water sample from treated discharge from eleventh frac-tank.	Y
A-CON-WS12-Eff	03/28/2005	Schenectady City sewer requirements	Water sample from treated discharge from twelveth franc-tank.	Y
A-CON-WS13-Eff	03/28/2005	Schenectady City sewer requirements	Water sample from treated discharge from thirteenth frac-tank.	Y
A-CON-WS14-Pre	03/29/2005	Schenectady City sewer requirements	Water sample from fourteenth frac-tank, prior to treatment.	Y
A-CON-WS14-Eff	03/30/2005	Schenectady City sewer requirements	Water sample from treated discharge from 14th frac-tank.	Y
A-CON-WS15-Pre	03/30/2005	Schenectady City sewer requirements	Water sample from 15th frac-tank, prior to treatment.	N
~~A-CON-WS15-Eff~~	~~03/31/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 15th frac-tank.~~ DISCARDED	
A-CON-WS16-Pre	03/31/2005	Schenectady City sewer requirements	Water sample from 16th frac-tank, prior to treatment.	N
~~A-CON-WS16-Eff~~	04/01/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 16th frac-tank.~~ DISCARDED	
A-CON-WS17-Pre	04/01/2005	Schenectady City sewer requirements	Water sample from 17th frac-tank, prior to treatment.	N
~~A-CON-WS17-Eff~~	04/02/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 17th frac-tank.~~ DISCARDED	
A-CON-WS18-Pre	04/02/2005	Schenectady City sewer requirements	Water sample from 18th frac-tank, prior to treatment.	N
~~A-CON-WS18-Eff~~	04/03/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 18th frac-tank.~~ DISCARDED	
A-CON-WS19-Pre	04/03/2005	Schenectady City sewer requirements	Water sample from 19th frac-tank, prior to treatment.	N
~~A-CON-WS19-Eff~~	~~04/04/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 19th frac-tank.~~ DISCARDED	
A-CON-WS20-Pre	04/04/2005	Schenectady City sewer requirements	Water sample from 20th frac-tank, prior to treatment.	N
~~A-CON-WS20-Eff~~	04/04/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 20th frac-tank.~~ DISCARDED	
A-CON-WS21-Pre	04/05/2005	Schenectady City sewer requirements	Water sample from 21st frac-tank, prior to treatment.	N
~~A-CON-WS21-Eff~~	04/05/2005	Schenectady City sewer requirements	~~Water sample from treated discharge from 21st frac-tank.~~ DISCARDED	
A-CON-WS22-Pre	04/06/2005	Schenectady City sewer requirements	Water sample from 22nd frac-tank, prior to treatment.	N
~~A-CON-WS22-Eff~~	~~04/06/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 22nd frac-tank.~~ DISCARDED	

