DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT

GRANITE POINTE SUBDIVISION
TOMAHAWK STREET
SOMERS, NY
TM 27.05, 3, LOTS 2 & 5
PROJECT AREA 28.8 ACRES

A SINGLE FAMILY REALTY DEVELOPMENT

August 2006

SEIS Acceptance Date:_____

SEIS Comment Deadline Date:_____

Supplemental Environmental Impact Statement
Proposed Granite Pointe Subdivision
Tomahawk Street (Route 202)
Somers, New York

TABLE OF CONTENTS for SEIS

I. *Introductory Material* 1
II. *Executive Summary* 3
III. *Historic Uses/Activities at Site* 5
- III.1 Shooting Range 5
- III.2 Cut/Fill Activity 6
- III.3 Building Demolition 6

IV. *Existing Conditions* 8
- IV.1 Shooting Range Related Impacts 8
  - IV.1.1 Work Plan for Risk Assessment 8
- IV.2 Evaluation of Site Soils 13
- IV.3 Evaluation of Groundwater/Surface Water 15

V. *Risk Assessment* 17
- V.1 Cut/Fill Activities 20

VI. *Mitigation/Remediation* 20

APPENDICES

Appendix A	Final Scope For Preparation of a Supplemental Environmental Impact Statement for the Granite Pointe Subdivision, Town of Somers, NY and Work Plan for Assessment and Remediation of Subsurface Impact at Proposed Granite Pointe Subdivision (Attachment 1)
Appendix B	Supplemental Environmental Site Assessment, Proposed Granite Pointe Subdivision
Appendix C	Draft Remedial Action Plan
Appendix D	NYCDEP Correspondence

I. *INTRODUCTORY MATERIAL*

Project Information

Lead Agency: Town of Somers Planning Board
c/o Ms. Fedora DeLucia, Chairman
335 Route 202
Somers, NY 10589
914-277-5366

Project Sponsor: Suelain Realty
c/o John Harkins, Sr.
P.O. Box 807
Katonah, NY 10536
914-232-5121

SEIS Preparers: Groundwater & Environmental Services, Inc.
25 Jon Barrett Road
Robin Hill Corporate Park
Patterson, NY 12563
845-878-8067
Contact: Eric Harvey, Senior Project Manager

SEIS Contributors: Environmental Assessment & Remedial Action, SEIS Author
Groundwater & Environmental Services, Inc.
25 Jon Barrett Road
Robin Hill Corporate Park
Patterson, NY 12563
845-878-8067
Contact: Eric Harvey, Senior Project Manager
Jodi Markowsky, Project Hydrogeologist
Michael DeGloria, Project Manager
Elizabeth Bowen, Project Manager

Civil Design & Planning
Bibbo Associates, LLP
Mill Pond Offices
293 Route 100, Suite 203
Somers, NY 10589
814-277-5805
Contact: Timothy S. Allen, P.E., Senior Partner

Involved /Interested Agencies:

Westchester County Department of Health
118 North Bedford Road
Mt. Kisco, NY 10549

Marian Pompa, P.E.
Westchester County Department of Health
145 Huguenot Street, 8th Floor
New Rochelle, NY 10801

New York City Department of Environmental Protection
465 Columbus Avenue
Valhalla, NY 10595

New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233

New York State Department of Environmental Conservation
21 South Putt Corners Road
New Paltz, NY 12561

Town of Carmel
Town Clerk
60 McAlpin Avenue
Mahopac, NY 10541

Town of Yorktown
Town Clerk
363 Underhill Avenue
Yorktown Heights, NY 10598

Westchester County Planning Board
432 Michaelian Office Building
White Plains, NY 10601

Town of Somers
Town Board
335 Route 202
Somers, NY 10589

Town of Somers
Conservation Board
335 Route 202
Somers, NY 10589

II. EXECUTIVE SUMMARY

Suelain Realty retained Groundwater & Environmental Services, Inc. (GES) of Patterson, New York to investigate and document the environmental conditions of the proposed Granite Pointe Subdivision ("subject property"). The subject property is a 28-acre parcel of undeveloped, mostly wooded land located on Tomahawk Street in Somers, New York. Environmental concerns for the site stemmed from a former retail gasoline service station operating adjacent to the subject property to the west across Tomahawk Road and past use of the subject property as a part-time recreational trap and target shooting range.

During December 2003 through February 2004, GES completed subsurface investigations of the subject property that included drilling soil borings and the collection of soil and groundwater samples. The subsurface investigation work was summarized in the GES documents entitled *Environmental Site Assessment Report* dated December 19, 2003 and the *Supplemental Environmental Site Assessment Report* dated March 5, 2004.

Based on initial investigation results, the Town of Somers Planning Board rescinded final approval of the Granite Pointe Subdivision and required submission of a Supplemental Environmental Impact Statement (SEIS). The Town of Somers prepared a document entitled, "Final Scope for Preparation of a Supplemental Environmental Impact Statement for the Granite Pointe Subdivision, Town of Somers, New York, dated October 15, 2004" (**Appendix A**).

Involved and interested agencies are the Westchester County Department of Health (Marian Pompa, P.E.), the New York City Department of Environmental Protection, the New York State Department of Environmental Conservation (NYSDEC), the Town of Carmel, the Town of Yorktown, the Westchester County Planning Board, and the Town of Somers.

In order to gather the proper information for the SEIS, additional soil sampling was conducted on the subject property by GES during December 2004 through February 2005. Soil samples were collected from 0.5 to a maximum of 4 feet below grade and were collected in a grid framework area within the anticipated shot-fall area of the former recreational trap and target shooting range. Soil samples were selectively analyzed for total lead, Toxicity Characteristic Leaching Procedure (TCLP) metals (lead, arsenic, and barium), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and Resource Conservation and Recovery Act (RCRA) metals. Subsurface investigation activities are summarized in the GES document, entitled *Supplemental Environmental Site Assessment, Proposed Granite Pointe Subdivision, May 2005*, **Appendix B**.

Results of the three subsurface investigations identified lead and SVOCs as contaminants of concern for the subject property. In portions of the subject property, lead was detected in soil samples collected at concentrations above the United States Environmental Protection Agency (USEPA) action level for lead in a residential setting which is 400 milligrams per kilogram (mg/kg). In other portions of the subject property, TCLP lead was detected in soil samples collected at concentrations above the TCLP lead threshold of 5 mg/L. In some soil samples collected, SVOCs were detected at concentrations above the NYSDEC Technical Administrative Guidance Memorandum (TAGM) Recommended Soil Cleanup Objectives (RSCO).

In order to facilitate development of the subject property, GES evaluated the risks associated with the contaminants and various remedial alternatives. The preferred remedial action is to excavate and remove impacted soils above applicable regulatory guidelines. The proposed draft Remedial Action Plan (RAP) is included in **Appendix C**.

In accordance with the State Environmental Quality Review (SEQR) Act, remedial activities proposed in the RAP are related to the subject property past use as a part-time recreational trap and target shooting range. Following a risk-based evaluation of the soil impacts in portions of the subject property and based on the anticipated future use for the subject property, GES proposes remedial activities consisting of soil excavation, with the goal of removing the identified shallow soil impacts (0 to 4 fbg) that are above applicable guidance values. Additionally, possible reuse of some of the lead impacted soils (above 400 mg/kg but below the TCLP lead threshold of 5 mg/L) will be considered and NYSDEC approvals will be required. Reuse of the soils would be located in inaccessible areas under the proposed road for the new development.

Regulatory approval from the NYSDEC Division of Environmental Remediation under the Brownfields Cleanup Program (BCP) will be obtained prior to the initiation of any remedial activities. Remedial activities are anticipated to take up to approximately three to six months to complete with the anticipated year of completion in 2007.

The following list summarizes permits obtained or to be obtained for the proposed Granite Pointe Subdivision:

Permit and/or type of approval	Responsible Agency
Wetlands Permit	Town of Somers Planning Board
Steep Slopes Permit	Town of Somers Planning Board
Tree Removal Permit	Town of Somers Planning Board
Final Subdivision Approval	Town of Somers Planning Board
Realty Subdivision Approval	Westchester County Dept. of Health
Water Extension Permit	Westchester County Dept. of Health
Highway Work Permit (Residential)	New York State Dept. of Transportation
Brownfields Cleanup Program Approval	New York State Dept. of Environmental Conservation
SPDES Permit (Phase II – Stormwater GP#02-01)	New York State Dept. of Environmental Conservation
Stormwater Pollution Prevention Plan	New York City Dept. of Environmental Protection

III. HISTORIC USES/ACTIVITIES AT SITE

III.1 SHOOTING RANGE

- Document period and level (e.g., frequency, number of sportsmen) of use of the site as a shooting range in order to assess relative magnitude of contaminates that may have been discharged over the site.
  - According to several eye-witnesses who worked at the restaurant and/or participated in recreational activities at the site, trap shooting and target shooting was conducted on portions of the subject property between approximately 1938 and 1968. Shooting activities were not open to the public and only took place on weekends in the spring, summer, and fall. One of the eye-witness accounts stated that the Boy Scouts utilized the shooting range one time for turkey shooting. The amount of sportsmen that utilized the subject property for trap or target shooting is unknown.

- Document type of shooting activity (trap, skeet, shot type, etc.)
  - According to several eye-witnesses who worked at the restaurant and/or participated in recreational activities at the site, trap shooting, and target shooting was conducted on portions of the subject property.

- Document range layout (firing line, target launch position, and direction/trajectory)
  - The trap and target shooting operation was oriented so the shooting reportedly took place in a northeasterly direction, toward the Amawalk Reservoir. According to several eye-witnesses who worked at the restaurant and/or participated in recreational activities at the site, the range consisted of a shooters stand and a trap house with several associated storage buildings and a restaurant.

- Based on historic operating characteristics, project fan of shotfall zone and clay target fragment fall zone.
  - The trap and target shooting operation was oriented so the shooting reportedly took place in a northeasterly direction, toward the Amawalk Reservoir. The anticipated shot-fall zone is illustrated on **Figure 2** of the SESA (**Appendix B**). Additional information was provide during interviews with persons associated with the former shooting activities at this site and guidance documents related to assessment at closed small arms firing ranges. The distance from the firing line to the property boundary is approximately 475 feet. According to the *Characterization of Remediation of Soils at Closed Arms Firing Ranges* prepared by the Interstate Technology and Regulatory Council (ITRC), the shot-fall the size of the shot-fall area would be no more than 770 feet from the shooting position, with the majority of the lead being deposited at a distance between 375 and 600 feet from the shooter. The location of the shooter's stand and trap house is illustrated on a map provided in the SESA (**Appendix B, Sub Appendix A** – Eye Witness Accounts).

- Project likely shotfall distance from firing line to property line and beyond onto adjacent New York City Department of Environmental Protection (NYCDEP) property.
    - The distance from the firing line to the property boundary is approximately 475 feet. According to the report entitled, *Characterization of Remediation of Soils at Closed Arms Firing Ranges* prepared by the ITRC, the size of the shotfall area would be no more than 770 feet from the shooting position, with the majority of the lead being deposited at a distance between 375 and 600 feet from the shooter. It is unknown whether the anticipated shotfall area extends on the NYCDEP property due to our investigations being limited to the subject property. However, the approximate distance from the firing line to the shoreline of the Amawalk reservoir on the NYCDEP's property is approximately 675 feet.

III.2 CUT/FILL ACTIVITY

- Document when cut/fill activities took place onsite.
    - According to interviews with the current property owner, the native soil horizon along the western margin was removed as part of the cut and fill activities completed in the 1970's. The exact date for cutting and filling activities remains unknown.

- Document whether cutting of soils occurred within the shotfall zone, if possible.
    - Soil borings GP-1 through GP-4, which are illustrated in the SESA (**Appendix B, Figure 3**), are located within the anticipated shotfall area. Fill material was observed in all four borings indicating that cutting of native soils did take place in the anticipated shotfall zone. Refer to boring logs in the SESA (**Appendix B, Sub Appendix B** – Soil Boring Logs).

- Document depth of fill material across the fill area and depth to native soil horizon.
    - The depth of the fill material varied across this area and ranged from 17 fbg in the northeast corner (GP-8) and thinned toward the southwest. Fill material was not observed in soil boring locations GP-6, GP-7, and GP-10.

- Determine likely sources of fill material.
    - The source of the fill material is unknown.

III.3 BUILDING DEMOLITION

- Document location of former buildings onsite.
    - The abandoned remains of several residential and commercial buildings are located on the currently undeveloped parcel. These buildings reportedly included a restaurant, which no longer exists but was located in the central portion of the site, several dwellings, and some storage buildings. The approximate locations of abandoned remains of the structures formerly located on the property are illustrated in the SESA (**Appendix B, Figure 1**).

- Document when buildings were demolished and disposal of any materials.
    - The abandoned remains of the buildings are currently on the subject property. The property owner obtained building demolition permits from the Town of Somers. Each building structure was demolished into each foundation base with the exception of a one room dwelling on the southwestern portion of the site (proposed Lot 19). Upon commencement of site development, the building debris inside each building foundation base will be removed and disposed of properly off-site. The one room dwelling on the southwestern portion of the site (proposed Lot 19) will also be demolished and the building debris will be removed and disposed of properly off-site.

- Document existence, removal, and cleanup of petroleum storage tanks (e.g., heating fuel oil).
    - It is unknown if there were any petroleum storage tanks associated with the former buildings on the subject property. The Town of Somers Tax Assessor records reveal that the former restaurant building utilized oil/steam heat, the former cottage building on Lot 16 utilized oil/hot water heat and the former building on Lot 19 did not have any heat. There were no visual observations made that would indicate the existence of any petroleum storage tanks; however, a visual inspection of the inside of the dilapidated buildings could not be conducted due to health and safety concerns.

      Upon removal of the building debris from inside the foundation bases of the former restaurant building and the former cottage building on Lot 16, a visual and subsurface investigation will be conducted to determine if any underground or aboveground storage tanks still exist at these locations. A visual inspection can be conducted to determine if any tank remain inside the foundation bases. If any tanks remain in the foundation bases they can be cut, cleaned, and properly removed off-site for disposal. A combination of both ground penetrating radar (GPR) and excavation equipment (i.e. – backhoe) may be used to conduct a subsurface investigation surrounding exterior of the foundation bases. If any storage tanks are identified in the subsurface surrounding the former buildings they will be removed in the following procedure:

      i. Obtain any local building department permit for tank removal
      ii. Excavate and remove the storage tank
      iii. Purge cut and clean UST
      iv. Remove storage tank from site and dispose properly.
      v. Collect soil samples from the excavation. Soil samples will be collected from the four walls and bottom of the excavation.
      vi. Soil samples will be analyzed for volatile organic compounds (VOCs) via EPA Method 8260 (NY STARs compounds only) and for semi-volatile organic compounds (SVOCs) via EPA Method 8270 (NY STARs compounds only).

IV. *EXISTING CONDITIONS*

IV.1 SHOOTING RANGE RELATED SITE IMPACTS

IV.1.1 Work Plan for Risk Assessment

- Prepare detailed Work Plan for human health and ecological risk assessments for review by Town of Somers Planning Board, Engineer, their consultants, and other regulatory agencies (Attachment 1 to this Scope).
    - As noted in the bullet text, this Work Plan was submitted by GES and approved by the Town of Somers. Refer to the Work Plan document (**Appendix A**).

- Develop Conceptual Site Model to describe contaminant sources, exposure pathways, and human receptors of concern including construction workers and residents (adults and children).
    - A portion of the subject property was utilized as a recreational trap and target shooting range from approximately 1938 to 1968. According to eyewitness accounts, shooting operations were oriented in a northeasterly direction, toward the Amawalk Reservoir. The anticipated shot-fall area received lead pellets and broken clay pigeons during shooting activities. Over time, the lead pellets degraded and released lead into the soil within this area. The horizontal and vertical extent of lead-impacted soil has been defined through numerous soil sampling events. Most of the lead impact in the soil appears to exist from 0 to 1.5 fbg with only an isolated area near the wall of Lot 12 above the USEPA residential soil guidance value for lead from 1.5 to 3 fbg. The USEPA guidance value for lead in residential soils is 400 mg/kg. Based on TCLP analysis, lead does not appear to be leaching through the soil greater than a maximum of 4 fbg. Soils impacted by lead are illustrated in the SESA (**Appendix B, Figures 5, 6, 9-16**).

      SVOCs above NYSDEC guidance values were also detected within Lots 12 and 13 but did not correspond completely with the areas of lead-impacts. Soils impacted by SVOCs are illustrated in the SESA (**Appendix B, Figures 7 and 8**). The source of these SVOCs could be attributed to historical dumping in the cut and fill area and the subsequent runoff during storm events.

      A hand-dug well in the rear portion (southeast corner of Lot #13 - near back wall) of the subject property indicates that depth to groundwater in this portion of the property is approximately 10 fbg. According to the Final Scope and Work Plan Documents (refer to **Appendix A**), monitoring wells were proposed to be installed in order to evaluate groundwater impacts on the subject property. However, a groundwater investigation was not necessary based on the results of the soil data collected during field activities conducted on the subject property from December 2004 through February 2005. As stated in the approved Work Plan, installation of monitoring wells/sampling points in the surficial overburden aquifer were only necessary if the soil investigation revealed that mobilization and transport of impacts are indicated by depth distribution of contaminants concern in soil. Soil impacts were detected from 0 to 4 feet below grade (the majority within 2 feet below grade).

Detectable soil impacts, which have existed for approximately 40 years, have been limited to at least 6 feet above the water table. Based on these current conditions, it is in the opinion of the applicant that the impacts have not leached and migrated to the overburden aquifer.

Environmental assessment activities conducted on the subject property has identified the presence of lead and SVOCs above applicable guidance values. Under current environmental conditions on the subject property, the exposure pathways for adults, including construction workers, and children would be incidental ingestion of contaminated soil, inhalation of dust/soil particles, and dermal contact. Currently, the subject property is considered to be private land and human contact would be limited to the owners of the subject property and their guests. Trespassers; however, who illegally enter the subject property would also be potentially exposed to impact soil through incidental ingestion and inhalation. The Conceptual Site Model is also summarized in the Remedial Action Plan (RAP), **(Appendix C, Section 1.5)**.

- Develop Conceptual Site Model to describe contaminant sources, exposure pathways, and ecological receptors representative of ecological food chain/community utilizing the site (e.g., birds and other water fowl, invertebrates feeding on vegetation and foraging on the ground surface, burrowing invertebrates).
    - A portion of the subject property was utilized as a recreational trap and target shooting range from approximately 1938 to 1968. According to eyewitness accounts, shooting operations were oriented in a northeasterly direction, toward the Amawalk Reservoir. The anticipated shot-fall area received lead pellets and broken clay pigeons during shooting activities. Over time, the lead pellets degraded and released lead into the soil within this area. The horizontal and vertical extent of lead-impacted soil has been defined through numerous soil sampling events. Most of the lead impact in the soil appears to exist from 0 to 1.5 fbg with only an isolated area near the wall of Lot 12 above the USEPA residential soil guidance value for lead from 1.5 to 3 fbg. The USEPA guidance value for lead in residential soils is 400 mg/kg. Based on TCLP analysis, lead does not appear to be leaching through the soil greater than a maximum of 4 fbg. Soils impacted by lead are illustrated in the SESA **(Appendix B, Figures 5, 6, 9-16)**.

      SVOCs above NYSDEC guidance values were also detected within Lots 12 and 13 but did not correspond completely with the areas of lead-impacts. Soils impacted by SVOCs are illustrated in the SESA **(Appendix B, Figures 7 and 8)**. The source of these SVOCs could be attributed to historical dumping in the cut and fill area and the subsequent runoff during storm events.

      A hand-dug well in the rear portion (southeast corner of Lot #13 - near back wall) of the subject property indicates that depth to groundwater in this portion of the property is approximately 10 fbg. According to the Final Scope and Work Plan Documents (refer to **Appendix A**), monitoring wells were proposed to be installed in order to evaluate groundwater impacts on the subject property. However, a groundwater investigation was not necessary based on the results of the soil data collected during field activities conducted on the subject property from December 2004 through February 2005. As

stated in the approved Work Plan, installation of monitoring wells/sampling points in the surficial overburden aquifer were only necessary if the soil investigation revealed that mobilization and transport of impacts are indicated by depth distribution of contaminants concern in soil. Soil impacts were detected from 0 to 4 feet below grade (the majority within 2 feet below grade). Detectable soil impacts, which have existed for approximately 40 years, have been limited to at least 6 feet above the water table. Based on these current conditions, it is in the opinion of the applicant that the impacts have not leached and migrated to the overburden aquifer.

Environmental assessment activities conducted on the subject property has identified the presence of lead and SVOCs above applicable guidance values. Ecological receptors of concern include invertebrates, mammals, and birds, particularly waterfowl. Under current environmental conditions on the subject property, the exposure pathways for the ecological receptors include incidental ingestion of soil, intentional ingestion of lead fragments as grit, and ingestion of impacted food. The Conceptual Site Model is also summarized in the Remedial Action Plan (RAP), **(Appendix C, Section 1.5)**.

- Identify contaminants of preliminary concern, including metals and polycyclic aromatic hydrocarbon (PAH) compounds potentially associated with trap/skeet shooting ranges.
    - According to the USEPA document, *TRW Recommendations for Performing Human Health Risk Analysis on Small Arms Shooting Ranges* dated March 2003, lead shot contains primarily lead and possibly some trace amounts of antimony, arsenic, copper, tin, zinc, and nickel. The document also states that polycyclic aromatic hydrocarbons (PAHs) can be found in the petroleum 'pitch' from clay targets used at skeet and trap ranges as well as in the 'wadding' from shotgun shells.

- Plot available contaminant data on site map to evaluate data gaps.
    - Soils impacts are illustrated in the SESA (**Appendix B, Figures 5-16**).

- Identify sampling areas for collection and analysis of soil and groundwater (as necessary) to establish background concentrations of potential contaminants of concern related to shooting range impacts.
    - Proposed sampling areas to establish background concentrations are discussed in the approved Work Plan document (**Appendix A, *Attachment 1, Page 4***). Actual sampling locations for collection and analysis of soil and groundwater (as necessary) to establish background concentrations of potential contaminants of concern related to shooting range impacts are illustrated in the SESA (**Appendix B, Figure 4**).

- Develop field soil screening survey protocol to define full extent of soil contamination related to the shooting range; screening should encompass area in southwest portion of site that demonstrated elevated lead levels in previous soil sampling.
    - Proposed field soil screening survey protocols are discussed in the approved Work Plan document (**Appendix A, *Attachment 1, Page 4***). Actual field soil screening conducted in order to define the full extent of the soil impacts on the subject property is discussed as follows:

A total of six fixed points were established and surveyed on the site on December 8, 2004 and are illustrated in the SESA (**Appendix B, Figure 4**). The survey was completed by Donnelly Land Surveyors located in Yorktown Heights, New York. The purpose of establishing the fixed points was to aid in accurately locating the soil borings associated with the cut and fill area as well as the lead sampling grid identified below as "Area-1".

On December 13, 2004, GES personnel were on site to establish a sampling grid in the expected shot fall area (Area-1). Flags were placed at fifteen-foot intervals and were identified using a letter and number sequence (A-1, A-2, B-1, B-2, etc.). The grid extended from slightly north of the access road to the northern property boundary and from the wall (Row "A"), which demarks the eastern property boundary, west towards the cut and fill area (Row "O"). A total of 566 sample points were identified using flags.

On December 15, 2004, GES personnel were on site to establish a sample grid (Area-2) in the vicinity of the vacant one-story masonry building located on proposed lot number 19. This area was scheduled for further investigation at the request of the Town of Somers Engineer Guy Gagne because of concern that analysis of soil samples collected from this location appeared to yield anomalously high lead concentrations. Flags were placed at 15-foot intervals and were identified using a letter and number sequence (A-1, A-2, B-1, B-2, etc.). The grid extended approximately west and south of the building to include the areas where potential lead impact was identified during previous investigations. A total of 27 sample points were identified using flags.

- Describe field sampling protocols and proposed sampling locations for soil and groundwater.
  - Proposed soil sampling techniques are discussed in the Work Plan document (**Appendix A, *Attachment 1, Page 5***). Actual soil sampling techniques employed during field work included using steel bulb planters or hand augers as collection equipment as well as using the following decontamination process:

    - a non-phosphorous soap wash;
    - a tap water rinse;
    - de-ionized water rinse;
    - 10% nitric acid rinse;
    - de-ionized water rinse; and
    - air dry.

    Each soil sample was transferred into the appropriate laboratory supplied container, stored on ice in a cooler and shipped to an certified New York State Laboratory

  - Proposed soil sampling locations are described in the Work Plan document (**Appendix A, *Attachment 1, Pages 3 and 4***). Actual soil sampling locations are illustrated in the SESA (**Appendix B, Figures 3** through **11**).

- Proposed monitoring well locations are described in the Work Plan document (RAP – **Appendix A**, ***Attachment 1, Page 5***). Based on field screening results, soil analytical data, and depth to groundwater, lead and SVOCs are isolated to shallow site soils and are not likely to migrate to the overburden aquifer. Monitoring well installation was therefore not necessary.

- Identify parameters to be measured and laboratory methods for soil and groundwater.
  - Select soil samples were to be analyzed for total metals, including lead, via Environmental Protection Agency (EPA) Method 200.7, toxicity characteristic leaching potential (TCLP) metals via EPA Method 1311, and semi-volatile organic compounds (SVOCs) via EPA Method 8270. Refer to the Work Plan document (**Appendix A**, ***Attachment 1, Pages 4 and 5***) for a discussion of proposed parameters and laboratory methods.
  - Groundwater samples, if collected, were to be analyzed for lead, other metals of concern via EPA Method 200.7, and/or PAHs via EPA Method 8270. Collection of groundwater samples was to be dependant on which of these compounds was identified at elevated concentrations during the soil sampling portion of the investigation. Refer to the Work Plan document (**Appendix A**, ***Attachment 1, Page 6***).

- Describe Quality Control/Quality Assurance Program for field and laboratory operations.
  - Standard industry quality control/quality assurance (QA/QC) field measures were conducted as part of soil sampling activities, including decontamination of field equipment and use of laboratory-provided glassware. Refer to the Work Plan document (**Appendix A**, ***Attachment 1, Page 5***). Decontamination procedures employed during field activities are described as follows:

    - a non-phosphorous soap wash;
    - a tap water rinse;
    - de-ionized water rinse;
    - 10% nitric acid rinse;
    - de-ionized water rinse; and
    - air dry.

  - Spectrum Analytical Laboratory (Spectrum) of Agawam, Massachusetts was chosen to analyze soil samples collected. Spectrum is a New York State certified laboratory (New York Certification #11393/11840) and QA/QC data for each sample data set is included with each laboratory report (refer to SESA [**Appendix B, Sub Appendix C** – December 2004 Laboratory Reports, **Sub Appendix D** – January 2005 Laboratory Reports, and **Sub Appendix E** – February 2005 Laboratory Reports]).

- Assure that laboratory detection limits are adequate for risk assessment based on existing residential cleanup and human health standards.
  - Laboratory method detection limits used in the investigation are below the applicable guidance values for the contaminants of concern.

IV.2 Evaluation of Site Soils

- Conduct field soil screening (e.g., x-ray fluorescence technology) as basis for preliminary delineation of potential impact area from shooting range.
  - On December 14, 15, 16, 21 and 23, 2004 GES personnel were on site collecting shallow soil samples from the Area-1 Grid. Soil samples were collected by hand and transferred into labeled Ziplock ® bags. To limit possible lead exposure and cross-contamination while handling the soil, Nitrile gloves, changed between sample locations, were worn at all times. The original scope of work called for field screening of soil samples using the XRF, however, the cold weather affected the battery of the XRF machine and all parties including GES, Suelain Realty, and the Town of Somers Consultant Paul Muessig of EA Science and Technology (EA), agreed the soil screening could be completed in the GES office located in Patterson, New York.

    In order to confirm and validate the XRF screening results, select soil samples were transferred into the appropriate laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum for analysis of total metals, including lead, using EPA Method 200.7, TCLP by 1311 and select samples via SVOCs by 8270. Soil samples were collected primarily in the center of the established grid, where the highest screening results were located, and along the northern and southern margins of the grid.

    On December 29, 2004, GES personnel returned to the site and collected 21 additional soil samples from 1.5 fbg in the Area-1 Grid. Soil sample locations were selected using the XRF screening results and laboratory analysis of the shallow samples as a guide. Soil samples were collected by removing the top 1.5 feet of soil using a spade shovel, then collecting samples from 1.5 fbg using a steel bulb planter. The equipment used for the sampling was decontaminated prior to each use as previously described in the *Background Soil Sample* section of this report. Soil samples were transferred into the appropriate laboratory supplied container and stored in a cooler. The samples were first screened in the GES office using the XRF machine and then stored in a cooler on ice and shipped to Spectrum for analysis of select metals, using EPA Method 200.7, TCLP by EPA Method 1311 and select samples were also analyzed for SVOCs by EPA Method 8270.

    On December 30, 2004, GES personnel selected six soil samples in which lead shot pellets had been identified for sifting purposes. The samples include A-14, A-16, A-26, A-29, A-39 and B-34. Each sample was allowed to dry in order to aid in the sifting process. A 30-mesh sieve was utilized to separate the pellets from the soil. Once each sample was sifted, GES personnel used the XRF to screen each sifted and non-sifted sample for total lead. The sifted and non-sifted samples were transferred into the appropriate laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum for analysis of total lead concentration by EPA Method 200.7.

    The laboratory analysis of the background soil samples indicated lead concentrations were consistent with the NYSDEC average for suburban areas with the exception of one sample. This sample, BG-6, located in the southeastern portion of the property contained a total lead concentration of

609 mg/kg.

In order to validate the concentration of lead reported in soil sample BG-6, six additional samples were collected in the vicinity of BG-6 and screened using the XRF machine. The average result of the screening was 102 mg/kg and one representative soil sample was submitted to Spectrum for total lead analysis. The laboratory analysis indicated a total lead concentration of 25.7 mg/kg. Averaging the combination of the laboratory results from the December 2003 investigation (B-1 through B-12, 16.5 mg/kg) in addition to the XRF and laboratory results from the December 2004 investigation (70 mg/kg and 138.16 mg/kg), yields a site specific background of 70.47 mg/kg. A summary of the background concentration screening and laboratory results are provided in SESA (**Appendix B, Table 3** and **Figure 4**).

- Based on review of screening data, collect soil samples for laboratory analyses for use in defining soil impacted area and background area as described in approved final Work Plan.
    - In order to confirm and validate the XRF screening results, select soil samples were transferred into the appropriate laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum for analysis of total metals, including lead, using EPA Method 200.7, TCLP by 1311 and select samples via SVOCs by 8270. Soil samples were collected primarily in the center of the established grid, where the highest screening results were located, and along the northern and southern margins of the grid. Soil sampling locations are illustrated in the SESA (**Appendix B, Figures 3** through **11**).

- Coordinate with NYCDEP for similar soil screening survey on New York City property down range.
    - A soil screening survey has not been conducted on the NYCDEP land located between the subject property boundary (stone wall) and the Amawalk Reservoir. Field assessment data collected as part of the SESA was forwarded to the NYCDEP along with the RAP on November 28, 2005. The NYCDEP did respond in writing with a letter dated June 27, 2006 commenting on the SEIS for the subject site. The NYCDEP stated that they are currently developing a work plan for sampling on the adjacent City-owned property. A copy of the June 27, 2006 letter is attached as **Appendix D**.

- Send selected soil samples to fill data gaps for analysis by certified laboratory.
    - Based on review of soil screening data and soil laboratory analytical results from the multiple sampling activities, it is in the opinion of the applicant that the site has been adequately assessed for soil impacts. In the opinion of the applicant, no data gaps were identified.

- Plot soil contaminant data on site map by depth profile.
    - Soil contaminant data is illustrated on maps by depth profile located in the SESA (**Appendix B, Figures 5** through 16).

- Evaluate soil contaminant analytical data and determine final list of contaminants of concern for risk assessment and remedial alternatives assessment.

- After evaluating soil data collected, lead and several SVOCs are the contaminants of concern for the subject property.

Compare contaminant data to site background values to aid in assessing the extent of range related impacts on soil.

- The site-specific background level for lead was calculated to be 70.47 mg/kg. Some soil screening and analytical data in Area-1 and Area-2 of the subject property exceeded the site specific background level for lead. Refer to SESA (**Appendix B, Tables 4, 6, and 8**). The USEPA acceptable screening level for lead in soil for residential land use is 400 mg/kg. The USEPA guidance value of 400 mg/kg was used to aid in assessing the extent of range-related lead impacts to soil on the subject property.
- Soil data analyzed for SVOCs was compared to the guidance values listed in the NYSDEC Recommended Soil Cleanup Objective (RSCO) Technical Administrative Guidance Memorandum (TAGM) 4046 for the specific analytes detected above laboratory method detection limits.

IV.3 Evaluation of Groundwater/Surface Water

- If mobilization and transport are indicated by depth distribution of contaminants concern in soil, install monitoring wells/sampling points in the surficial overburden aquifer as presented in the Work Plan.
  - As stated in the approved Work Plan, installation of monitoring wells/sampling points in the surficial overburden aquifer were only necessary if the soil investigation revealed that mobilization and transport of impacts are indicated by depth distribution of contaminants concern in soil. Soil impacts were detected from 0 to 4 feet below grade (the majority within 2 feet below grade). Detectable soil impacts, which have existed for approximately 40 years, have been limited to at least 6 feet above the water table. Based on these current conditions, it is in the opinion of the applicant that the impacts have not leached and migrated to the overburden aquifer, therefore no monitoring wells/sampling points were installed in the surficial overburden aquifer.

- Coordinate for access and installation of sampling points on down gradient NYCDEP property.
  - Based on field screening results, soil analytical data, and depth to groundwater on the subject property, lead and SVOCs are isolated to shallow site soils and are not likely to migrate to the overburden aquifer. Since installation of overburden monitoring wells was not necessary on the subject property, it is therefore not necessary on the NYCDEP property. The NYCDEP, however, did respond in writing with a letter dated June 27, 2006 commenting on the SEIS for the subject site. The NYCDEP stated that they are currently developing a work plan for sampling on the adjacent City-owned property. A copy of the June 27, 2006 letter is attached as **Appendix D.**

- Perform groundwater surface elevation survey to document groundwater flow direction, rate and conductivity.

- Groundwater monitoring wells were not installed at the subject property. Groundwater elevations were not obtained and the groundwater flow, rate, and conductivity; therefore, could not be calculated.

- Conduct sampling and analysis of groundwater (shallow overburden and/or deep bedrock) for contaminants of concern.
  - The installation of overburden monitoring wells was not necessary; therefore, groundwater samples were not collected.

- Plot shallow groundwater contaminant data to site map.
  - The installation of overburden monitoring wells was not necessary; therefore, groundwater samples were not collected.

Compare contaminant data to site background values to aid in addressing range related impacts to groundwater.
  - The installation of overburden monitoring wells was not necessary; therefore, groundwater samples were not collected.

- If shallow groundwater contamination is documented from the overburden aquifer sampling program, install bedrock wells within and downgradient of the impact area.
  - The installation of overburden and bedrock monitoring wells was not necessary.

- Sample and analyze bedrock well water for all selected contaminants of concern.
  - The installation of overburden and bedrock monitoring wells was not necessary.

- Evaluate surface topography and hydrology to identify any areas of channelized flow (permanent or intermittent) within or exiting the site that have the potential to transport contaminants during remediation, construction, or subsequent residential occupation; map any identified channels on the site map.
  - The United States Geological Survey (USGS) 7.5 minute Croton Falls, NY Topographic Map was reviewed. Hydrogeologic data was not available since monitoring wells were not installed on the subject property. Based on the topographic map, the maximum elevation on the subject property in the area of soil impact is approximately 445 feet above mean sea level (highest elevation in the center of the subject property). The Amawalk Reservoir is at an elevation of approximately 400 feet above mean sea level. Based on the semi-circular topographic contours on the subject property, surface water most likely flows gently out radially towards the reservoir. No areas of channelized flow (permanent or intermittent) within or exiting the site were identified in the areas of soil impact. The existence of heavy vegetation and undergrowth has most likely prevented any permanent of intermittent channelized surficial flows. These current site conditions do not reveal a risk of surface run-off transporting contaminants. This can also be shown by the existing soil impacts remaining within the anticipated shot fall area.

    During remediation there is a low risk of surface run-off transporting contaminants in either a lead particulate or lead enriched soil form. During remediation, a soil erosion and sediment control plan will be established to

reduce and/or eliminate the risk of surface water run-off transporting contaminant in either a lead particulate or lead enriched soil form. This soil erosion and sediment control plan will be submitted to the Board and all applicable agencies, including the NYCDEP, for review prior to any remedial activities.

The site does not promote conditions where soluble lead (i.e. – surface water run-off) will be a risk during remediation. When slugs and/or pellets are exposed to the atmosphere and/or precipitation over significant time, elemental lead will tend to oxidize (corrode). This oxidation process then produces primarily lead hydroxide and lead carbonate, which are nearly insoluble. Lead compounds show the very low solubility in conditions where pH is less than 4.0. While natural precipitation has an average pH around 5.6, the average rainfall in New York State ranges from 4.0 to 4.5, (New York State Department of Environmental Conservation Web site: http://www.dec.state.ny.us/website/dar/ood/acidrain.html. Accessed July 12, 2006).

V. *RISK ASSESSMENT*

- Modify the Conceptual Site Model based on review of the results of the field and laboratory survey and analyses.
  - There was no need to revise the Conceptual Site Model (**IV.1.1 Work Plan for Risk Assessment, *bullet 2***) since it was generated based on information obtained from all field and laboratory data.

- Using available soil and groundwater data, conduct human health and ecological risk assessments; examine relevant exposure pathways for shooting range-related contaminants identified in site soils and water based on Conceptual Site Model.
  - Environmental assessment activities conducted on the subject property has identified the presence of lead and SVOCs above applicable guidance values. Under current environmental conditions on the subject property (property is unoccupied); the main exposure pathways for adults and children would be incidental ingestion of contaminated soil, inhalation of dust/soil particles, and dermal contact. Currently, the subject property is considered to be private land and human contact would be limited to the owners of the subject property and their guests. Trespassers; however, who illegally enter the subject property would also be potentially exposed to impact soil through incidental ingestion, inhalation and dermal contact.

    Environmental assessment activities conducted on the subject property has identified the presence of lead and SVOCs above applicable guidance values. Ecological receptors of concern include invertebrates, fish in nearby reservoir, mammals, and birds, particularly waterfowl. Pathways for the ecological receptors include incidental ingestion of soil, intentional ingestion of lead fragments as grit, and ingestion of impacted food.

- Evaluate risk to construction workers during site preparation, excavation, and utility installation.
  - If construction activities were to take place on the subject property with the existing conditions, site workers would be exposed to soil with lead and SVOC concentrations above applicable guidance levels. The construction

workers would be exposed to lead and SVOCs via incidental ingestion of contaminated soil, inhalation of dust/soil particles, and dermal contact. The construction workers would have to use appropriate protective equipment and engineering controls to minimize the risks.

- Evaluate risk to adult and child residents at the site, including potential exposure to offsite contamination on the property of NYCDEP adjacent to Amawalk Reservoir.
    - Based on existing conditions on the subject property, there would be a risk for lead and SVOC exposure to adult and child residents. However, the subject property is currently abandoned and the only people that currently access the subject property are the owners and their guests. If, however, the subject property is developed as a residential subdivision and the identified lead and SVOC impacts will be removed and there would be no exposure. The main exposure pathways for adults and children would be incidental ingestion of contaminated soil, inhalation of dust/soil particles, and dermal contact. Additionally, the lead impacts are stabilized in the soil so the airborne risks for children and adults potentially on the subject property would be minimal.

      Based on the anticipated shotfall zone of 770 feet from the shooters position, it is likely that there is lead impact to the soil located on the NYCDEP property located between the subject property and the Amawalk Reservoir. It is therefore likely that children and adults would be at risk for lead exposure if they encountered lead-impacted soil on the adjoining NYCDEP property. Additionally, any potential lead impacts would be stabilized in the soil so the airborne risks for children and adults potentially on the NYCDEP property would be minimal. Samples have not been collected on the adjoining NYCDEP property. The NYCDEP, however, did respond in writing with a letter dated June 27, 2006 commenting on the SEIS for the subject site. The NYCDEP stated that they are currently developing a work plan for sampling on the adjacent City-owned property. A copy of the June 27, 2006 letter is attached as **Appendix D**.

- If appropriate, evaluate offsite risk from transport of contaminants in groundwater and surface water runoff.
    - Based on the field and analytical data collected during the multiple field assessments conducted on the subject property, lead and SVOCs have not impacted the groundwater in the vicinity of the subject property.

      Based on existing conditions on the subject property, there is minimal risk for lead and SVOCs to be transported via surface water runoff to the nearby surface water bodies. Based on the topographic map, the maximum elevation on the subject property in the area of soil impact is approximately 445 feet above mean sea level (highest elevation in the center of the subject property). The Amawalk Reservoir is at an elevation of approximately 400 feet above mean sea level. Based on the semi-circular topographic contours on the subject property, surface water most likely flows gently out radially towards the reservoir. No areas of channelized flow (permanent or intermittent) within or exiting the site were identified in the areas of soil impact. The existence of heavy vegetation and undergrowth has most likely prevented any permanent of intermittent channelized surficial flows. These current site conditions do not reveal a risk of surface run-off transporting contaminants.

This can also be shown by the existing soil impacts remaining within the anticipated shot fall area.

- Identify extent of areas with unacceptable exposure risk due to soil contamination.
  - According to the United States Environmental Protection Agency (USEPA) Office of Solid Waste and Emergency Response (OSWER) Directive #9200.4-27p, entitled, "Memorandum: OSWER Directive: Revised Interim Soil Lead Guidance For CERCLA Sites and RCRA Corrective Action Facilities," the recommended screening levels for lead in soil for residential land use is 400 mg/kg. This screening level is based on the Integrated Exposure Uptake Biokinetic (IEUBK) Model for Lead in Children published by the USEPA. A screening level of 400 mg/kg was used as a guideline for determining the extent of the lead-impacted excavation on the subject property. Soil contaminant data for lead is illustrated on maps by depth profile located in the SESA (**Appendix B, Figures 5, 6, 9-11, 12-16**). As indicated on **Figure 5**, the horizontal limits of lead impact extends from the cut and fill area located on the western portion of the sampling grid, across to the stone wall separating the site from the NYCDEP property. The area of lead impact above 400 mg/kg widens to a maximum width of approximately 585 feet along the eastern property boundary. The majority of lead impact in the soil was detected at depths from 0 to 1.5 fbg with only an isolated area near the wall of Lot 12 at depths from 1.5 to 3 fbg. Lead was not detected above the USEPA residential soil guidance value in the samples collected from Area-2 or the Cut and Fill Area (see **Appendix B, Figures 3 and 11, Tables 2 and 9**).

    SVOC compounds were detected in several soil samples at concentrations above New York State Department of Environmental Conservation (NYSDEC) Technical Administrative Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives (RSCO). These soil samples were collected from several locations in Area-1, one boring location (GP-5) in the Cut and Fill Area, and one soil sample collected from Area-2. Soil contaminant data for SVOCs is illustrated on maps by depth profile located in the SESA (**Appendix B, Figures 7 and 8**). The majority of SVOC impact in the soil was detected at depths from 0 to 1.5 fbg.

- Identify risks associated with use of groundwater for irrigation and transport of contaminants to Amawalk Reservoir.
  - Based on analytical data obtained from multiple field assessments on the subject property, the groundwater is currently not impacted with the contaminants of concern. Municipal water would be utilized if the subject property was to be developed as a residential subdivision. If irrigation needs were necessary, private lot wells would have to be installed for this purpose with approval by the Westchester County Health Department. Based on existing conditions on the subject property, there is no risk associated with use of groundwater for irrigation and transport of contaminants to Amawalk Reservoir due to no irrigation capabilities at the site. Irrigation capabilities would only be available after the development of the site and contaminants of concern have been removed from the site.

V.1 CUT/FILL ACTIVITIES

- Prepare Work Plan for subsurface investigation to document extent and characteristics of waste material in fill area (included in Attachment 1).
    - As noted in the bullet text, this Work Plan was submitted by GES and approved by the Town of Somers. Refer to Work Plan document (**Appendix A**).

- Conduct site survey to identify horizontal extent of waste/fill and depth of fill area.
    - The approximate location of the cut and fill area was outlined on the figure in the SESA (**Appendix B, Figure 3**). This area was approximated based on visual observations and from confirmation from the current property owner. Soil boring locations were located in the central and southern portion of the Cut and Fill Area (GP-1 through GP-10). These selected locations were biased to reflect the anticipated shot fall zone.

- Determine the effect of cut/fill activities on the distribution of shooting range-related contaminants in soil.
    - Soil samples collected from the native soil interface (if present) indicated that soils below this interface were not impacted by any historic land use. The depth of the fill material varied across this area and ranged from 17 fbg in the southeast corner (GP-8) and thinned toward the north-northwest. Fill material was not observed in soil boring locations GP-6, GP-7, and GP-10. Refer to the SESA (**Appendix B, Figure 3** and **Sub Appendix B** – Soil Boring Logs). SVOC compounds were detected in one sample, GP-5 (4.5-5.5 fbg), which is located along the eastern boundary of the Cut and Fill Area. One SVOC compound was detected at a concentration above the NYSDEC TAGM 4046 RSCO; refer to the SESA (**Appendix B, Table 1**). Lead concentrations detected in soil samples collected from the Cut and Fill Area at the native soil interface were below the USEPA action level for lead in a residential setting which is 400 mg/kg. Refer to the SESA for laboratory analytical data (**Appendix B, Table 2**).

- Conduct subsurface investigation to characterize the nature of the waste/fill material.
    - Based on lithologic descriptions from the borings completed in the Cut and Fill Area, the fill material is composed primarily of brown, fine sand and silt with a trace amount of gravel. Refer to the SESA (**Appendix B, Sub Appendix B** – Soil Boring Logs).

VI. *MITIGATION/REMEDIATION*

- Identify and evaluate remedial alternatives to reduce risks to acceptable levels for human health and ecosystem integrity.
    - A variety of technologies are available for mitigating lead and SVOC soil contamination associated with small arms shooting ranges. Mitigation of the soil would reduce the exposure risks to current and future human and ecological receptors. These remedial technologies include excavation of impacted soil above applicable guidance values, soil washing, in-situ and ex-

situ soil solidification, in-situ and ex-situ soil stabilization, and asphalt emulsion batching-encapsulation. A no action alternative will also be evaluated as required by the SEQR process.

Remedial Options Discussion:

- **Excavation**:
  - **Description:** Lead and SVOC-impacted soil above applicable guidance values would be excavated, loaded onto trucks, and transported to an appropriate landfill.
  - **Benefits:** The lead and SVOC impacts would be permanently removed from the subject property and confirmatory sampling would be conducted to ensure that soils above applicable guidance values have been removed. After excavation activities on-site are completed, there would be no risk to human and ecological receptors for any future uses of the subject property. Proper engineering controls could be implemented in order to prevent any potentially-impacted soils located on the NYCDEP property to come in contact with any human or ecological receptors on the subject property. Engineering controls such as fencing and/or another permanent barrier as well as signage would prevent human or ecological receptors from contacting any of the potentially-impacted soils located on the NYCDEP property.
  - **Concerns:** Excavated impacted soil would be loaded into trucks and transported off-site to an appropriate disposal facility. One concerns associated with this remedial alternative would be a scenario where the truck would release the impacted soil en-route in an automobile accident or due to an unforeseen catastrophic event. The trucks would have to adhere to all Department of Transportation regulations and requirements which would minimize the risk for off-site contamination. Additionally, the trucks would be subject to decontamination procedures before leaving the site thus preventing the migration of impacted soil off-site.

    During remediation there is a low risk of surface run-off transporting contaminants in either a lead particulate or lead enriched soil form. During remediation, a soil erosion and sediment control plan will be established to reduce and/or eliminate the risk of surface water run-off transporting contaminant in either a lead particulate or lead enriched soil form. This soil erosion and sediment control plan will be submitted to the Board and all applicable agencies, including the NYCDEP, for review prior to any remedial activities.

    The site does not promote conditions where soluble lead (i.e. – surface water run-off) will be a risk during remediation. When slugs and/or pellets are exposed to the atmosphere and/or precipitation over significant time, elemental lead will tend to oxidize (corrode). This oxidation process then produces primarily lead hydroxide and lead carbonate, which

are nearly insoluble. Lead compounds show the very low solubility in conditions where pH is less than 4.0. While natural precipitation has an average pH around 5.6, the average rainfall in New York State ranges from 4.0 to 4.5, (New York State Department of Environmental Conservation Web site: http://www.dec.state.ny.us/website/dar/ood/acidrain.html. Accessed July 12, 2006).

- **Soil Washing**:
  - **Description**: Soil washing is a source removal technology that physically separates spent bullet, shot, and target fragments from the soil through a physical solids-separation process. This process can either be accomplished wet or dry. It can also be performed in conjunction with other treatment approaches such as chemical extraction or soil stabilization to remove remaining metals adhered to soil surfaces.
  - **Benefits**: Soil washing technology can quickly reduce lead contamination using physical treatment alone without the use of other expensive and long-term treatment technologies. There is also the added benefit of reclaiming particulate lead. By establishing a physical treatment facility on-site, this facilitates timely excavation and haulage of soils for treatment and also the return and placement of treated soils.
  - **Concerns**: The clean portion of separated soil must be analyzed for residual contamination before it can be used as clean material and placed back on-site. On-site laboratory testing is recommended for extensive projects. Soil impacted with both metals and organic compounds make formulating a single suitable washing solution difficult. Additionally, sequential washing using a variety of liquids may be required. The rinsate would have to be containerized and either recycled or disposed of at an approved facility. On-site staging of lead particulates, chemical agents used in the washing process, and stockpiled soil awaiting laboratory analysis would remain during the washing process. This process has the potential to impact areas on the subject property that previously were not impacted since impacted soils would have to be moved to a processing area. This also creates the potential for introducing chemicals to the ecosystem that were not present prior to remediation. If dry screening is a step in the process, there is a potential to create wind-borne particulates and preventative measures would have to be implemented. It is recommended that a thorough bench-scale treatability study be conducted to ensure an effective design to fully mitigate the contaminant of concern.

- **Chemical Extraction**:
  - **Description**: Chemical treatment is typically used in conjunction with Soil Washing (described above). Chemical Extraction involves introducing an acid-leaching chemical

into the process water used in the Soil Washing process. The acidic chemicals would promote the dissolution of any residual metals into solution after the particulate metals are removed. The addition of acid aims to stabilize metals by changing the pH. Hydrochloric acid is typically used for this process. Fine-grained soils that settle out are rinsed and stockpiled on-site with the other clean soil generated during the physical separation process (Soil Washing).

- **Benefits**: This process is closed, whereby; the spent leachant is regenerated by precipitating the dissolved metals using a polymer to adjust the pH. This process allows for metals adhered to soil to be removed and then can be precipitated out for recovery/recycling.
- **Concerns**: If a weak acid (acetic) is utilized in the process, nuisance odors may be generated and the relative low strength limit of this acid is inefficient at extracting metals. Additionally, this method is limited by the size of the particles in the soil and the metals distribution by fraction (i.e. clay soils tend to bind metals better than sandy soils and tend to be more difficult to treat). The toxicity of the acid used needs to be considered prior to implementing this process since traces of the acid may remain in the treated soil. Total organic carbon content in the soils can affect the efficiency of this process where dissolved metals complexed with organic matter are more difficult to remove and may require a separate humate-removal process prior to chemical treatment. Additionally, the presence of iron and manganese oxides in the soils can absorb lead and increase the overall chemical consumption during this process. A thorough treatability study would be essential in order to find the appropriate leachant.

- **Soil Solidification:**
  - **Description**: This particular process adds pozzolanic material, usually alkaline materials, to soil in order to reduce the permeability and surface area. The most common form of solidification is a cementing process that utilizes cement (typically Portland, gypsum, sulfur, and grout) which limits the solubility or mobility of the target compounds. This technique can either be accomplished in-situ by either injecting a cement-based agent into the impacted soils or ex-situ by excavating the impacted soil, then machine-mixing the soil with the cement-based agent, or then depositing the solidified mass into a staging area.
  - **Benefits**: The goal of this process is to limit the spread of metals via leaching. The end product of this process is a monolithic block of waste with high structural integrity that can then be relocated to a landfill away from receptors or left in place. The large particles and alkaline pH buffering capacity that result from this process reduce the leaching

potential observed during Toxicity Characteristic Leaching Procedure (TCLP) and Synthetic Precipitation Leaching Procedure (SPLP) laboratory testing.

- **Concerns**: In real world disposal environments, however, this process can actually increase metal-leaching when the acids (as added during TCLP and SPLP laboratory testing) are not present to moderate the pH of the treated matrix. A bench-scale treatability study is required to consider this treatment method in order to determine a dose rate and reagent mixture that successfully meets the performance standards. High temperatures may result during the cement curing process and may ultimately cause cracks that extend through the stabilized mass. The type of cement utilized is an important factor as it can either reduce or increase the volume of the soil. Salts in the soil can affect the set rate of the cement utilized by either acceleration or retardation. Additionally, the presence of inorganic acids, chlorinated organics, or oil and grease, can affect the solidification process and undermine the durability of the solidified mass.

- <u>**Soil Stabilization**</u>:
  - **Description**: Process whereby metal-bearing soils are treated to remove hazardous characteristics. Stabilization treats the impacted soil with chemicals where the reagents added form less soluble compounds and control pH in the range of minimum solubility. The overall goal is to create a homogenous mix between the impacted soil and the stabilization agent. This method can either be accomplished in-situ or ex-situ. **In-Situ Stabilization**: The stabilization reagent is added to the surface and then blended or mixed into the soil using standard earth-moving equipment, agricultural equipment, vertical augers, or injection grouting. **Ex-Situ Stabilization**: Ex-situ methods are similar except that the soil is usually stockpiled prior to treatment. This method includes the use of pug mills and specialized mixing equipment. The end-point soils will be eliminated of hazardous characteristics and the soils can either be re-deposited on-site or disposed of at a non-hazardous waste disposal facility.
  - **Benefits**: More volume of impacted soils can be stabilized using Ex-Situ Stabilization than In-Situ Stabilization and at a faster rate. In-Situ Stabilization can be used to avoid regulatory approvals needed to treat hazardous waste by treating prior to the point of generating the waste (i.e. soil is considered a waste once excavated or moved from an area of concern).
  - **Concerns**: Post-treatment performance verification sampling would be required for both methods of stabilization. A thorough bench-scale treatability study is required in order to determine a dose rate and reagent mixture that successfully

meets the performance standards. A change in the environmental conditions within the stabilized soil could compromise the long-term immobilization of contaminants. A long-term monitoring program would be required to insure that contaminants have not remobilized. Additionally, future use of the site and environmental conditions may erode the materials used to stabilize the soil.

- **Asphalt Emulsion Batching-Encapsulation:**
  - **Description**: Tall oil pitch and asphalt-based emulsions are commonly used for commercial construction applications in order to stabilize soils for dust control. The emulsions encapsulate heavy metals rendering them resistant to groundwater leaching and environmental erosive forces. This soil emulsion mixture can be left in place which would restrict future use of the site or it can be used as an asphalt sub-base for paving projects off-site. Particulate metals would have to be removed prior to the emulsion treatment and can be recycled.
  - **Benefits**: This minimizes the spread of metals through wind and water erosion. This technology is a more permanent solution whereas other stabilization technologies are subject to loss of effectiveness under changing physical and chemical soil conditions.
  - **Concerns**: A thorough treatability study and extensive post-emulsion testing would be required if this method is selected. The presence of inorganic acids and chlorinated organics in the soil may interfere with the stabilization process. If the emulsion mixture is left in place, future use of the site and changing environmental conditions may erode the material used to encapsulate the contaminant.

- **No Action:**
  - Based on field assessments on the subject property, lead and SVOC concentrations are currently above applicable guidance values. The subject property is scheduled to be developed by the owner as a residential subdivision. If existing conditions are not mitigated, current and future human and ecological receptors are at risk for exposure to the lead and SVOCs impacts identified in the soil.

- Evaluate disposal alternatives and potential impacts related to removal and transport of contaminated soils offsite.
  - Some of the remedial methods discussed above (in-situ soil solidification, chemical extraction, in-situ and ex-situ soil stabilization, asphalt emulsion batching encapsulation) treat the contaminated soil on-site without the need to send the soil to a disposal facility. On-site treatment of the soils in not viable for residential development. The remedial methods discussed previously that treat the impacted soils on-site need either the introduction of chemicals, or materials to encapsulate. These methods do not remove the risk from the site.

The following is a discussion about the remedial methods that require off-site disposal of the contaminated soil either post-treatment to stabilize the metals or without treatment.

- **Excavation**:
  - Soil impacted with lead and SVOCs would be excavated using standard earth-moving equipment and either live loaded onto awaiting trucks or staged on-site to await loading onto trucks. The trucks would then transport the contaminated material to an appropriate disposal facility. The soil would have to be characterized as non-hazardous or hazardous waste prior to transportation of the impacted soil. This would be accomplished by testing the soil using TCLP methodology. The trucks would have to follow all required Department of Transportation (DOT) regulations and carry the appropriate waste manifest and hazard communication placards. At a minimum, the trucks would have to have a cover that would be positioned on top of the load prior to it entering the road. Additionally, impacted soils on the truck body and tires would have to be removed through industry standard decontamination procedures prior to leaving the subject site.

- **Ex-Situ Soil Solidification**:
  - Once the soil is solidified into a mass, it can then be transported to an appropriate disposal facility. The soil that was solidified can be chemically treated so that the metals are made less soluble and would be considered non-hazardous and thus reduce the risks associated with road travel.

- **Ex-Situ Asphalt Emulsion Batching Encapsulation**:
  - The contaminated soil would be made into an asphalt mixture that would render it resistant to contaminant leaching and is resistant to wind and water erosive forces. The particulate materials would have to be removed prior to the encapsulation process. Additionally, soil characteristics may prevent proper encapsulation to take place. This material could be moved off-site to be used as an asphalt sub-base for a road.

- Select best alternative and develop draft Implementation Plan for the preferred alternative.
  - The subject property is scheduled to be developed by the owner as a residential subdivision. In order to protect human and ecological receptors from exposure to on-site lead and SVOCs impacts in soils by exposure, inhalation, or ingestion, the preferred remedial alternative would be to excavate impacted soils over USEPA guidance value for residential soils and SVOC-impacted soil over NYSDEC TAGM 4046 guidance values. Regulatory approval from the NYSDEC Division of Environmental Remediation under the Brownfields Cleanup Program (BCP) will be obtained prior to the initiation of any remedial activities. The Remedial Action Plan

(RAP) is attached as **Appendix C** and provides a detailed implementation plan about the preferred remedial alternative.

APPENDIX A

FINAL SCOPE
FOR PREPARATION OF A SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR THE GRANITE POINTE SUBDIVISION TOWN OF SOMERS, NEW YORK
October 15, 2004

LEAD AGENCY: Town Planning Board
Town of Somers
c/o Mr. Leonard Montilli, Chairman
335 Route 202
Somers, New York 10589

DESCRIPTION OF PROPOSED ACTION

Suelain Realty (applicant) is the owner of 28.8 acres of property on Tomahawk Street in the Town of Somers known as tax lots Section 27.05 Block 3, Lots 2 and 5. The applicant had been granted preliminary and final subdivision plat approval for the development of 23 residential lots on the property. Subsequent to the grant of final approval, it was discovered that specific areas of the property were impacted with deposited lead from an old shooting range. The presence of lead was confirmed in a report obtained by the project sponsor's consultant Groundwater and Environmental Services, Inc., dated March 3, 2004. As a result of this new information, and in order to allow the applicant enough time to prepare a Supplemental Environmental Impact Statement (SEIS) within the allowable time constraints, final approval was rescinded and the application was reverted to the preliminary approval stage.

Under Section 617.9(7) of the SEQRA regulations, the lead agency may require a supplemental EIS (SEIS) based on "newly discovered information". The Planning Board found that the presence of lead on the property constitutes newly discovered information and at its meeting April 23, 2004 voted to require the preparation of a SEIS. As required under the SEQRA regulations, the following is the applicant's scope for the SEIS:

I. INTRODUCTORY MATERIAL

Cover Sheet: The SEIS must begin with a cover sheet that identifies the following:

1. That it is a Supplemental Environmental Impact Statement.
2. The name and description of the project.
3. The location of the project.
4. The Town of Somers Planning Board as the Lead Agency for the project and the name and telephone number of the following person to be contacted for further information:

   Town of Somers Planning Board
   c/o Leonard Montilli, Chairman

335 Route 202
Somers, NY 10589
914-277-5366

5. The name and address of the project sponsor, and the name and the telephone number of a contact person representing the applicant.

The name and address of the primary preparer(s) of the SEIS and the name and telephone number of a contact person representing the preparer.

7. Date of acceptance of the SEIS (to be inserted later).

8. Deadline for comments on the SEIS (to be inserted later).

9. List of Consultants Involved with the Project: The names, address, and project responsibilities of all consultants involved with the project should be listed.

The SEIS shall include a list of the consultants who worked on the SEIS and the name, address and area of responsibility of each consultant.

II. EXECUTIVE SUMMARY

The SEIS must include an executive summary. The summary should only include information found elsewhere in the main body of the SEIS and should be organized as follows:

A. Brief description of the action, including a description of the project location and expected year of completion.

B. List of involved and interested agencies and required approvals/permits with respect to the presence and remediation of the lead contamination.

C. Brief list of the anticipated impacts and proposed mitigation measures for the impact issue discussed in the SEIS. The presentation format should be simple and concise.

III. HISTORIC USES/ACTIVITIES AT SITE

III.1 SHOOTING RANGE

- Document period and level (e.g., frequency, number of sportsmen) of use of the site as a shooting range in order to assess relative magnitude of contaminants that may have been discharged over the site

- Document type of shooting activity (trap, skeet, shot type, etc.)

- Document range layout (firing line, target launch position, and direction/trajectory)

- Based on historic operating characteristics, project fan of shotfall zone and clay target fragment fall zone

- Project likely shotfall distance from firing line to property line and beyond onto adjacent New York City Department of Environmental Protection (NYCDEP) property.

III.2 CUT/FILL ACTIVITY

- Document when cut/fill activities took place onsite
- Document whether cutting of soils occurred within the shotfall zone, if possible
- Document depth of fill material across the fill area and depth to native soil horizon
- Determine likely sources of fill material.

III.3 BUILDING DEMOLITION

- Document location of former buildings onsite
- Document when buildings were demolished and disposal of any materials
- Document existence, removal, and cleanup of petroleum storage tanks (e.g., heating fuel oil).

IV. EXISTING CONDITIONS

IV.1 SHOOTING RANGE RELATED SITE IMPACTS

IV.1.1 Work Plan for Risk Assessment

- Prepare detailed Work Plan for human health and ecological risk assessments for review by Town of Somers Planning Board, Engineer, their consultants, and other regulatory agencies (Attachment 1 to this Scope)

- Develop Conceptual Site Model to describe contaminant sources, exposure pathways, and human receptors of concern including construction workers and residents (adults and children)

- Develop Conceptual Site Model to describe contaminant sources, exposure pathways, and ecological receptors representative of ecological food chain/community utilizing the site (e.g., birds and other water fowl, invertebrates feeding on vegetation and foraging on the ground surface, burrowing invertebrates)

- Identify contaminants of preliminary concern, including metals and polycyclic aromatic hydrocarbon (PAH) compounds potentially associated with trap/skeet shooting ranges

- Plot available contaminant data on site map to evaluate data gaps

- Identify sampling areas for collection and analysis of soil and groundwater (as necessary) to establish background concentrations of potential contaminants of concern related to shooting range impacts

- Develop field soil screening survey protocol to define full extent of soil contamination related to the shooting range; screening should encompass area in southwest portion of site that demonstrated elevated lead levels in previous soil sampling

- Describe field sampling protocols and proposed sampling locations for soil and groundwater

- Identify parameters to be measured and laboratory methods for soil and groundwater

- Describe Quality Control/Quality Assurance Program for field and laboratory operations.

- Assure that laboratory detection limits are adequate for risk assessment based on existing residential cleanup and human health standards.

IV.2 Evaluation of Site Soils

- Conduct field soil screening (e.g., x-ray fluorescence technology) as basis for preliminary delineation of potential impact area from shooting range

- Based on review of screening data, collect soil samples for laboratory analyses for use in defining soil impacted area and background area as described in approved final Work Plan

- Coordinate with NYCDEP for similar soil screening survey on New York City property down range

- Send selected soil samples to fill data gaps for analysis by certified laboratory

- Plot soil contaminant data on site map by depth profile

- Evaluate soil contaminant analytical data and determine final list of contaminants of concern for risk assessment and remedial alternatives assessment

- Compare contaminant data to site background values to aid in assessing the extent of range related impacts on soil.

IV.3 Evaluation of Groundwater/Surface Water

- If mobilization and transport are indicated by depth distribution of contaminants of concern in soil, install monitoring wells/sampling points in the surficial overburden aquifer as presented in the Work Plan

- Coordinated for access and installation of sampling points on downgradient NYCDEP property

- Perform groundwater surface elevation survey to document groundwater flow direction, rate and conductivity

- Conduct sampling and analysis of groundwater (shallow overburden and/or deep bedrock) for contaminants of concern

- Plot shallow groundwater contaminant data to site map
- Compare contaminant data to site background values to aid in assessing range related impacts to groundwater
- If shallow groundwater contamination is documented from the overburden aquifer sampling program, install bedrock wells within and downgradient of the impact area
- Sample and analyze bedrock well water for all selected contaminants of concern
- Evaluate surface topography and hydrology to identify any areas of channelized flow (permanent or intermittent) within or exiting the site that have the potential to transport contaminants during remediation, construction, or subsequent residential occupation; map any identified channels on the site map.

V. RISK ASSESSMENT

- Modify the Conceptual Site Model based on review of the results of the field and laboratory survey and analyses
- Using available soil and groundwater data, conduct human health and ecological risk assessments; examine relevant exposure pathways for shooting range-related contaminants identified in site soils and water based on Conceptual Site Model
- Evaluate risk to construction workers during site preparation, excavation, and utility installation
- Evaluate risk to adult and child residents at the site, including potential exposure to offsite contamination on the property of NYCDEP adjacent to Amawalk Reservoir
- If appropriate, evaluate offsite risk from transport of contaminants in groundwater and surface water runoff
- Identify extent of areas with unacceptable exposure risk due to soil contamination
- Identify risks associated with use of groundwater for irrigation and transport of contaminants to Amawalk Reservoir.

V.1 CUT/FILL ACTIVITIES

- Prepare Work Plan for subsurface investigation to document extent and characteristics of waste material in fill area (included in Attachment 1)
- Conduct site survey to identify horizontal extent of waste/fill and depth of fill area
- Determine the effect of cut/fill activities on the distribution of shooting range-related contaminants in soil

- Conduct subsurface investigation to characterize the nature of the waste/fill material.

VI. MITIGATION/REMEDIATION

- Identify and evaluate remedial alternatives to reduce risks to acceptable levels for human health and ecosystem integrity
- Evaluate disposal alternatives and potential impacts related to removal and transport of contaminated soils offsite
- Select best alternative and develop draft Implementation Plan for the preferred alternative.

ATTACHMENT 1

WORK PLAN FOR
ASSESSMENT AND REMEDIATION OF SUBSURFACE IMPACT AT
PROPOSED GRANITE POINTE SUBDIVISION
ROUTE 202, SOMERS, NEW YORK

Prepared by

Groundwater & Environmental Services, Inc
25 Jon Barrett Road
Robin Hill Corporate Park
Patterson, New York 12563

Work Plan for
Assessment and Remediation of Subsurface Impact at
Proposed Granite Pointe Subdivision
Route 202
Somers, New York

October 15, 2004

INTRODUCTION

This document has been prepared to provide a step-wise approach to additional assessment activities necessary to fulfill the requirements of the Supplemental Environmental Impact Statement (SEIS) required prior to granting final approval of the proposed subdivision property. In accordance with the State Environmental Quality Review (SEQR) Act, supplemental assessment activities presented here are related to new information currently available regarding past use of the site as a part-time recreational trap shooting range. This Work Plan should be adopted as an addendum to the Scope for Preparation of the Supplemental Environmental Impact Statement and will establish specific endpoints for determining when information obtained during future assessment activities is sufficient to generate an SEIS which is complete as to scope and content for the purpose of commencing public review.

Description of Site and Surrounding Area – Historical Property Use Information

The site is a 28-acre parcel of undeveloped land that is bordered on the west by Tomahawk Street (Route 202) and on the east by the Amawalk Reservoir. The site is bordered to the north and south by residential properties. Several residential and commercial buildings were formerly located on the currently-undeveloped parcel. These buildings reportedly included a restaurant, which no longer exists but was located in the central portion of the site. According to several eye-witnesses who worked at the restaurant and/or participated in recreational activities at the site, trap shooting was conducted on portions of the site between 1938 and 1968. The trap shooting operation was oriented so the shooting reportedly took place in a northeasterly direction, toward the Amawalk Reservoir. Based on unsubstantiated verbal reports from the Town of Somers Engineering Department, target shooting activities may have also taken place on the site during this time. These target shooting activities reportedly took place in approximately the same area of the site, with shooting taking place in a northerly direction.

WORKPLAN

Additional Background Investigation Activities

Goal: To obtain all available information regarding past trap and/or target shooting activities and cut and fill activities that took place at that site in order to fully identify areas of concern for potential environmental impact.

In advance of any proposed on-site assessment activities, additional research will be conducted to determine, to the extent practicable based on the available resources, the exact location of the former

trap and possible target shooting activities, and the extent of reported cut and fill operations conducted at the site. It is anticipated that historical local building records, aerial photographs, and if available, soil excavation/cut and fill documentation will be reviewed. Interviews with employees of the former on-site facilities, and if possible, former property owners will be conducted in order to obtain all available information regarding trap shooting activities. Similar research will be conducted to determine the extent of soil cut and fill activities and the source of any non-native material observed in the filled area. Assistance will be requested from the Town of Somers Engineering Department in order to contact the appropriate people and obtain all available historical information concerning the site.

Some of the historical investigation described above has been conducted as part of past assessment activities, this information was used in developing the scope of work for previous on-site assessment activities, but will be revisited and formally documented during preparation of the SEIS.

Development of Conceptual Site Model

Goal: To describe known areas and sources of impact at the site, exposure pathways, and receptors of concern.

A Conceptual Site Model for assessment of human health and ecological receptors impacts from shooting activities at the site will be developed. The focus of the model will be on potential exposure pathways for future residents of the property (including adults and children) as well as construction workers employed during development of the property. All available soil analytical data will be plotted on a map of the property in order to identify data-gaps and portions of the site requiring additional characterization. The Conceptual Site Model will be continually updated as new information becomes available and will be instrumental in determining the extent to which additional intrusive site assessment activities are necessary prior to submittal of the SEIS.

Determination of Extent and Source of Cut and Fill Material

Goal: To determine the extent of cut and fill operations that occurred following demolition of former on-site structures.

According to information provided by the Town of Somers Engineering Department, at some time since operation of the recreational trap shooting range ended, the central portion of the site was re-graded. In order to eliminate the possibility that cut and fill activities resulted in the burying of potentially impacted soil or material that could pose a risk to the environmental integrity of the site, it is necessary to determine the depth at which native soil is present in the area that was filled and/or re-graded and the content of the non-native material in the area. This determination will be made by spending approximately one day advancing soil borings in the central portion of the site where evidence of cut and fill activities has been observed.

A truck mounted Geoprobe will be used to collect soil samples continuously from the existing ground surface to the depth at which native soil is observed, estimated to be 8 to 12 feet below grade. Soil cores collected during this field event will be evaluated to determine the depth at which native soil is encountered and this depth will be recorded in soil boring logs prepared by the on-site staff.

Information obtained during this event will be used to determine the depth at which soil samples for assessment of shooting related impacts will be collected in this portion of the site. During the advancement of soil borings, samples will be collected and submitted to a New York State certified laboratory for analysis of VOCs, PAHs, and select metals as appropriate based on historical information obtained regarding the origin of filled material and observations of fill material contained in the portion of the site. Specific soil analytical methods used to characterize potential impact within the filled area will be determined based on observations made during field activities relative to the apparent content of the non-native material observed. A site Health and Safety Plan (HASP) will be prepared prior to initiating these activities.

Additional Soil Sampling Activities

Goal: To fully characterize the horizontal and vertical extent of impact to site soil resulting from operation of the facility as a recreational trap and/or target shooting range.

Upon determination of gaps in available data regarding lead impact at the site, additional proposed soil sampling locations will be plotted on a site plan. These sampling locations will be plotted in a grid formation in order to ensure that sufficient data is available to fully characterize the horizontal extent of impact across the identified areas of concern resulting from operation of the site as a trap and/or target shooting range. The grid pattern will extend from the approximate location of the former restaurant location to the stone wall separating the Granite Pointe property from land belonging to the New York City Department of Environmental Protection. If it is confirmed that target shooting was also conducted on the property, the soil sampling grid will be expanded to include portions of the site (to the north of the former restaurant building) where impact from target shooting activities would be anticipated.

In addition to collecting samples from the area of concern, approximately six samples will be collected from areas of the site where no impact is anticipated. These samples will be submitted to a New York State-Certified laboratory for analysis of lead, other metals of concern, and PAHs. Results of analysis of these samples will be compared with analytical results from samples collected from outside the area of concern during previous assessment activities and will be used to determine site specific background concentrations for lead, other metals of concern, and PAHs.

Depth of specific soil sampling locations will be determined based on information obtained during the cut and fill investigation activities described above. This will ensure that soils currently and formerly located on the surface are assessed for potential impact. In areas where native soil is located at ground level, soil samples will be collected in cores approximately two feet long using a hand auger. Collection of soil samples via a hand auger will allow discrete sample intervals to be screened in the field using an x-ray fluorescence (XRF) meter. Cores will be visually inspected to determine if a distinct layer containing lead shot pellets exists in the soil profile and the depth of that layer. If a distinct layer containing lead shot pellets is observed, soil samples from these cores will be split and two samples from these locations will be submitted for laboratory analysis. One sample will be submitted for total lead analysis based on in-situ conditions (i.e. with lead shot pellets included) and the second sample will be sifted to remove lead shot pellets prior to submittal to the laboratory for total lead analysis. This will aid in the determination of lead content in site soil versus lead content present in lead shot that may still be present at the site.

The XRF instrument will allow for the collection of a large body of data during a short period of time and will facilitate complete characterization of the impacted portions of the proposed subdivision. In order to evaluate the vertical extent of lead impact to soil, field staff will screen surface samples in the field for the presence of lead. If lead is detected in the surface (0-1 foot) sample at concentrations above the site background concentration (determined in accordance with the methodology described above), a sample from 1-2' will be screened. This process will be continued to the extent possible until the lead concentration in the sample collected from the bottom of each sampling location is equal to the mean site background concentration within reasonable statistical variability. This technique will allow for full characterization of the vertical extent of lead impact at the site.

In addition to screening in the field, select soil samples will be submitted to a New York State certified laboratory for analysis of lead, other metals of concern, and PAHs by EPA Methods 200.7, RCRA Metals, 8270, and TCLP, as appropriate. Standard industry Quality Assurance/Quality Control (QA/QC) measures, including decontamination of field equipment, use of laboratory-provided glassware, and collection of appropriate field blanks, will be conducted as part of soil sampling activities.

Upon receipt of soil analytical data, new data will be plotted on a site plan to visually evaluate whether the vertical and horizontal extent of soil impact at the site has been determined. This data will be integrated into the Conceptual Site Model and allow for a determination of whether impact at the site has been adequately characterized or whether additional assessment work is necessary prior to preparation of the SEIS.

The determination of whether additional characterization is necessary will hinge on whether lead, other metals of concern or PAHs have been identified at depths and concentrations sufficient to create a potential risk to groundwater at the site. If concentrations of these compounds are determined to be isolated in shallow site soils and, based on analytical results, are unlikely to migrate to the groundwater table, assessment of groundwater quality at the site will not be conducted, and the SEIS will be prepared. If, as determined in consultation with the applicant's consultant, the Town Engineer, and EA, the Town's soil and groundwater consultant, soil analytical results indicate the potential for migration of these compounds to on-site groundwater, the further assessment activities described below will be conducted prior to completion of the SEIS.

Installation of Overburden Monitoring Wells

Goal: To determine whether impact to groundwater exists at the site as a results of operation of the facility as a recreational trap and/or target shooting range.

If, based on the additional soil sampling described above, it is determined that assessment of subsurface groundwater quality is necessary, up to five monitoring wells will be installed on the proposed subdivision property. If installation of these wells is required, three of the potential wells will be located in the area of concern and two of the wells will be installed in areas outside of, and if possible, down gradient from the area of concern.

If possible, based on site accessibility and subsurface conditions, the wells will be installed with a truck-mounted Geoprobe rig using direct-push technology. Wells will be constructed of schedule 40 PVC and will be completed as two-inch groundwater monitoring points that can remain in place to allow for future groundwater monitoring as necessary. A representative of the applicant will be on-site to supervise the drilling activities and installation of monitoring wells. Because of the extensive soil sampling program described above, it is not anticipated that soil samples will be collected during installation of monitoring wells.

The monitoring wells will be constructed so that the well screens are placed across the water table. The monitoring wells will be completed at grade with bolted, flush-mount manways for access during future groundwater sampling events. Groundwater samples will be collected from these monitoring wells will be submitted to a New York State certified laboratory for analysis of lead, other metals of concern, and/or PAHs dependant upon which of these compounds were identified at elevated concentrations during the soil sampling portion of this investigation. The monitoring wells will be surveyed to establish relative groundwater elevations and monitoring well gauging data will be used to determine the direction of groundwater flow through the overburden aquifer at the site. All waste material generated during monitoring well installation activities will be stored on-site in labeled 55-gallon drums and will be transported off-site to a certified disposal facility within 45 days of drilling activities.