A-CON-WS23-Pre	04/07/2005	Schenectady City sewer requirements	Water sample from 23nd frac-tank, prior to treatment.	Y
A-CON-WS23-Eff	04/07/2005	EPA 502.2	Water sample from treated discharge from 23rd frac-tank. VOCs only	
A-CON-WS24-Pre	04/08/2005	Schenectady City sewer requirements	Water sample from 24th frac-tank, prior to treatment.	Y
A-CON-WS24-Eff	04/08/2005	EPA 502.2	Water sample from treated discharge from 24th frac-tank. VOCs only	
A-CON-WS25-Pre	04/09/2005	Schenectady City sewer requirements	Water sample from 25th frac-tank, prior to treatment.	Y
A-CON-WS25-Eff	04/11/2005	EPA 502.2	Water sample from treated discharge from 25rd frac-tank. VOCs only	
A-CON-WS26-Pre	04/11/2005	Schenectady City sewer requirements	Water sample from 26th frac-tank, prior to treatment.	N
~~A-CON-WS26-Eff~~	~~04/11/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 26th frac-tank.~~ ~~DISCARDED~~	
A-CON-WS27-Pre	04/12/2005	Schenectady City sewer requirements	Water sample from 27th frac-tank, prior to treatment.	N
~~A-CON-WS27-Eff~~	~~04/12/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 27th frac-tank.~~DISCARDED	
A-CON-WS28-Pre	04/13/2005	Schenectady City sewer requirements	Water sample from 28th frac-tank, prior to treatment.	N
~~A-CON-WS28-Eff~~	~~04/13/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 28th frac-tank.~~DISCARDED	
B-CON-WS29-Pre	04/13/2005	Schenectady City sewer requirements	Water sample from 29th frac-tank, prior to treatment.	N
~~B-CON-WS29-Eff~~	~~04/14/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 29th frac-tank.~~DISCARDED	
A-CON-WS30-Pre	04/14/2005	Schenectady City sewer requirements	Water sample from 30th frac-tank, prior to treatment.	N
~~A-CON-WS30-Eff~~	~~04/15/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 30th frac-tank.~~ DISCARDED	
B-CON-WS31-Pre	04/15/2005	Schenectady City sewer requirements	Water sample from 31st frac-tank, prior to treatment.	N
~~B-CON-WS31-Eff~~	~~04/15/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 31st frac-tank.~~ Discarded	
A-CON-WS32-Pre	04/16/2005	Schenectady City sewer requirements	Water sample from 32nd frac-tank, prior to treatment.	N
~~A-CON-WS32-Eff~~	~~04/16/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 32nd frac-tank.~~ DISCARDED	
B-CON-WS33-Pre	04/16/2005	Schenectady City sewer requirements	Water sample from 33rd frac-tank, prior to treatment.	N
~~B-CON-WS33-Eff~~	~~04/17/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 33rd frac-tank.~~DISCARDED	
A-CON-WS34-Pre	04/18/2005	Schenectady City sewer requirements	Water sample from 34th frac-tank, prior to treatment.	N

~~A-CON-WS34-Eff~~	~~04/18/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 34th frac-tank.~~ DISCARDED	
B-CON-WS35-Pre	04/19/2005	Schenectady City sewer requirements	Water sample from 35th frac-tank, **prior** to treatment.	N
~~B-CON-WS35-Eff~~	~~04/19/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 35th frac-tank.~~ DISCARDED	
A-CON-WS36-Pre	04/20/2005	Schenectady City sewer requirements	Water sample from 36th frac-tank, **prior** to treatment.	N
~~A-CON-WS36-Eff~~	~~04/21/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 36th frac-tank.~~ DISCARDED	
B-CON-WS37-Pre	04/22/2005	Schenectady City sewer requirements	Water sample from 37th frac-tank, **prior** to treatment.	N
~~B-CON-WS37-Eff~~	~~04/22/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 37th frac-tank.~~ DISCARDED	
A-CON-WS38-Pre	04/25/2005	Schenectady City sewer requirements	Water sample from 38th frac-tank, **prior** to treatment.	N
~~A-CON-WS38-Eff~~	~~04/25/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 38th frac-tank.~~ DISCARDED	
B-CON-WS39-Pre	04/25/2005	Schenectady City sewer requirements	Water sample from 39th frac-tank, **prior** to treatment.	N
~~B-CON-WS39-Eff~~	~~04/26/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 39th frac-tank.~~ DISCARDED	
A-CON-WS40-Pre	04/28/2005	Schenectady City sewer requirements	Water sample from 40th frac-tank, **prior** to treatment.	N
~~A-CON-WS40-Eff~~	~~04/29/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 40th frac-tank.~~ DISCARDED	
A-CON-WS41-Pre	05/02/2005	Schenectady City sewer requirements	Water sample from 41st frac-tank, **prior** to treatment.	N
~~A-CON-WS41-Eff~~	~~05/02/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 41st frac-tank.~~ DISCARDED	
A-CON-WS42-Pre	05/04/2005	Schenectady City sewer requirements	Water sample from 42nd frac-tank, **prior** to treatment.	N
~~A-CON-WS42-Eff~~	~~05/04/2005~~	~~Schenectady City sewer requirements~~	~~Water sample from treated discharge from 42nd frac-tank.~~ DISCARDED	
A-VER-SS01	03/22/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS02	03/22/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS03	03/22/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS04	03/23/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS05	03/23/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS06	03/30/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS07	03/30/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS08	03/31/2005	EPA 8260 + TICs	Verification soil sample	
A-VER-SS09	03/31/2005	EPA 8260 + TICs	Verification soil sample	