Following this phase of the investigation, the determination of whether additional characterization is necessary will hinge on whether lead, other metals of concern, or PAHs have been identified in samples collected from the shallow overburden aquifer at concentrations above NYSDEC and NYSDOH ambient water quality and/or drinking water standards. If it is determined that these compounds are not present in the shallow overburden aquifer, assessment of groundwater quality in the bedrock aquifer will not be conducted, and the SBIS will be prepared. If, as determined in consultation with the applicant's consultant, the Town Engineer, and EA, the Town's soil and groundwater consultant, analytical results indicate the presence of these compounds in groundwater samples collected from the overburden aquifer at concentrations above NYSDEC and/or NYSDOH guidance values, the further assessment activities described below will be conducted prior to completion of the SBIS.

Installation of Bedrock Monitoring Wells

Goal: To determine whether impact to the bedrock aquifer exists at the site as a results of operation of the facility as a recreational trap and/or target shooting range.

If, based on analysis of groundwater samples collected from overburden monitoring wells, it is determined that assessment of groundwater quality within the bedrock aquifer is necessary, up to three bedrock monitoring wells will be installed at the site. If installation of these wells is necessary, two will be located in the documented area of concern, and if possible, one well will be located downgradient of the known impacted area.

The proposed wells will be completed as two-inch groundwater monitoring wells. A representative of the applicant will be on-site to supervise the drilling activities and installation of monitoring wells. Because of the extensive soil sampling program described above, it is not anticipated that soil

samples will be collected during installation of bedrock monitoring wells. Boring logs and/or well completion logs will be generated for any monitoring wells installed as part of this investigation.

It is anticipated that these wells will be installed using hollow-stem auger and air rotary drilling technology and will be advanced a minimum of 20 feet into the bedrock surface. If water-bearing zones are not encountered at a depth of twenty feet within the bedrock surface, the wells will be advanced at ten foot intervals until a water-bearing zone is encountered. Wells will be completed as two-inch groundwater monitoring points that can remain in place to allow for future monitoring as necessary.

The monitoring wells will be constructed so that the well screens are isolated within the bedrock aquifer. The monitoring wells will be completed at grade with bolted, flush-mount manways for access during future groundwater sampling events. Groundwater samples will be collected from these monitoring wells will be submitted to a New York State certified laboratory for analysis of lead, other metals of concerns and/or PAHs dependant upon which compounds were identified during the shallow groundwater sampling portion of this investigation. The monitoring wells will be surveyed to establish relative groundwater elevations and monitoring well gauging data will be used to determine the direction of groundwater flow through the bedrock aquifer at the site. All waste material generated during monitoring well installation activities will be stored on-site in labeled 55-gallon drums and will be transported off-site to a certified disposal facility within 45 days of drilling activities.

Laboratory analytical data will be reviewed to determine if lead, other metals of concern, and/or PAHs are present at concentrations about NYSDEC or NYSDOH ambient water quality or drinking water standards. If analytical results indicate the presence of these compounds in groundwater samples collected from the bedrock aquifer at concentrations above NYSDEC or NYSDOH guidance values, additional bedrock monitoring wells may be installed in order to determine the extent of impact to the bedrock aquifer. If, upon review by the applicant's consultant, the Town Engineer, and BA, the Town's soil and groundwater consultant, it is determined that concentrations of lead, other metals of concern, and PAHs are not attributable to operation of the site as a shooting range and are naturally occurring, additional wells will not be installed and the SEIS will be completed.

Assessment of Land beyond Extent of Granite Pointe Property

Goal: To determine, to the extent practicable, concentrations of lead, other metals of concern and/or PAHs on property owned by the New York City Department of Environmental Protection.

The applicant will communicate all available information regarding soil and groundwater impact identified on the proposed Granite Pointe Subdivision property to the New York City Department of Environmental Protection (DEP) and will request that the DEP conduct a study of potentially impacted portions of their property in accordance with the same protocols described in this document. To facilitate this investigation, to the extent practicable, the applicant will allow the DEP (and their contractors) access to the potentially impacted portions of DEP property via the Granite Pointe property.

Site Remediation Efforts

Goal: To reduce concentrations of lead, other metals of concern, and/or PAHs on the proposed Granite Pointe subdivision property to levels that do not pose a risk to human health or the environment in accordance with available EPA guidance values or risk-based clean-up values and endorsement from the Westchester County Department of Health.

Assessment efforts described above will allow further updates to the Conceptual Site Model and a determination of the portions of the site where lead, other metals of concern, and PAHs are present at concentrations that should be reduced prior to development of the site for residential use. Upon completion of assessment activities, areas in need of remediation will be identified. It is anticipated that the United States Environmental Protection Agency (US EPA) action level for lead in a residential setting of 400 parts per million (ppm) will be used as a guideline for determining the areas of the site where remediation of lead impact is required. Action levels for other metals and/or PAHs specifically identified as compounds of concern for this site will be determined by comparing concentrations detected at the site with NYSDEC Soil Quality Guidelines. In cases where soil quality guidelines are not available for any metals of concern and/or PAHs have not been established by the NYSDEC, site specific action levels will be determined based on comparison of analytical data with background concentrations calculated during assessment activities described above. Where appropriate, a human and ecological health risk assessment will be used to calculate action levels for the individual metals or PAHs identified as compounds of concern. Areas proposed for remediation will be plotted on a Site Plan with the anticipated horizontal and vertical extent of each area in need of remediation indicated on the map.

Prior to conducting any remediation activities, a site specific Health and Safety Plan (HASP) will be developed for the site. The HASP will identify all potential hazards associated with remedial activities proposed for the site, and will describe the required personal protective equipment (PPE), a respiratory protection program, and emergency contact information for the property owner and local emergency medical services.

Upon completion of site assessment efforts described in this Work Plan, a summary report will be prepared and submitted to the Town of Somers Planning Board and to the regulatory agency responsible for oversight of these efforts, the Westchester County Department of Health. In conjunction with the summary report, a remedial evaluation will be completed in order to determine the appropriate actions required to reduce concentrations of lead, other metals of concern and/or PAHs to concentrations below action levels identified above. As recommended by the consultant contracted by the Town of Somers, approximately three remedial alternatives will be evaluated and a determination will be made as to the most appropriate alternative for this site based on assessment activities, site specific access issues and limitations, and the proposed future use of the property as a residential development. The remedial evaluation will include all specific information regarding methods to be employed during site remediation, obtaining any permits required to complete the proposed work, and soil handling and disposal processes, where appropriate.

APPENDIX B

Supplemental Environmental Site Assessment
Proposed Granite Pointe Development

Tomahawk Street (Route 202)
Somers, New York

Prepared for:

Suelain Realty
P.O. Box 807
Katonah, New York 10536

Prepared by:

Groundwater & Environmental Services, Inc.
25 Jon Barrett Road
Robin Hill Corporate Park
Patterson, New York 12563
(845) 878-8067

Prepared by: _____
Michael DeGloria
Project Manager - Hydrogeologist

Reviewed by: _____
Elizabeth T. Bowen
Project Manager

May 23, 2005

TABLE OF CONTENTS

Supplemental Environmental Site Assessment
Suelain Realty
Proposed Granite Pointe Development
Tomahawk Street (Route 202)
Somers, New York

			Page #
1.0	**INTRODUCTION**		1
	1.1	Description of Site and Surrounding Area	1
	1.2	Summary of Previous Investigations	2
2.0	**FIELD ACTIVITIES**		3
	2.1	Cut and Fill Drilling Activities	3
	2.2	Survey	3
	2.3	Defining Grid Pattern in (Area-1)	3
	2.4	Background Soil Samples	3
3.0	**SOIL SAMPLING (AREA 1)**		4
	3.1	December 2004 Field Activities	4
	3.2	January 2005 Field Activities	5
	3.3	Defining Grid Pattern (Area-2)	5
	3.4	Grid Sampling (Area-2)	5
4.0	**RESULTS**		6
	4.1	Cut and Fill Area	6
	4.2	Background Samples	6
	4.3	Grid Sampling (Area-1)	6
		4.3.1 December 2004	6
		4.3.2 January 2005	7
		4.3.3 February 2005	7
	4.4	Grid Sampling (Area-2)	7
5.0	**CONCLUSIONS**		8

Attachments:

Table 1	Summary of SVOCs (Cut & Fill Area) December 2004
Table 2	Summary of Total Lead Concentrations (Cut & Fill Area) December 2004 and January 2005
Table 3	Summary of Site Specific Background Lead Concentrations December 2004
Table 4	Summary of XRF Screening Results December 2004
Table 5	Summary of SVOCs (Area-1 Soil Samples) December 2004

TABLE OF CONTENTS

Supplemental Environmental Site Assessment
Suelain Realty
Proposed Granite Pointe Development
Tomahawk Street (Route 202)
Somers, New York

Table 6	Summary of Lead Contractions (Area-1 Samples) December 2004, January 2005, and February 2005
Table 7	Comparison of Total Lead Concentrations (Sifted vs. Non-Sifted) December 2004 and January 2005
Table 8	Summary of XRF Screening Results (Area-2 Samples) December 2004 and January 2005
Table 9	Summary of Lead and SVOC Concentrations (Area-2 Samples) December 2004
Figure 1	Site Map
Figure 2	Soil and Groundwater Analytical Map December 2003, January 2005, and February 2004
Figure 3	Soil Sample Location Map (Geoprobe Dec. 2004)
Figure 4	Background Soil Sample Locations
Figure 5	Soil Sample Locations (Lead), Area of Detail 1 @ .5 ft. bg.
Figure 6	Soil Sample Locations (Lead), Area of Detail 1 @ 1.5 ft. bg.
Figure 7	Soil Analytical Data map (SVOCs), Area of Detail 1 @ .5 ft. bg
Figure 8	Soil Analytical Data map (SVOCs), Area of Detail 1 @ 1.5 ft. bg
Figure 9	Soil Sample Locations (Lead), Area of Detail 1 @ 2.5 ft. bg.
Figure 10	Soil Sample Locations (Lead), Area of Detail 1 @ 3.5 ft. bg
Figure 11	Soil Sample Locations (Lead), Area of Detail 2 @ .5 ft. bg.
Figure 12	Cross Section Location Map
Figure 13	Cross Section A-A′ & B-B′
Figure 14	Cross Section C-C′ & D-D′
Figure 15	Cross Section E-E′ & F-F′
Figure 16	Cross Section G-G′ & H-H′
Appendix A	Eye Witness Accounts
Appendix B	Soil Boring Logs
Appendix C	December 2004 Laboratory Reports
Appendix D	January 2005 Laboratory Reports
Appendix E	February 2005 Laboratory Reports

SUPPLEMENTAL ENVIRONMENTAL SITE ASSESSMENT
SUELAIN REALTY
PROPOSED GRANITE POINTE SUBDIVISION
TOMAHAWK STREET (ROUTE 202)
SOMERS, NEW YORK

May 23, 2005

1.0 INTRODUCTION

The *Work Plan for Assessment and Remediation of Subsurface Impact at Proposed Granite Pointe Subdivision* was prepared to provide a step-wise approach to additional assessment activities necessary to help fulfill the requirements of the Supplemental Environmental Impact Statement (SEIS) which is required prior to granting final approval of the proposed subdivision property. In accordance with the State Environmental Quality Review (SEQR) Act, supplemental assessment activities presented here are related to new information currently available regarding past use of the site as a part-time recreational trap shooting range. Groundwater & Environmental Services, Inc. (GES) prepared this document which summarizes the supplemental environmental site assessment performed in December 2004, January and February 2005, at the proposed Granite Pointe Development located on Tomahawk Street in Somers, NY. The information contained in this document will be used to develop the SEIS and Implementation Plan. A Site Map is provided as **Figure 1**. The purpose of the supplemental environmental site assessment was to horizontally and vertically define the extent of lead impacted soil discovered during earlier investigations in the portion of the property formerly used as a recreational trap shooting range and in the portion of the property proposed as lot number 19 (in the vicinity of a vacant one-story masonry dwelling). Field activities included the following:

- December 2, 2004: Advancing of 10 soil borings in the portion of the site where cut and fill activities took place to determine if lead impact is present at the native land surface;
- December 14 and 23, 2004: The collection of shallow surface soil samples from six arbitrary locations outside the area of expected shot fall to establish a site specific background level for lead;
- December 14 through 17, 2004: Screening of 593 shallow soil samples for lead, typically 0 to 1 feet below grade (ft bg) using an x-ray fluorescence machine (XRF);
- December 2004: Laboratory analysis of select soil samples for total lead, leachate potential (TCLP) for lead, and semi-volatile organic compounds (SVOCs);
- December 30, 2004: Sifting of 6 soil samples containing shot pellets using a 30-mesh sieve and laboratory analysis of pre-sifted and post-sifted samples for total lead concentration comparison;
- January 21, 2005: Hand collection of 40 soil samples at various depths for laboratory analysis of total lead, TCLP lead and SVOCs; and
- February 15, 2005: Collection of 41 soil samples at various depths, using a track-mounted Geoprobe ® for laboratory analysis of total lead and TCLP lead concentrations.

1.1 Description of Site and Surrounding Area

The site is a 28-acre parcel of undeveloped, mostly wooded land that is bordered on the west by Tomahawk Street (Route 202) and on the east by the New York City Department of Environmental Protection (NYCDEP) Amawalk Reservoir. The site is bordered to the north and south by residential

properties. Several residential and commercial buildings were formerly located on the currently-undeveloped parcel. These buildings reportedly included a restaurant, which was formerly located in the central portion of the site. According to several eye-witnesses who worked at the restaurant and/or participated in recreational activities at the site, trap shooting was conducted on portions of the site between approximately 1938 and 1968. Copies of eyewitness accounts are attached as **Appendix A.** The approximate locations of buildings formerly located on the property are indicated on the Site Map provided as **Figure 1** of this report.

Immediately to the west of the subject site is a former gasoline retail facility owned by Rex Realty of Connecticut, Inc. (Rex Oil). This property operated as a petroleum retail site from at least 1967, when it was purchased by Rex Oil, until 1988 when the gasoline underground storage tanks (USTs) were removed. The site currently operates as an auto repair facility.

1.2 Summary of Previous Investigations

An Environmental Site Investigation that included the drilling of twelve soil borings and the collection of soil and groundwater samples for laboratory analysis was completed by GES during December of 2003. The locations of soil borings advanced as part of the December 2003 investigation are illustrated on **Figure 2**. Laboratory analysis of soil samples collected during this investigation indicated total lead concentrations in soil samples ranging from below the minimum laboratory detection limit to 73.1 milligrams per kilogram (mg/kg).

At the request of the Town of Somers Planning Board, additional site assessment activities were completed in January and February 2004. As part of the supplemental site assessment activities, soil samples were collected from 48 additional locations across the site. These sampling locations are identified as S-1 through S-48 and are illustrated on **Figure 2**. The majority of the additional sampling points were located within the area of expected shot fall. The shot fall area was identified following interviews with persons associated with the former trap shooting activities at this site in addition to guidance documents related to assessment at closed small arms firing ranges. Laboratory analysis of soil samples collected during the January and February 2004 assessment activities indicated the presence of elevated lead concentrations in site soils in the area of the former trap shooting range. Lead concentrations in soil samples detected during this portion of the investigation ranged from below laboratory detection limits in a sample collected from the northern extent of the area identified for further investigation (S-12) to 10,800 mg/kg in a sample collected approximately 15 feet from the stone wall that borders the eastern property boundary (S-40).

The Town of Somers Planning Board, after reviewing results of the Supplemental Site Assessment Report dated March 5, 2004, rescinded final approval of the Granite Pointe Development and required that a Supplemental Environmental Impact Statement (SEIS) be prepared. GES, on behalf of Suelain Realty, submitted the Scope of Work to complete the SEIS to the Town of Somers Planning Board on October 15, 2004. The plan was subsequently approved and GES began the field activities in early December 2004.

2.0 FIELD ACTIVITIES

2.1 Cut and Fill Drilling Activities

On December 2, 2004, GES personnel supervised the drilling of 10 soil borings (GP-1 through GP-10), illustrated on **Figure 3**, using a truck-mounted Geoprobe ®. Drilling activities were conducted by Glacier Drilling, LLC (Glacier), of Bolton, Connecticut. Soil samples were collected continuously from grade to the boring termination depth, which was determined by visual observation of the native soil interface, using a five-foot macro core sampling device. The termination depths ranged from 10 to 20 ft bg. Each soil sample was logged by GES personnel and screened using a photoionization detector (PID) for the presence of volatile organic compounds (VOCs). Based on visual observation of the native soil interface, one sample from each boring was selected for laboratory analysis. These samples were transferred into the appropriate laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum Analytical, Inc. (Spectrum), a New York State Department of Health certified laboratory located in Agawam, Massachusetts for analysis of lead using EPA Method 200.7, VOCs using EPA Method 8260 and SVOCs using EPA Method 8270. In three of the soil borings, GP-6, 7 and 10, the native soil interface was not observed indicating that the historic cut activities removed the native material in these area. Shallow soil samples were collected and submitted for analysis from these three borings as described above. Copies of the soil boring logs which include the PID results are attached in **Appendix B.**

2.2 Survey

A total of six fixed points were established and surveyed on the site on December 8, 2004 and are illustrated on **Figure 4**. The survey was completed by Donnelly Land Surveyors located in Yorktown Heights, New York. The purpose of establishing the fixed points was to aid in accurately locating the soil borings associated with the cut and fill area as well as the lead sampling grid identified below as "Area-1".

2.3 Defining Grid Pattern (Area-1)

On December 13, 2004, GES personnel were on site to establish a sampling grid in the expected shot fall area (Area-1). Flags were placed at fifteen-foot intervals and were identified using a letter and number sequence (A-1, A-2, B-1, B-2, etc.). The grid extended from slightly north of the access road to the northern property boundary and from the wall (Row "A"), which demarks the eastern property boundary, west towards the cut and fill area (Row "O"). A total of 566 sample points were identified using flags.

2.4 Background Soil Samples

On December 14, 2004, GES personnel collected soil samples from six locations outside the expected shot fall area to establish a site specific background concentration for lead. According to the NYSDEC, lead concentrations in suburban areas typically range between 200 and 500 mg/kg. Background soil samples were collected outside the shot fall area to assess lead concentrations at the site under naturally occurring conditions. The locations of the samples (BG-1 through BG-6) are illustrated on Figure 4.

Soil samples were collected using steel bulb planters using the following decontamination process:

- a non-phosphorous soap wash;
- a tap water rinse;
- de-ionized water rinse;
- 10% nitric acid rinse;
- de-ionized water rinse; and
- air dry.

Each soil sample was transferred into the appropriate laboratory supplied container, stored on ice in a cooler and shipped to Spectrum for analysis of metals, including lead by EPA Method 200.7, TCLP by EPA Method 1311 and SVOCs by EPA Method 8270.

3.0 SOIL SAMPLING (AREA-1)

3.1 December 2004 Field Activities

On December 14, 15, 16, 21 and 23 GES personnel were on site collecting shallow soil samples from the Area-1 Grid. Soil samples were collected by hand and transferred into labeled Ziplock ® bags. To limit possible lead exposure and cross-contamination while handling the soil, Nitrile gloves, changed between sample locations, were worn at all times. The original scope of work called for field screening of soil samples using the XRF, however, the cold weather affected the battery of the XRF machine and all parties including GES, Suelain Realty, and the Town of Somers Consultant Paul Muessig of EA Science and Technology (EA), agreed the soil screening could be completed in the GES office located in Patterson, New York.

In order to confirm and validate the XRF screening results, select soil samples were transferred into the appropriate laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum for analysis of total metals, including lead, using EPA Method 200.7, TCLP by 1311 and select samples via SVOCs by 8270. Soil samples were collected primarily in the center of the established grid, where the highest screening results were located, and along the northern and southern margins of the grid.

On December 29, 2004, GES personnel returned to the site and collected 21 additional soil samples from 1.5 ft bg in the Area-1 Grid. Soil sample locations were selected using the XRF screening results and laboratory analysis of the shallow samples as a guide. Soil samples were collected by removing the top 1.5 feet of soil using a spade shovel, then collecting samples from 1.5 ft bg using a steel bulb planter. The equipment used for the sampling was decontaminated prior to each use as previously described in the *Background Soil Sample* section of this report. Soil samples were transferred into the appropriate laboratory supplied container and stored in a cooler. The samples were first screened in the GES office using the XRF machine and then stored in a cooler on ice and shipped to Spectrum for analysis of select metals, using EPA Method 200.7, TCLP by EPA Method 1311 and select samples were also analyzed for SVOCs by EPA Method 8270.

On December 30, 2004, GES personnel selected six soil samples in which lead shot pellets had been identified for sifting purposes. The samples include A-14, A-16, A-26, A-29, A-39 and B-34. Each sample was allowed to dry in order to aid in the sifting process. A 30-mesh sieve was utilized to separate the pellets from the soil. Once each sample was sifted, GES personnel used the XRF to screen each sifted and non-sifted sample for total lead. The sifted and non-sifted samples were transferred into

the appropriate laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum for analysis of total lead concentration by EPA Method 200.7.

3.2 January 2005 Field Activities

The January 21, 2005 field activities were required after meeting with the Town of Somers Consultant Paul Muessig. It was determined that additional soil sampling was necessary to completely define the area of SVOC impact within the southwest portion of the Area-1 Grid in addition to the vertical extent of lead impact within the shot fall area.

A total of 17 soil samples were collected from 11 previously established locations within the grid in addition to 10 soil samples collected from 5 new locations outside the southwest portion of the grid. A spade shovel was used to remove soil to a specified depth (0.5 and 1.5 ft bg), samples were collected by hand and transferred into laboratory supplied containers. The soil samples were stored on ice in a cooler and shipped overnight express to Spectrum for analysis of SVOCs.

A total of 44 soil samples were collected from 39 previously established locations within the Area-1 Grid. The samples were collected as described previously from 1.5 and 2.5 ft bg, stored on ice in a cooler and shipped overnight to Spectrum for analysis of total and TCLP lead.

A review of the January 21, 2005 laboratory results triggered the February 15, 2005 field activities. The data indicated that the vertical extent of the lead impacted soil had not been defined. A small, track mounted Geoprobe ® was utilized to collect 41 soil samples from 20 previously established locations within the Area-1 Grid, the samples were collected from 2.5 and 3.5 ft bg. Each sample was collected using a four-foot macro core sampler equipped with dedicated polyethylene liners. Soil samples were transferred into the appropriate laboratory supplied container, stored on ice in a cooler and shipped to Spectrum for rush analysis of total and TCLP lead concentrations.

3.3 Defining Grid Pattern (Area-2)

On December 15, 2004, GES personnel were on site to establish a sample grid (Area-2) in the vicinity of the vacant one-story masonry building located on proposed lot number 19. This area was scheduled for further investigation at the request of the Town of Somers Engineer Guy Gagne because of concern that analysis of soil samples collected from this location appeared to yield anomalously high lead concentrations. Flags were placed at 15-foot intervals and were identified using a letter and number sequence (A-1, A-2, B-1, B-2, etc.). The grid extended approximately west and south of the building to include the areas where potential lead impact was identified during previous investigations. A total of 27 sample points were identified using flags.

3.4 Grid Sampling (Area-2)

On December 15, 2004, GES personnel collected 25 shallow soil samples from the Area-2 Grid. Soil samples were collected by hand and transferred into labeled Ziplock ® bags. To limit possible lead exposure and cross-contamination while handling the soil, Nitrile gloves, changed between sample locations, were worn at all times. The XRF screening activities were conducted in the GES Patterson, New York office, as previously described.

The soil samples exhibiting the highest XRF screening results were transferred into the appropriate

laboratory supplied containers, stored on ice in a cooler and shipped to Spectrum for analysis of total metals, including lead, using EPA Method 200.7, TCLP by 1311 and SVOCs by 8270.

4.0 RESULTS

4.1 Cut and Fill Area

VOCs were not detected at concentrations above the NYSDEC Recommended Soil Cleanup Objective (RSCO) Technical Administrative Guidance Memorandum 4046 (TAGM) in any of the soil samples submitted for laboratory analysis from the cut and fill area.

The soil sample collected from GP-5 (4.5-5.5 ft bg) contained two individual SVOCs at concentrations above NYSDEC RSCO TAGM 4046 guidance values. Benzo(a)pyrene and benzo(b)fluoranthene were detected at 227 ug/kg and 201 ug/kg respectively; these concentrations are above the TAGM guidance values of 61 ug/kg (benzo(a)pyrene) and 110 ug/kg (benzo(b)fluoranthene). A summary of SVOC analysis is provided in **Table 1**.

The soil samples collected from GP-5 and GP-7 contained total lead at concentrations of 23.9 mg/kg and 6.43 mg/kg, respectively. Lead results for samples collected in the cut and fill area are below the expected average background for suburban areas. A summary of the lead results for the cut and fill area are provided in **Table 2** and **Figure 5**.

4.2 Background Samples

The laboratory analysis of the background soil samples indicated lead concentrations were consistent with the NYSDEC average for suburban areas with the exception of one sample. This sample, BG-6, located in the southeastern portion of the property contained a total lead concentration of 609 mg/kg.

In order to validate the concentration of lead reported in soil sample BG-6, six additional samples were collected in the vicinity of BG-6 and screened using the XRF machine. The average result of the screening was 102 mg/kg and one representative soil sample was submitted to Spectrum for total lead analysis. The laboratory analysis indicated a total lead concentration of 25.7 mg/kg. Averaging the combination of the laboratory results from the December 2003 investigation (B-1 through B-12, 16.5 mg/kg) in addition to the XRF and laboratory results from the December 2004 investigation (70 mg/kg and 138.16 mg/kg), yields a site specific background of 70.47 mg/kg. A summary of the background concentration screening and laboratory results are provided in **Table 3** and **Figure 4**.

4.3 Grid Sampling (Area-1)

4.3.1 December 2004

Extensive screening of soil samples for the presence of lead was completed using the XRF machine. A total of 566 shallow samples were collected from Grid Area-1 and screened to establish the horizontal extent of lead impact across the site. A distinct pattern developed across the grid with lower concentrations observed on the northern and southern bounds of the grid and higher concentrations towards the center and eastern wall of the property. Thirty-one of the shallow soil samples were selected for TCLP analysis of lead which analyzes the potential for the lead to become mobile. A

summary of the laboratory results are summarized on **Table 4**

A total of ten soil samples were selected randomly by the onsite GES personnel for analysis of SVOCs by EPA Method 8270. Five of the ten soil samples generally located along the southern area of the sampling grid, contained SVOCs at concentrations exceeding NYSDEC RSCO TAGM 4046 guidance values. The highest concentration was identified in soil sample L-27 and was identified as benzo(b)fluoranthene at a concentration of 99,000 ug/kg. A complete summary of the laboratory results are summarized on **Table 5**.

Twenty-one soil samples were collected from a depth of 1.5 ft bg to vertically delineate the lead impact. These samples were screened using the XRF machine and were submitted to Spectrum for analysis of total lead, TCLP. Select samples were also analyzed for the presence of SVOCs as described in the previous section and are summarized on **Table 5**.

Comparison of XRF screening results from the soil samples containing shot pellets reveal little variation between the sifted and non-sifted samples and are generally inconclusive. The laboratory results of the sifted and non-sifted samples are summarized on **Table 7**. The XRF screening and laboratory analysis of these samples did not indicate a clear correlation between lead concentrations in sifted samples verses lead concentrations in non-sifted samples which were known to contain shot pellets. Lead concentrations @ 0.5 feet and 1.5 feet are illustrated on **Figures 5** and **6**. Copies of the December 2004 Laboratory Reports are attached in **Appendix C**.

4.3.2 January 2005

Laboratory analysis of the soil samples collected January 21, 2005 from the southwestern portion of the grid indicated that the SVOC impact is limited to this area. Impact to soil is generally shallow, within the top 0.5 feet of soil, however, laboratory results indicate that some impact is present at 1.5 ft bg. The samples collected from 1.5 ft bg at locations K-1, I-27, O-1, O-9, O-11 and O-16 contained concentrations of individual SVOCs above NYSDEC RSCO TAGM 4046 guidance values. A summary of these results is provided in **Table 5** and **Figures 7** and **8**. Copies of the January 2005 Laboratory Reports are attached in **Appendix D**.

4.3.3 February 2005

Laboratory analysis of the soil samples collected on February 15, 2005 indicated the vertical delineation of lead concentrations in the shot fall area was complete. The laboratory data clearly defined a downward trend of total and TCLP lead concentrations with thirty-three of the fifty-three samples collected from 1.5 ft bg, exceeding 400 mg/kg. None of the twenty four soil samples collected from 2.5 ft bg exceeded 400 mg/kg with only four sample concentrations between 101 to 400 mg/kg and twenty of the twenty-four sample concentrations were between 0 to 100 mg/kg. One sample, A-12, collected from 3.5 ft bg exceeded 400 mg/kg, however, the lead concentration decreased significantly to less than 100 mg/kg at 4.0 ft bg. The results of the vertical delineation are illustrated on **Table 5** and **Figures 9** and **10**. Copies of the February 2005 Laboratory Reports are attached in **Appendix E**.

4.4 Grid Sampling (Area-2)

The XRF screening results indicate that the highest lead concentration in this portion of the site was 193 mg/kg, detected in sample location identified as B-2. Laboratory analysis of select soil samples

collected from the Grid Area-2 support the XRF screening results, with the highest lead concentration reported in the soil sample collected from B-2 at 237 mg/kg. The laboratory results indicated that further investigation of this area for lead impact was not warranted. A summary of the XRF screening results as well as the laboratory results are provided on **Table 8** and **Figure 11**.

Laboratory analysis of two soil samples collected from Grid Area-2 indicates the presence of several SVOC at concentrations above laboratory detection limits. Of the twelve compounds identified in the sample collected from the B-2 flag, four exceeded the NYSDEC RSCO TAGM 4046 guidance values including benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene and chrysene. A summary of these results is provided in **Table 9**. Copies of the December 2004 Laboratory Reports are attached in **Appendix C**.

5.0 CONCLUSIONS

1. The site specific background outside the area of expected shot fall was calculated at 70.47 mg/kg; this is below the NYSDEC average range of 200-500 mg/kg for suburban areas. The background concentration was determined by averaging the XRF screening and laboratory results of soil samples collected from outside the expected area of impact from the December 2003 and December 2004 investigations.

2. Soil samples collected during the investigation of the cut and fill area indicate that the native soil interface has not been impacted from the historical land use. The depth of the native soil layer varied across this area with the deepest observation at 17 ft bg (GP-8), along the eastern margin. The native boundary along the western margin was removed as part of the cut activities completed in the 1970's (GP-6, 7 and 10). SVOC concentrations were detected in one sample, GP-5, which is located in the northeast corner of the fill area. Lead concentrations detected in soil samples collected from the cut and fill area were well below the established average background for the site.

3. The Area-1 sampling results indicate a wide range of primarily lead impact is present within the top 1.5 feet of soil as a result of the historical land use. As indicated on **Figure 5** the horizontal limits of lead impact extends from the cut and fill area located on the western portion of the sampling grid, across to the stone wall separating the site from the NYCDEP property. The area of impact widens to a maximum width of approximately 540 feet along the eastern property boundary. The vertical limit of the lead impact extends from grade to approximately 1.5 ft bg in the area of expected shot fall. Cross sections were generated in select locations within the grid in order to illustrate vertical delineation of the lead-impacted soil, refer to **Figures 12 through 16**. The Remedial Action Plan (RAP) will discuss how the lead impacted soil will be removed from the property.

4. SVOCs were detected at concentrations above the NYSDEC RSCO TAGM 4046 guidance values along the southwestern portion of the grid from grade to approximately 1.5 ft bg. The source of these SVOCs could be attributed to historical dumping in the cut and fill area and the subsequent runoff during storm events. GES contacted the NYSDEC Spills hotline upon reviewing the SVOC results and Spill Number 04-11922 was assigned to the site. Data generated from the December 2004, January 2005 and

February 2005 investigations will guide the remediation process and the RAP will discuss how these impacts will be removed from the property. GES, on behalf of Suelain Realty, will maintain communication with the NYSDEC throughout this process.

5. The Area-2 sampling results indicate the presence of low level lead and SVOC concentrations in one sample located in this portion of the property. The horizontal and vertical delineation of impact were adequately defined and the impact can be attributed to the parking of vehicles in this area of the site over time and/or the proximity of this location to the road.

TABLES

Table 1

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of SVOCs (Cut and Fill Area) by SW846 8270C Collected December 2, 2004
Results in µg/kg

	Sample Identification										NYSDEC RSCO TAGM 4046 3/
	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	GP-10	
Depth (feet below grade)	13.5-14-5	7-8	2-3	5-10	4.5-5.5	0-5	0-5	17-18	7.5-8.5	1-2	
Analysis Parameter											
Acenaphthene	BDL 1/	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50,000
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	41,000
Benzo (a) anthracene	BDL	BDL	BDL	BDL	175	BDL	BDL	BDL	BDL	BDL	224
Benzo (a) pyrene	BDL	BDL	BDL	BDL	**227** 2/	BDL	BDL	BDL	BDL	BDL	61
Benzo (b) fluoranthene	BDL	BDL	BDL	BDL	201	BDL	BDL	BDL	BDL	BDL	1,100
Benzo (g,h,i) perylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50,000
Benzo (k) fluoranthene	BDL	BDL	BDL	BDL	293	BDL	BDL	BDL	BDL	BDL	1,100
Chrysene	BDL	BDL	BDL	BDL	280	BDL	BDL	BDL	BDL	BDL	400
Dibenzo (a,h) anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14
Fluoranthene	BDL	BDL	BDL	BDL	264	BDL	BDL	BDL	BDL	BDL	50,000
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50,000
Indeno (1,2,3-cd) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,200
1-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
2-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36,400
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13,000
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50,000
Pyrene	BDL	BDL	BDL	BDL	305	BDL	BDL	BDL	BDL	BDL	50,000

1/ BDL - Below detection limit
2/ Bold indicates concentration exceeds NYSDEC criteria
3/ NYSDEC Recommended Soil Cleanup Objective Technical and Administrative Guidance Memorandum

Table 2

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Total Lead Concentrations Using EPA Method 200.7 (Cut and Fill Area) Collected December 2, 2004 and January 4, 2005

Sample I.D.	Sample Depth (ft bg[1])	Lead Result (mg/kg[2])
GP-1	13.5-14.5	ND<1.55 [3]
GP-2	7-8	ND<1.54
GP-3	2-3	ND<1.97
GP-4	5-10	ND<2.86
GP-5	4.5-5.5	23.9
GP-6	0-5	ND<1.67
GP-7	0-5	6.43
GP-8	17-18	ND<1.66
GP-9	7.5-8.5	ND<1.48
GP-10	1-2	ND<1.99

1/ Feet below grade
2/ Milligrams per kilogram
3/ Less than the laboratory reporting limit

Table 3

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Site Specific Background Lead Concentrations

Sample I.D.	Date	Depth (ftbg) 1/	Total Lead (mg/kg) 2/	TCLP Lead (mg/l) 3/	Sample I.D.	Date	Depth (ftbg)	Total Lead (mg/kg)	TCLP Lead (mg/l)
BG-1	12/14/2004	0-1	34.1	BDL 4/	B-1	12/2/2003	0-2	BDL	NA
BG-2	12/14/2004	0-1	44.2	BDL	B-2	12/2/2003	0-2	6.13	NA
BG-3	12/14/2004	0-1	84.3	0.031	B-3	12/2/2003	0-2	BDL	NA
BG-4	12/14/2004	0-1	25.3	BDL	B-4	12/2/2003	0-2	BDL	NA
BG-5	12/14/2004	0-1	32.1	0.0156	B-5	12/3/2005	0-2	2.19	NA
BG-6	12/14/2004	0-1	609	0.712	B-6	12/3/2005	0-2	BDL	NA
BG-6 (X-1)	12/23/2004	0-1	NA 5/	NA	B-7	12/3/2005	0-2	7.39	NA
BG-6 (X-2)	12/23/2004	0-1	NA	NA	B-8	12/3/2005	0-2	BDL	NA
BG-6 (X-3)	12/23/2004	0-1	NA	NA	B-9	12/3/2005	0-2	BDL	NA
BG-6 (Y-1)	12/23/2004	0-1	NA	NA	B-10	12/3/2005	0-2	6.62	NA
BG-6 (Y-2)	12/23/2004	0-1	NA	NA	B-11	12/3/2005	0-2	3.96	NA
BG-6 (Y-3)	12/23/2004	0-1	25.7	BDL	B-12	12/3/2005	0-2	73.1	NA
NYSDEC Guidence Values			70.47 6/	5 7/	NYSDEC Guidence Values			70.47	5

1/ Feet below grade.
2/ Total Lead analysis by EPA Method 200.7, reported in milligrams per kilogram.
3/ Leachable Lead analysis by EPA Method 1311 & 6000/7000, reported in milligrams per liter.
4/ Below the laboratory detection limit.
5/ Not analyzed
6/ Established site background.
7/ NYSDEC Hazardous waste criteria.