A-VER-SS10	03/31/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS11	03/31/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS12	04/01/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS13	04/01/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SSD1	04/01/2005	EPA 8260 + TICs	Verification soil sample - **Duplicate** of sample A-VER-SS13
A-VER-SS14	04/05/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS15	04/05/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS16	04/06/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS17	04/06/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS18	04/11/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS19	04/11/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS20	04/12/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS21	04/12/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS22	04/13/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS23	04/13/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS24	04/14/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS25	04/14/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SS26	04/14/2005	EPA 8260 + TICs	Verification soil sample
A-VER-SSD2	04/14/2005	EPA 8260 + TICs	Verification soil sample - **Duplicate** of sample A-VER-SS26
A-VER-SS27	04/14/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS28	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS29	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS30	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS31	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS32	04/19/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS33	04/20/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SSD3	04/20/2005	EPA 8260 + TICs	Verification soil sample - **Duplicate** of B-VER-SS33
B-VER-SS34	04/20/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS35	04/20/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS36	04/26/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS37	04/26/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS38	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS39	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS40	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS41	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS42	04/27/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS43	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS44	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SSD4	04/29/2005	EPA 8260 + TICs	Verification soil sample - Duplicate of B-VER-SS44
B-VER-SS45	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS46	04/29/2005	EPA 8260 + TICs	Verification soil sample
B-VER-SS47	04/29/2005	EPA 8260 + TICs	Verification soil sample

Jennifer Warner Carter, P.G.
407 Antler Ct.
Ballston Spa, NY 12020
(518) 885-9656

December 22, 2005

Mr. Russell Carter
Valley Equipment Company, Inc.
16 Wilber Ave.
Schenectady, NY 12301

RE: Brownfield Environmental Restoration Project, Lot 6 Analytical Samples

Dear Russell,

Attached please find 19 Data Usability Summary Reports (DUSRs) that were reviewed by me at your request. Each report corresponds to a batch of soil samples that were submitted to Phoenix Environmental Laboratories, Inc. for analysis during the site work at Lot 6. All soil samples taken during the site investigation are discussed in the 19 DUSRs. The DUSRs were prepared in accordance to New York State Department of Environmental Conservation's (NYSDEC) *Draft DER-10, Technical Guidance for Site Investigations and Remediation, Appendix 2B Guidance for the Development of DUSRs* (2002).

Quality assurance protocol, that was followed during the analysis of samples collected at the site, are discussed in Phoenix Lab's Quality Assurance Program Plan (QAPP) which was approved by NYSDEC prior to the start of site work. Please note that Phoenix lab uses the terminology Lab Control Sample (LCS) instead of Matrix Spike Blank (MSB). Both LCS and MSB are defined the same way.

If you have any questions please do not hesitate to give me a call.