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample ID	Sample Depth (feet)	Result (mg/kg 1/)		Sample ID	Sample Depth (feet)	Result (mg/kg)
A-1	0-1	344		A-21	0-1	2,152
	1.5	NS 2/			1.5	NS
A-2	0-1	690		A-22	0-1	2,403
	1.5	NS			1.5	NS
A-3	0-1	390		A-23	0-1	6,831
	1.5	NS			1.5	NS
A-4	0-1	520		A-24	0-1	3,440
	1.5	NS			1.5	NS
A-5	0-1	234		A-25	0-1	4,675
	1.5	NS			1.5	NS
A-6	0-1	3,961		A-26	0-1	2,730
	1.5	NS			1.5	NS
A-7	0-1	4,907		A-27	0-1	1,509
	1.5	NS			1.5	NS
A-8	0-1	3,265		A-28	0-1	1,130
	1.5	NS			1.5	NS
A-9	0-1	6,000		A-29	0-1	899
	1.5	NS			1.5	NS
A-10	0-1	5,103		A-30	0-1	1,123
	1.5	NS			1.5	NS
A-11	0-1	4,539		A-31	0-1	1,511
	1.5	NS			1.5	NS
A-12	0-1	10,336		A-32	0-1	456
	1.5	NS			1.5	NS
A-13	0-1	NS		A-33	0-1	441
	1.5	NS			1.5	NS
A-14	0-1	4,765		A-34	0-1	1,072
	1.5	NS			1.5	NS
A-15	0-1	14,918		A-35	0-1	993
	1.5	1,008			1.5	NS
A-16	0-1	9,807		A-36	0-1	977
	1.5	NS			1.5	NS
A-17	0-1	8,449		A-37	0-1	755
	1.5	NS			1.5	NS
A-18	0-1	5,048		A-38	0-1	173
	1.5	NS			1.5	NS
A-19	0-1	3,286		A-39	0-1	140
	1.5	NS			1.5	NS
A-20	0-1	3,201		A-40	0-1	125
	1.5	NS			1.5	72
				A-41	0-1	1,689
					1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample ID	Sample Depth (feet)	Result (mg/kg)		Sample ID	Sample Depth (feet)	Result (mg/kg)
B-1	0-1	160		B-21	0-1	112
	1.5	NS			1.5	NS
B-2	0-1	215		B-22	0-1	2,820
	1.5	NS			1.5	NS
B-3	0-1	281		B-23	0-1	758
	1.5	NS			1.5	NS
B-4	0-1	1,172		B-24	0-1	987
	1.5	NS			1.5	NS
B-5	0-1	1,771		B-25	0-1	840
	1.5	NS			1.5	NS
B-6	0-1	1,574		B-26	0-1	3,293
	1.5	NS			1.5	NS
B-7	0-1	2,189		B-27	0-1	712
	1.5	NS			1.5	NS
B-8	0-1	4,679		B-28	0-1	510
	1.5	NS			1.5	NS
B-9	0-1	2,184		B-29	0-1	626
	1.5	NS			1.5	NS
B-10	0-1	5,016		B-30	0-1	465
	1.5	NS			1.5	NS
B-11	0-1	4,879		B-31	0-1	634
	1.5	NS			1.5	NS
B-12	0-1	6,537		B-32	0-1	504
	1.5	NS			1.5	NS
B-13	0-1	4,645		B-33	0-1	278
	1.5	NS			1.5	NS
B-14	0-1	4,107		B-34	0-1	1,551
	1.5	NS			1.5	NS
B-15	0-1	9,957		B-35	0-1	727
	1.5	NS			1.5	NS
B-16	0-1	6,864		B-36	0-1	295
	1.5	NS			1.5	NS
B-17	0-1	17,587		B-37	0-1	218
	1.5	NS			1.5	NS
B-18	0-1	15,262		B-38	0-1	133
	1.5	NS			1.5	NS
B-19	0-1	10,129		B-39	0-1	89
	1.5	NS			1.5	NS
B-20	0-1	5,478		B-40	0-1	304
	1.5	NS			1.5	NS
				B-41	0-1	344
					1.5	55

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
C-1	0-1	260		C-21	0-1	5,584
	1.5	NS			1.5	NS
C-2	0-1	460		C-22	0-1	2,858
	1.5	NS			1.5	NS
C-3	0-1	164		C-23	0-1	2,444
	1.5	NS			1.5	NS
C-4	0-1	870		C-24	0-1	1,648
	1.5	NS			1.5	NS
C-5	0-1	4,207		C-25	0-1	1,407
	1.5	NS			1.5	NS
C-6	0-1	1,340		C-26	0-1	1,542
	1.5	NS			1.5	NS
C-7	0-1	3,032		C-27	0-1	1,050
	1.5	NS			1.5	NS
C-8	0-1	1,101		C-28	0-1	763
	1.5	NS			1.5	NS
C-9	0-1	2,886		C-29	0-1	975
	1.5	NS			1.5	NS
C-10	0-1	3,665		C-30	0-1	439
	1.5	NS			1.5	NS
C-11	0-1	4,140		C-31	0-1	708
	1.5	NS			1.5	NS
C-12	0-1	5,268		C-32	0-1	543
	1.5	NS			1.5	NS
C-13	0-1	8,610		C-33	0-1	708
	1.5	NS			1.5	NS
C-14	0-1	8,748		C-34	0-1	624
	1.5	NS			1.5	NS
C-15	0-1	6,814		C-35	0-1	443
	1.5	NS			1.5	NS
C-16	0-1	8,694		C-36	0-1	527
	1.5	NS			1.5	NS
C-17	0-1	11,345		C-37	0-1	321
	1.5	505			1.5	NS
C-18	0-1	3,742		C-38	0-1	142
	1.5	NS			1.5	NS
C-19	0-1	2,230		C-39	0-1	717
	1.5	NS			1.5	NS
C-20	0-1	633		C-40	0-1	394
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
D-1	0-1	645		D-22	0-1	2,833
	1.5	NS			1.5	NS
D-2	0-1	594		D-23	0-1	1,483
	1.5	NS			1.5	NS
D-3	0-1	967		D-24	0-1	1159
	1.5	NS			1.5	NS
D-4	0-1	1,762		D-25	0-1	980
	1.5	NS			1.5	NS
D-5	0-1	3,604		D-26	0-1	773
	1.5	NS			1.5	NS
D-6	0-1	2,532		D-27	0-1	922
	1.5	NS			1.5	NS
D-7	0-1	2,361		D-28	0-1	350
	1.5	NS			1.5	NS
D-8	0-1	3,863		D-29	0-1	792
	1.5	NS			1.5	NS
D-9	0-1	2,623		D-30	0-1	711
	1.5	NS			1.5	NS
D-10	0-1	2,960		D-31	0-1	1,120
	1.5	NS			1.5	NS
D-11	0-1	2,651		D-32	0-1	1,252
	1.5	NS			1.5	NS
D-12	0-1	3,023		D-33	0-1	503
	1.5	NS			1.5	NS
D-13	0-1	5,848		D-34	0-1	43
	1.5	NS			1.5	NS
D-14	0-1	4,059		D-35	0-1	228
	1.5	NS			1.5	NS
D-15	0-1	4,358		D-36	0-1	164
	1.5	NS			1.5	47
D-16	0-1	5,473		D-37	0-1	179
	1.5	NS			1.5	NS
D-17	0-1	6,020		D-38	0-1	615
	1.5	NS			1.5	NS
D-18	0-1	5,811		D-39	0-1	268
	1.5	NS			1.5	NS
D-19	0-1	6,053		D-40	0-1	441
	1.5	NS			1.5	NS
D-20	0-1	8,284		D-41	0-1	549
	1.5	NS			1.5	NS
D-21	0-1	3,436		D-North Wall	0-1	445
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
E-1	0-1	1,099		E-21	0-1	2,864
	1.5	NS			1.5	NS
E-2	0-1	1,393		E-22	0-1	2,054
	1.5	NS			1.5	NS
E-3	0-1	968		E-23	0-1	3,240
	1.5	NS			1.5	NS
E-4	0-1	864		E-24	0-1	832
	1.5	NS			1.5	NS
E-5	0-1	1,515		E-25	0-1	545
	1.5	NS			1.5	NS
E-6	0-1	2,126		E-26	0-1	853
	1.5	NS			1.5	NS
E-7	0-1	2,013		E-27	0-1	928
	1.5	NS			1.5	NS
E-8	0-1	1,811		E-28	0-1	428
	1.5	NS			1.5	NS
E-9	0-1	3,960		E-29	0-1	619
	1.5	NS			1.5	NS
E-10	0-1	2,747		E-30	0-1	539
	1.5	NS			1.5	NS
E-11	0-1	3,578		E-31	0-1	504
	1.5	NS			1.5	NS
E-12	0-1	2,168		E-32	0-1	355
	1.5	NS			1.5	NS
E-13	0-1	2,604		E-33	0-1	211
	1.5	NS			1.5	NS
E-14	0-1	5,130		E-34	0-1	123
	1.5	NS			1.5	NS
E-15	0-1	7,108		E-35	0-1	726
	1.5	NS			1.5	NS
E-16	0-1	3,853		E-36	0-1	289
	1.5	NS			1.5	NS
E-17	0-1	5,490		E-37	0-1	494
	1.5	NS			1.5	NS
E-18	0-1	7,295		E-38	0-1	813
	1.5	NS			1.5	NS
E-19	0-1	35,798		E-39	0-1	394
	1.5	1,280			1.5	NS
E-20	0-1	6,059		E-40	0-1	120
	1.5	NS			1.5	39
				E-North Wall	0-1	325
					1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
F-1	0-1	545		F-21	0-1	2,551
	1.5	NS			1.5	NS
F-2	0-1	1,086		F-22	0-1	2,043
	1.5	NS			1.5	NS
F-3	0-1	868		F-23	0-1	1,077
	1.5	NS			1.5	NS
F-4	0-1	1,126		F-24	0-1	1,191
	1.5	NS			1.5	NS
F-5	0-1	3,236		F-25	0-1	345
	1.5	NS			1.5	NS
F-6	0-1	2,946		F-26	0-1	690
	1.5	NS			1.5	NS
F-7	0-1	2,325		F-27	0-1	585
	1.5	NS			1.5	NS
F-8	0-1	1,135		F-28	0-1	402
	1.5	NS			1.5	NS
F-9	0-1	1,802		F-29	0-1	531
	1.5	NS			1.5	NS
F-10	0-1	3,350		F-30	0-1	519
	1.5	NS			1.5	NS
F-11	0-1	2,970		F-31	0-1	507
	1.5	NS			1.5	NS
F-12	0-1	2,756		F-32	0-1	146
	1.5	NS			1.5	NS
F-13	0-1	3,888		F-33	0-1	458
	1.5	NS			1.5	NS
F-14	0-1	2,070		F-34	0-1	403
	1.5	NS			1.5	48
F-15	0-1	2,383		F-35	0-1	146
	1.5	NS			1.5	NS
F-16	0-1	4,416		F-36	0-1	458
	1.5	NS			1.5	NS
F-17	0-1	3,924		F-37	0-1	403
	1.5	NS			1.5	NS
F-18	0-1	10,405		F-38	0-1	307
	1.5	562			1.5	NS
F-19	0-1	NS		F-39	0-1	315
	1.5	NS			1.5	NS
F-20	0-1	2,290		F-40	0-1	465
	1.5	NS			1.5	NS
				F-North Wall	0-1	141
					1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
G-1	0-1	545		G-21	0-1	2,043
	1.5	NS			1.5	NS
G-2	0-1	1,086		G-22	0-1	1,077
	1.5	NS			1.5	NS
G-3	0-1	868		G-23	0-1	1191
	1.5	NS			1.5	NS
G-4	0-1	1,126		G-24	0-1	345
	1.5	NS			1.5	NS
G-5	0-1	3,236		G-25	0-1	690
	1.5	NS			1.5	NS
G-6	0-1	2,946		G-26	0-1	585
	1.5	NS			1.5	NS
G-7	0-1	2,325		G-27	0-1	392
	1.5	NS			1.5	NS
G-8	0-1	1,135		G-28	0-1	531
	1.5	NS			1.5	NS
G-9	0-1	1,802		G-29	0-1	519
	1.5	NS			1.5	NS
G-10	0-1	3,350		G-30	0-1	173
	1.5	NS			1.5	NS
G-11	0-1	2,970		G-31	0-1	146
	1.5	NS			1.5	NS
G-12	0-1	2,756		G-32	0-1	458
	1.5	NS			1.5	NS
G-13	0-1	3,888		G-33	0-1	344
	1.5	NS			1.5	NS
G-14	1.5	2,070		G-34	0-1	317
	1.5	NS			1.5	NS
G-15	0-1	2,383		G-35	0-1	465
	1.5	NS			1.5	NS
G-16	0-1	4,416		G-36	0-1	343
	1.5	NS			1.5	NS
G-17	0-1	10,405		G-37	0-1	834
	1.5	NS			1.5	NS
G-18	0-1	4,547		G-38	0-1	903
	1.5	NS			1.5	NS
G-19	0-1	2,290		G-39	0-1	87
	1.5	NS			1.5	38
G-20	0-1	2,551		G-North Wall	0-1	102
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
O-1	0-1	91		O-13	0-1	68
	1.5	NS			1.5	41
O-2	0-1	80		O-14	0-1	339
	1.5	NS			1.5	NS
O-3	0-1	83		O-15	0-1	565
	1.5	NS			1.5	NS
O-4	0-1	139		O-16	0-1	786
	1.5	NS			1.5	NS
O-5	0-1	216		O-17	0-1	1,936
	1.5	NS			1.5	NS
O-6	0-1	155		O-18	0-1	1,142
	1.5	NS			1.5	NS
O-7	0-1	212		O-19	0-1	876
	1.5	NS			1.5	NS
O-8	0-1	218		O-20	0-1	657
	1.5	NS			1.5	NS
O-9	0-1	154		O-21	0-1	180
	1.5	NS			1.5	NS
O-10	0-1	601		O-22	0-1	NS
	1.5	NS			1.5	NS
O-11	0-1	132		O-23	0-1	745
	1.5	162			1.5	NS
O-12	0-1	93		O-24	0-1	235
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
H-1	0-1	477		H-21	0-1	2,252
	1.5	NS			1.5	NS
H-2	0-1	236		H-22	0-1	2,607
	1.5	NS			1.5	NS
H-3	0-1	333		H-23	0-1	1,121
	1.5	NS			1.5	NS
H-4	0-1	161		H-24	0-1	821
	1.5	NS			1.5	NS
H-5	0-1	462		H-25	0-1	593
	1.5	NS			1.5	NS
H-6	1.5	298		H-26	0-1	333
	1.5	NS			1.5	NS
H-7	0-1	460		H-27	0-1	1,064
	1.5	NS			1.5	NS
H-8	0-1	2,050		H-28	0-1	534
	1.5	NS			1.5	NS
H-9	0-1	956		H-29	0-1	668
	1.5	NS			1.5	NS
H-10	0-1	2,966		H-30	0-1	192
	1.5	NS			1.5	NS
H-11	0-1	2,995		H-31	0-1	189
	1.5	NS			1.5	NS
H-12	0-1	6,900		H-32	0-1	303
	1.5	NS			1.5	74
H-13	0-1	8,059		H-33	0-1	652
	1.5	NS			1.5	NS
H-14	0-1	9,497		H-34	0-1	208
	1.5	NS			1.5	NS
H-15	0-1	9,909		H-35	0-1	867
	1.5	1,353			1.5	NS
H-16	0-1	7,314		H-36	0-1	259
	1.5	NS			1.5	NS
H-17	0-1	3,975		H-37	0-1	258
	1.5	NS			1.5	NS
H-18	0-1	NS		H-38	0-1	195
	1.5	NS			1.5	93
H-19	0-1	4,006		H-North Wall	0-1	85
	1.5	NS			1.5	NS
H-20	0-1	1,471				
	1.5	NS				

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
I-1	0-1	201		I-20	0-1	1,806
	1.5	NS			1.5	NS
I-2	0-1	233		I-21	0-1	1,346
	1.5	NS			1.5	NS
I-3	0-1	164		I-22	0-1	839
	1.5	NS			1.5	NS
I-4	0-1	274		I-23	0-1	712
	1.5	NS			1.5	NS
I-5	0-1	287		I-24	0-1	532
	1.5	NS			1.5	NS
I-6	0-1	221		I-25	0-1	558
	1.5	NS			1.5	NS
I-7	0-1	555		I-26	0-1	702
	1.5	NS			1.5	NS
I-8	0-1	514		I-27	0-1	553
	1.5	NS			1.5	NS
I-9	0-1	958		I-28	0-1	559
	1.5	NS			1.5	NS
I-10	0-1	1,070		I-29	0-1	350
	1.5	NS			1.5	NS
I-11	0-1	3,756		I-30	0-1	266
	1.5	NS			1.5	NS
I-12	0-1	2,515		I-31	0-1	114
	1.5	NS			1.5	NS
I-13	0-1	5,365		I-32	0-1	491
	1.5	NS			1.5	NS
I-14	0-1	4,408		I-33	0-1	311
	1.5	NS			1.5	NS
I-15	0-1	8,022		I-34	0-1	377
	1.5	NS			1.5	NS
I-16	0-1	4,347		I-35	0-1	162
	1.5	NS			1.5	NS
I-17	0-1	2,665		I-36	0-1	149
	1.5	NS			1.5	NS
I-18	0-1	2,610		I-North Wall	0-1	97
	1.5	NS			1.5	NS
I-19	0-1	938				
	1.5	NS				

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
J-1	0-1	139		J-20	0-1	7,412
	1.5	NS			1.5	NS
J-2	0-1	172		J-21	0-1	647
	1.5	NS			1.5	NS
J-3	0-1	238		J-22	0-1	996
	1.5	NS			1.5	NS
J-4	0-1	322		J-23	0-1	895
	1.5	NS			1.5	NS
J-5	0-1	330		J-24	0-1	262
	1.5	NS			1.5	NS
J-6	0-1	176		J-25	0-1	214
	1.5	NS			1.5	NS
J-7	0-1	192		J-26	0-1	1,015
	1.5	NS			1.5	NS
J-8	0-1	609		J-27	0-1	822
	1.5	NS			1.5	NS
J-9	0-1	722		J-28	0-1	584
	1.5	NS			1.5	NS
J-10	0-1	1,035		J-29	0-1	165
	1.5	NS			1.5	NS
J-11	0-1	1,645		J-30	0-1	167
	1.5	NS			1.5	NS
J-12	0-1	1,970		J-31	0-1	218
	1.5	NS			1.5	44
J-13	0-1	1,513		J-32	0-1	529
	1.5	NS			1.5	NS
J-14	0-1	4,252		J-33	0-1	541
	1.5	NS			1.5	NS
J-15	0-1	2,833		J-34	0-1	238
	1.5	NS			1.5	NS
J-16	0-1	4,347		J-35	0-1	422
	1.5	NS			1.5	NS
J-17	0-1	2,649		J-36	0-1	216
	1.5	NS			1.5	117
J-18	0-1	1,658		J-North Wall	0-1	136
	1.5	NS			1.5	NS
J-19	0-1	1,567				
	1.5	NS				

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample ID	Sample Depth (feet)	Result (mg/kg)		Sample ID	Sample Depth (feet)	Result (mg/kg)
K-1	0-1	208		K-20	0-1	803
	1.5	NS			1.5	NS
K-2	0-1	260		K-21	0-1	537
	1.5	NS			1.5	NS
K-3	0-1	184		K-22	0-1	461
	1.5	NS			1.5	NS
K-4	0-1	253		K-23	0-1	287
	1.5	NS			1.5	NS
K-5	0-1	193		K-24	0-1	NS
	1.5	NS			1.5	NS
K-6	0-1	NS		K-25	0-1	235
	1.5	NS			1.5	NS
K-7	0-1	109		K-26	0-1	155
	1.5	NS			1.5	NS
K-8	0-1	528		K-27	0-1	582
	1.5	NS			1.5	NS
K-9	0-1	608		K-28	0-1	3,834
	1.5	NS			1.5	NS
K-10	0-1	1,023		K-29	0-1	307
	1.5	NS			1.5	NS
K-11	0-1	1,008		K-30	0-1	116
	1.5	NS			1.5	NS
K-12	0-1	1,206		K-31	0-1	150
	1.5	NS			1.5	NS
K-13	0-1	NS		K-32	0-1	150
	1.5	NS			1.5	NS
K-14	0-1	1,526		K-33	0-1	657
	1.5	NS			1.5	NS
K-15	0-1	997		K-34	0-1	574
	1.5	NS			1.5	NS
K-16	0-1	1,880		K-35	0-1	495
	1.5	NS			1.5	NS
K-17	0-1	3,599		K-36	0-1	188
	1.5	NS			1.5	NS
K-18	0-1	9,384		K-37	0-1	295
	1.5	78			1.5	NS
K-19	0-1	2,406		K-North Wall	0-1	92
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample ID	Sample Depth (feet)	Result (mg/kg) 1/		Sample ID	Sample Depth (feet)	Result (mg/kg) 1/
L-1	0-1	123		L-19	0-1	1,620
	1.5	NS			1.5	NS
L-2	0-1	80		L-20	0-1	NS
	1.5	NS			1.5	NS
L-3	0-1	228		L-21	0-1	313
	1.5	NS			1.5	NS
L-4	0-1	234		L-22	0-1	250
	1.5	NS			1.5	NS
L-5	0-1	185		L-23	0-1	365
	1.5	NS			1.5	NS
L-6	0-1	200		L-24	0-1	531
	1.5	NS			1.5	NS
L-7	0-1	109		L-25	0-1	304
	1.5	NS			1.5	NS
L-8	0-1	325		L-26	0-1	2,367
	1.5	NS			1.5	NS
L-9	0-1	266		L-27	0-1	137
	1.5	NS			1.5	NS
L-10	0-1	878		L-28	0-1	132
	1.5	NS			1.5	NS
L-11	0-1	1,129		L-29	0-1	112
	1.5	NS			1.5	41
L-12	0-1	868		L-30	0-1	2,071
	1.5	NS			1.5	NS
L-13	0-1	NS		L-31	0-1	1,040
	1.5	NS			1.5	NS
L-14	0-1	NS		L-32	0-1	1,299
	1.5	NS			1.5	NS
L-15	0-1	1,130		L-33	0-1	530
	1.5	NS			1.5	NS
L-16	0-1	788		L-34	0-1	401
	1.5	NS			1.5	NS
L-17	0-1	NS		L-35	0-1	215
	1.5	NS			1.5	47
L-18	0-1	3,470		L-North Wall	0-1	69
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
M-1	0-1	164		M-19	0-1	756
	1.5	NS			1.5	NS
M-2	0-1	200		M-20	0-1	449
	1.5	NS			1.5	NS
M-3	0-1	163		M-21	0-1	603
	1.5	NS			1.5	NS
M-4	0-1	151		M-22	0-1	297
	1.5	NS			1.5	NS
M-5	0-1	182		M-23	0-1	282
	1.5	NS			1.5	NS
M-6	0-1	175		M-24	0-1	275
	1.5	NS			1.5	NS
M-7	0-1	172		M-25	0-1	250
	1.5	NS			1.5	NS
M-8	0-1	319		M-26	0-1	39
	1.5	NS			1.5	NS
M-9	0-1	182		M-27	0-1	NS
	1.5	NS			1.5	NS
M-10	0-1	NS		M-28	0-1	NS
	1.5	NS			1.5	NS
M-11	0-1	319		M-29	0-1	1,034
	1.5	NS			1.5	NS
M-12	0-1	309		M-30	0-1	763
	1.5	NS			1.5	NS
M-13	0-1	1,146		M-31	0-1	628
	1.5	NS			1.5	NS
M-14	0-1	410		M-32	0-1	1,200
	1.5	NS			1.5	NS
M-15	0-1	1,616		M-33	0-1	747
	1.5	NS			1.5	NS
M-16	0-1	2,842		M-34	0-1	256
	1.5	NS			1.5	NS
M-17	0-1	2,752		M-35	0-1	262
	1.5	NS			1.5	NS
M-18	0-1	516		M-North Wall	0-1	67
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 4
Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of XRF Screening Results December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)		Sample I.D.	Sample Depth (feet)	Result (mg/kg)
N-1	0-1	122		N-18	0-1	1,566
	1.5	NS			1.5	NS
N-2	0-1	150		N-19	0-1	386
	1.5	NS			1.5	NS
N-3	0-1	156		N-20	0-1	337
	1.5	NS			1.5	NS
N-4	0-1	194		N-21	0-1	210
	1.5	NS			1.5	NS
N-5	1.5	138		N-22	0-1	57
	1.5	NS			1.5	NS
N-6	0-1	163		N-23	0-1	159
	1.5	NS			1.5	NS
N-7	0-1	194		N-24	0-1	129
	1.5	NS			1.5	NS
N-8	0-1	318		N-25	0-1	108
	1.5	NS			1.5	NS
N-9	0-1	421		N-26	0-1	NS
	1.5	NS			1.5	NS
N-10	0-1	205		N-27	0-1	248
	1.5	NS			1.5	NS
N-11	0-1	319		N-28	0-1	170
	1.5	NS			1.5	NS
N-12	0-1	312		N-29	0-1	766
	1.5	NS			1.5	NS
N-13	0-1	400		N-30	0-1	1,279
	1.5	NS			1.5	NS
N-14	0-1	604		N-31	0-1	821
	1.5	NS			1.5	NS
N-15	0-1	1,286		N-32	0-1	535
	1.5	NS			1.5	NS
N-16	0-1	1,447		N-33	0-1	329
	1.5	NS			1.5	105
N-17	0-1	1,753		N-North Wall	0-1	125
	1.5	NS			1.5	NS

1/ Milligrams per kilgram
2/ Not sampled

Table 5

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of SVOCs (Area-1 Soil Samples) by SW846 8270C
Results in µg/kg

	A-37	A-40	C-26	E- SW	E- SW	F-18	G-1	G-1	G-39	H-SW	H-SW	H-32	H-32	H-38	I-27	K-SW	K-SW	K-1	K-1	K-28	NYSDEC RSCO TAGM 4046 1/
	12/16/2004	12/16/2004	12/14/2004	1/21/2005	1/21/2005	12/14/2004	1/21/2005	1/21/2005	12/23/2004	1/21/2005	1/21/2005	12/15/2004	1/21/2005	12/23/2004	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	12/15/2004	
Depth (feet)	0.5	0.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	
Parameter																					
Acenaphthene	BDL 2/	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,160	BDL	2,650	BDL	BDL	50,000
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	41,000
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,160	BDL	3,540	BDL	BDL	50,000
Benzo (a) anthracene	BDL	BDL	BDL	BDL	BDL	BDL	**248** 3/	BDL	BDL	BDL	BDL	513	BDL	BDL	268	14,000	BDL	37,400	837	BDL	224
Benzo (a) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	239	BDL	BDL	BDL	BDL	798	BDL	BDL	283	21,000	BDL	38,500	1,040	BDL	61
Benzo (b) fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	235	BDL	BDL	BDL	BDL	935	BDL	BDL	236	16,100	BDL	39,900	948	BDL	1,100
Benzo (g,h,i) perylene	BDL	BDL	BDL	BDL	BDL	BDL	186	BDL	BDL	BDL	BDL	503	BDL	BDL	192	15,100	BDL	23,400	680	BDL	50,000
Benzo (k) fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	190	BDL	BDL	BDL	BDL	337	BDL	BDL	241	16,700	BDL	22,600	840	BDL	1,100
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	261	BDL	BDL	BDL	BDL	647	BDL	BDL	407	14,300	BDL	50,600	989	BDL	400
Dibenzo (a,h) anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5,040	BDL	6,570	192	BDL	14
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	246	BDL	BDL	BDL	BDL	558	BDL	BDL	190	16,800	BDL	33,500	989	BDL	50,000
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	805	BDL	1,600	BDL	BDL	50,000
Indeno (1,2,3-cd) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	447	BDL	BDL	BDL	13,300	BDL	18,400	552	BDL	3,200
1-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
2-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	455	BDL	1,260	BDL	BDL	36,400
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13,000
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	210	BDL	BDL	BDL	6,850	BDL	13,900	244	BDL	50,000
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	212	BDL	BDL	BDL	BDL	495	BDL	BDL	181	12,400	BDL	27,700	808	BDL	50,000

1/ NYSDEC Recommended Soil Cleanup Objective Technical Administrative Guidance Memorandum

2/ Indicates concentration is below the detection limit

3/ Bold indicates concentration exceeds the NYSDEC RSCO TAGM value

Table 5 (cont.)

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of SVOCs (Area-1 Soil Samples) by SW846 8270C
Results in µg/kg

	L-27	L-28	L-28	N-SW	N-SW	N-12	N-12	O-SW	O-SW	O-1	O-1	O-9	O-9	O-11	O-11	O-13	O-13	O-16	O-16	NYSDEC RSCO TAGM 4046 1/
	12/15/2004	12/15/2004	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	1/21/2005	12/16/2004	1/21/2005	12/16/2004	1/21/2005	1/21/2005	1/21/2005	
Depth (feet)	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	
Parameter																				
Acenaphthene	4,820	405	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,120	2,150	1,440	1,810	BDL	BDL	2,570	BDL	50,000
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	41,000
Anthracene	6,010	602	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,240	3,960	2,900	4,380	BDL	BDL	3,750	BDL	50,000
Benzo (a) anthracene	79,600	5,120	BDL	941	BDL	489	BDL	BDL	BDL	BDL	362	27,200	34,600	24,700	25,300	1,400	BDL	39,400	1,190	224
Benzo (a) pyrene	82,200	7,210	BDL	1,140	BDL	637	BDL	BDL	BDL	BDL	475	34,800	47,000	28,400	31,500	2,080	BDL	55,400	1,580	61
Benzo (b) fluoranthene	99,000	7,670	BDL	1,050	BDL	604	BDL	BDL	BDL	BDL	392	34,800	40,000	38,800	32,100	2,520	BDL	50,000	1,250	1,100
Benzo (g,h,i) perylene	54,700	4,510	BDL	835	BDL	480	BDL	BDL	BDL	BDL	347	24,100	32,600	19,600	23,400	1,390	BDL	38,900	1,160	50,000
Benzo (k) fluoranthene	37,000	3,100	BDL	914	BDL	480	BDL	BDL	BDL	BDL	412	25,100	38,100	9,870	20,700	832	BDL	44,800	1,330	1,100
Chrysene	53,100	6,440	BDL	1,060	BDL	601	BDL	BDL	BDL	BDL	441	30,900	38,800	23,100	26,500	1,590	BDL	47,300	1,410	400
Dibenzo (a,h) anthracene	BDL	BDL	BDL	231	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7,070	10,200	BDL	6,490	BDL	BDL	11,700	344	14
Fluoranthene	65,400	5,260	BDL	1,330	BDL	672	BDL	BDL	BDL	BDL	443	36,900	48,700	33,200	43,700	1,470	BDL	52,100	1,810	50,000
Fluorene	2,730	229	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	930	567	815	BRL	BDL	1,060	BDL	50,000
Indeno (1,2,3-cd) pyrene	54,600	4,110	BDL	670	BDL	378	BDL	BDL	BDL	BDL	288	20,300	28,400	18,000	18,800	1,270	BDL	34,000	952	3,200
1-Methylnaphthalene	903	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
2-Methylnaphthalene	1,620	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36,400
Naphthalene	672	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13,000
Phenanthrene	21,800	2,130	BDL	429	BDL	245	BDL	BDL	BDL	BDL	216	9,730	14,200	11,800	16,800	647	BDL	13,200	553	50,000
Pyrene	66,700	4,440	BRL	1,050	BDL	540	BDL	BDL	BDL	BDL	341	28,500	37,400	26,800	29,800	1,170	BDL	40,100	1,230	50,000

1/ NYSDEC Recommended Soil Cleanup Objective Technical Administrative Guidance Memorandum

2/ Indicates concentration is below the reporting limit of the laboratory

3/ Bold indicates concentration exceeds the NYSDEC RSCO TAGM value

Table 6

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Lead Concentrations (Area-1 Sample Grid)

Sample I.D.	Date	Depth (ft)[1]	Total Lead (mg/kg)[2]	TCLP Lead (mg/l)[3]
A-12	2/15/2005	3	1,290	**12.3**[4]
	2/15/2005	4	79.1	0.206
A-14	1/21/2005	1.5	615	**45**
A-15	12/14/2004	0-1	64,700	**596**
	12/29/2004	1.5	1,550	**77.4**
	1/21/2005	2.5	66.4	0.17
A-16	1/21/2005	1.5	2,520	**15.7**
A-23	2/15/2005	2.5	4.95	0.0076
	2/15/2005	3.5	6.59	BDL[5]
A-37	12/16/2004	0-1	1,690	0.62
A-40	12/16/2004	0-1	158	0.056
	12/29/2004	1.5	56.7	0.166
B-10	2/15/2005	2.5	52	0.145
	2/15/2005	3.5	6.63	BDL
B-13	1/21/2005	1.5	1,650	**38.4**
B-14	1/21/2005	1.5	5,130	**6.78**
B-15	1/21/2005	1.5	2,810	**102**
B-16	1/21/2005	1.5	2,010	**69.4**
B-17	1/21/2005	1.5	2,140	**98.2**
	2/15/2005	2.5	8.15	BDL
	2/15/2005	3.5	17	BDL
B-18	1/21/2005	1.5	1,350	**72.4**
B-19	1/21/2005	1.5	2,220	**9.34**
	2/15/2005	2.5	23.4	0.0618
	2/15/2005	3.5	BDL	BDL
B-39	12/16/2004	0-1	71.6	0.0508
B-41	12/23/2004	0-1	279	0.668
	12/29/2004	1.5	8.71	0.024
C-7	1/21/2005	1.5	444	2.92
C-12	1/21/2005	1.5	2,900	**49.8**
C-13	12/14/2004	0-1	26,500	**170**
	2/15/2005	2.5	5.2	0.0142
	2/15/2005	3.5	BDL	0.0075
C-14	1/21/2005	1.5	552	**45**
NYSDEC Guidance Values			70.47[6]	5[7]

1/ Feet below grade

2/ Total Lead analysis by EPA Method 200.7, reported in milligrams per kilogram

3/ Leachable Lead analysis by EPA Method 1311 & 6000/7000, reported in milligrams per liter

4/ **BOLD** indicates that the concentration exceeds the NYSDEC Hazardous Waste Criteria

5/ Below laboratory detection limit

6/ This is the average site background

7/ Hazardous waste regulatory levels for toxicity characteristics

Table 6 (cont.)

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Lead Concentrations (Area-1 Sample Grid)

Sample ID	Date	ft bgs	(mg/kg)	TCLP Lead (mg/l)
C-17	1.21/2002	1.5	796	**5.83**
	2/15/2005	2.5	BDL	BDL
	2/15/2005	3.5	3.31	BDL
C-21	2/15/2005	2.5	37.4	0.756
	2/15/2005	3.5	7.28	BDL
C-25	1/21/2005	1.5	136	0.54
C-26	12/14/2004	0-1	31,800	2.80
D-12	1/21/2005	1.5	1,480	**12.9**
	2/15/2005	2.5	BDL	BDL
	2/15/2005	3.5	6.57	BDL
D-13	1/21/2005	1.5	1,290	**9.77**
D-14	1/21/2005	1.5	3,530	**20**
D-20	2/15/2005	2.5	17	BDL
	2/15/2005	3.5	11.2	BDL
D-33	12/16/2004	0-1	578	0.699
D-36	12/29/2004	1.5	8.81	0.0228
E-14	2/15/2005	2.5	10.1	0.0502
	2/15/2005	3.5	BDL	BDL
E-17	1/21/2005	1.5	2,270	**21.5**
E-19	12/14/2004	0-1	77,100	**332**
	1/21/2005	1.5	2,500	**49.8**
	2/15/2005	2.5	6.29	BDL
	2/15/2005	3.5	6.25	BDL
E-34	12/14/2004	0-1	1,040	0.239
E-40	12/23/2004	0-1	378	0.239
	12/29/2004	1.5	11.8	0.03
F-17	1/21/2005	1.5	4,300	**14**
F-18	12/14/2004	0-1	28,400	**135**
	12/29/2004	1.5	656	4.38
	1/21/2005	2.5	295	4.02
F-20	1/21/2005	1.5	397	2.66
NYSDEC Guidance Values			70.47	5

1/ Feet below grade

2/ Total Lead analysis by EPA Method 200.7, reported in milligrams per kilogram

3/ Leachable Lead analysis by EPA Method 1311 & 6000/7000, reported in milligrams per liter

4/ BOLD indicates that the concentration exceeds the NYSDEC Hazardous Waste Criteria

5/ Below laboratory detection limit

6/ This is the average site background

7/ Hazardous waste regulatory levels for toxicity characteristics

Table 6 (cont.)

Suclain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Lead Concentrations (Area-1 Sample Grid)

Sample I.D.	Date	Depth (ft)	Total Lead (mg/kg)	TCLP Lead (mg/l)
F-34	12/29/2004	1.5	51.2	0.017
G-9	12/14/2004	0-1	4,680	**16.7**
	1/21/2005	1.5	2,410	**6.44**
	2/15/2005	2.5	11.7	0.0192
	2/15/2005	3.5	5.97	BDL
G-17	1/21/2005	1.5	3,730	**35.8**
	2/15/2005	2.5	BDL	BDL
	2/15/2005	3.5	5.32	BDL
G-18	1/21/2005	1.5	925	**6.54**
G-19	1/21/2005	1.5	1,940	**25.6**
G-23	1/21/2005	1.5	378	1.9
G-29	12/14/2004	0-1	433	0.343
G-39	12/23/2004	0-1	201	0.262
	12/29/2004	1.5	5.92	BDL
H-13	2/15/2005	2.5	3.86	0.0314
	2/15/2005	3.5	BDL	BDL
H-15	12/29/2004	1.5	1,770	**7.72**
H-22	2/15/2005	2.5	14.3	BDL
	2/15/2005	3.5	10	BDL
H-32	12/15/2004	0-1	366	4.5
	12/29/2004	1.5	37.5	0.0242
H-38	12/23/2004	0-1	279	0.191
	12/29/2004	1.5	66.8	0.0218
I-17	12/15/2004	0-1	3,500	**54.8**
	2/15/2005	2.5	4.59	BDL
	2/15/2005	3.5	9.19	BDL
J-12	1/21/2005	1.5	145	0.37
J-14	2/15/2005	2.5	7.7	0.027
	2/15/2005	3.5	4.35	BDL
J-17	1/21/2005	1.5	1,700	**38.8**
J-18	1/21/2005	1.5	814	2.38
J-19	1/21/2005	1.5	2,710	4.52
NYSDEC Guidance Values			70.47	5

1/ Feet below grade

2/ Total Lead analysis by EPA Method 200.7, reported in milligrams per kilogram

3/ Leachable Lead analysis by EPA Method 1311 & 6000/7000, reported in milligrams per liter

4/ **BOLD** indicates that the concentration exceeds the NYSDEC Hazardous Waste Criteria

5/ Below laboratory detection limit

6/ This is the average site background

7/ Hazardous waste regulatory levels for toxicity characteristics

Table 6 (cont.)