Sincerely,

Jennifer Warner Carter, P.G.
Environmental Consultant

Guidance for the Development of Data Usability Summary Reports

GAG34627

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? YES

   Some of the samples had reported values of acetone and methylene chloride. Note that both of these solvents are used in the laboratory and the presence in the samples at such low levels may be due to contamination.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG34953

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? YES

   Some of the samples had reported values of acetone and methylene chloride. Note that both of these solvents are used in the laboratory and the presence in the samples at such low levels may be due to contamination.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG32684

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   1,1 Dichloroethene, Benzene, Toluene, and Chlorobenzene had RPDs that exceeded the acceptance criteria in the MS/MSD, note that the LCS (MSB) was within criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG31153

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   1,1 Dichloroethene, trichloroethene, and benzene had RPDs that exceeded the acceptance criteria in the MS/MSD, note that the LCS (MSB) was within criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG31158

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Toluene had a RPD that exceeded the acceptance criteria in the MS/MSD, note that the LCS (MSB) was within criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG30532

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Blank 01 had some positive concentrations, a postive bias is not suspected in the samples (all compounds were non detected). One surrogate (BFB) had recoveries that exceeded the acceptance criteria, again a positive bias is not suspected. 1,1 Dichloroethene and toluene had RPDs that exceeded the acceptance criteria in the MS/MSD, note that the LCS (MSB) was within criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG30308

Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Trichloroethene was outside of criteria in the MS and the MSDRPD, it was however in control for the LCS (MSB) – no bias is suspected.
   The internal area for one of the surrogates in the batch QC MS sample was outside of criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols?
   SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG28637

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Toluene RPD between the MS/MSD was 22% (criteria is <21%)

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of
Data Usability Summary Reports
GAG25702

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   The surrogate recovery and internal standard area for the batch sample were outside of acceptance criteria. This does not affect the data quality of the two samples reported in this batch.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG19655

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Chlorobenzene recovery in the matrix spike was 58 (criteria is 60-133)
   The RPD between the LCS (MSB) and LCSD (MSB Duplicate) was 32 (criteria is <14). Note there is no requirement to analyze a LCSD and therefore there is no requirement on the RPD.

4. Have all of the data been generated using established and agreed upon analytical protocols?
   SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG36318

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? YES

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG28885

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? YES

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG30048

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? YES

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG33318

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? YES

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG33700

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Sample AVERSS-24(AG33700):
   1,2,4-Trimethylbenzene read 162 ppb at a 50X dilution. The highest calibration standard is 150. The data is flagged with a E to show that it was quantitated above the calibration range.

   Sample AVERSS-26 had a surrogate recovery (BFB) that exceeded criteria, the sample contained a large petroleum distribution and matrix interference is suspected

   1,1 Dichloroethene had a RPD for the MS/MSD that exceeded acceptance criteria, note that the LCS (MSB) was within criteria.

   The internal area count for some of the samples exceeded the acceptance criteria, this is most likely due to the large petroleum distribution in the chromatograms.

4. Have all of the data been generated using established and agreed upon analytical protocols?
   SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG32996

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Both method blanks had positive concentrations for some compounds, a positve bias is not suspected in the sample, however, because all of the compounds were non-detected. 1,1 Dichloroethene, Benzene, Toluene, and Chlorobenzene had RPDs that exceeded the acceptance criteria in the MS/MSD, note that the LCS (MSB) was within criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG32791

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Carbon disulfide in the sample was also present in the blank (flagged with a B). Note, that this compound was not part of the standard Phoenix report
   1,1 Dichloroethene, Benzene, Toluene, and Chlorobenzene had RPDs that exceeded the acceptance criteria in the MS/MSD, note that the LCS (MSB) was within criteria.

4. Have all of the data been generated using established and agreed upon analytical protocols?
   SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG37479

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Toluene had a RPDs greater than the acceptance criteria in the MS/MSD. Note the LCS (MSB) was within accpetance criteria
   Some of the samples had reported values of methylene chloride. Note that this solvent is used in the laboratory and the presence in the samples at such low levels may be due to contamination.

4. Have all of the data been generated using established and agreed upon analytical protocols?
   SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG36744

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   Trichloroethene and Benzene had RPDs greater than the acceptance criteria in the MS/MSD. Note the LCS (MSB) was within accpetance criteria
   Some of the samples had reported values of acetone. Note that this solvent is used in the laboratory and the presence in the samples at such low levels may be due to contamination.
   The samples exhibited low internal area counts even after reanalysis, a negative bias is not suspected though because all the target compounds were non-detected.