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Lead Concentrations (Area-1 Sample Grid)

J-20	2/15/2005	2.5	4.91	BDL
	2/15/2005	3.5	3.61	BDL
J-31	12/15/2004	0-1	256	0.198
	12/29/2004	1.5	3.27	BDL
J-36	12/23/2004	0-1	341	0.212
	12/29/2004	1.5	61.6	0.0632
K-17	1/21/2005	1.5	429	2.64
K-18	12/15/2004	0-1	27,800	**10.1**
	12/29/2004	1.5	751	**9.84**
	1/21/2005	2.5	198	0.85
K-19	1/21/2005	1.5	109	0.499
K-28	12/15/2004	0-1	13,900	**8.4**
	1/21/2005	1.5	870	2.41
	1/21/2005	2.5	125	0.822
L-18	1/21/2005	1.5	141	0.914
L-19	1/21/2005	1.5	364	1.42
L-27	12/15/2004	0-1	233	0.0482
L-28	12/15/2004	0-1	223	0.0754
L-29	12/29/2004	1.5	5.59	BDL
L-35	12/23/2004	0-1	716	0.976
	12/29/2004	1.5	5.01	BDL
M-15	12/15/2004	0-1	2,110	**10**
	1/21/2005	1.5	1,090	4.03
	1/21/2005	2.5	164	0.772
N-33	12/23/2004	0-1	456	0.355
	12/29/2004	1.5	31.2	0.0175
O-11	12/16/2004	0-1	154	0.0742
	12/29/2004	1.5	88.9	0.266
O-13	12/16/2004	0-1	90.7	0.0714
	12/29/2004	1.5	23.7	BDL
O-17	2/15/2005	2.5	5.6	BDL
	2/15/2005	3.5	6.75	BDL
NYSDEC Guidance Values			70.47	5

1/ Feet below grade

2/ Total Lead analysis by EPA Method 200.7, reported in milligrams per kilogram

3/ Leachable Lead analysis by EPA Method 1311 & 6000/7000, reported in milligrams per liter

4/ **BOLD** indicates that the concentration exceeds the NYSDEC Hazardous Waste Criteria

5/ Below laboratory detection limit

6/ This is the average site background

7/ Hazardous waste regulatory levels for toxicity characteristics

Table 7

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Comparison of Total Lead Concentrations for Sifted and Not Sifted Soil
(Area-1 Shallow Samples)

Sample I.D.	Date	Depth ftbg[1]		Total Lead (mg/kg)[2]	XRF Screening Results[3] (mg/kg)
A-14	12/30/2004	0-1	Not Sifted	45,200	665
			Sifted	12,500	582
A-16	12/30/2004	0-1	Not Sifted	106,000	640
			Sifted	31,800	647
A-29	12/30/2004	0-1	Not Sifted	315	590
			Sifted	4,030	671
A-36	12/30/2004	0-1	Not Sifted	2,150	621
			Sifted	2,230	594
A-39	12/30/2004	0-1	Not Sifted	203	645
			Sifted	2,180	621
B-34	12/30/2004	0-1	Not Sifted	1,620	641
			Sifted	1,700	1,826

1/ Feet below grade
2/ Milligrams per kilogram
3/ X-Ray Fluorescence

Table 8

Suelain Realty
Proposed Granite Point Development
Somers, New York

Summary of XRF Screening Results (Area-2 Samples) December 2004

Sample I.D.	Sample Depth (feet)	Result (mg/kg)	Sample I.D.	Sample Depth (feet)	Result (mg/kg)
A-1	0-1	49 1/	D-6	0-1	68
	1.5	NS 2/		1.5	1,353
A-2	0-1	46	E-1	0-1	44
	1.5	NS		1.5	NS
A3	0-1	64	E-2	0-1	45
	1.5	NS		1.5	NS
B-1	0-1	NS	E-3	0-1	34
	1.5	NS		1.5	NS
B-2	0-1	193	E-4	0-1	NS
	1.5	NS		1.5	NS
B-3	1.5	61	E-5	0-1	48
	1.5	NS		1.5	NS
C-1	0-1	66	E-6	0-1	55
	1.5	NS		1.5	NS
C-2	0-1	74	F-1	0-1	60
	1.5	NS		1.5	NS
C-3	0-1	58	F-2	0-1	53
	1.5	NS		1.5	NS
D-1	0-1	53	F-3	0-1	59
	1.5	NS		1.5	NS
D-2	0-1	60	F-4	0-1	46
	1.5	NS		1.5	NS
D-3	0-1	54	F-5	0-1	44
	1.5	NS		1.5	NS
D-4	0-1	136	F-6	0-1	68
	1.5	NS		1.5	NS
D-5	0-1	74			
	1.5	NS			

1/ Milligrams per kilogram
2/ Not sampled

Table 9

Suelain Realty
Proposed Granite Pointe Development
Somers, New York

Summary of Lead and SVOCs Concentrations (Area-2 Shallow Samples)
Results in µg/kg

	Sample Identification		NYSDEC RSCO TAGAM 4046 [2/]
	B-2	D-4	
Date	12/15/2004	12/15/2004	
Depth (ft bg [1/])	0-1	0-1	
SVOCs by 8270			
Acenaphthene	BDL [3/]	BDL	50,000
Acenaphthylene	1,100	BDL	41,000
Anthracene	721	BDL	50,000
Benzo (a) anthracene	**2,140** [4/]	BDL	224
Benzo (a) pyrene	**1,790**	BDL	61
Benzo (b) fluoranthene	**2,990**	BDL	1,100
Benzo (g,h,i) perylene	1,040	BDL	50,000
Benzo (k) fluoranthene	1,070	BDL	1,100
Chrysene	**2,060**	BDL	400
Dibenzo (a,h) anthracene	BDL	BDL	14
Fluoranthene	6,580	BDL	50,000
Fluorene	BDL	BDL	50,000
Indeno (1,2,3-cd) pyrene	1,110	BDL	3,200
2-Methylnaphthalene	BDL	BDL	36,400
Naphthalene	BDL	BDL	13,000
Phenanthrene	2,300	BDL	50,000
Pyrene	3,620	BDL	50,000
Total Lead by 200.7	**237**	104	79.13 [5/]
TCLP Lead by 1311	0.0592	0.32	5 [6/]

1/ Feet below grade
2/ NYSDEC Recommended Soil Cleanup Objective Technical Administrative Guidance Memorandum
3/ Concentration is below the reporting limit
4/ **BOLD** indicates concentration exceeds NYSDEC RSCO TAGAM 4046
5/ Established site specific background
6/ NYSDEC hazardous waste regulatory levels for toxicity characteristics

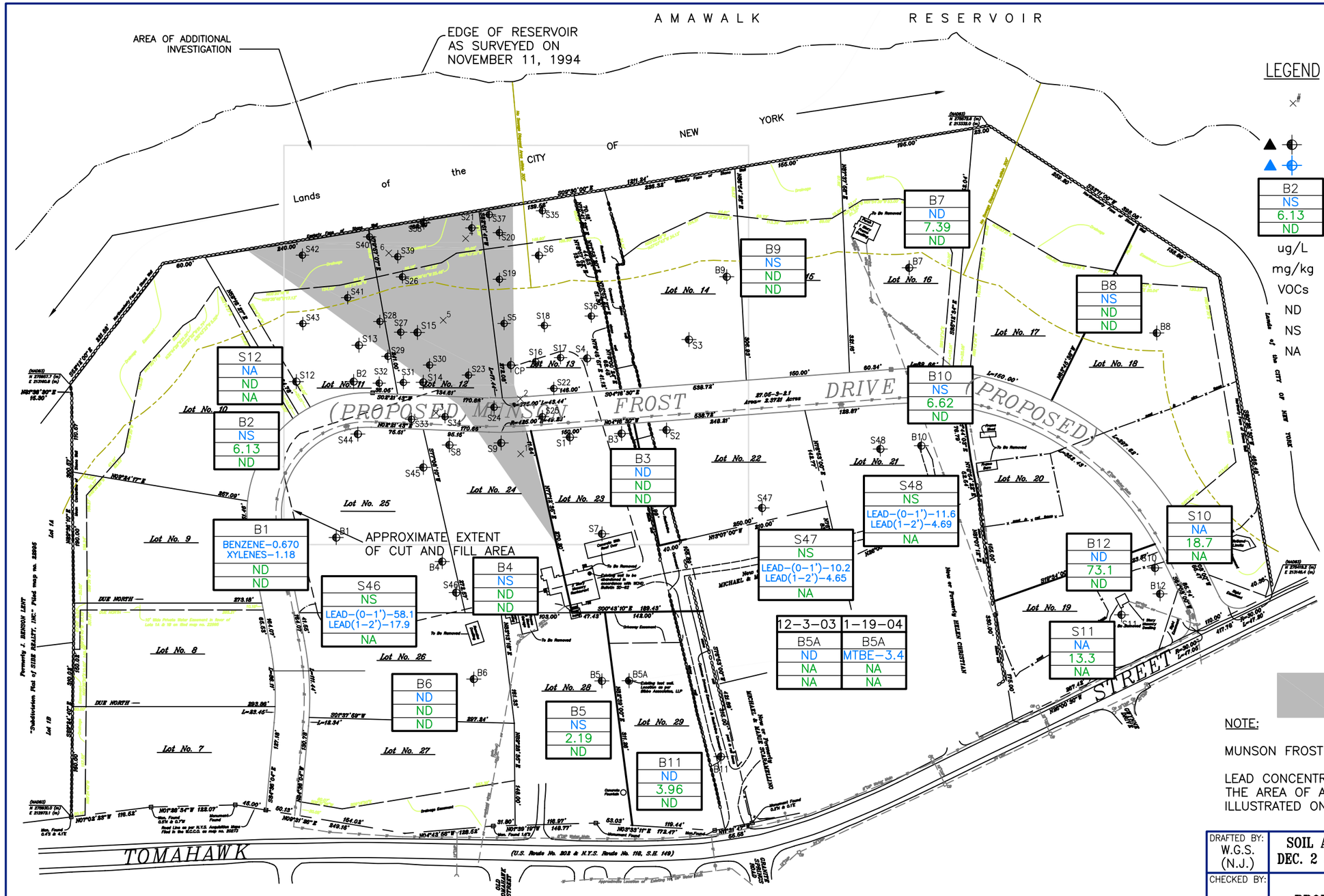
FIGURES

NOTE:

MUNSON FROST DRIVE IS A PROPOSED ROAD.

DRAFTED BY: W.G.S. (N.J.)	SITE MAP
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
NORTH	SCALE IN FEET: 0 – 150 / DATE: 5-6-05 / FIGURE: 1

M:\Graphics\11100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 4:14:30 PM, WShea



LEGEND

×#	SURVEY POINT
▲	SOIL BORING 0–100 mg/kg
▲	SOIL BORING 401–1,000 mg/kg
B2 / NS / 6.13 / ND	SAMPLE LOCATION VOCs–GROUNDWATER (ug/L) LEAD–SOIL 2' (mg/kg) VOCs–SOIL (mg/kg)
ug/L	MICROGRAMS PER LITER
mg/kg	MICROGRAMS PER KILOGRAM
VOCs	VOLATILE ORGANIC COMPOUNDS
ND	NOT DETECTED
NS	NOT SAMPLED
NA	NOT ANALYZED FOR

SHADED AREA INDICATES PORTIONS OF THE GRANITE POINTE PROPERTY WITHIN THE ANTICIPATED SHOT–FALL AREA.

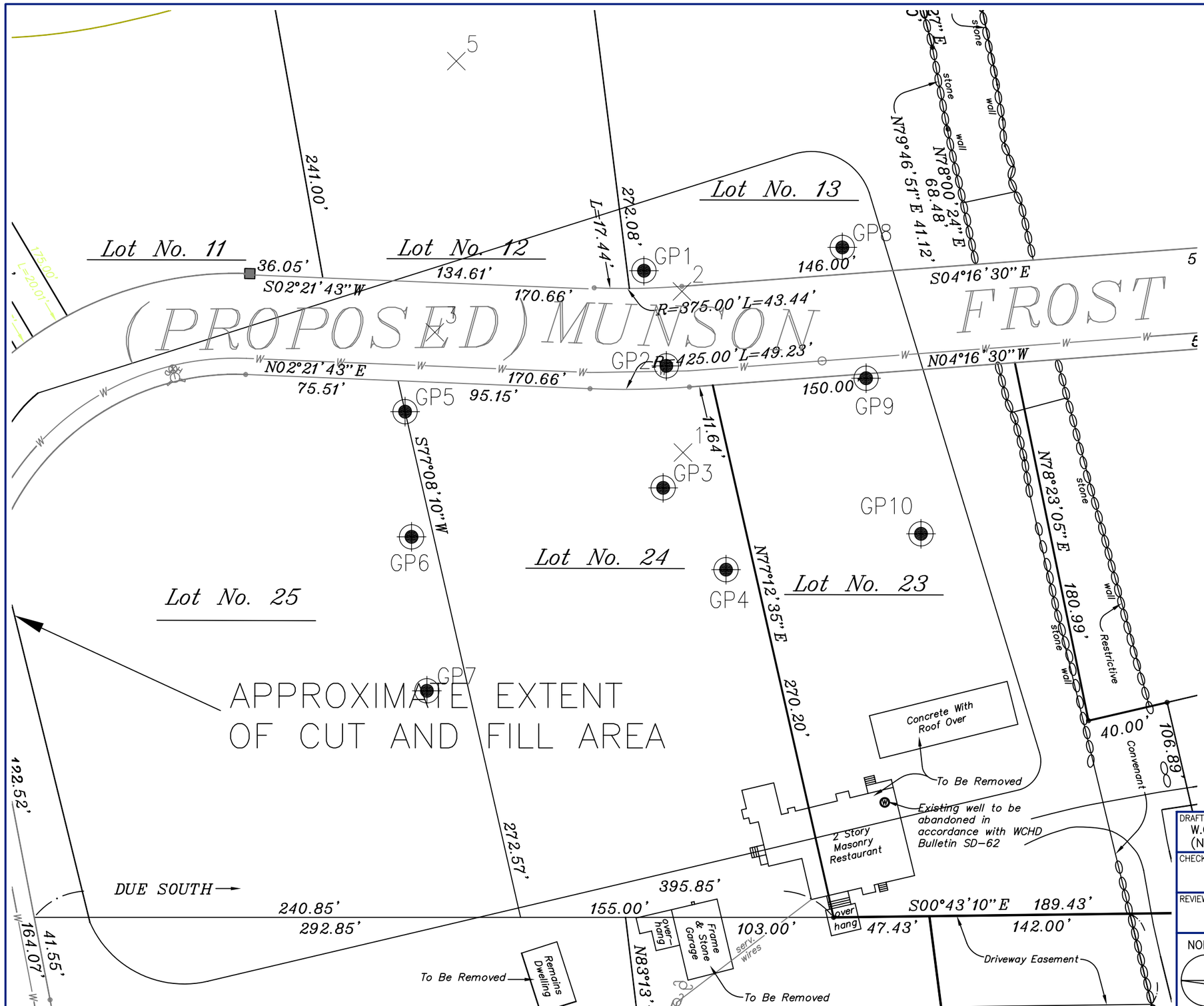
NOTE:

MUNSON FROST DRIVE IS A PROPOSED ROAD.

LEAD CONCENTRATIONS FOR SAMPLES COLLECTED IN THE AREA OF ADDITIONAL INVESTIGATION ARE ILLUSTRATED ON FIGURE 4.

DRAFTED BY: W.G.S. (N.J.)	SOIL AND GROUNDWATER ANALYTICAL DATA MAP DEC. 2 & 3, 2003/JAN. 16 & 19, 2004/FEB. 9, 2004
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
NORTH	SCALE IN FEET 0 150 / DATE 5–17–05 / FIGURE 2

M:\Graphics\11100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/18/2005 10:25:40 AM, WShea



LEGEND

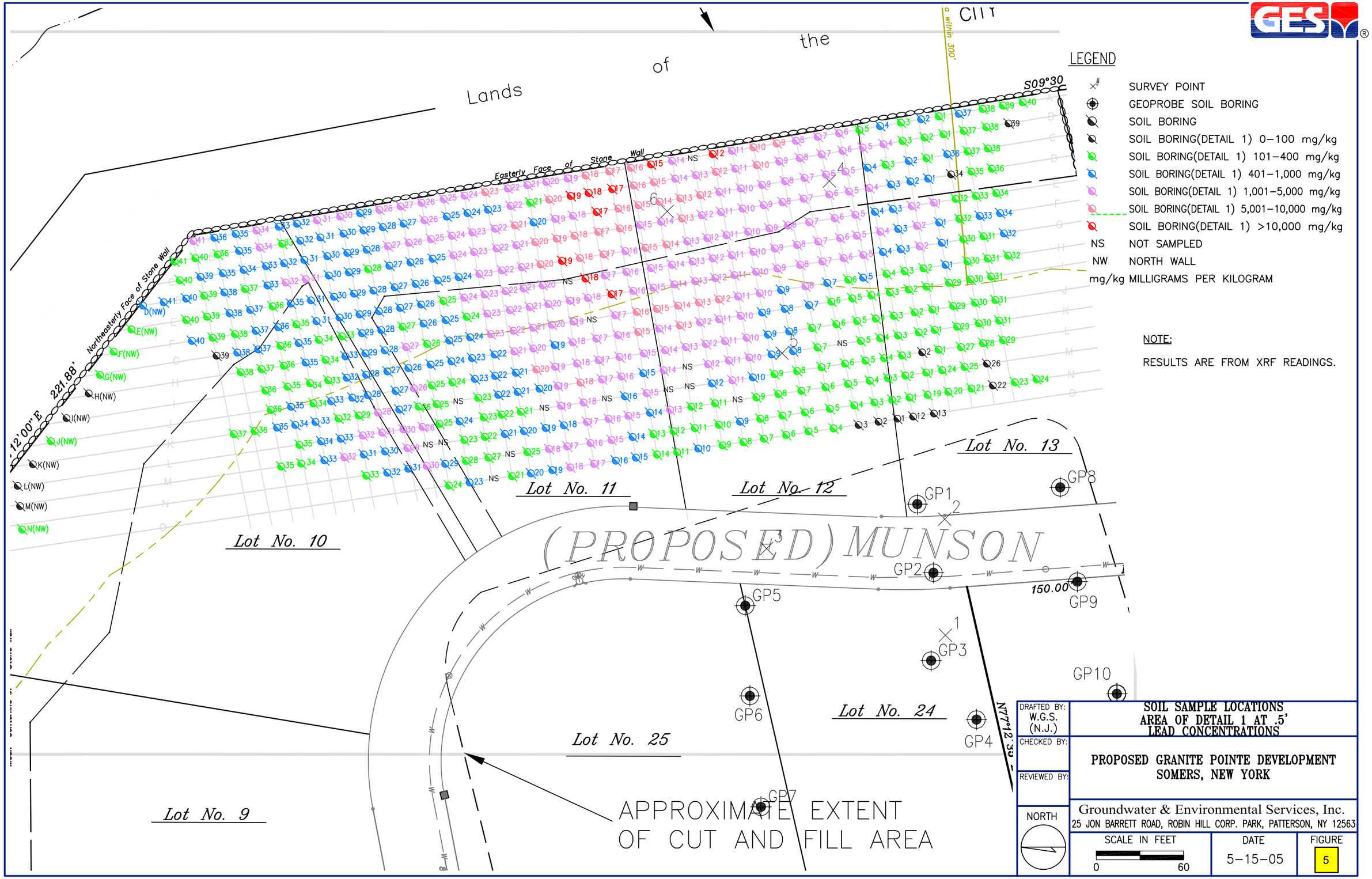
- SURVEY POINT
- GEOPROBE SOIL BORING
- SOIL BORING

DRAFTED BY: W.G.S. (N.J.)	SOIL SAMPLE LOCATION MAP
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
	SCALE IN FEET 0 50 / DATE 5-17-05 / FIGURE 3

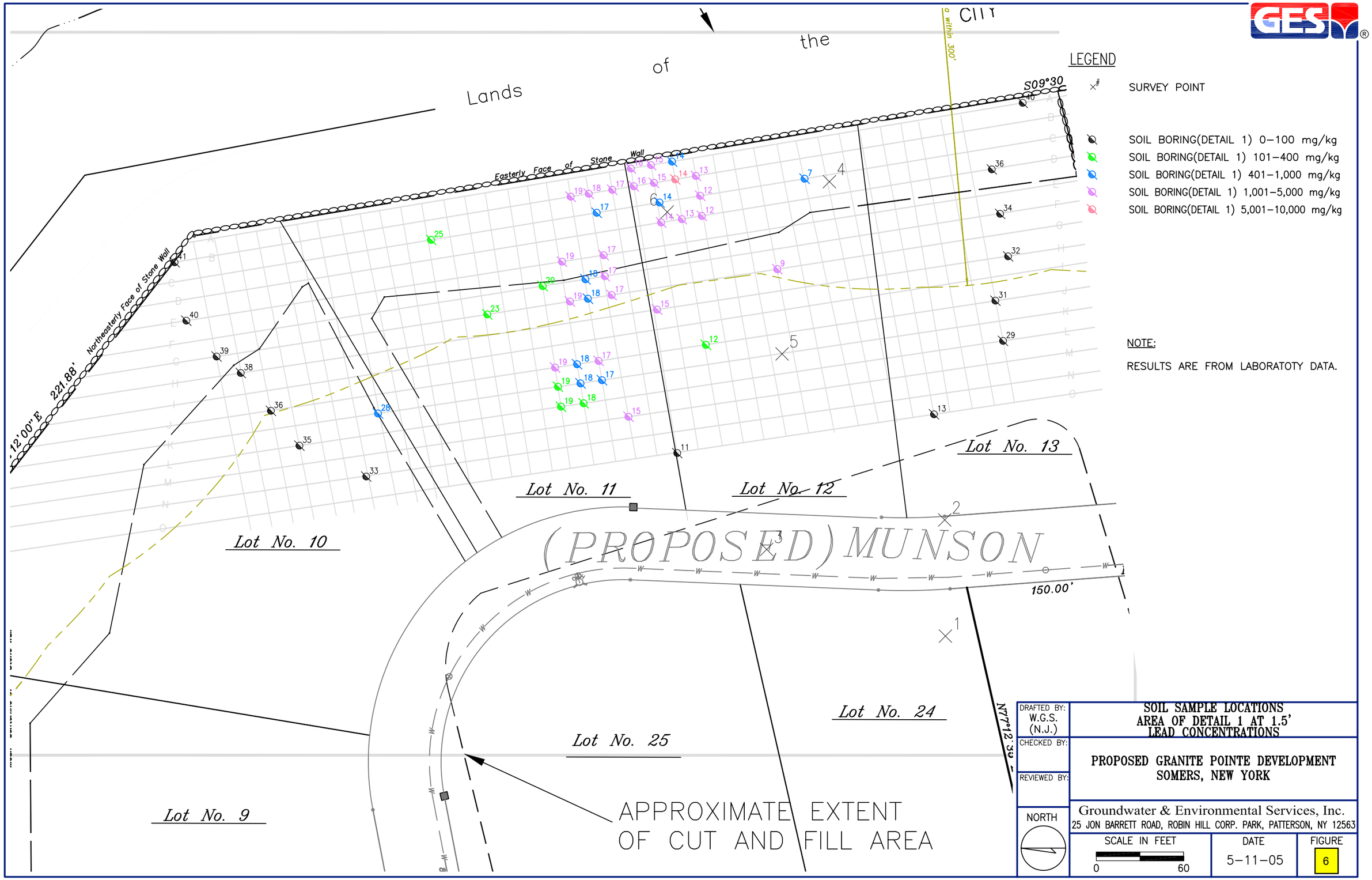
M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/17/2005 3:38:43 PM, WShea

DRAFTED BY: W.G.S. (N.J.)	BACKGROUND SOIL SAMPLE LOCATION MAP
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
NORTH	SCALE IN FEET: 0 – 150 / DATE: 5–17–05 / FIGURE: 4

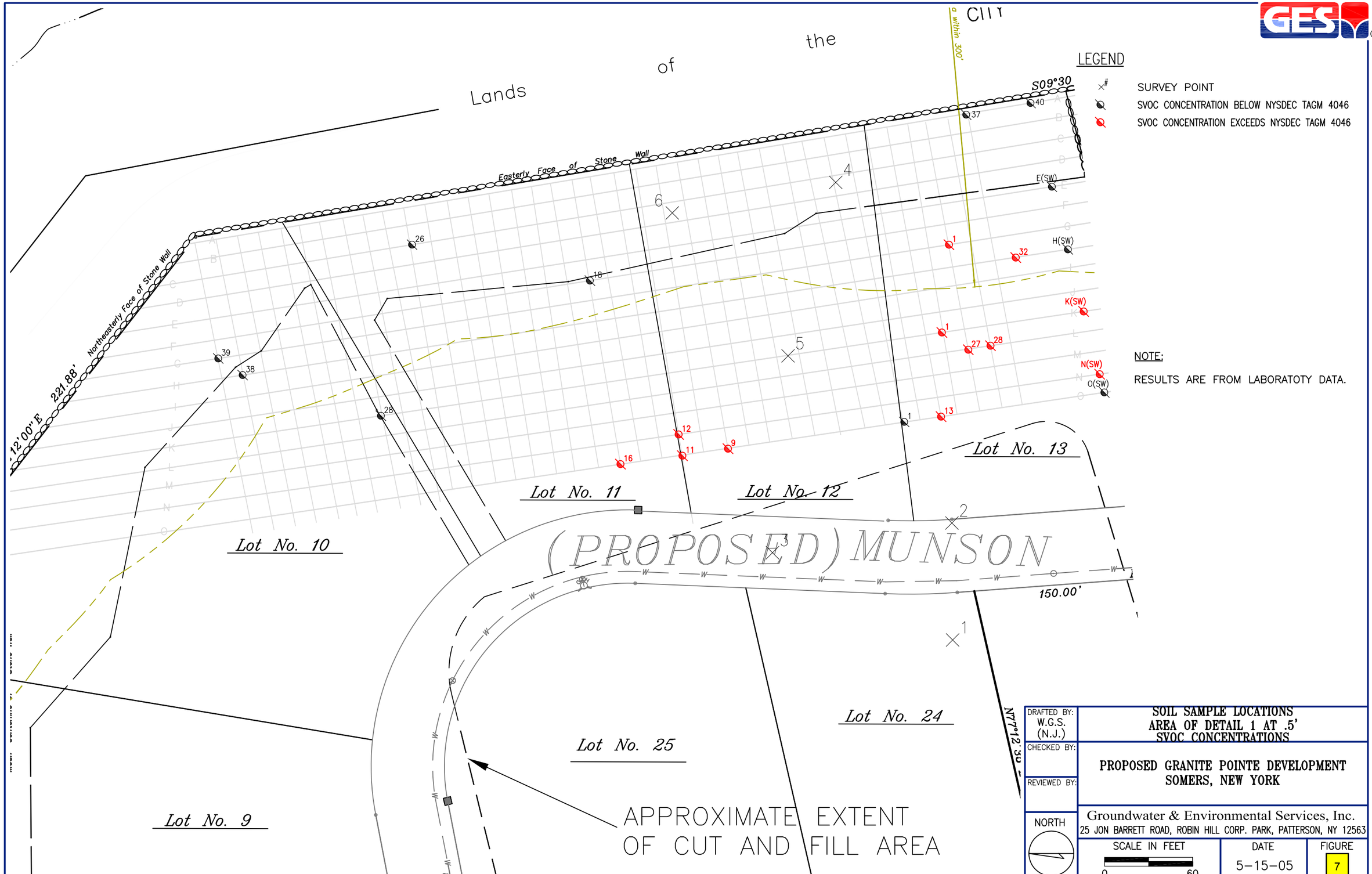
M:\Graphics\11100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/17/2005 3:41:43 PM, WShea



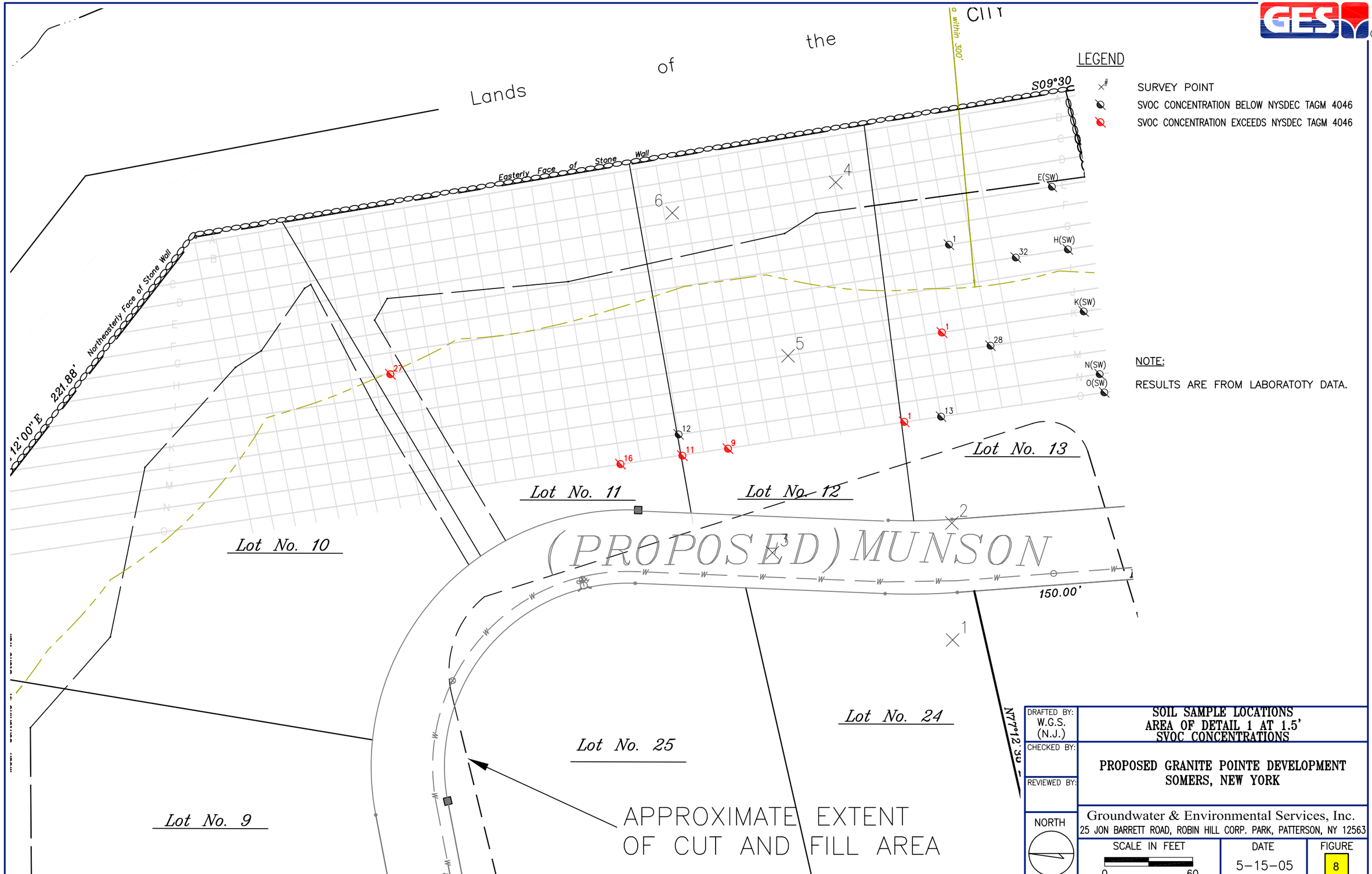
M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/17/2005 3:43:37 PM, WShea



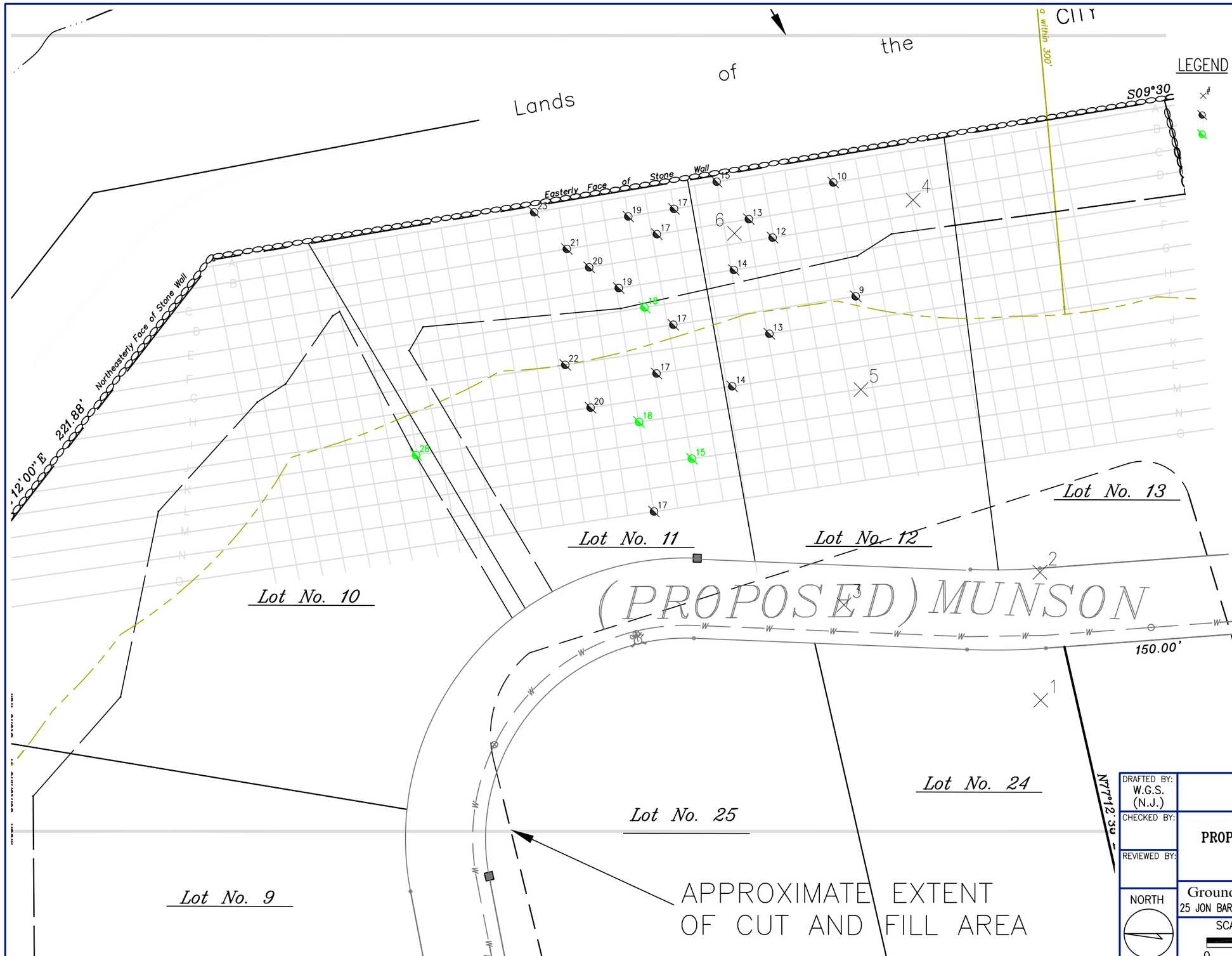
M:\Graphics\11100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 3:57:03 PM, WShea



M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/15/2005 11:35:33 AM, WShea



M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/15/2005 11:36:32 AM, WShea



LEGEND

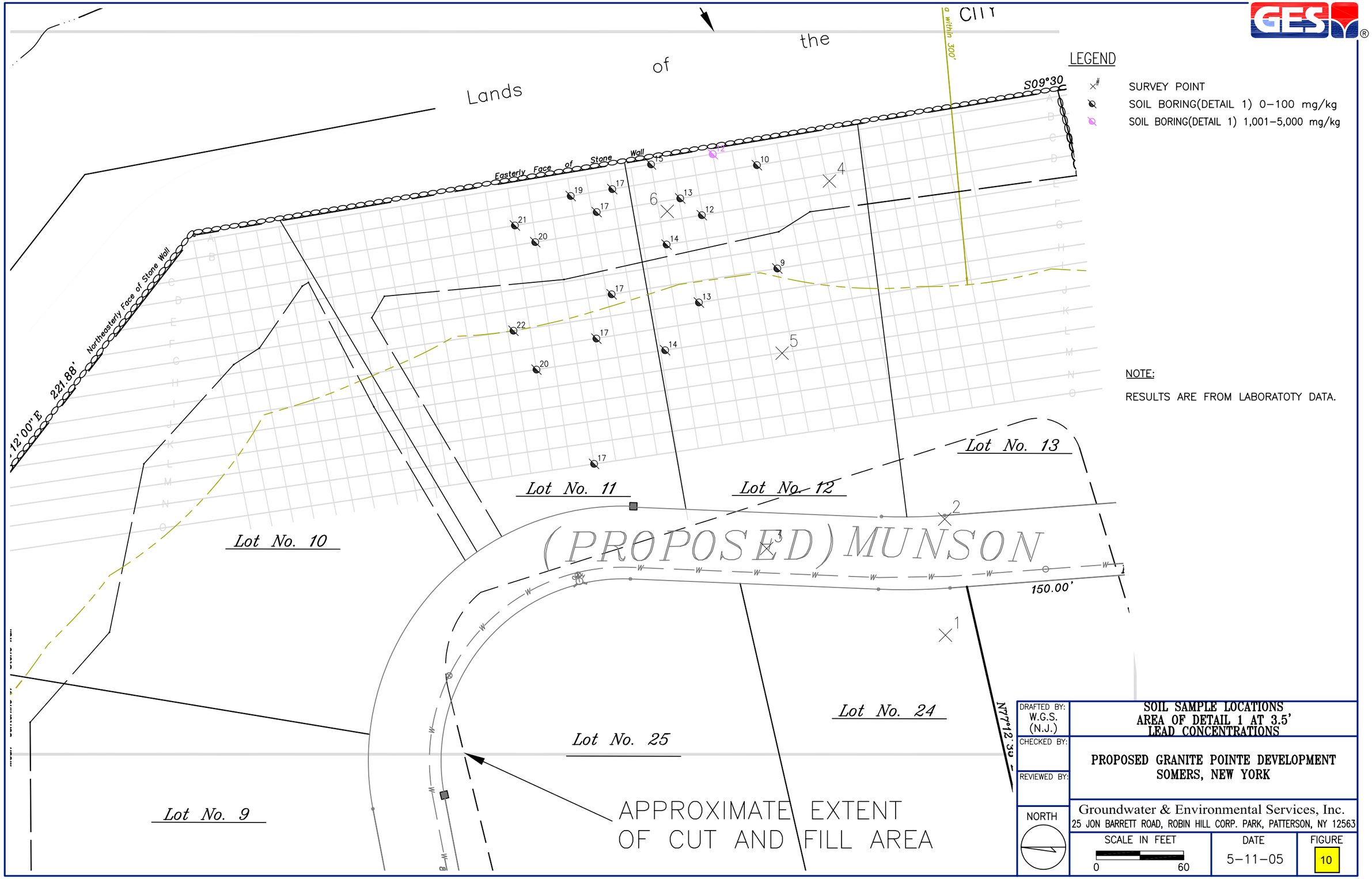
- SURVEY POINT
- SOIL BORING(DETAIL 1) 0–100 mg/kg
- SOIL BORING(DETAIL 1) 101–400 mg/kg

NOTE:

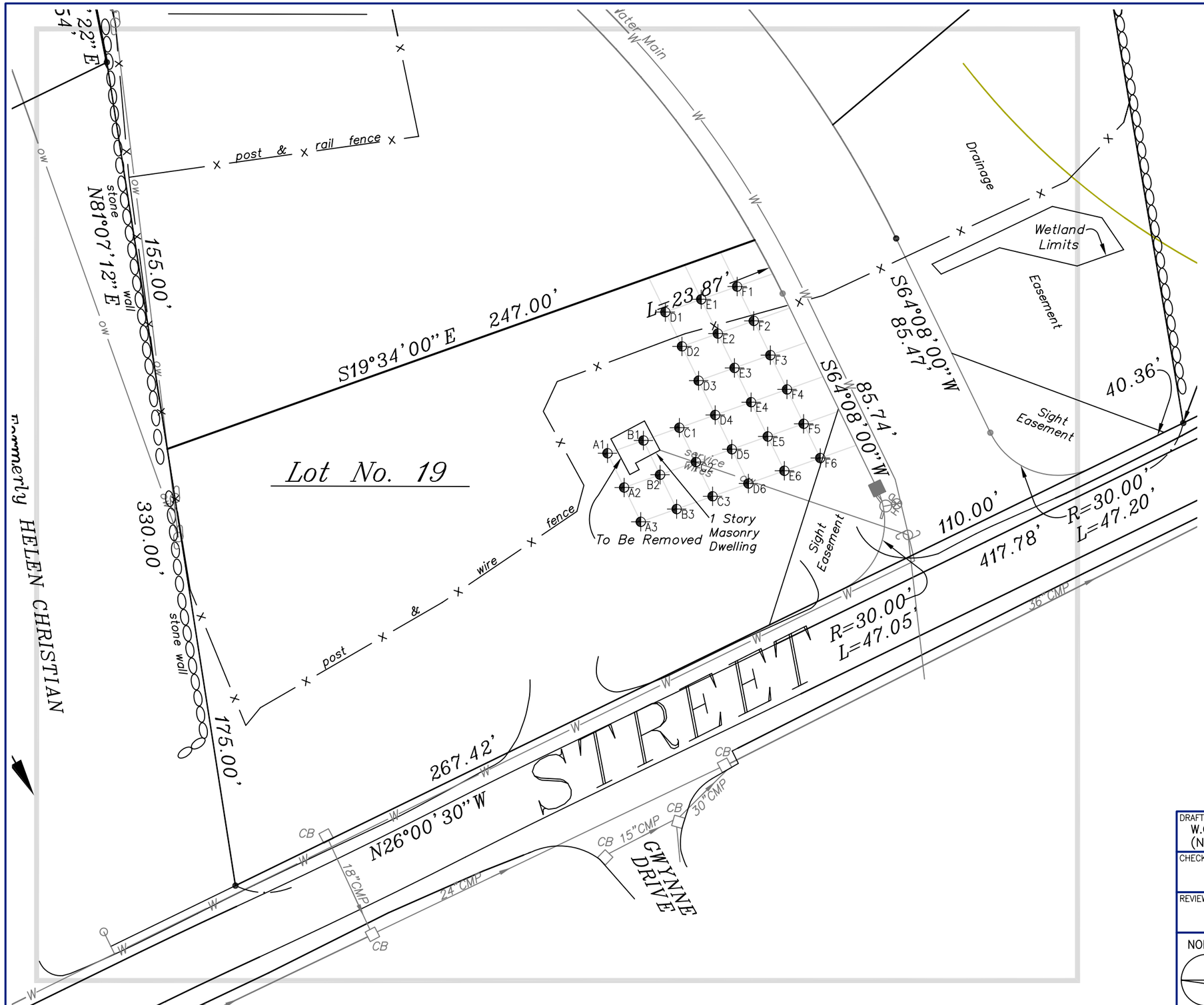
RESULTS ARE FROM LABORATOTY DATA.