4. Have all of the data been generated using established and agreed upon analytical protocols?
   SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

Guidance for the Development of Data Usability Summary Reports

GAG24400

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables? YES

2. Have all holding times been met? YES

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications? NO

   The MS and MSD recoveries were below acceptance criteria –see Form III. Note that the LCS (MSB) was within criteria – no further action was required.

4. Have all of the data been generated using established and agreed upon analytical protocols? SW-846 method 8260 was followed. Method 8260 is a mass spect. method that is recommended in 8021. Also 8260 is the method used when reporting volatile organics by NY ASP category B.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms? YES

6. Have the correct data qualifiers been used? YES

Evaluation of NYSDEC ASP Matrix Spike Blank (MSB) data - If the MSB recovery is less than the ASP criteria, the positive results should be qualified as J, estimated biased low. If the MSB recovery is less than the ASP criteria, but greater than 10%, the nondetect should be qualified J, biased low. If the MSB recovery is less than 10%, the nondetect data must be rejected. (Note: Phoenix uses the term LCS for the MSB)

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Contract: Valley

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: GAG24400

Matrix Spike - EPA Sample No.: _____ Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50	0	30	60		59-172
Trichloroethene	50	0	19	38	*	62-137
Benzene	50	0	25	50	*	66-142
Toluene	50	0	19	38	*	59-139
Chlorobenzene	50	0	14	28	*	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	REC.
1,1-Dichloroethene	50	32	64		6		22	59-172
Trichloroethene	50	21	42	*	10		24	62-137
Benzene	50	29	58	*	15		21	66-142
Toluene	50	22	44	*	15		21	59-139
Chlorobenzene	50	15	30	*	7		21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 8 out of 10 outside limits

COMMENTS: _____

APPENDIX 7

Western Fill Soil Verification Testing

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TITLE PAGE

On April 21, 2005 three soil samples were received by Adirondack Environmental Services, Inc. from Holt Consulting for the Lot 6 site. These samples were analyzed for Semi-Volatile Organics as specified by the contract. The project was completed on May 20, 2005.

Laboratory Manager

Date: 5/20/05

Adirondack Environmental Services, Inc

Date: *26-Apr-05*

CLIENT: Holt Consulting
Project: 3 Soils/STARS 8270

LabWork Order: 050421043
PO#:

Lab SampleID: 050421043-001
Client Sample ID: C10-A1

Collection Date: 4/21/2005
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C(SW3550)						Analyst: MT
Naphthalene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
2-Methylnaphthalene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Acenaphthylene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Acenaphthene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Dibenzofuran	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Fluorene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Phenanthrene	630	330		µg/Kg	1	4/25/2005 9:17:00 PM
Anthracene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Fluoranthene	810	330		µg/Kg	1	4/25/2005 9:17:00 PM
Pyrene	830	330		µg/Kg	1	4/25/2005 9:17:00 PM
Benz(a)anthracene	370	330		µg/Kg	1	4/25/2005 9:17:00 PM
Chrysene	350	330		µg/Kg	1	4/25/2005 9:17:00 PM
Benzo(b)fluoranthene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Benzo(k)fluoranthene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Benzo(a)pyrene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Indeno(1,2,3-cd)pyrene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Dibenz(a,h)anthracene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM
Benzo(g,h,i)perylene	< 330	330		µg/Kg	1	4/25/2005 9:17:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits,Estimated
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 26-Apr-05

CLIENT: Holt Consulting
Project: 3 Soils/STARS 8270

LabWork Order: 050421043
PO#:

Lab SampleID: 050421043-002
Client Sample ID: C10-B

Collection Date: 4/21/2005
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C(SW3550)						Analyst: **MT**
Naphthalene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
2-Methylnaphthalene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Acenaphthylene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Acenaphthene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Dibenzofuran	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Fluorene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Phenanthrene	530	330		µg/Kg	1	4/25/2005 10:09:00 PM
Anthracene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Fluoranthene	780	330		µg/Kg	1	4/25/2005 10:09:00 PM
Pyrene	520	330		µg/Kg	1	4/25/2005 10:09:00 PM
Benz(a)anthracene	330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Chrysene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Benzo(b)fluoranthene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Benzo(k)fluoranthene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Benzo(a)pyrene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Indeno(1,2,3-cd)pyrene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Dibenz(a,h)anthracene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM
Benzo(g,h,i)perylene	< 330	330		µg/Kg	1	4/25/2005 10:09:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits Estimated
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *26-Apr-05*

CLIENT: Holt Consulting
Project: 3 Soils/STARS 8270

LabWork Order: 050421043
PO#:

Lab SampleID: 050421043-003
Client Sample ID: C10-C

Collection Date: 4/21/2005
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS	**SW8270C(SW3550)**					Analyst: **MT**
Naphthalene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
2-Methylnaphthalene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Acenaphthylene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Acenaphthene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Dibenzofuran	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Fluorene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Phenanthrene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Anthracene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Fluoranthene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Pyrene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Benz(a)anthracene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Chrysene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Benzo(b)fluoranthene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Benzo(k)fluoranthene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Benzo(a)pyrene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Indeno(1,2,3-cd)pyrene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Dibenz(a,h)anthracene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM
Benzo(g,h,i)perylene	< 330	330		µg/Kg	1	4/25/2005 11:01:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits,Estimated
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

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Case Narrative

Client: Holt Consulting – Lot 6

Case: HC 0501

SDG: C10-A1

Sample ID	Laboratory Sample ID	Date Received	VTSR	Matrix
C10-A1	050421043-001	04/21/05	16:17	Soil
C10-B	050421043-002	04/21/05	16:17	Soil
C10-C	050421043-003	04/21/05	16:17	Soil

Semi-Volatile Organics

1) The samples were analyzed using EPA Method 8270 for PAH's only following the criteria for NYSDEC ASP.

2) Sample C10-A1 (AES sample number 050421043-001) was used for the matrix spike and the matrix spike duplicate analysis. All the recoveries were within acceptable limits.

"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Laboratory Manager

Date: 5/20/05

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C10-A1

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: HC0501 SAS No.: SDG No.: C10-A1

Matrix: (soil/water) SOIL Lab Sample ID: C10-A1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0664

Level: (low/med) LOW Date Received: 04/21/05

% Moisture: 12. decanted: (Y/N) N Date Extracted: 04/25/05

Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 04/25/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	100.	J
91-57-6	2-Methylnaphthalene	380.	U
208-96-8	Acenaphthylene	380.	U
83-32-9	Acenaphthene	48.	J
132-64-9	Dibenzofuran	380.	U
86-73-7	Fluorene	54.	J
85-01-8	Phenanthrene	720.	
120-12-7	Anthracene	120.	J
206-44-0	Fluoranthene	920.	
129-00-0	Pyrene	710.	
56-55-3	Benzo(a)anthracene	420.	
218-01-9	Chrysene	410.	
205-99-2	Benzo(b)fluoranthene	230.	J
207-08-9	Benzo(k)fluoranthene	300.	J
50-32-8	Benzo(a)pyrene	310.	J
193-39-5	Indeno(1,2,3-cd)pyrene	160.	J
53-70-3	Dibenzo(a,h)anthracene	380.	U
191-24-2	Benzo(g,h,i)perylene	150.	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C10-B

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: HC0501 SAS No.: SDG No.: C10-A1

Matrix: (soil/water) SOIL Lab Sample ID: C10-B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0665