DRAFTED BY: W.G.S. (N.J.)	SOIL SAMPLE LOCATIONS AREA OF DETAIL 1 AT 2.5' LEAD CONCENTRATIONS
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
	SCALE IN FEET 0 60 / DATE 5–11–05 / FIGURE 9

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 3:57:48 PM, WShea



M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 3:58:24 PM, WShea



LEGEND

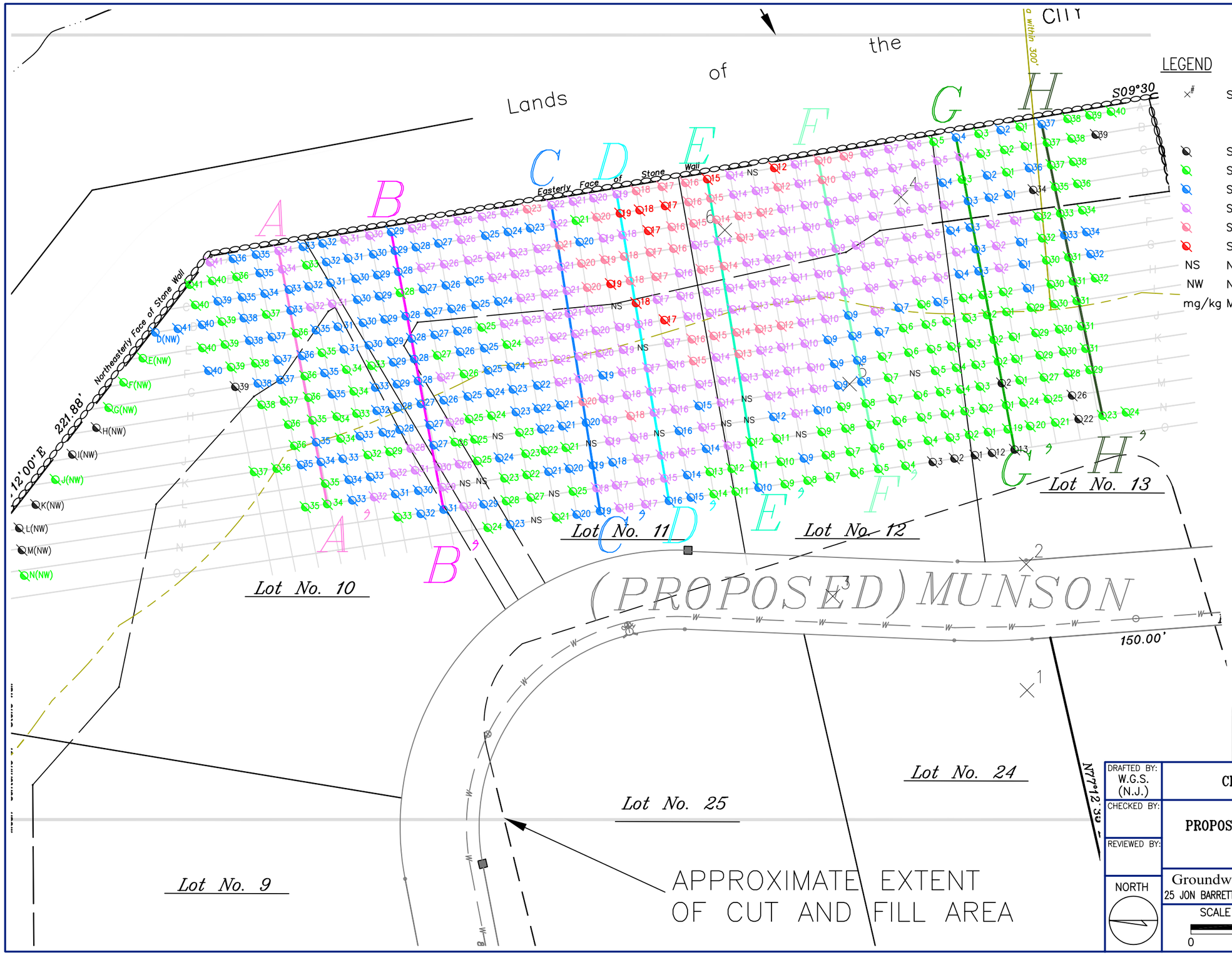
- SURVEY POINT
- BACKGROUND SAMPLE
- SOIL BORING (DETAIL 2)

NOTE:

RESULTS ARE FROM LABORATOTY DATA.

DRAFTED BY: W.G.S. (N.J.)	SOIL SAMPLE LOCATIONS AREA OF DETAIL 2 AT .5' LEAD CONCENTARTIONS
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
	SCALE IN FEET 0 60 / DATE 5-11-05 / FIGURE 11

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 4:00:53 PM, WShea



LEGEND

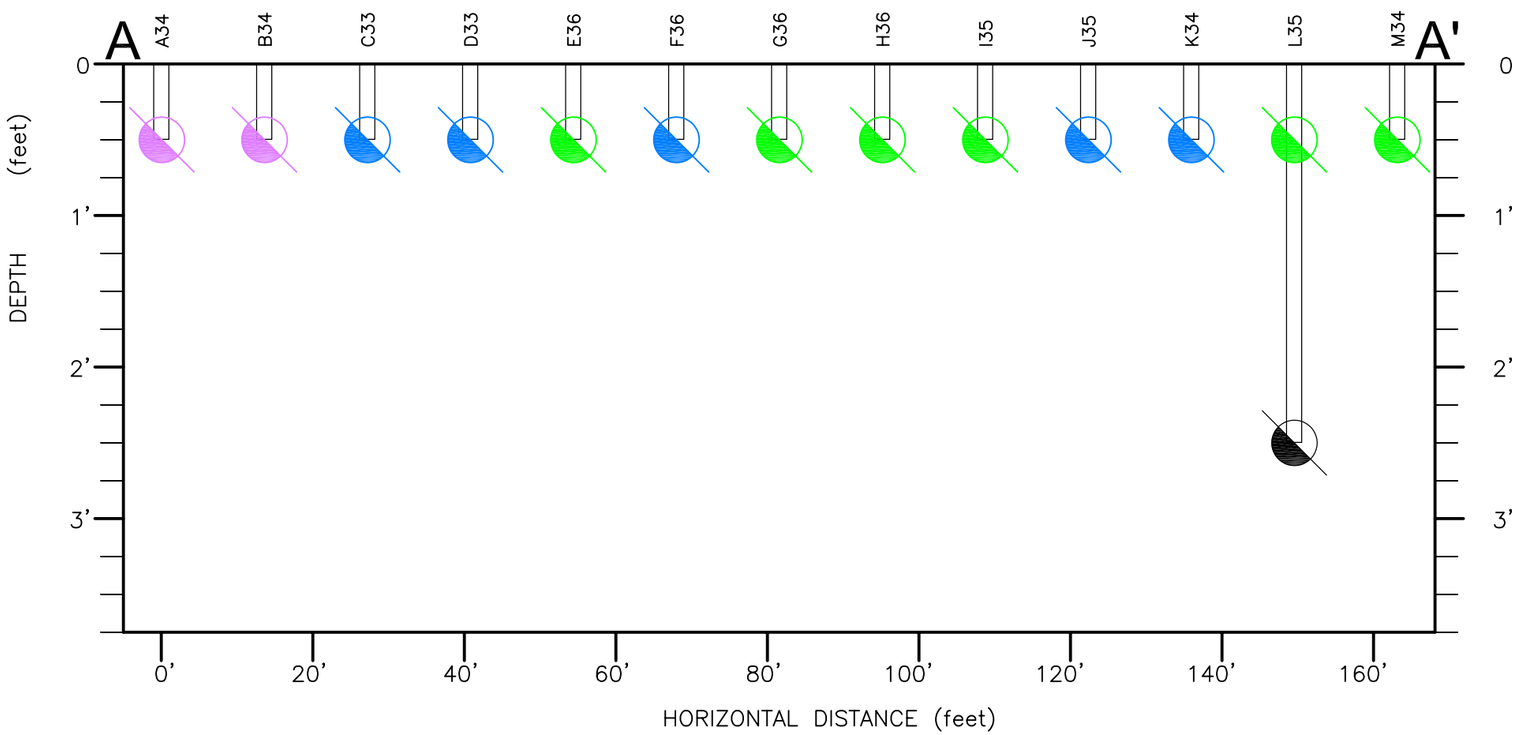
×#	SURVEY POINT
	SOIL BORING(DETAIL 1) 0–100 mg/kg
	SOIL BORING(DETAIL 1) 101–400 mg/kg
	SOIL BORING(DETAIL 1) 401–1,000 mg/kg
	SOIL BORING(DETAIL 1) 1,001–5,000 mg/kg
	SOIL BORING(DETAIL 1) 5,001–10,000 mg/kg
	SOIL BORING(DETAIL 1) >10,000 mg/kg
NS	NOT SAMPLED
NW	NORTH WALL
mg/kg	MILLIGRAMS PER KILOGRAM

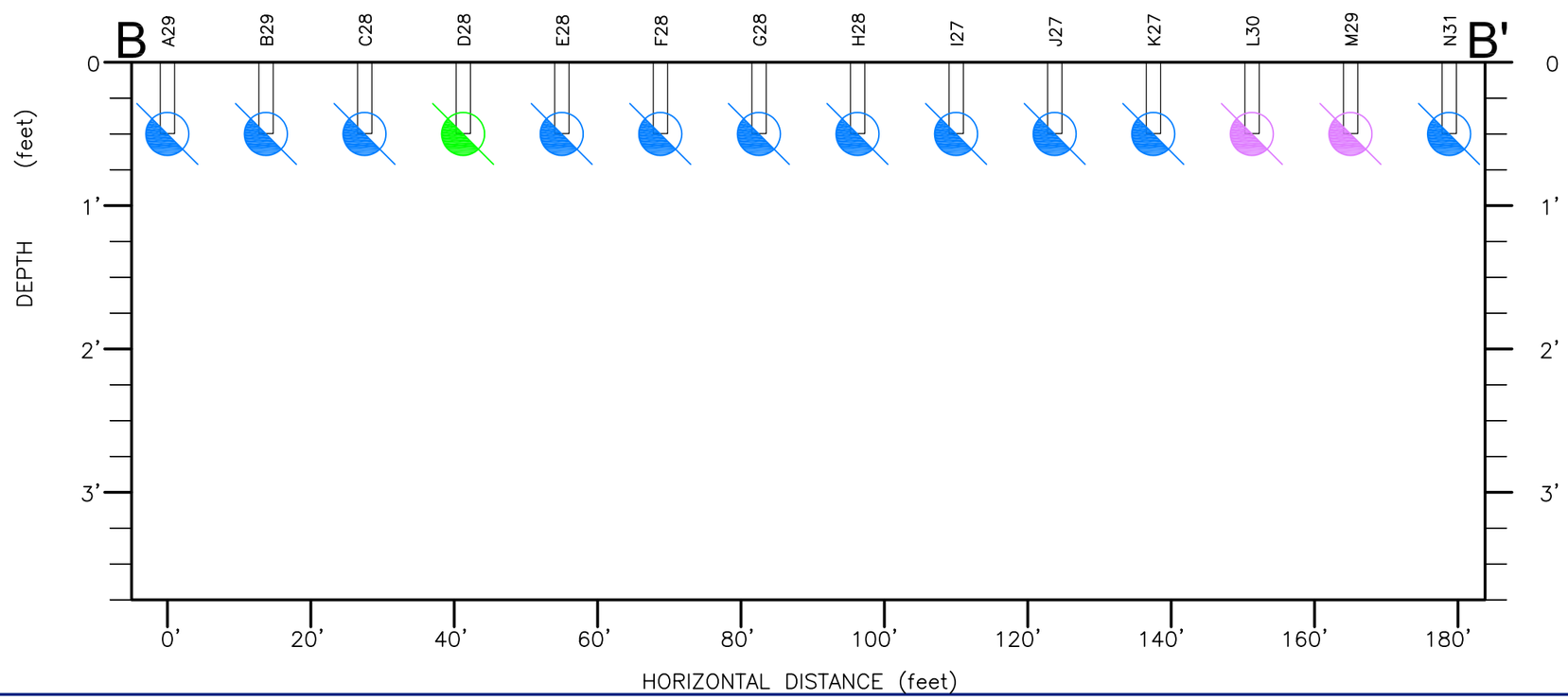
NOTE:

RESULTS ARE FROM XRF READINGS.

DRAFTED BY: W.G.S. (N.J.)	CROSS SECTION LOCATION MAP
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
SCALE IN FEET 0 60	DATE 5–11–05 FIGURE 12

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 4:01:59 PM, WShea





LEGEND

SB — BORING IDENTIFICATION

BORE HOLE

SOIL BORING(DETAIL 1) 0–100 mg/kg
SOIL BORING(DETAIL 1) 101–400 mg/kg
SOIL BORING(DETAIL 1) 401–1,000 mg/kg
SOIL BORING(DETAIL 1) 1,001–5,000 mg/kg

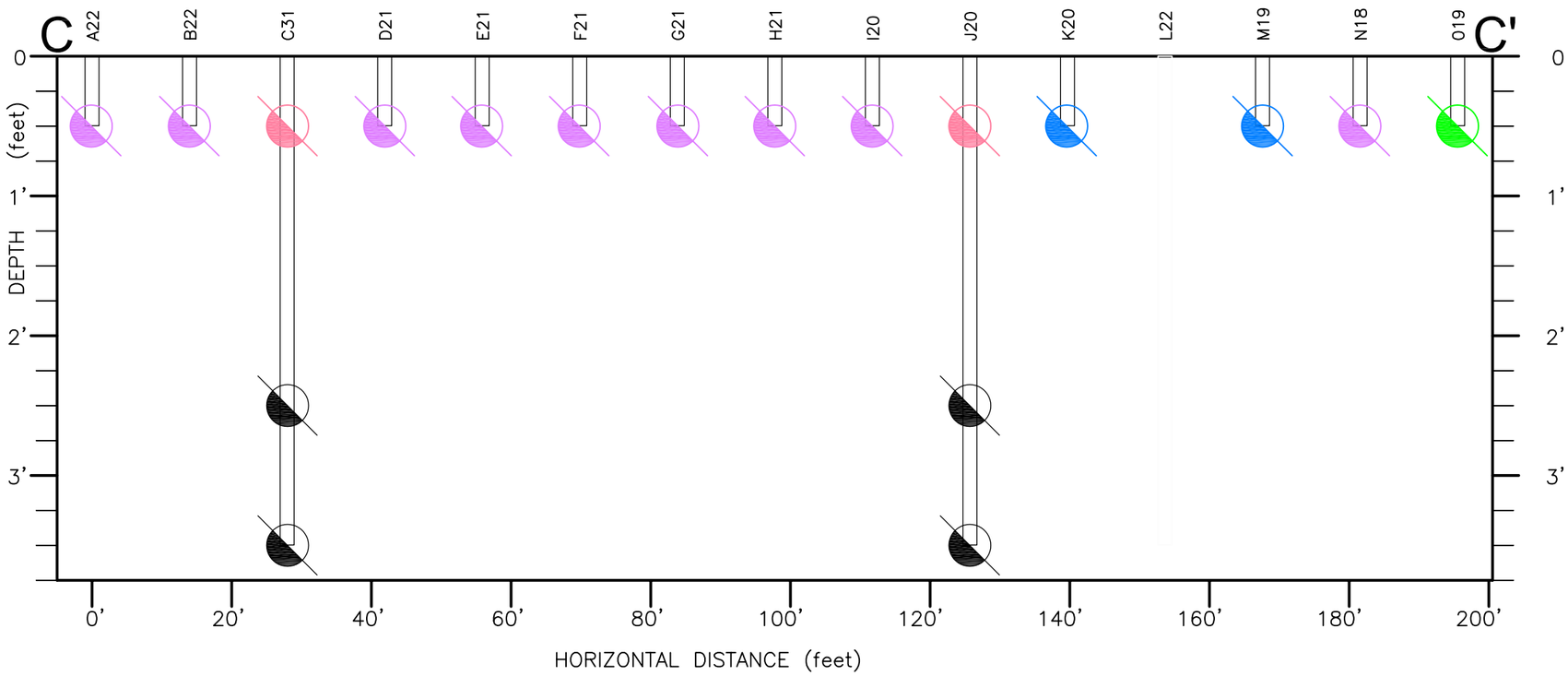
NOTE:

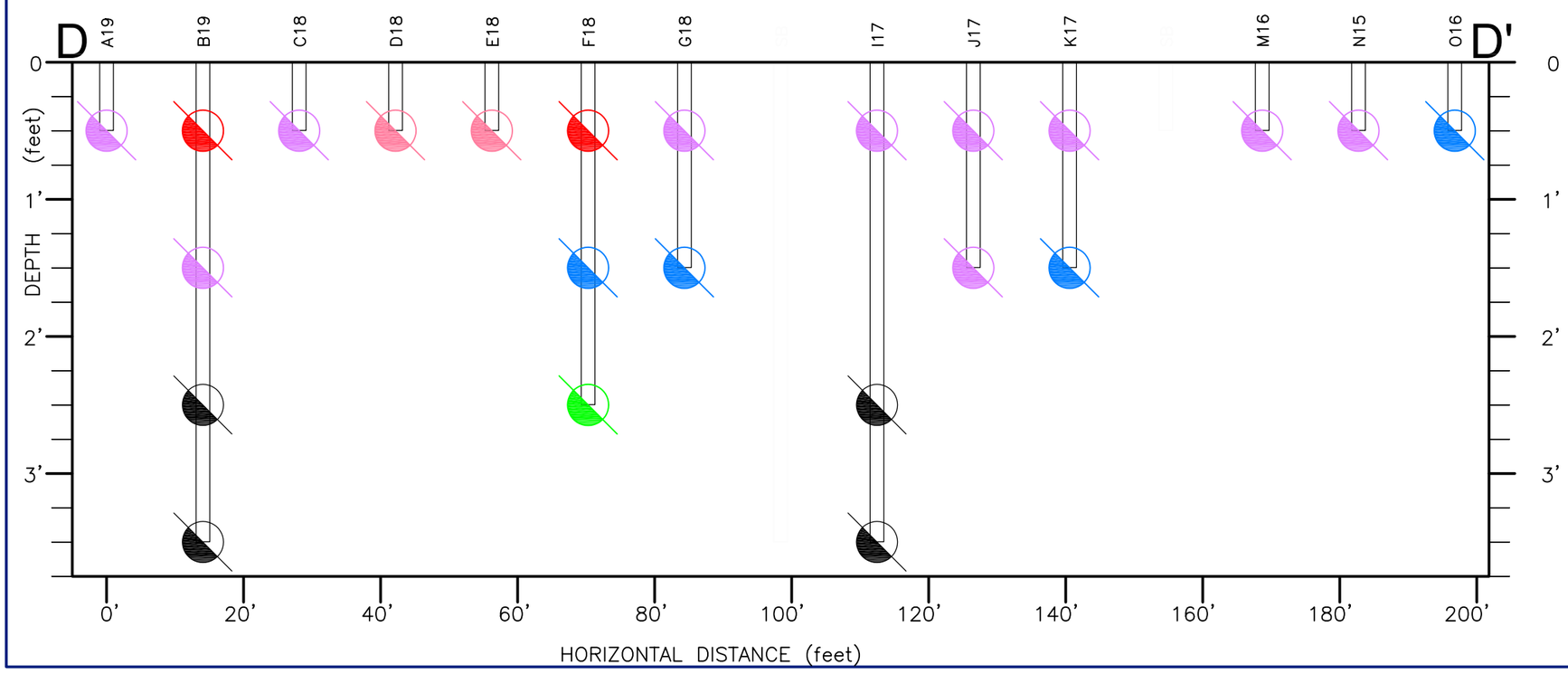
RESULTS ARE FROM XRF AND LABORATORY DATA.

DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION A–A' & B–B'
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563

SCALE	DATE	FIGURE
HORIZONTAL 1" = 20' VERTICAL 1" = 1'	5–1–05	13

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers A-A'&B-B'.dwg, 5/17/2005 3:48:35 PM, WShea





LEGEND

SB — BORING IDENTIFICATION

BORE HOLE

- SOIL BORING
- SOIL BORING(DETAIL 1) 0–100 mg/kg
- SOIL BORING(DETAIL 1) 101–400 mg/kg
- SOIL BORING(DETAIL 1) 401–1,000 mg/kg
- SOIL BORING(DETAIL 1) 1,001–5,000 mg/kg
- SOIL BORING(DETAIL 1) 5,001–10,000 mg/kg
- SOIL BORING(DETAIL 1) >10,000 mg/kg
- NS — NOT SAMPLED

NOTE:

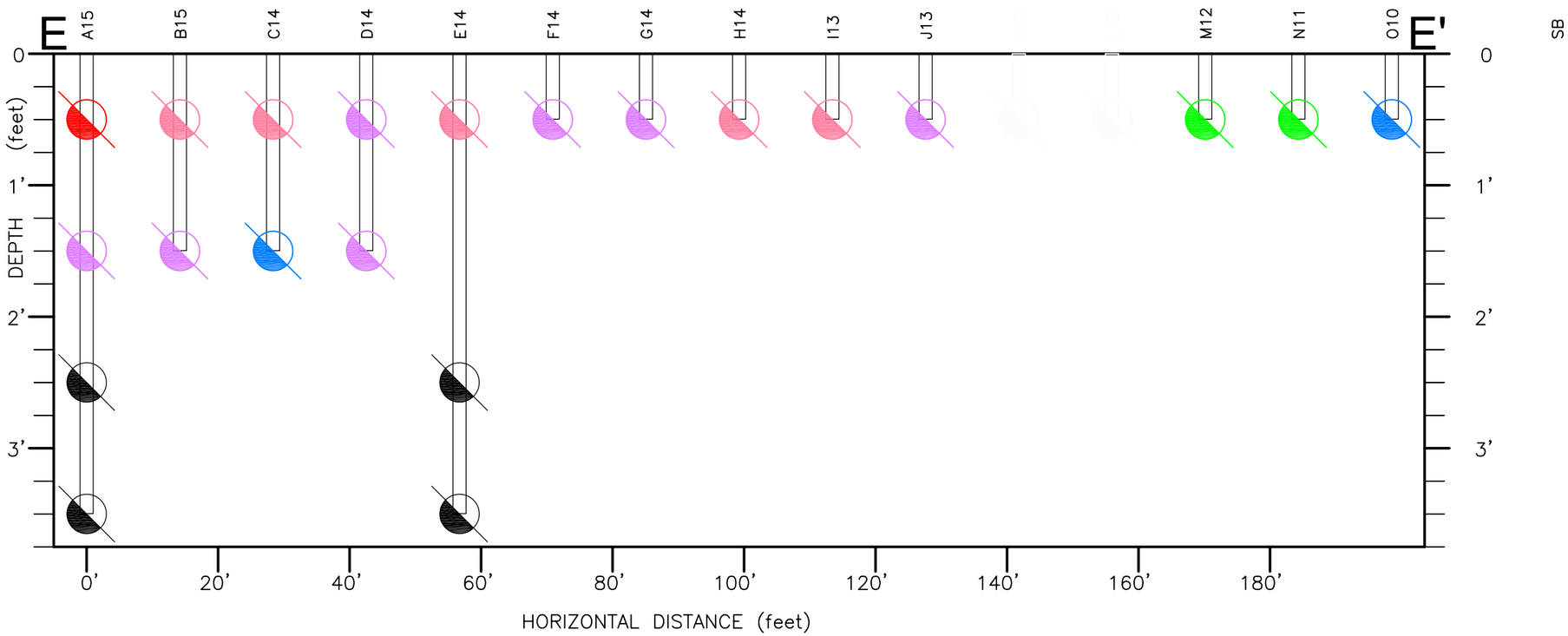
RESULTS ARE FROM XRF AND LABORATORY DATA.

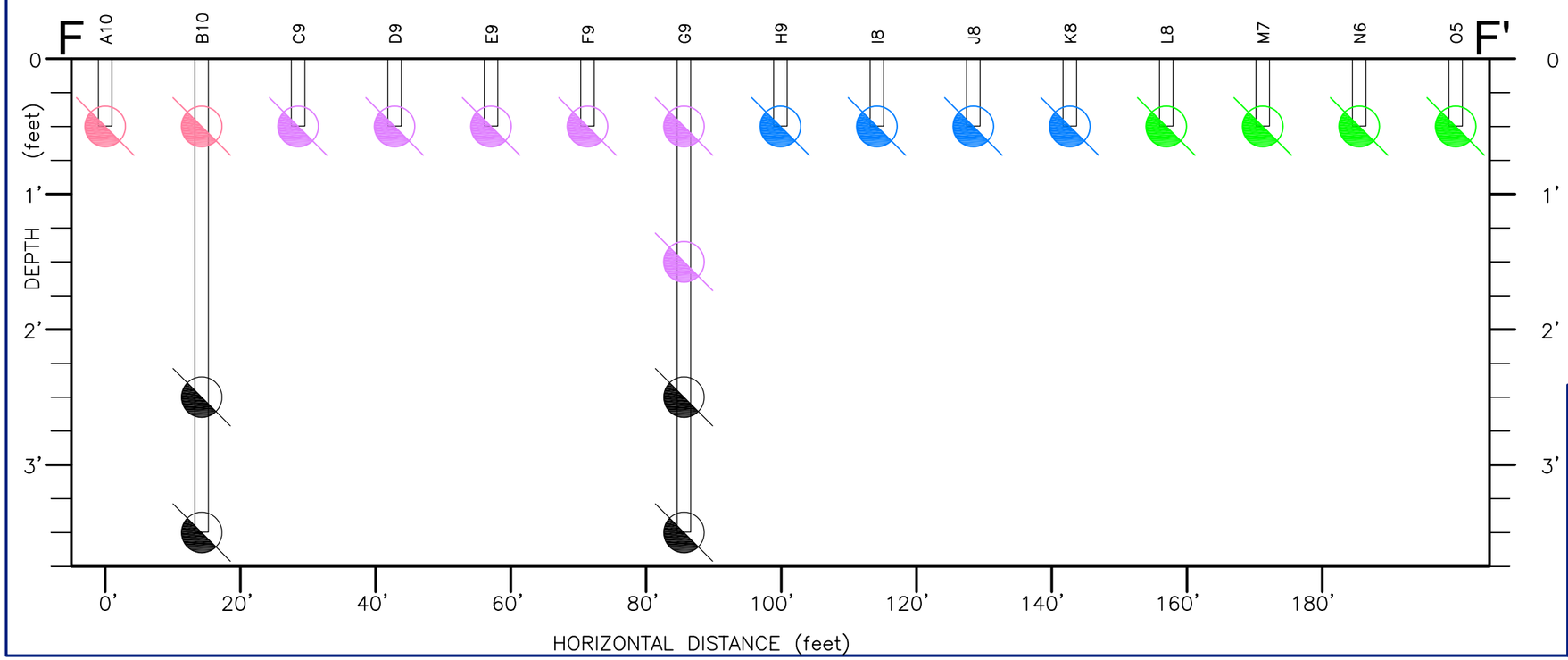
DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION C–C' & D–D'
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	

Groundwater & Environmental Services, Inc.
25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563

SCALE	DATE	FIGURE
HORIZONTAL 1" = 20' VERTICAL 1" = 1'	5–1–05	14

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers C-C'&D-D'.dwg, 5/17/2005 3:48:03 PM, WShea





LEGEND

SB — BORING IDENTIFICATION

BORE HOLE

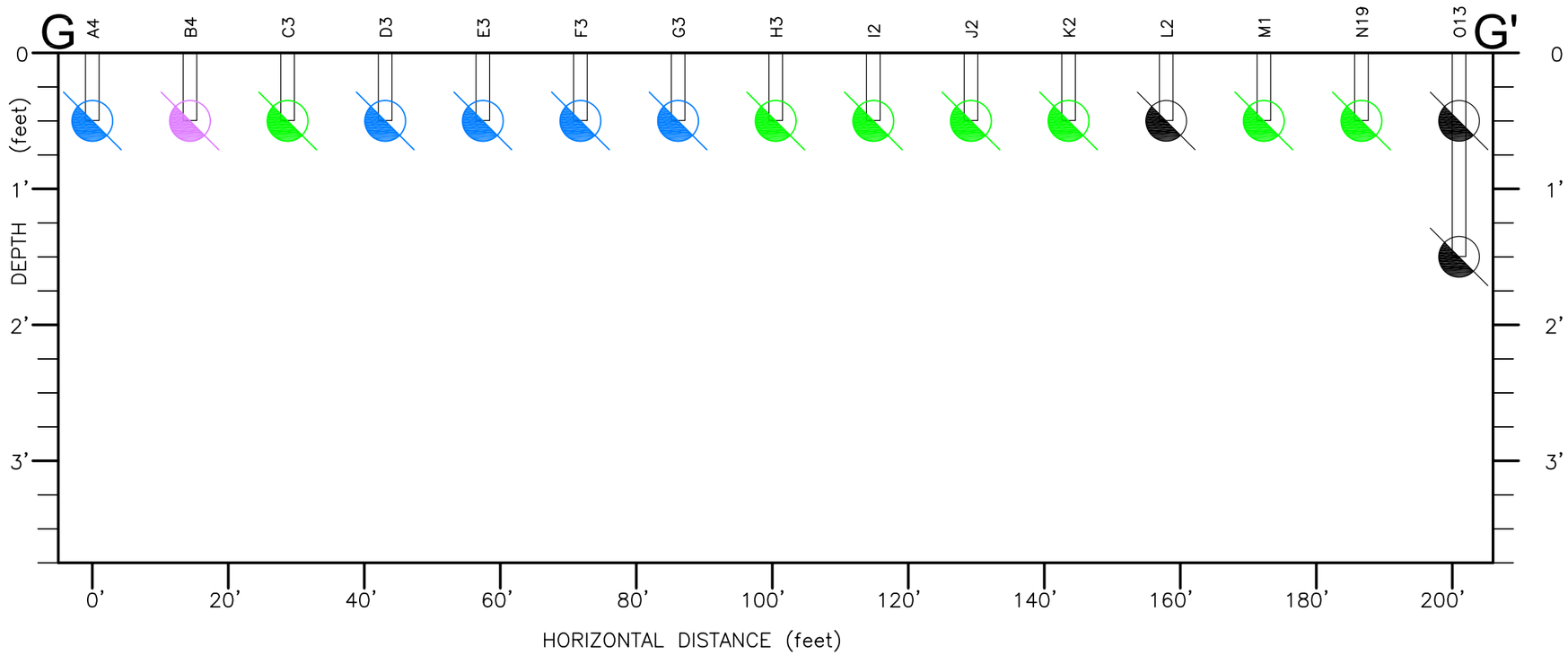
- SOIL BORING
- SOIL BORING(DETAIL 1) 0–100 mg/kg
- SOIL BORING(DETAIL 1) 101–400 mg/kg
- SOIL BORING(DETAIL 1) 401–1,000 mg/kg
- SOIL BORING(DETAIL 1) 1,001–5,000 mg/kg
- SOIL BORING(DETAIL 1) 5,001–10,000 mg/kg
- SOIL BORING(DETAIL 1) >10,000 mg/kg
- NS — NOT SAMPLED

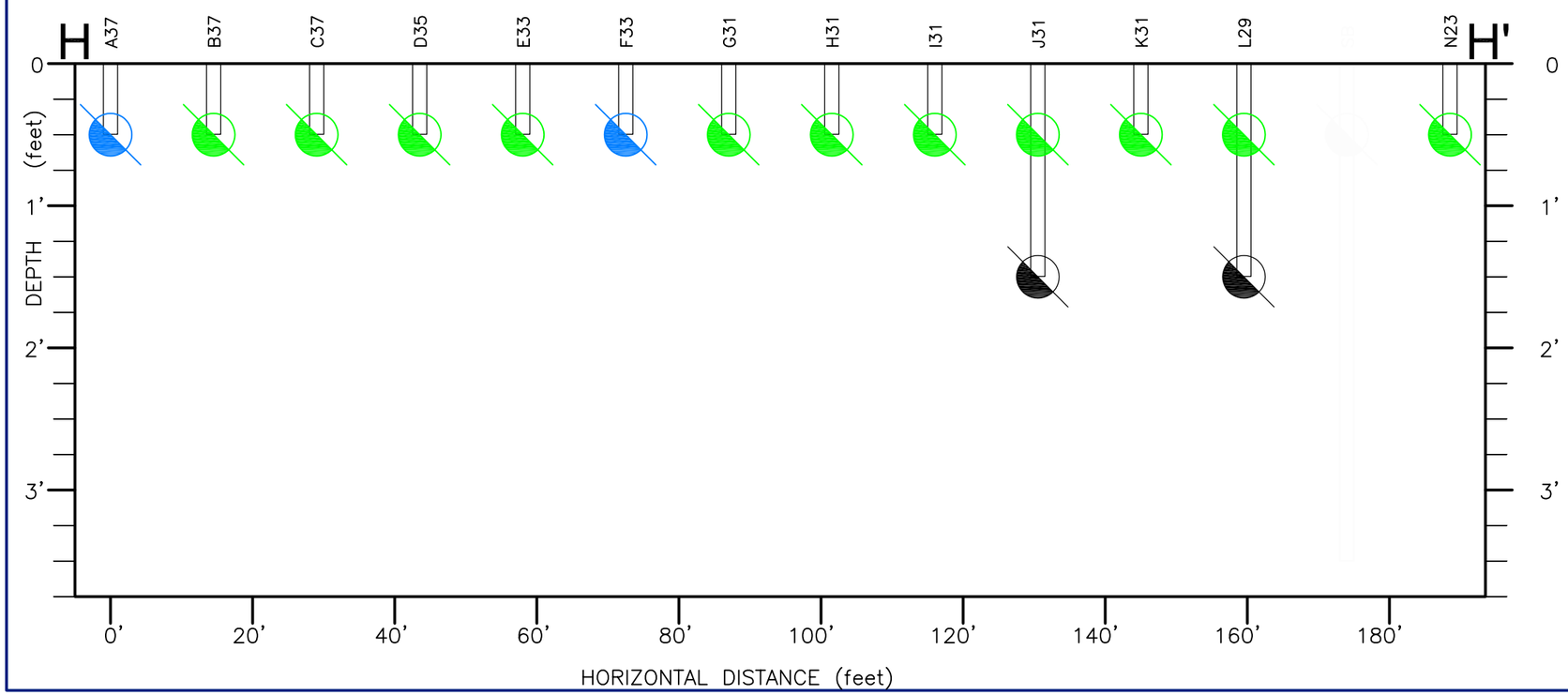
NOTE:

RESULTS ARE FROM XRF AND LABORATORY DATA.

DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION E-E' & F-F'
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
	SCALE: HORIZONTAL 1" = 20' VERTICAL 1" = 1' — DATE: 5-1-05 — FIGURE: 15

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers E-E'&F-F'.dwg, 5/17/2005 3:47:39 PM, WShea





LEGEND

SB — BORING IDENTIFICATION

BORE HOLE

- SOIL BORING
- SOIL BORING(DETAIL 1) 0–100 mg/kg
- SOIL BORING(DETAIL 1) 101–400 mg/kg
- SOIL BORING(DETAIL 1) 401–1,000 mg/kg
- SOIL BORING(DETAIL 1) 1,001–5,000 mg/kg
- SOIL BORING(DETAIL 1) 5,001–10,000 mg/kg
- SOIL BORING(DETAIL 1) >10,000 mg/kg
- NS — NOT SAMPLED

NOTE:

RESULTS ARE FROM XRF AND LABORATORY DATA.

DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION G-G' & H-H'
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563

SCALE	DATE	FIGURE
HORIZONTAL 1" = 20' VERTICAL 1" = 1'	5-1-05	16

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers G-G'&H-H'.dwg, 5/17/2005 3:47:00 PM, WShea

APPENDIX A

Eye Witness Accounts

GRANITE POINTE TRAP SHOOTING QUESTIONNAIRE (VENICE GARDENS)
SOMERS, NY GRANITE SPRINGS AREA

NAME ROBERT STEWART
ADDRESS
TOWN STATE NY ZIP CODE

1. Are you familiar with past Trap Shooting activities on the Granite Pointe Site YES

2. What was your participation-ie: Worked, Observer, Shooter

3. What Year/s 1963-64-67

4. How often did trap shooting take place,- ie: everyday, weekends, Sunday

5. Was it open all year ? - NOT WINTER

6. Was it open to the public or a club facility CLUB

7. Are you aware of any other type of shooting activities at the Granite Point Site YES

8. If Yes please describe BOY SCOUT TURKEY SHOOT - 1 DAY - SHOT IN SAME DIRECTION

9. Does the diagram on the reverse side of this questionnaire accurately depict the locations of the buildings that were present on the site when shooting was occurring, the location from which shooting occurred and the direction in which the shot was fired YES

10. If not, please describe how the location of the shooters and/or the direction of the shooting differed from that depicted on the diagram

SIGNITURE Robert Stewart

DATE 11/22/04

GRANITE POINTE TRAP SHOOTING QUESTIONNAIRE (VENICE GARDENS)
SOMERS, NY GRANITE SPRINGS AREA

NAME NICK RACANO
ADDRESS 141 AUSTIN Rd
TOWN MAHOPAC STATE NY ZIP CODE 10541

1. Are you familiar with past Trap Shooting activities on the Granite Pointe Site YES

2. What was your participation-ie: Worked, Observer, Shooter WORKER

3. What Year/s 1952 - 53

4. How often did trap shooting take place,- ie: everyday, weekends/Sunday

5. Was it open all year NO

6. Was it open to the public or a club facility CLUB

7. Are you aware of any other type of shooting activities at the Granite Point Site: NO.

8. If Yes please describe

9. Does the diagram on the reverse side of this questionnaire accurately depict the locations of the buildings that were present on the site when shooting was occurring, the location from which shooting occurred and the direction in which the shot was fired YES

10. If not, please describe how the location of the shooters and/or the direction of the shooting differed from that depicted on the diagram

SIGNITURE Nick Racano

DATE 11/18/04

GRANITE POINTE TRAP SHOOTING QUESTIONNAIRE (VENICE GARDENS)
SOMERS, NY GRANITE SPRINGS AREA

NAME MICHAEL SCARAMELLINO
ADDRESS 136 TOMAHAWK ST.
TOWN SOMERS STATE NEW ZIP CODE

1. Are you familiar with past Trap Shooting activities on the Granite Pointe Site YES

2. What was your participation-ie: Worked, Observer, Shooter OBSERVER

3. What Year/s 1940 – 1968

4. How often did trap shooting take place,- ie: everyday, weekends, Sunday WEEKENDS

5. Was it open all year YES

6. Was it open to the public or a club facility CLUB FACILITY

7. Are you aware of any other type of shooting activities at the Granite Pointe Site NO

8. If Yes please describe

9. Does the diagram on the reverse side of this questionnaire accurately depict the locations of the buildings that were present on the site when shooting was occurring, the location from which shooting occurred and the direction in which the shot was fired YES

10. If not, please describe how the location of the shooters and/or the direction of the shooting differed from that depicted on the diagram

SIGNITURE Michael Scaramellino

DATE 11/18/04 (12:15 P.M.)