Level: (low/med) LOW Date Received: 04/21/05

% Moisture: 15. decanted: (Y/N) N Date Extracted: 04/25/05

Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 04/25/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	390.	U
91-57-6	2-Methylnaphthalene	390.	U
208-96-8	Acenaphthylene	390.	U
83-32-9	Acenaphthene	68.	J
132-64-9	Dibenzofuran	390.	U
86-73-7	Fluorene	71.	J
85-01-8	Phenanthrene	630.	
120-12-7	Anthracene	350.	J
206-44-0	Fluoranthene	900.	
129-00-0	Pyrene	610.	
56-55-3	Benzo(a)anthracene	390.	J
218-01-9	Chrysene	370.	J
205-99-2	Benzo(b)fluoranthene	270.	J
207-08-9	Benzo(k)fluoranthene	250.	J
50-32-8	Benzo(a)pyrene	310.	J
193-39-5	Indeno(1,2,3-cd)pyrene	210.	J
53-70-3	Dibenzo(a,h)anthracene	390.	U
191-24-2	Benzo(g,h,i)perylene	190.	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C10-C

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: HC0501 SAS No.: SDG No.: C10-A1

Matrix: (soil/water) SOIL Lab Sample ID: C10-C

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0666

Level: (low/med) LOW Date Received: 04/21/05

% Moisture: 13. decanted: (Y/N) N Date Extracted: 04/25/05

Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 04/25/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	380.	U
91-57-6	2-Methylnaphthalene	380.	U
208-96-8	Acenaphthylene	380.	U
83-32-9	Acenaphthene	380.	U
132-64-9	Dibenzofuran	380.	U
86-73-7	Fluorene	380.	U
85-01-8	Phenanthrene	130.	J
120-12-7	Anthracene	79.	J
206-44-0	Fluoranthene	240.	J
129-00-0	Pyrene	190.	J
56-55-3	Benzo(a)anthracene	120.	J
218-01-9	Chrysene	110.	J
205-99-2	Benzo(b)fluoranthene	95.	J
207-08-9	Benzo(k)fluoranthene	77.	J
50-32-8	Benzo(a)pyrene	120.	J
193-39-5	Indeno(1,2,3-cd)pyrene	83.	J
53-70-3	Dibenzo(a,h)anthracene	380.	U
191-24-2	Benzo(g,h,i)perylene	78.	J

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CHAIN OF CUSTODY RECORD

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Client Name:	Address:	
Holt Consulting	620 Washington Ave Rensselaer NY	
Send Report To:	Project Name (Location)	Samplers: (Names)
Jeff Holt	Lot-6	Jeff Holt
Client Phone No:	Client Fax No:	PO Number:
432-9021	432-4589	Samplers: (Signature)

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type: Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	C10-A1	4/21/05	1:15 P	S		X	1	8270 STARS
002	C10-B	4/21/05	1:15 P	S		X	1	" "
003	C10-C	4/21/05	1:15 P	S		X	1	" "
~~004~~	~~L6 C10~~ *	~~4/21/05~~	~~2:55~~ P	~~S~~	~~X~~		~~2~~	~~PCBs/TPH-8015 DRO~~
(DA)								
~~005~~	~~PK-1~~ *	~~4/21/05~~	~~2:30~~ P	S	X		2	PCBs/TPH-8015 DRO
(DA)								
	* FOR ESMI PROFILE NOT GA/QC							

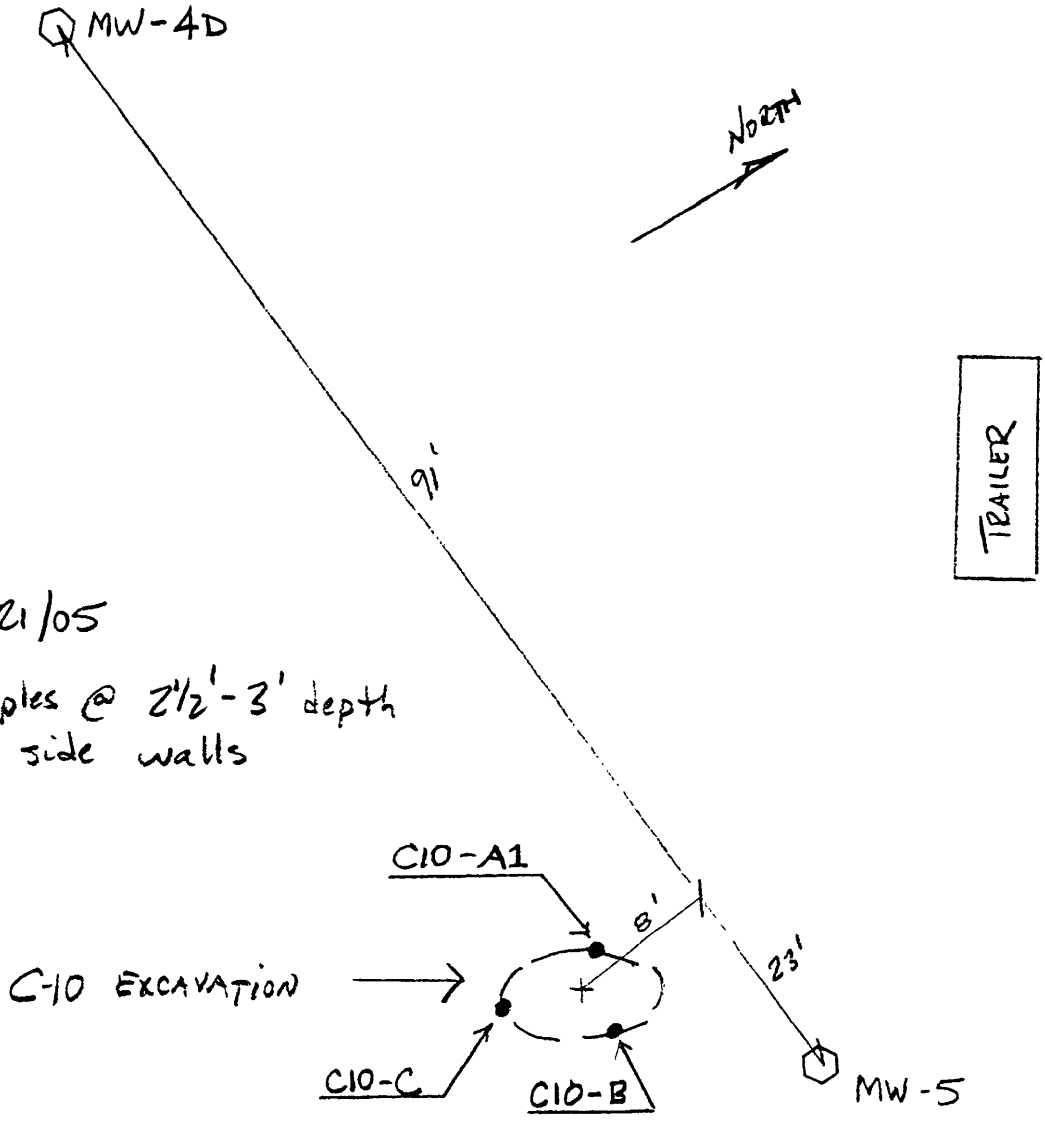
AES Work Order #:	CC Report To / Special Instructions/Remarks:
05042104 3	QA/QC - Cat. B. Deliverables } C-10 A,B,C
Turnaround Time Request: ☐ 1 Day ☒ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day	8270 STARS Parts - attached

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by:	Date/Time
	J. Eason	4-21-05 4:17pm

Temperature	Properly Preserved	Received Within Holding Times
Ambient or Chilled	Y N	Y N
Notes:	Notes:	Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

TEST PIT C-10
SOIL VERIFICATION SAMPLES



4/21/05

Samples @ 2½'-3' depth on side walls

PID SCREENING

A1	-	0.4	ppm
B	-	0.5	ppm
C	-	0.3	ppm