GRANITE POINTE TRAP SHOOTING QUESTIONNAIRE (VENICE GARDENS)
SOMERS, NY GRANITE SPRINGS AREA

NAME Nicholas Lupinacci
ADDRESS
TOWN SOMERS STATE NY ZIP CODE 10589

1. Are you familiar with past Trap Shooting activities on the Granite Pointe Site Yes

2. What was your participation-ie: Worked, Observer, Shooter Worked

3. What Year/s 1954 -- 1959

4. How often did trap shooting take place,- ie: everyday, weekends, Sunday WEEKends

5. Was it open all year SEASONAL

6. Was it open to the public or a club facility Club

7. Are you aware of any other type of shooting activities at the Granite Point Site NO

8. If Yes please describe

9. Does the diagram on the reverse side of this questionnaire accurately depict the locations of the buildings that were present on the site when shooting was occurring, the location from which shooting occurred and the direction in which the shot was fired Very Acurate

10. If not, please describe how the location of the shooters and/or the direction of the shooting differed from that depicted on the diagram

SIGNITURE Nicholas Lupinacci

DATE 11-17-04

GRANITE POINTE TRAP SHOOTING QUESTIONNAIRE (VENICE GARDENS)
SOMERS, NY GRANITE SPRINGS AREA

NAME DOUG PETERS
ADDRESS BOX 299
TOWN SHENORGK STATE NY ZIP CODE 10578

1. Are you familiar with past Trap Shooting activities on the Granite Pointe Site YES

2. What was your participation-ie: Worked, Observer, Shooter WORKER

3. What Year/s 1954 - 57

4. How often did trap shooting take place,- ie: everyday, weekends, Sunday

5. Was it open all year SUMMER & FALL

6. Was it open to the public or a club facility CLUB

7. Are you aware of any other type of shooting activities at the Granite Point Site NO

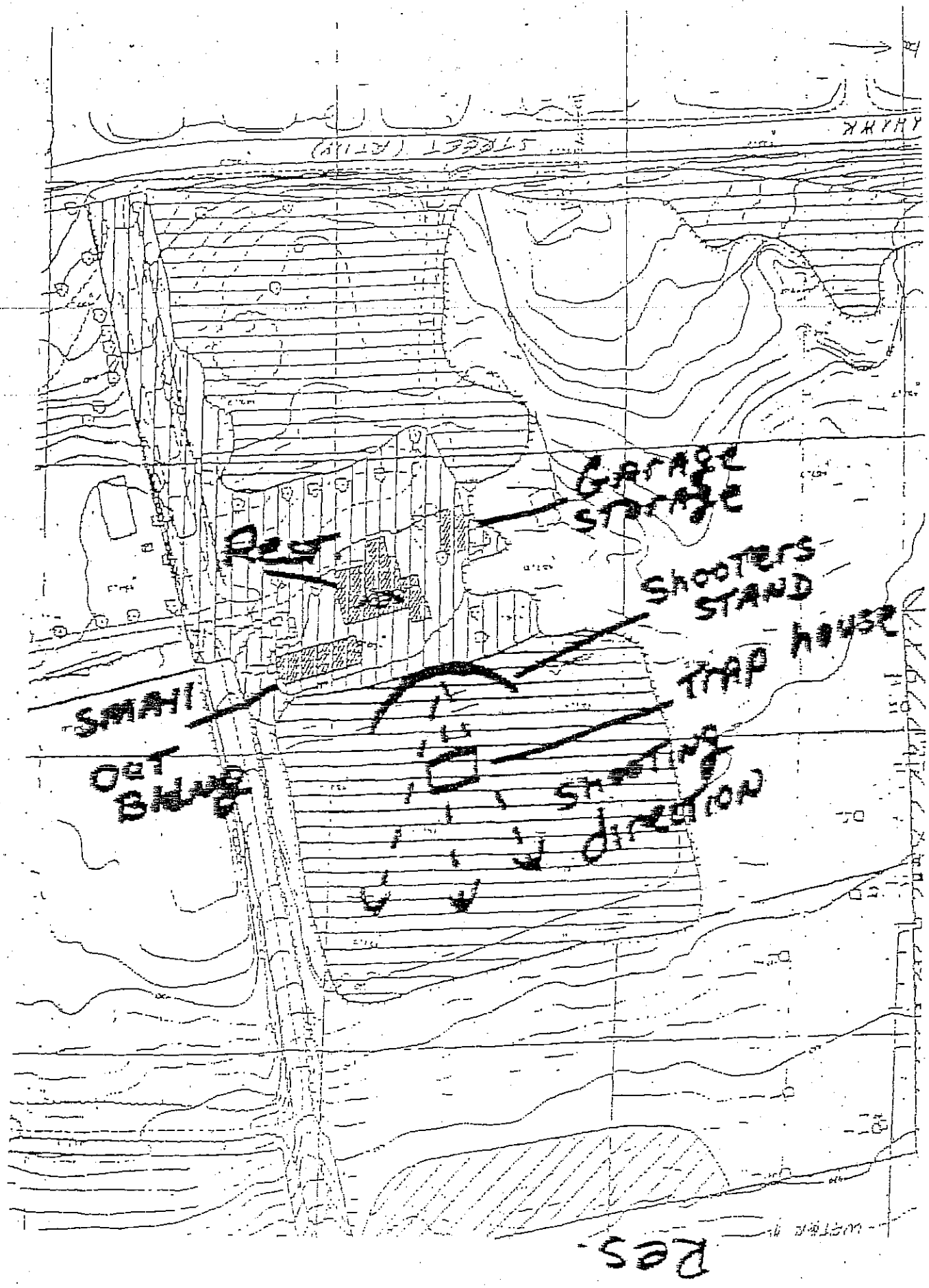
8. If Yes please describe

9. Does the diagram on the reverse side of this questionnaire accurately depict the locations of the buildings that were present on the site when shooting was occurring, the location from which shooting occurred and the direction in which the shot was fired YES AND

10. If not, please describe how the location of the shooters and/or the direction of the shooting differed from that depicted on the diagram STAND & TRAP HOUSE MORE NORTH & SHOOTING DIRECTION IS CORRECT

SIGNITURE J. D. Peters

DATE 11-18-04


Garage storage
Rest
Shooters stand
Trap house
Small out bldg
Shooting direction
Res.

APPENDIX B

Soil Boring Logs

Suelain Realty

ID NO. GP-1

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	15 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					TOPSOIL: Top soil composed of organic material, moist.	TOPSOIL		
					SAND AND SILT: Fill composed of SAND,fine and SILT, brown; some gravel, very fine; moist.	FILL		
5		0		68%	SILT: Fill composed of SILT, brown; trace sand, very fine, brown; trace gravel, very fine.	FILL		
10		15.2		28%	SILT: Fill composed of SILT, brown; trace sand, very fine, brown; trace gravel, very fine.	FILL		
					SAND: SAND, fine, tan.	SAND		
15					SILT: SILT, tan; some sand, very fine, tan; trace gravel, very fine.	SILT	Native soil interface observed.	

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. GP-2

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	15 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					TOPSOIL: Top soil composed of organic material, moist.	TOPSOIL		
					SILT: Fill composed of SILT, brown, moist.	FILL		
5		0.9		25%		FILL		
					SAND: SAND, very fine, tan.	SAND	Native soil interface observed.	
					SILT: Compact SILT; some sand, very fine; tan; moist; trace gravel, very fine.	SILT		
10		2.1		100%	SILT: Loose SILT, brown, saturated.	SILT		
					SILT: Compact SILT, tan; trace clay, grey and gravel, very fine.			
15								

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. GP-3

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	10 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					SILT: Fill composed of SILT, tan; trace sand, very fine, tan.	FILL		
					SAND: SAND, very fine, tan.	SAND		
					SILT: Compact SILT, tan; little sand, very fine, tan.	SILT	Native soil interface observed.	
					SAND: SAND, very fine, black.	SAND		
5		0.3		70%	SILT: Compact SILT, tan, brown; little sand, very fine, brown; trace gravel, very fine; moist.	SILT		
10		3.5		100%				
15								

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. **GP-4**

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	10 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					TOPSOIL: Fill composed of SILT, tan; trace sand, very fine, tan.	TOPSOIL		
					SAND: SAND, very fine, brown; some silt, brown.	SAND	Native soil interface observed.	
					SILT: Loose SILT, brown to tan; some sand, very fine, brown.	SILT		
5		10.6		90%	SILT: Compact SILT, brown to tan; little sand, very fine and gravel, very fine, brown to tan; moist.	SILT		
10		16.2		100%				
15								

Location:
Northing/Latitude: N/A
Easting/Longitude: N/A
Horizontal Datum: N/A
Vertical Datum: N/A

General Comments:

Symbol Key:
Apparent Water Level
Lab Sample Location

Suelain Realty

ID NO. **GP-5**

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	10 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					SAND AND SILT: Fill composed of SILT and SAND, very fine, brown to tan; little gravel, very fine; moist.	FILL		
					TOPSOIL: Organic material composed of top soil and decomposed plant matter.	ORGANICS	Native soil interface observed.	
5		0		72%	SILT: Loose SILT; little sand, very fine; brown to tan; some organic material.	SILT		
					SILT: Compact SILT; little sand, and gravel; very fine; brown to tan; moist.			
10								

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. GP-6

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	10 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					TOPSOIL: Top soil composed of organic material.	TOP SOIL	No fill material observed at this location.	
					SAND AND SILT: SAND, very fine and SILT; tan; little gravel, very fine; moist.	SAND and SILT		
5		0		86%	SAND AND SILT: SAND, very fine and SILT; tan; little gravel, very fine; moist.	SAND and SILT		
10								

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. GP-7

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	10 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					TOPSOIL: Top soil composed of organic material.	TOP SOIL	No fill material observed at this location.	
					SAND: SAND, very fine to fine; tan; some silt, brown; moist.	SAND		
5		0		60%	SAND: SAND, fine, brown; some interbedded rock fragments, grey, moist.	SAND		
10								

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. GP-8

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	20 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					SAND AND SILT: Fill composed of SAND, fine and SILT; brown to tan; little gravel; moist.	FILL		
5		0		66%	SAND and SILT: Fill composed of SAND, fine and SILT; brown to tan; little gravel; moist.	FILL		
10		0		80%	SAND and SILT: Fill composed of SAND, fine and SILT; brown to tan; little gravel; moist.	FILL		
15				64%	SAND and SILT: Fill composed of SAND, fine and SILT; brown to tan; little gravel; moist.	FILL		
					SAND: SAND, fine, brown to tan; some silt, brown to tan; and stone fragments.	SAND	Native soil interface observed.	
20					SAND and SILT: Compact SAND, fine and SILT; brown to tan; little gravel, very fine.	SAND and SILT		

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. **GP-9**

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	15 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					GRAVEL AND SAND: Fill composed of GRAVEL and SAND very fine, brown to tan.	FILL		
					SAND AND SILT: Fill composed of SAND very fine and SILT; tan, moist.			
5		0		60%	SAND and SILT: Fill composed of SAND, very fine and SILT; brown to tan; moist.	FILL		
					SAND: SAND, fine, brown.	SAND	Possible native soil interface observed.	
					SAND AND SILT: Compact SILT and SAND, very fine, brown to tan; little crushed stone.	SAND and SILT		
10		0		80%	SAND AND SILT: Loose SAND, fine and SILT; brown to tan; saturated.	SAND and SILT		
					SAND: SAND, fine, brown to tan; some silt, brown.	SAND		
					SILT: Compact SILT, brown; little sand and gravel, very fine, brown; refusal @ 14'.	SILT		
15		0		70%				
20								

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

Suelain Realty

ID NO. GP-10

Groundwater and Environmental Services, Inc.

PROJECT:	Granite Pointe Development	SURFACE ELEV.:	NA	TOTAL DEPTH:	10 feet
ADDRESS:	Route 202 and Granite Spring Road	WATER DEPTH	NA	CASING EL.:	
JOB NO.	1100553	BOREHOLE DIA.:	2.00 inch	WELL DIA.:	

Logged By:	M. DeGloria	Drilling Method:	Direct push technology
Dates Drilled:	12/2/2004	Sampling Method:	5-foot Macrocore
Drilling Company:	Glacier Drilling	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:	Truck-mounted Geoprobe	Field Screening:	Photoionization Detector (PID) (results in ppmV)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	Comments	COMPLETION DETAILS
0					TOPSOIL: Top soil composed of organic material.	TOP SOIL	No fill material observed at this location.	
					SAND AND SILT: SAND, fine and SILT; brown to tan; saturated.	SAND and SILT		
					GRAVEL: Crushed stone.	STONE		
5		0		64%	SAND AND SILT: SAND, very fine and SILT; brown; saturated.	SAND and SILT		
					SAND: SAND, fine, black	SAND		
					SAND AND SILT: Compact SAND, fine and SILT; brown	SAND AND SILT		
					GRAVEL: Crushed stone.	STONE		
10		0		80%				

Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

Horizontal Datum: N/A

Vertical Datum: N/A

General Comments:

Symbol Key:

Apparent Water Level

Lab Sample Location

APPENDIX C

December 2004 Laboratory Reports

Report Date:
16-Dec-04 15:38

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
DEC 27 2004
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:1100553

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA21517-01	GP-1 13.5-14.5'	Soil	02-Dec-04 12:00	04-Dec-04 10:15
SA21517-02	GP-2 7-8'	Soil	02-Dec-04 12:04	04-Dec-04 10:15
SA21517-03	GP-3 2-3'	Soil	02-Dec-04 12:08	04-Dec-04 10:15
SA21517-04	GP-4 5-10'	Soil	02-Dec-04 12:12	04-Dec-04 10:15
SA21517-05	GP-5 4.5-5.5'	Soil	02-Dec-04 12:16	04-Dec-04 10:15
SA21517-06	GP-6 0-5'	Soil	02-Dec-04 12:20	04-Dec-04 10:15
SA21517-07	GP-7 0-5'	Soil	02-Dec-04 12:25	04-Dec-04 10:15
SA21517-08	GP-8 17-18'	Soil	02-Dec-04 12:30	04-Dec-04 10:15
SA21517-09	GP-9 7.5-8.5'	Soil	02-Dec-04 12:35	04-Dec-04 10:15
SA21517-10	GP-10 1-2'	Soil	02-Dec-04 12:40	04-Dec-04 10:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 15 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 13.5-14.5' SA21517-01	1100553	Soil	02-Dec-04 12:00	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	6.2 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	6.2 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	6.2 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	6.2 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	12.4 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	6.2 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*94.0*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*102*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*109*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*103*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	105 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	105 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*87.6*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.55 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	89.2	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120551	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 7-8' SA21517-02	1100553	Soil	02-Dec-04 12:04	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	6.6 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	13.3 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*93.4*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*101*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*107*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*103*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	109 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	109 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	109 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	109 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.2*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*90.3*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.54 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	89.0	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120551	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 2-3' SA21517-03	1100553	Soil	02-Dec-04 12:08	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	6.4 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	12.8 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*93.0*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*104*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*109*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*102*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	114 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	114 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	114 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	114 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.1*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*83.5*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.97 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	88.2	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 5-10' SA21517-04	1100553	Soil	02-Dec-04 12:12	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	7.0 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	7.0 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	7.0 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	7.0 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	14.1 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	7.0 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*91.6*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*99.4*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*107*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	113 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	113 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	113 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	113 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*79.3*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*86.0*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	2.86 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	87.5	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 4.5-5.5' SA21517-05	1100553	Soil	02-Dec-04 12:16	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5030 Soil (high level)							VOC8
Benzene	BRL	78.4 ug/kg dry	50	SW 846 8260B	13-Dec-04	13-Dec-04	4120679	tim	
Ethylbenzene	BRL	78.4 ug/kg dry	50	"	"	"	"	"	
Methyl tert-butyl ether	BRL	78.4 ug/kg dry	50	"	"	"	"	"	
Toluene	BRL	78.4 ug/kg dry	50	"	"	"	"	"	
m,p-Xylene	BRL	157 ug/kg dry	50	"	"	"	"	"	
o-Xylene	BRL	78.4 ug/kg dry	50	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.4*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*97.2*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*96.4*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*103*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	120 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	175	120 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	227	120 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	201	120 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	293	120 ug/kg dry	1	"	"	"	"	"	
Chrysene	280	120 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	264	120 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	120 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	120 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	120 ug/kg dry	1	"	"	"	"	"	
Pyrene	305	120 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*60.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*89.6*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	23.9	1.86 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	77.3	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 0-5' SA21517-06	1100553	Soil	02-Dec-04 12:20	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	7.2 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	7.2 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	7.2 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	7.2 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	14.3 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	7.2 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*94.0*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*103*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*106*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	105 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	105 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	105 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*71.4*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*95.0*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.67 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	88.8	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 0-5' SA21517-07	1100553	Soil	02-Dec-04 12:25	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							VOC10
Benzene	BRL	8.8 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	8.8 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	8.8 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	8.8 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	17.7 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	8.8 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*92.8*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*102*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*110*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*103*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	107 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	107 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	107 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	107 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*91.2*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	6.43	1.70 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	87.4	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8 17-18' SA21517-08	1100553	Soil	02-Dec-04 12:30	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	6.4 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	12.7 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	6.4 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*91.2*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*99.2*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*107*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	108 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	108 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	108 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	108 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*72.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*92.9*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.66 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	89.2	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 7.5-8.5' SA21517-09	1100553	Soil	02-Dec-04 12:35	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							
Benzene	BRL	6.6 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	13.2 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	6.6 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*94.2*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*101*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*109*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	102 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	102 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	102 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	102 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*95.9*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.48 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	90.5	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 1-2' SA21517-10	1100553	Soil	02-Dec-04 12:40	04-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Volatile Organic Compounds									
VOC Extraction	Lab extracted	N/A	1	VOC	09-Dec-04	09-Dec-04	4120569	LN	
Volatile Organic Aromatics by SW846 8260B		Prepared by method SW846 5035A Soil (low level)							VOC10
Benzene	BRL	4.7 ug/kg dry	1	SW 846 8260B	10-Dec-04	11-Dec-04	4120618	tim	
Ethylbenzene	BRL	4.7 ug/kg dry	1	"	"	"	"	"	
Methyl tert-butyl ether	BRL	4.7 ug/kg dry	1	"	"	"	"	"	
Toluene	BRL	4.7 ug/kg dry	1	"	"	"	"	"	
m,p-Xylene	BRL	9.3 ug/kg dry	1	"	"	"	"	"	
o-Xylene	BRL	4.7 ug/kg dry	1	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*94.0*	*70-130 %*		"	"	"	"	"	
Surrogate: Toluene-d8	*102*	*70-130 %*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*108*	*70-130 %*		"	"	"	"	"	
Surrogate: Dibromofluoromethane	*102*	*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	115 ug/kg dry	1	SW846 8270C	14-Dec-04	15-Dec-04	4120738	M.B	
Acenaphthylene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	115 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	115 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	115 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.4*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*93.7*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 200 Series Methods									
Lead	BRL	1.99 mg/kg dry	1	EPA 200.7	15-Dec-04	16-Dec-04	4120757	RE	
General Chemistry Parameters									
% Solids	86.0	%	1	SM2540 G Mod.	09-Dec-04	10-Dec-04	4120553	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120618 - SW846 5035A Soil (low level)										
Blank (4120618-BLK1)				Prepared: 10-Dec-04 Analyzed: 11-Dec-04						
Benzene	BRL	5.0	ug/kg wet							
Ethylbenzene	BRL	5.0	ug/kg wet							
Methyl tert-butyl ether	BRL	5.0	ug/kg wet							
Toluene	BRL	5.0	ug/kg wet							
m,p-Xylene	BRL	10.0	ug/kg wet							
o-Xylene	BRL	5.0	ug/kg wet							
Surrogate: 4-Bromofluorobenzene	*46.4*		ug/kg wet	*50.0*		*92.8*	*70-130*			
Surrogate: Toluene-d8	*51.0*		ug/kg wet	*50.0*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*53.5*		ug/kg wet	*50.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*50.6*		ug/kg wet	*50.0*		*101*	*70-130*			
Batch 4120679 - SW846 5030 Soil (high level)										
Blank (4120679-BLK1)				Prepared & Analyzed: 13-Dec-04						
Benzene	BRL	1.0	ug/kg wet							
Ethylbenzene	BRL	1.0	ug/kg wet							
Methyl tert-butyl ether	BRL	1.0	ug/kg wet							
Toluene	BRL	1.0	ug/kg wet							
m,p-Xylene	BRL	2.0	ug/kg wet							
o-Xylene	BRL	1.0	ug/kg wet							
Surrogate: 4-Bromofluorobenzene	*47.8*		ug/kg wet	*50.0*		*95.6*	*70-130*			
Surrogate: Toluene-d8	*49.5*		ug/kg wet	*50.0*		*99.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*48.2*		ug/kg wet	*50.0*		*96.4*	*70-130*			
Surrogate: Dibromofluoromethane	*51.2*		ug/kg wet	*50.0*		*102*	*70-130*			
Matrix Spike (4120679-MS1)		**Source: SA21403-26**		Prepared & Analyzed: 13-Dec-04						
Benzene	21.7		ug/kg dry	20.0	BRL	108	70-130			
Toluene	21.1		ug/kg dry	20.0	BRL	106	70-130			
Chlorobenzene	22.0		ug/kg dry	20.0	BRL	110	70-130			
1,1-Dichloroethene	18.6		ug/kg dry	20.0	BRL	93.0	70-130			
Trichloroethene	22.5		ug/kg dry	20.0	BRL	112	70-130			
Surrogate: 4-Bromofluorobenzene	*48.3*		ug/kg dry	*50.0*		*96.6*	*70-130*			
Surrogate: Toluene-d8	*48.8*		ug/kg dry	*50.0*		*97.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*48.9*		ug/kg dry	*50.0*		*97.8*	*70-130*			
Surrogate: Dibromofluoromethane	*51.9*		ug/kg dry	*50.0*		*104*	*70-130*			
Matrix Spike Dup (4120679-MSD1)		**Source: SA21403-26**		Prepared & Analyzed: 13-Dec-04						
Benzene	21.4		ug/kg dry	20.0	BRL	107	70-130	0.930	30	
Toluene	21.2		ug/kg dry	20.0	BRL	106	70-130	0.00	30	
Chlorobenzene	21.8		ug/kg dry	20.0	BRL	109	70-130	0.913	30	
1,1-Dichloroethene	17.4		ug/kg dry	20.0	BRL	87.0	70-130	6.67	30	
Trichloroethene	22.4		ug/kg dry	20.0	BRL	112	70-130	0.00	30	
Surrogate: 4-Bromofluorobenzene	*48.6*		ug/kg dry	*50.0*		*97.2*	*70-130*			
Surrogate: Toluene-d8	*49.3*		ug/kg dry	*50.0*		*98.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*48.5*		ug/kg dry	*50.0*		*97.0*	*70-130*			
Surrogate: Dibromofluoromethane	*51.8*		ug/kg dry	*50.0*		*104*	*70-130*			

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120738 - SW846 3550B										
Blank (4120738-BLK1)				Prepared: 14-Dec-04 Analyzed: 15-Dec-04						
Acenaphthene	BRL	49.9	ug/kg wet							
Acenaphthylene	BRL	49.9	ug/kg wet							
Anthracene	BRL	49.9	ug/kg wet							
Benzo (a) anthracene	BRL	49.9	ug/kg wet							
Benzo (a) pyrene	BRL	49.9	ug/kg wet							
Benzo (b) fluoranthene	BRL	49.9	ug/kg wet							
Benzo (g,h,i) perylene	BRL	49.9	ug/kg wet							
Benzo (k) fluoranthene	BRL	49.9	ug/kg wet							
Chrysene	BRL	49.9	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	49.9	ug/kg wet							
Fluoranthene	BRL	49.9	ug/kg wet							
Fluorene	BRL	49.9	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	49.9	ug/kg wet							
1-Methylnaphthalene	BRL	49.9	ug/kg wet							
2-Methylnaphthalene	BRL	49.9	ug/kg wet							
Naphthalene	BRL	49.9	ug/kg wet							
Phenanthrene	BRL	49.9	ug/kg wet							
Pyrene	BRL	49.9	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*3580*		ug/kg wet	*5000*		*71.6*	*30-130*			
Surrogate: Terphenyl-dl4	*4740*		ug/kg wet	*5000*		*94.8*	*30-130*			
Duplicate (4120738-DUP1)			**Source: SA21519-01**	Prepared: 14-Dec-04 Analyzed: 15-Dec-04						
Acenaphthene	BRL	209	ug/kg dry		BRL				50	
Acenaphthylene	2310	209	ug/kg dry		1520			41.3	50	
Anthracene	1560	209	ug/kg dry		1290			18.9	50	
Benzo (a) anthracene	3940	209	ug/kg dry		3480			12.4	50	
Benzo (a) pyrene	3120	209	ug/kg dry		2510			21.7	50	
Benzo (b) fluoranthene	2100	209	ug/kg dry		1750			18.2	50	
Benzo (g,h,i) perylene	1580	209	ug/kg dry		1120			34.1	50	
Benzo (k) fluoranthene	2930	209	ug/kg dry		2680			8.91	50	
Chrysene	4040	209	ug/kg dry		3370			18.1	50	
Dibenzo (a,h) anthracene	440	209	ug/kg dry		184			82.1	50	QM-04
Fluoranthene	6560	209	ug/kg dry		5780			12.6	50	
Fluorene	BRL	209	ug/kg dry		113			41.4	50	
Indeno (1,2,3-cd) pyrene	1400	209	ug/kg dry		994			33.9	50	
1-Methylnaphthalene	BRL	209	ug/kg dry		BRL				50	
2-Methylnaphthalene	BRL	209	ug/kg dry		BRL				50	
Naphthalene	BRL	209	ug/kg dry		BRL				50	
Phenanthrene	1730	209	ug/kg dry		1590			8.43	50	
Pyrene	9570	209	ug/kg dry		8440			12.5	50	
Surrogate: 2-Fluorobiphenyl	*6030*		ug/kg dry	*10500*		*57.4*	*30-130*			
Surrogate: Terphenyl-dl4	*9120*		ug/kg dry	*10500*		*86.9*	*30-130*			
Matrix Spike (4120738-MS1)			**Source: SA21517-09**	Prepared: 14-Dec-04 Analyzed: 15-Dec-04						
Acenaphthene	3710	50.9	ug/kg dry	5090	BRL	72.9	40-140			
Pyrene	4680	50.9	ug/kg dry	5090	BRL	91.9	40-140			
Surrogate: 2-Fluorobiphenyl	*3640*		ug/kg dry	*5090*		*71.5*	*30-130*			
Surrogate: Terphenyl-dl4	*4910*		ug/kg dry	*5090*		*96.5*	*30-130*			
Matrix Spike Dup (4120738-MSD1)			**Source: SA21517-09**	Prepared: 14-Dec-04 Analyzed: 15-Dec-04						
Acenaphthene	3720	50.9	ug/kg dry	5090	BRL	73.1	40-140	0.274	30	
Pyrene	4700	50.9	ug/kg dry	5090	BRL	92.3	40-140	0.434	30	
Surrogate: 2-Fluorobiphenyl	*3670*		ug/kg dry	*5090*		*72.1*	*30-130*			
Surrogate: Terphenyl-dl4	*4780*		ug/kg dry	*5090*		*93.9*	*30-130*			

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120757 - EPA 200 Series										
Blank (4120757-BLK1)				Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	BRL	1.50	mg/kg wet							
LCS (4120757-BS1)				Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	1.02	0.0150	mg/kg wet	1.00		102	85-115			
Duplicate (4120757-DUP1)		Source: SA21464-01		Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	136	1.75	mg/kg dry		165			19.3	35	
Duplicate (4120757-DUP2)		Source: SA21517-09		Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	BRL	1.59	mg/kg dry		BRL				35	
Matrix Spike (4120757-MS1)		Source: SA21464-02		Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	634	1.98	mg/kg dry	132	467	127	70-130			
Matrix Spike (4120757-MS2)		Source: SA21517-10		Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	103	1.59	mg/kg dry	106	1.92	95.4	70-130			
Matrix Spike Dup (4120757-MSD1)		Source: SA21464-02		Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	573	1.99	mg/kg dry	133	467	79.7	70-130	10.1	35	
Matrix Spike Dup (4120757-MSD2)		Source: SA21517-10		Prepared: 15-Dec-04 Analyzed: 16-Dec-04						
Lead	109	1.70	mg/kg dry	113	1.92	94.8	70-130	5.66	35	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120551 - General Preparation										
Duplicate (4120551-DUP1)		Source: SA21517-02		Prepared: 09-Dec-04 Analyzed: 10-Dec-04						
% Solids	88.6		%		89.0			0.450	20	
Batch 4120553 - General Preparation										
Duplicate (4120553-DUP1)		Source: SA21527-01		Prepared: 09-Dec-04 Analyzed: 10-Dec-04						
% Solids	95.2		%		95.4			0.210	20	

Notes and Definitions

QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
vext1	Lab extracted
VOC10	The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio.
VOC8	Reporting limits reflect SW846 5030 extraction technique due to matrix interference using SW846 5035A extraction technique.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA21517 MM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: MICHAEL DEGLORIA
GES 25 JON BARRETT RD.
ROBIN HILL CORP. PARK
PATTERSON, NY. 12563

Project Mgr.: _____

Invoice To: SAME
WW#4009201

P.O. No.: _____ RON: DISCOUNTED PRICING

Project No.: 1100553
Site Name: GRANITE POINTE
Location: SOMERS State: N.Y.
Sampler(s): MICHAEL DEGLORIA

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	LEAD BY 200.7	8260 BTEX/MTBE ONLY	PAHs							Notes:
SA21517-01	GP-1 13.5-14.5'	12-2-04	12:00	G	SO	–	–	–	2	–	X	X	X							
-02	GP-2 7-8'	12-2-04	12:04	G	SO	–	–	–	2	–	X	X	X							
-03	GP-3 2-3'	12-2-04	12:08	G	SO	–	–	–	2	–	X	X	X							
-04	GP-4 5-10'	12-2-04	12:12	G	SO	–	–	–	2	–	X	X	X							
-05	GP-5 4.5-5.5'	12-2-04	12:16	G	SO	–	–	–	2	–	X	X	X							
-06	GP-6 0-5'	12-2-04	12:20	G	SO	–	–	–	2	–	X	X	X							
-07	GP-7 0-5'	12-2-04	12:25	G	SO	–	–	–	2	–	X	X	X							
-08	GP-8 17-18'	12-2-04	12:30	G	SO	–	–	–	2	–	X	X	X							
-09	GP-9 7.5-8.5'	12-2-04	12:35	G	SO	–	–	–	2	–	X	X	X							
-70	GP-10 1-2'	12-2-04	12:40	G	SO	–	–	–	2	–	X	X	X							

* SPECIAL DISCOUNTED PRICING PLEASE

☐ Fax results when available to (____) _____

☒ E-mail results when available to MDeGloria@GESonline.com

Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 4 °C

Relinquished by:	Received by:	Date:	Time:
Michael DeGloria			
FedX	Joe Kozak	12-4-04	10:15 AM

Report Date:
20-Dec-04 16:06

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
DEC 27 2004
By_____

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:1100553

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA21843-01	BG-1	Soil	14-Dec-04 08:50	16-Dec-04 10:03
SA21843-02	BG-2	Soil	14-Dec-04 08:50	16-Dec-04 10:03
SA21843-03	BG-3	Soil	14-Dec-04 08:50	16-Dec-04 10:03
SA21843-04	BG-4	Soil	14-Dec-04 09:00	16-Dec-04 10:03
SA21843-05	BG-5	Soil	14-Dec-04 09:00	16-Dec-04 10:03
SA21843-06	BG-6	Soil	14-Dec-04 09:00	16-Dec-04 10:03

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 12 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-1 SA21843-01	1100553	Soil	14-Dec-04 08:50	16-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	182 ug/kg dry	1	SW846 8270C	17-Dec-04	18-Dec-04	4120983	M.B	
Acenaphthylene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	182 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	182 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.2*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*93.8*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.277 mg/kg dry	1	SW846 7471A	16-Dec-04	17-Dec-04	4120955	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.90 mg/kg dry	1	EPA 200.7	16-Dec-04	16-Dec-04	4120953	CR	
Arsenic	10.2	4.35 mg/kg dry	1	"	"	"	"	"	
Barium	86.0	1.45 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.725 mg/kg dry	1	"	"	"	"	"	
Chromium	16.2	1.45 mg/kg dry	1	"	"	"	"	"	
Lead	34.1	2.18 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.35 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	16-Dec-04	16-Dec-04	4120993	HB	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	17-Dec-04	20-Dec-04	4120998	CR	
Barium	BRL	0.200 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	63.3	%	1	SM2540 G Mod.	16-Dec-04	17-Dec-04	4120966	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-2 SA21843-02	1100553	Soil	14-Dec-04 08:50	16-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	193 ug/kg dry	1	SW846 8270C	17-Dec-04	18-Dec-04	4120983	M.B	
Acenaphthylene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	193 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	193 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	193 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*82.9*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*103*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.252 mg/kg dry	1	SW846 7471A	16-Dec-04	17-Dec-04	4120955	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.82 mg/kg dry	1	EPA 200.7	16-Dec-04	16-Dec-04	4120953	CR	
Arsenic	BRL	4.94 mg/kg dry	1	"	"	"	"	"	
Barium	42.3	1.41 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.706 mg/kg dry	1	"	"	"	"	"	
Chromium	10.4	1.41 mg/kg dry	1	"	"	"	"	"	
Lead	44.2	2.12 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.24 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	16-Dec-04	16-Dec-04	4120993	HB	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	17-Dec-04	20-Dec-04	4120998	CR	
Barium	BRL	0.200 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	68.6	%	1	SM2540 G Mod.	16-Dec-04	17-Dec-04	4120966	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-3 SA21843-03	1100553	Soil	14-Dec-04 08:50	16-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	145 ug/kg dry	1	SW846 8270C	17-Dec-04	18-Dec-04	4120983	M.B	
Acenaphthylene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	192	145 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	196	145 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	154	145 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	193	145 ug/kg dry	1	"	"	"	"	"	
Chrysene	197	145 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	341	145 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	145 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	145 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Pyrene	282	145 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*93.9*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.224 mg/kg dry	1	SW846 7471A	16-Dec-04	17-Dec-04	4120955	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.60 mg/kg dry	1	EPA 200.7	16-Dec-04	16-Dec-04	4120953	CR	
Arsenic	8.77	3.90 mg/kg dry	1	"	"	"	"	"	
Barium	64.5	1.30 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.651 mg/kg dry	1	"	"	"	"	"	
Chromium	13.4	1.30 mg/kg dry	1	"	"	"	"	"	
Lead	84.3	1.95 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.90 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	16-Dec-04	16-Dec-04	4120993	HB	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	17-Dec-04	20-Dec-04	4120998	CR	
Barium	BRL	0.200 mg/l	1	"	"	"	"	"	
Lead	0.0310	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	75.2	%	1	SM2540 G Mod.	16-Dec-04	17-Dec-04	4120966	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-4 SA21843-04	1100553	Soil	14-Dec-04 09:00	16-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	161 ug/kg dry	1	SW846 8270C	17-Dec-04	18-Dec-04	4120983	M.B	
Acenaphthylene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	161 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	161 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	161 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*84.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*104*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.218 mg/kg dry	1	SW846 7471A	16-Dec-04	17-Dec-04	4120955	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.59 mg/kg dry	1	EPA 200.7	16-Dec-04	16-Dec-04	4120953	CR	
Arsenic	BRL	4.92 mg/kg dry	1	"	"	"	"	"	
Barium	37.2	1.30 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.648 mg/kg dry	1	"	"	"	"	"	
Chromium	9.10	1.30 mg/kg dry	1	"	"	"	"	"	
Lead	25.3	1.94 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.89 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	16-Dec-04	16-Dec-04	4120993	HB	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	17-Dec-04	20-Dec-04	4120998	CR	
Barium	BRL	0.200 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	74.6	%	1	SM2540 G Mod.	16-Dec-04	17-Dec-04	4120966	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-5 SA21843-05	1100553	Soil	14-Dec-04 09:00	16-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	148 ug/kg dry	1	SW846 8270C	17-Dec-04	18-Dec-04	4120983	M.B	
Acenaphthylene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	148 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	148 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	148 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*78.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*101*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.212 mg/kg dry	1	SW846 7471A	16-Dec-04	17-Dec-04	4120955	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.42 mg/kg dry	1	EPA 200.7	16-Dec-04	16-Dec-04	4120953	CR	
Arsenic	6.07	3.63 mg/kg dry	1	"	"	"	"	"	
Barium	38.0	1.21 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.605 mg/kg dry	1	"	"	"	"	"	
Chromium	10.5	1.21 mg/kg dry	1	"	"	"	"	"	
Lead	32.1	1.82 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.63 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	16-Dec-04	16-Dec-04	4120993	HB	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	17-Dec-04	20-Dec-04	4120998	CR	
Barium	BRL	0.200 mg/l	1	"	"	"	"	"	
Lead	0.0156	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	75.9	%	1	SM2540 G Mod.	16-Dec-04	17-Dec-04	4120966	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-6 SA21843-06	1100553	Soil	14-Dec-04 09:00	16-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	174 ug/kg dry	1	SW846 8270C	17-Dec-04	18-Dec-04	4120983	M.B	
Acenaphthylene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	225	174 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	174 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	174 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	174 ug/kg dry	1	"	"	"	"	"	
Pyrene	189	174 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*78.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*98.6*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.234 mg/kg dry	1	SW846 7471A	16-Dec-04	17-Dec-04	4120955	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.54 mg/kg dry	1	EPA 200.7	16-Dec-04	16-Dec-04	4120953	CR	
Arsenic	8.65	3.82 mg/kg dry	1	"	"	"	"	"	
Barium	31.2	1.27 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.636 mg/kg dry	1	"	"	"	"	"	
Chromium	13.0	1.27 mg/kg dry	1	"	"	"	"	"	
Lead	609	1.91 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.82 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	16-Dec-04	16-Dec-04	4120993	HB	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	17-Dec-04	20-Dec-04	4120998	CR	
Barium	BRL	0.200 mg/l	1	"	"	"	"	"	
Lead	0.712	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	69.8	%	1	SM2540 G Mod.	16-Dec-04	17-Dec-04	4120966	LN	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120983 - SW846 3550B										
Blank (4120983-BLK1)				Prepared & Analyzed: 17-Dec-04						
Acenaphthene	BRL	66.6	ug/kg wet							
Acenaphthylene	BRL	66.6	ug/kg wet							
Anthracene	BRL	66.6	ug/kg wet							
Benzo (a) anthracene	BRL	66.6	ug/kg wet							
Benzo (a) pyrene	BRL	66.6	ug/kg wet							
Benzo (b) fluoranthene	BRL	66.6	ug/kg wet							
Benzo (g,h,i) perylene	BRL	66.6	ug/kg wet							
Benzo (k) fluoranthene	BRL	66.6	ug/kg wet							
Chrysene	BRL	66.6	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	66.6	ug/kg wet							
Fluoranthene	BRL	66.6	ug/kg wet							
Fluorene	BRL	66.6	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	66.6	ug/kg wet							
1-Methylnaphthalene	BRL	66.6	ug/kg wet							
2-Methylnaphthalene	BRL	66.6	ug/kg wet							
Naphthalene	BRL	66.6	ug/kg wet							
Phenanthrene	BRL	66.6	ug/kg wet							
Pyrene	BRL	66.6	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*3890*		ug/kg wet	*6670*		*58.3*	*30-130*			
Surrogate: Terphenyl-dl4	*4760*		ug/kg wet	*6670*		*71.4*	*30-130*			
Duplicate (4120983-DUP1)		Source: SA21808-01		Prepared & Analyzed: 17-Dec-04						
Acenaphthene	BRL	144	ug/kg dry		BRL				50	
Acenaphthylene	BRL	144	ug/kg dry		BRL				50	
Anthracene	BRL	144	ug/kg dry		BRL				50	
Benzo (a) anthracene	BRL	144	ug/kg dry		BRL				50	
Benzo (a) pyrene	BRL	144	ug/kg dry		BRL				50	
Benzo (b) fluoranthene	BRL	144	ug/kg dry		BRL				50	
Benzo (g,h,i) perylene	BRL	144	ug/kg dry		BRL				50	
Benzo (k) fluoranthene	BRL	144	ug/kg dry		BRL				50	
Chrysene	BRL	144	ug/kg dry		BRL				50	
Dibenzo (a,h) anthracene	BRL	144	ug/kg dry		BRL				50	
Fluoranthene	BRL	144	ug/kg dry		BRL				50	
Fluorene	BRL	144	ug/kg dry		BRL				50	
Indeno (1,2,3-cd) pyrene	BRL	144	ug/kg dry		BRL				50	
1-Methylnaphthalene	BRL	144	ug/kg dry		BRL				50	
2-Methylnaphthalene	BRL	144	ug/kg dry		BRL				50	
Naphthalene	BRL	144	ug/kg dry		BRL				50	
Phenanthrene	BRL	144	ug/kg dry		BRL				50	
Pyrene	BRL	144	ug/kg dry		BRL				50	
Surrogate: 2-Fluorobiphenyl	*4110*		ug/kg dry	*7210*		*57.0*	*30-130*			
Surrogate: Terphenyl-dl4	*4650*		ug/kg dry	*7210*		*64.5*	*30-130*			
Matrix Spike (4120983-MS1)		Source: SA21808-01		Prepared & Analyzed: 17-Dec-04						
Acenaphthene	4700	72.0	ug/kg dry	7210	BRL	65.2	40-140			
Pyrene	5020	72.0	ug/kg dry	7210	BRL	69.6	40-140			
Surrogate: 2-Fluorobiphenyl	*4760*		ug/kg dry	*7210*		*66.0*	*30-130*			
Surrogate: Terphenyl-dl4	*6060*		ug/kg dry	*7210*		*84.0*	*30-130*			
Matrix Spike Dup (4120983-MSD1)		Source: SA21808-01		Prepared & Analyzed: 17-Dec-04						
Acenaphthene	4220	72.1	ug/kg dry	7210	BRL	58.5	40-140	10.8	30	
Pyrene	4440	72.1	ug/kg dry	7210	BRL	61.6	40-140	12.2	30	
Surrogate: 2-Fluorobiphenyl	*4480*		ug/kg dry	*7210*		*62.1*	*30-130*			
Surrogate: Terphenyl-dl4	*5420*		ug/kg dry	*7210*		*75.2*	*30-130*			

Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120955 - EPA200/SW7000 Series										
Blank (4120955-BLK1)				Prepared: 16-Dec-04 Analyzed: 17-Dec-04						
Mercury	BRL	0.179	mg/kg wet							
LCS (4120955-BS1)				Prepared: 16-Dec-04 Analyzed: 17-Dec-04						
Mercury	0.835	0.179	mg/kg wet	0.893		93.5	80-120			
Duplicate (4120955-DUP1)		Source: SA21843-01		Prepared: 16-Dec-04 Analyzed: 17-Dec-04						
Mercury	BRL	0.282	mg/kg dry		0.148			6.27	35	
Matrix Spike (4120955-MS1)		Source: SA21843-02		Prepared: 16-Dec-04 Analyzed: 17-Dec-04						
Mercury	0.618	0.241	mg/kg dry	0.560	0.141	85.2	75-125			
Matrix Spike Dup (4120955-MSD1)		Source: SA21843-02		Prepared: 16-Dec-04 Analyzed: 17-Dec-04						
Mercury	0.654	0.251	mg/kg dry	0.584	0.141	87.8	75-125	5.66	35	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120953 - EPA 200 Series										
Blank (4120953-BLK1)				Prepared & Analyzed: 16-Dec-04						
Silver	BRL	2.00	mg/kg wet							
Selenium	BRL	3.00	mg/kg wet							
Lead	BRL	1.50	mg/kg wet							
Chromium	BRL	1.00	mg/kg wet							
Arsenic	BRL	3.00	mg/kg wet							
Cadmium	BRL	0.500	mg/kg wet							
Barium	BRL	1.00	mg/kg wet							
LCS (4120953-BS1)				Prepared & Analyzed: 16-Dec-04						
Selenium	1.03	0.0300	mg/kg wet	1.00		103	85-115			
Silver	1.05	0.0400	mg/kg wet	1.00		105	85-115			
Lead	1.07	0.0150	mg/kg wet	1.00		107	85-115			
Chromium	1.05	0.0100	mg/kg wet	1.00		105	85-115			
Cadmium	1.05	0.0050	mg/kg wet	1.00		105	85-115			
Arsenic	1.05	0.0300	mg/kg wet	1.00		105	85-115			
Barium	1.09	0.0100	mg/kg wet	1.00		109	85-115			
Duplicate (4120953-DUP1)		Source: SA21843-01		Prepared & Analyzed: 16-Dec-04						
Selenium	BRL	4.37	mg/kg dry		BRL				35	
Silver	BRL	2.91	mg/kg dry		BRL				35	
Arsenic	9.06	4.37	mg/kg dry		10.2			11.8	35	
Cadmium	BRL	0.728	mg/kg dry		0.406			6.88	35	
Chromium	15.1	1.46	mg/kg dry		16.2			7.03	35	
Lead	37.2	2.18	mg/kg dry		34.1			8.70	35	
Barium	83.6	1.46	mg/kg dry		86.0			2.83	35	
Matrix Spike (4120953-MS1)		Source: SA21843-02		Prepared & Analyzed: 16-Dec-04						
Silver	71.7	2.90	mg/kg dry	72.4	BRL	99.0	70-130			
Selenium	152	4.35	mg/kg dry	145	BRL	105	70-130			
Cadmium	155	0.724	mg/kg dry	145	0.198	107	70-130			
Chromium	167	1.45	mg/kg dry	145	10.4	108	70-130			
Lead	246	2.17	mg/kg dry	145	44.2	139	70-130			QM-07
Arsenic	160	4.35	mg/kg dry	145	4.87	107	70-130			
Barium	205	1.45	mg/kg dry	145	42.3	112	70-130			
Matrix Spike Dup (4120953-MSD1)		Source: SA21843-02		Prepared & Analyzed: 16-Dec-04						
Silver	70.5	2.86	mg/kg dry	71.6	BRL	98.5	70-130	1.69	35	
Selenium	154	4.30	mg/kg dry	143	BRL	108	70-130	1.31	35	
Chromium	160	1.43	mg/kg dry	143	10.4	105	70-130	4.28	35	
Lead	230	2.15	mg/kg dry	143	44.2	130	70-130	6.72	35	
Cadmium	153	0.716	mg/kg dry	143	0.198	107	70-130	1.30	35	
Arsenic	164	4.30	mg/kg dry	143	4.87	111	70-130	2.47	35	
Barium	191	1.43	mg/kg dry	143	42.3	104	70-130	7.07	35	
Reference (4120953-SRM1)				Prepared & Analyzed: 16-Dec-04						
Selenium	115	3.00	mg/kg wet	111		104	85-115			
Silver	25.5	2.00	mg/kg wet	25.5		100	85-115			
Cadmium	116	0.500	mg/kg wet	113		103	85-115			
Chromium	64.0	1.00	mg/kg wet	56.0		114	85-115			
Barium	13.0	1.00	mg/kg wet	12.8		102	85-115			

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120993 - SW846 1311									
Blank (4120993-BLK1)			Prepared & Analyzed: 16-Dec-04						
TCLP Extraction	Completed	N/A							
Batch 4120998 - SW846 3010A									
Blank (4120998-BLK1)			Prepared: 17-Dec-04 Analyzed: 20-Dec-04						
Lead	BRL	0.0075 mg/l							
Arsenic	BRL	0.0150 mg/l							
Barium	BRL	0.200 mg/l							
LCS (4120998-BS1)			Prepared: 17-Dec-04 Analyzed: 20-Dec-04						
Lead	0.185	0.0030 mg/l	0.200		92.5	85-115			
Arsenic	0.187	0.0060 mg/l	0.200		93.5	85-115			
Barium	0.175	0.0050 mg/l	0.200		87.5	85-115			
LCS Dup (4120998-BSD1)			Prepared: 17-Dec-04 Analyzed: 20-Dec-04						
Lead	0.190	0.0030 mg/l	0.200		95.0	85-115	2.67	20	
Arsenic	0.188	0.0060 mg/l	0.200		94.0	85-115	0.533	20	
Barium	0.183	0.0050 mg/l	0.200		91.5	85-115	4.47	20	
Duplicate (4120998-DUP1)		**Source: SA21843-01**	Prepared: 17-Dec-04 Analyzed: 20-Dec-04						
Lead	BRL	0.0075 mg/l		BRL				20	
Arsenic	BRL	0.0150 mg/l		BRL				20	
Barium	BRL	0.200 mg/l		0.111			0.897	20	
Matrix Spike (4120998-MS1)		**Source: SA21843-02**	Prepared: 17-Dec-04 Analyzed: 20-Dec-04						
Lead	0.165	0.0075 mg/l	0.200	0.0046	80.2	75-125			
Arsenic	0.158	0.0150 mg/l	0.200	BRL	79.0	75-125			
Barium	0.252	0.0050 mg/l	0.200	0.0866	82.7	75-125			
Matrix Spike Dup (4120998-MSD1)		**Source: SA21843-02**	Prepared: 17-Dec-04 Analyzed: 20-Dec-04						
Lead	0.156	0.0075 mg/l	0.200	0.0046	75.7	75-125	5.61	20	
Arsenic	0.158	0.0150 mg/l	0.200	BRL	79.0	75-125	0.00	20	
Barium	0.247	0.0050 mg/l	0.200	0.0866	80.2	75-125	2.00	20	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4120966 - General Preparation									
Duplicate (4120966-DUP1)		**Source: SA21860-04**	Prepared: 16-Dec-04 Analyzed: 17-Dec-04						
% Solids	84.2	%		83.9			0.357	20	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

Comp	Completed
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA 21843 (R) MM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: ~~12-16~~ 12/17 & 12/20 PURR
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES
25 JON BARRETT RD
PATTERSON, N.Y. 12563

Project Mgr.: MICHAEL DEGLORIA

Invoice To: GAME
IW#4009302 (M) 5093

P.O. No.: _____ RQN: SPECIAL PRICING!

Project No.: 1100553
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s): MICHAEL DEGLORIA

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	RCRA Metals	TCLP Metals Pb As Ba	~~PAHs 200.7~~	8270 PAHs						Notes:
21843-01	BG-1	12-14-04	0850	G	SO	—			2		✓	✓	✓	✓						per attached E-mail
-02	BG-2	↓	0850	↓	↓	↓			↓		↓	↓	↓	↓						
-03	BG-3	↓	0850	↓	↓	↓			↓		↓	↓	↓	↓						
-04	BG-4	↓	0900	↓	↓	↓			↓		↓	↓	↓	↓						
-05	BG-5	↓	0900	↓	↓	↓			↓		↓	↓	↓	↓						
-06	BG-6	↓	0900	↓	↓	↓			↓		↓	↓	↓	↓						

Relinquished by:	Received by:	Date:	Time:
Michael Deglo[illegible]	FedEx	—	—
FedEx	Manuel Melendez	12/16/04	1003

☐ Fax results when available to (____) _____
☐ E-mail results when available to MDEGLORIA@GESONLINE
Condition upon Receipt: ☒ Iced ☐ Ambient ☒ -1 °C

Report Date:
06-Jan-05 15:41

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
JAN 17 2004
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:Suelain Realty

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA22140-01	H-32	Soil	15-Dec-04 12:00	23-Dec-04 10:30
SA22140-02	G-29	Soil	14-Dec-04 09:00	23-Dec-04 10:30
SA22140-03	A-37	Soil	16-Dec-04 09:00	23-Dec-04 10:30
SA22140-04	D-33	Soil	16-Dec-04 09:10	23-Dec-04 10:30
SA22140-05	C-26	Soil	14-Dec-04 10:00	23-Dec-04 10:30
SA22140-06	A-15	Soil	14-Dec-04 10:40	23-Dec-04 10:30
SA22140-07	F-18	Soil	14-Dec-04 12:10	23-Dec-04 10:30
SA22140-08	Area 2 D-4	Soil	15-Dec-04 13:00	23-Dec-04 10:30
SA22140-09	Area 2 B-2	Soil	15-Dec-04 12:35	23-Dec-04 10:30
SA22140-10	G-9	Soil	14-Dec-04 14:00	23-Dec-04 10:30
SA22140-11	O-11	Soil	16-Dec-04 14:00	23-Dec-04 10:30
SA22140-12	I-17	Soil	15-Dec-04 15:00	23-Dec-04 10:30
SA22140-13	L-28	Soil	15-Dec-04 15:40	23-Dec-04 10:30
SA22140-14	B-39	Soil	16-Dec-04 08:05	23-Dec-04 10:30
SA22140-15	O-13	Soil	16-Dec-04 14:05	23-Dec-04 10:30
SA22140-16	J-31	Soil	15-Dec-04 15:20	23-Dec-04 10:30
SA22140-17	A-40	Soil	16-Dec-04 08:10	23-Dec-04 10:30
SA22140-18	E-34	Soil	14-Dec-04 09:30	23-Dec-04 10:30
SA22140-19	L-27	Soil	15-Dec-04 15:30	23-Dec-04 10:30
SA22140-20	K-18	Soil	15-Dec-04 14:20	23-Dec-04 10:30
SA22140-21	C-13	Soil	14-Dec-04 12:15	23-Dec-04 10:30
SA22140-22	E-19	Soil	14-Dec-04 14:10	23-Dec-04 10:30
SA22140-23	K-28	Soil	15-Dec-04 14:00	23-Dec-04 10:30
SA22140-24	M-15	Soil	15-Dec-04 15:40	23-Dec-04 10:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 35 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H-32 SA22140-01	Suelain Realty	Soil	15-Dec-04 12:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	202 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	513	202 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	798	202 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	935	202 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	503	202 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	337	202 ug/kg dry	1	"	"	"	"	"	
Chrysene	647	202 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	558	202 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	447	202 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	202 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	210	202 ug/kg dry	1	"	"	"	"	"	
Pyrene	495	202 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.8*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*75.2*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.227 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.55 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	7.15	3.83 mg/kg dry	1	"	"	"	"	"	
Barium	55.8	1.28 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.46	0.638 mg/kg dry	1	"	"	"	"	"	
Chromium	17.3	1.28 mg/kg dry	1	"	"	"	"	"	
Lead	366	1.91 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.83 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0195 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	4.50	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	74.6	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-29 SA22140-02	Suelain Realty	Soil	14-Dec-04 09:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.236 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.65 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	BRL	3.98 mg/kg dry	1	"	"	"	"	"	
Barium	71.9	1.33 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.47	0.663 mg/kg dry	1	"	"	"	"	"	
Chromium	14.1	1.33 mg/kg dry	1	"	"	"	"	"	
Lead	433	1.99 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.98 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.343	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.5	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-37 SA22140-03	Suelain Realty	Soil	16-Dec-04 09:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	320 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	320 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	320 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	320 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*66.2*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.370	0.325 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	3.67 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	24.3	5.50 mg/kg dry	1	"	"	"	"	"	
Barium	91.4	1.83 mg/kg dry	1	"	"	"	"	"	
Cadmium	0.972	0.917 mg/kg dry	1	"	"	"	"	"	
Chromium	9.70	1.83 mg/kg dry	1	"	"	"	"	"	
Lead	1,690	2.75 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	5.50 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	0.218	0.185 mg/l	1	"	"	"	"	"	
Lead	0.622	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	53.9	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
D-33 SA22140-04	Suelain Realty	Soil	16-Dec-04 09:10	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.228 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.68 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	BRL	4.03 mg/kg dry	1	"	"	"	"	"	
Barium	70.8	1.34 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.49	0.671 mg/kg dry	1	"	"	"	"	"	
Chromium	16.7	1.34 mg/kg dry	1	"	"	"	"	"	
Lead	578	2.01 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.03 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.699	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	70.5	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-26 SA22140-05	Suelain Realty	Soil	14-Dec-04 10:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	195 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	195 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*70.0*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.199 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.12 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	578	3.19 mg/kg dry	1	"	"	"	"	"	
Barium	28.1	1.06 mg/kg dry	1	"	"	"	"	"	
Cadmium	0.903	0.531 mg/kg dry	1	"	"	"	"	"	
Chromium	8.75	1.06 mg/kg dry	1	"	"	"	"	"	
Lead	31,800	31.9 mg/kg dry	20	"	"	28-Dec-04	4121502	"	
Selenium	BRL	3.19 mg/kg dry	1	"	"	27-Dec-04	4121430	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	2.80	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	86.4	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-15 SA22140-06	Suelain Realty	Soil	14-Dec-04 10:40	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.290	0.222 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	7.77	2.59 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	1,160	3.89 mg/kg dry	1	"	"	"	"	"	
Barium	53.7	1.30 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.27	0.648 mg/kg dry	1	"	"	"	"	"	
Chromium	13.4	1.30 mg/kg dry	1	"	"	"	"	"	
Lead	64,700	38.9 mg/kg dry	20	"	"	28-Dec-04	4121502	"	
Selenium	BRL	3.89 mg/kg dry	1	"	"	27-Dec-04	4121430	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	3.42	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	0.294	0.185 mg/l	1	"	"	"	"	"	
Lead	596	0.750 mg/l	100	"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.9	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
F-18 SA22140-07	Suelain Realty	Soil	14-Dec-04 12:10	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	219 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	219 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	219 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	219 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*73.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*76.9*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.252 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	3.16	2.83 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	160	4.25 mg/kg dry	1	"	"	"	"	"	
Barium	44.7	1.42 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.30	0.708 mg/kg dry	1	"	"	"	"	"	
Chromium	14.1	1.42 mg/kg dry	1	"	"	"	"	"	
Lead	28,400	42.5 mg/kg dry	20	"	"	28-Dec-04	4121502	"	
Selenium	BRL	4.25 mg/kg dry	1	"	"	27-Dec-04	4121430	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	0.660	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	135	0.150 mg/l	20	"	"	"	"	"	
General Chemistry Parameters									
% Solids	69.5	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Area 2 D-4 SA22140-08	Suelain Realty	Soil	15-Dec-04 13:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	196 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	196 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	196 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	196 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*63.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*65.6*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.203 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.26 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
Barium	56.7	1.13 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.64	0.565 mg/kg dry	1	"	"	"	"	"	
Chromium	14.3	1.13 mg/kg dry	1	"	"	"	"	"	
Lead	104	1.69 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	0.320	0.185 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0225 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	82.5	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Area 2 B-2 SA22140-09	Suelain Realty	Soil	15-Dec-04 12:35	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	271 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	1,100	271 ug/kg dry	1	"	"	"	"	"	
Anthracene	721	271 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	2,140	271 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	1,790	271 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	2,990	271 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	1,040	271 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	1,070	271 ug/kg dry	1	"	"	"	"	"	
Chrysene	2,060	271 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	271 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	6,580	271 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	271 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1,110	271 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	271 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	271 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	271 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	2,300	271 ug/kg dry	1	"	"	"	"	"	
Pyrene	3,620	271 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*73.5*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.259	0.245 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.98 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	BRL	4.47 mg/kg dry	1	"	"	"	"	"	
Barium	47.3	1.49 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.45	0.745 mg/kg dry	1	"	"	"	"	"	
Chromium	14.7	1.49 mg/kg dry	1	"	"	"	"	"	
Lead	237	2.23 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.47 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0592	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	63.5	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-9 SA22140-10	Suelain Realty	Soil	14-Dec-04 14:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.269 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.68 mg/kg dry	1	EPA 200.7	27-Dec-04	27-Dec-04	4121430	HB	
Arsenic	22.4	4.02 mg/kg dry	1	"	"	"	"	"	
Barium	54.0	1.34 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.22	0.671 mg/kg dry	1	"	"	"	"	"	
Chromium	13.9	1.34 mg/kg dry	1	"	"	"	"	"	
Lead	4,680	2.01 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.02 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	0.206	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	16.7	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	65.6	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-11 SA22140-11	Suelain Realty	Soil	16-Dec-04 14:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	1,440	199 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	199 ug/kg dry	1	"	"	"	"	"	
Anthracene	2,900	199 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	24,700	199 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	28,400	199 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	38,800	199 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	19,600	199 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	9,870	199 ug/kg dry	1	"	"	"	"	"	
Chrysene	23,100	199 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	199 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	33,200	199 ug/kg dry	1	"	"	"	"	"	
Fluorene	567	199 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	18,000	199 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	199 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	199 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	199 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	11,800	199 ug/kg dry	1	"	"	"	"	"	
Pyrene	26,800	199 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*73.4*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*88.9*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.224 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.67 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	9.05	4.01 mg/kg dry	1	"	"	"	"	"	
Barium	75.9	1.34 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.668 mg/kg dry	1	"	"	"	"	"	
Chromium	40.8	1.34 mg/kg dry	1	"	"	"	"	"	
Lead	154	2.00 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.01 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	0.312	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0742	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	74.0	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
I-17 SA22140-12	Suelain Realty	Soil	15-Dec-04 15:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.233 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.53 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	44.4	3.80 mg/kg dry	1	"	"	"	"	"	
Barium	44.9	1.27 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.633 mg/kg dry	1	"	"	"	"	"	
Chromium	46.5	1.27 mg/kg dry	1	"	"	"	"	"	
Lead	3,500	1.90 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.80 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	0.756	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	54.8	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.1	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-28 SA22140-13	Suelain Realty	Soil	15-Dec-04 15:40	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	405	222 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	222 ug/kg dry	1	"	"	"	"	"	
Anthracene	602	222 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	5,120	222 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	7,210	222 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	7,670	222 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	4,510	222 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	3,100	222 ug/kg dry	1	"	"	"	"	"	
Chrysene	6,440	222 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	222 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	5,260	222 ug/kg dry	1	"	"	"	"	"	
Fluorene	229	222 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	4,110	222 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	222 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	222 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	222 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	2,130	222 ug/kg dry	1	"	"	"	"	"	
Pyrene	4,440	222 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*71.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*81.2*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.225 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.74 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	9.94	4.11 mg/kg dry	1	"	"	"	"	"	
Barium	62.3	1.37 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.684 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	34.2 mg/kg dry	1	"	"	"	"	"	
Lead	223	2.05 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.11 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0754	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	71.9	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-39 SA22140-14	Suelain Realty	Soil	16-Dec-04 08:05	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.256 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.81 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	8.05	4.21 mg/kg dry	1	"	"	"	"	"	
Barium	81.2	1.40 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.702 mg/kg dry	1	"	"	"	"	"	
Chromium	41.2	1.40 mg/kg dry	1	"	"	"	"	"	
Lead	71.6	2.10 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.21 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0508	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	67.9	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-13 SA22140-15	Suelain Realty	Soil	16-Dec-04 14:05	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	249 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	249 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	249 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	1,400	249 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	2,080	249 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	2,520	249 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	1,390	249 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	832	249 ug/kg dry	1	"	"	"	"	"	
Chrysene	1,590	249 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	249 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	1,470	249 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	249 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1,270	249 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	249 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	249 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	249 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	647	249 ug/kg dry	1	"	"	"	"	"	
Pyrene	1,170	249 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.8*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*74.5*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.243 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.81 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	BRL	8.42 mg/kg dry	1	"	"	"	"	"	
Barium	60.5	1.40 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.702 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	36.5 mg/kg dry	1	"	"	"	"	"	
Lead	90.7	2.11 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.21 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0714	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	67.8	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-31 SA22140-16	Suelain Realty	Soil	15-Dec-04 15:20	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.232 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.49 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	9.25	3.73 mg/kg dry	1	"	"	"	"	"	
Barium	52.3	1.24 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.622 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	22.4 mg/kg dry	1	"	"	"	"	"	
Lead	256	1.87 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.73 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.198	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.4	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-40 SA22140-17	Suelain Realty	Soil	16-Dec-04 08:10	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	276 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	276 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	276 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	276 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.2*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*70.0*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.265	0.263 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	3.16 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	11.4	4.73 mg/kg dry	1	"	"	"	"	"	
Barium	71.0	1.58 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.789 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	34.7 mg/kg dry	1	"	"	"	"	"	
Lead	158	2.37 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.73 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0560	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	62.7	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-34 SA22140-18	Suelain Realty	Soil	14-Dec-04 09:30	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.225 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.74 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	9.04	4.10 mg/kg dry	1	"	"	"	"	"	
Barium	47.7	1.37 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.684 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	34.2 mg/kg dry	1	"	"	"	"	"	
Lead	1,040	2.05 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.10 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	0.239	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	68.3	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-27 SA22140-19	Suelain Realty	Soil	15-Dec-04 15:30	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	4,820	254 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	254 ug/kg dry	1	"	"	"	"	"	
Anthracene	6,010	254 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	79,600	254 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	82,200	254 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	99,000	254 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	54,700	254 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	37,000	254 ug/kg dry	1	"	"	"	"	"	
Chrysene	53,100	254 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	254 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	65,400	254 ug/kg dry	1	"	"	"	"	"	
Fluorene	2,730	254 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	54,600	254 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	903	254 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	1,620	254 ug/kg dry	1	"	"	"	"	"	
Naphthalene	672	254 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	21,800	254 ug/kg dry	1	"	"	"	"	"	
Pyrene	66,700	254 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*76.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*107*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.259 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.73 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	BRL	7.16 mg/kg dry	1	"	"	"	"	"	
Barium	99.6	1.36 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.682 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	30.0 mg/kg dry	1	"	"	"	"	"	
Lead	233	2.05 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.09 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	0.428	0.185 mg/l	1	"	"	"	"	"	
Lead	0.0482	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	67.2	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-18 SA22140-20	Suelain Realty	Soil	15-Dec-04 14:20	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.643	0.491 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121432	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	5.07 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121502	HB	
Arsenic	154	7.61 mg/kg dry	1	"	"	"	"	"	
Barium	85.0	2.54 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	1.27 mg/kg dry	1	"	"	"	"	"	
Chromium	BRL	17.8 mg/kg dry	1	"	"	"	"	"	
Lead	27,800	3.80 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	10.8 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010028	KS	
Barium	BRL	0.185 mg/l	1	"	"	"	"	"	
Lead	10.1	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	36.3	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121399	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-13 SA22140-21	Suelain Realty	Soil	14-Dec-04 12:15	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.355	0.248 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121433	YP	
Total Metals by EPA 200 Series Methods									
Silver	5.26	2.60 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121431	HB	
Arsenic	1,520	3.90 mg/kg dry	1	"	"	"	"	"	
Barium	32.2	1.30 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.23	0.650 mg/kg dry	1	"	"	"	"	"	
Chromium	11.9	1.30 mg/kg dry	1	"	"	"	"	"	
Lead	26,500	39.0 mg/kg dry	20	"	"	"	"	"	
Selenium	BRL	3.90 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	0.832	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010029	RE	
Barium	BRL	0.160 mg/l	1	"	"	"	"	"	
Lead	170	0.150 mg/l	20	"	"	05-Jan-05	"	"	
General Chemistry Parameters									
% Solids	68.7	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121402	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-19 SA22140-22	Suelain Realty	Soil	14-Dec-04 14:10	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.675	0.349 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121433	YP	
Total Metals by EPA 200 Series Methods									
Silver	3.95	3.54 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121431	HB	
Arsenic	407	5.31 mg/kg dry	1	"	"	"	"	"	
Barium	35.7	1.77 mg/kg dry	1	"	"	"	"	"	
Cadmium	BRL	0.886 mg/kg dry	1	"	"	"	"	"	
Chromium	8.22	1.77 mg/kg dry	1	"	"	"	"	"	
Lead	77,100	53.1 mg/kg dry	20	"	"	"	"	"	
Selenium	BRL	5.31 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	2.65	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010029	RE	
Barium	BRL	0.160 mg/l	1	"	"	"	"	"	
Lead	332	0.750 mg/l	100	"	"	05-Jan-05	"	"	
General Chemistry Parameters									
% Solids	50.1	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121402	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-28 SA22140-23	Suelain Realty	Soil	15-Dec-04 14:00	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3545A							
Acenaphthene	BRL	267 ug/kg dry	1	SW846 8270C	28-Dec-04	30-Dec-04	4121490	M.B	
Acenaphthylene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	267 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	267 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	267 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.4*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*71.8*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.454	0.269 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121433	YP	
Total Metals by EPA 200 Series Methods									
Silver	4.21	2.81 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121431	HB	
Arsenic	617	4.21 mg/kg dry	1	"	"	"	"	"	
Barium	37.3	1.40 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.14	0.702 mg/kg dry	1	"	"	"	"	"	
Chromium	10.4	1.40 mg/kg dry	1	"	"	"	"	"	
Lead	13,900	2.11 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.21 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	0.0322	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010029	RE	
Barium	BRL	0.160 mg/l	1	"	"	"	"	"	
Lead	8.40	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	63.7	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121402	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
M-15 SA22140-24	Suelain Realty	Soil	15-Dec-04 15:40	23-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.261 mg/kg dry	1	SW846 7471A	27-Dec-04	28-Dec-04	4121433	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.82 mg/kg dry	1	EPA 200.7	27-Dec-04	28-Dec-04	4121431	HB	
Arsenic	6.65	4.24 mg/kg dry	1	"	"	"	"	"	
Barium	60.0	1.41 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.14	0.706 mg/kg dry	1	"	"	"	"	"	
Chromium	16.1	1.41 mg/kg dry	1	"	"	"	"	"	
Lead	2,110	2.12 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.24 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Jan-05	02-Jan-05	5010027	LK	
Arsenic	0.0424	0.0150 mg/l	1	SW846 6010B	03-Jan-05	05-Jan-05	5010029	RE	
Barium	0.268	0.160 mg/l	1	"	"	"	"	"	
Lead	10.0	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	63.0	%	1	SM2540 G Mod.	23-Dec-04	27-Dec-04	4121402	LN	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121490 - SW846 3545A										
Blank (4121490-BLK1)				Prepared: 28-Dec-04 Analyzed: 30-Dec-04						
Acenaphthene	BRL	33.3	ug/kg wet							
Acenaphthylene	BRL	33.3	ug/kg wet							
Anthracene	BRL	33.3	ug/kg wet							
Benzo (a) anthracene	BRL	33.3	ug/kg wet							
Benzo (a) pyrene	BRL	33.3	ug/kg wet							
Benzo (b) fluoranthene	BRL	33.3	ug/kg wet							
Benzo (g,h,i) perylene	BRL	33.3	ug/kg wet							
Benzo (k) fluoranthene	BRL	33.3	ug/kg wet							
Chrysene	BRL	33.3	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	33.3	ug/kg wet							
Fluoranthene	BRL	33.3	ug/kg wet							
Fluorene	BRL	33.3	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	33.3	ug/kg wet							
1-Methylnaphthalene	BRL	33.3	ug/kg wet							
2-Methylnaphthalene	BRL	33.3	ug/kg wet							
Naphthalene	BRL	33.3	ug/kg wet							
Phenanthrene	BRL	33.3	ug/kg wet							
Pyrene	BRL	33.3	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*2740*		ug/kg wet	*3330*		*82.3*	*30-130*			
Surrogate: Terphenyl-dl4	*3210*		ug/kg wet	*3330*		*96.4*	*30-130*			

Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121432 - EPA200/SW7000 Series										
Blank (4121432-BLK1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	BRL	0.179	mg/kg wet							
LCS (4121432-BS1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	0.999	0.179	mg/kg wet	0.893		112	80-120			
Duplicate (4121432-DUP1)		Source: SA22140-01		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	BRL	0.216	mg/kg dry		0.152			21.2	35	
Duplicate (4121432-DUP2)		Source: SA22140-19		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	BRL	0.258	mg/kg dry		0.173			22.5	35	
Matrix Spike (4121432-MS1)		Source: SA22140-02		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	0.783	0.240	mg/kg dry	0.560	0.217	101	75-125			
Matrix Spike (4121432-MS2)		Source: SA22140-20		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	1.97	0.469	mg/kg dry	1.09	0.643	122	75-125			
Matrix Spike Dup (4121432-MSD1)		Source: SA22140-02		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	0.756	0.223	mg/kg dry	0.518	0.217	104	75-125	3.51	35	
Matrix Spike Dup (4121432-MSD2)		Source: SA22140-20		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	1.86	0.480	mg/kg dry	1.12	0.643	109	75-125	5.74	35	
Reference (4121432-SRM1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	1.31	0.179	mg/kg wet	1.30		101	85-115			
Batch 4121433 - EPA200/SW7000 Series										
Blank (4121433-BLK1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	BRL	0.179	mg/kg wet							
LCS (4121433-BS1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	0.929	0.179	mg/kg wet	0.893		104	80-120			
Duplicate (4121433-DUP1)		Source: SA21976-03		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	BRL	0.185	mg/kg dry		BRL				35	
Duplicate (4121433-DUP2)		Source: SA22149-04		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	BRL	0.179	mg/kg dry		BRL				35	
Matrix Spike (4121433-MS1)		Source: SA21976-08		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	0.566	0.188	mg/kg dry	0.437	BRL	130	75-125			QM-07
Matrix Spike (4121433-MS2)		Source: SA22140-22		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	2.31	0.347	mg/kg dry	0.808	0.675	202	75-125			QM-07
Matrix Spike Dup (4121433-MSD1)		Source: SA21976-08		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	0.583	0.191	mg/kg dry	0.444	BRL	131	75-125	2.96	35	QM-07
Matrix Spike Dup (4121433-MSD2)		Source: SA22140-22		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	1.58	0.337	mg/kg dry	0.783	0.675	116	75-125	37.5	35	QR-05
Reference (4121433-SRM1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Mercury	1.29	0.179	mg/kg wet	1.32		97.7	85-115			

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121430 - EPA 200 Series									
Blank (4121430-BLK1)			Prepared & Analyzed: 27-Dec-04						
Silver	BRL	2.00 mg/kg wet							
Selenium	BRL	3.00 mg/kg wet							
Arsenic	BRL	3.00 mg/kg wet							
Lead	BRL	1.50 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
Cadmium	BRL	0.500 mg/kg wet							
Barium	BRL	1.00 mg/kg wet							
LCS (4121430-BS1)			Prepared & Analyzed: 27-Dec-04						
Silver	0.974	0.0400 mg/kg wet	1.00		97.4	85-115			
Selenium	0.968	0.0300 mg/kg wet	1.00		96.8	85-115			
Cadmium	0.969	0.0050 mg/kg wet	1.00		96.9	85-115			
Lead	0.971	0.0150 mg/kg wet	1.00		97.1	85-115			
Arsenic	0.982	0.0300 mg/kg wet	1.00		98.2	85-115			
Chromium	0.957	0.0100 mg/kg wet	1.00		95.7	85-115			
Barium	0.966	0.0100 mg/kg wet	1.00		96.6	85-115			
Duplicate (4121430-DUP1)		**Source: SA22140-01**	Prepared & Analyzed: 27-Dec-04						
Selenium	BRL	3.95 mg/kg dry		BRL				35	
Silver	BRL	2.64 mg/kg dry		BRL				35	
Chromium	14.7	1.32 mg/kg dry		17.3			16.2	35	
Arsenic	BRL	3.95 mg/kg dry		7.15			106	35	QR-05
Cadmium	1.34	0.659 mg/kg dry		1.46			8.57	35	
Lead	385	1.98 mg/kg dry		366			5.06	35	
Barium	55.3	1.32 mg/kg dry		55.8			0.900	35	
Matrix Spike (4121430-MS1)		**Source: SA22140-02**	Prepared & Analyzed: 27-Dec-04						
Selenium	137	3.93 mg/kg dry	131	BRL	105	70-130			
Silver	64.3	2.62 mg/kg dry	65.4	BRL	98.3	70-130			
Arsenic	397	3.93 mg/kg dry	131	3.87	300	70-130			QM-07
Lead	7750	1.96 mg/kg dry	131	433	NR	70-130			QM-07
Chromium	132	1.31 mg/kg dry	131	14.1	90.0	70-130			
Cadmium	122	0.654 mg/kg dry	131	1.47	92.0	70-130			
Barium	188	1.31 mg/kg dry	131	71.9	88.6	70-130			
Matrix Spike Dup (4121430-MSD1)		**Source: SA22140-02**	Prepared & Analyzed: 27-Dec-04						
Selenium	134	3.81 mg/kg dry	127	BRL	106	70-130	2.21	35	
Silver	62.1	2.54 mg/kg dry	63.6	BRL	97.6	70-130	3.48	35	
Cadmium	120	0.636 mg/kg dry	127	1.47	93.3	70-130	1.65	35	
Chromium	131	1.27 mg/kg dry	127	14.1	92.0	70-130	0.760	35	
Lead	542	1.91 mg/kg dry	127	433	85.8	70-130	174	35	QR-05
Arsenic	129	3.81 mg/kg dry	127	3.87	98.5	70-130	102	35	QR-05
Barium	189	1.27 mg/kg dry	127	71.9	92.2	70-130	0.531	35	
Reference (4121430-SRM1)			Prepared & Analyzed: 27-Dec-04						
Selenium	119	3.00 mg/kg wet	114		104	85-115			
Silver	26.2	2.00 mg/kg wet	26.3		99.6	85-115			
Chromium	50.0	1.00 mg/kg wet	57.9		86.4	85-115			
Cadmium	107	0.500 mg/kg wet	117		91.5	85-115			
Arsenic	70.7	3.00 mg/kg wet	72.4		97.7	85-115			
Lead	125	1.50 mg/kg wet	128		97.7	85-115			
Batch 4121431 - EPA 200 Series									
Blank (4121431-BLK1)			Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	BRL	3.00 mg/kg wet							
Silver	BRL	2.00 mg/kg wet							
Arsenic	BRL	3.00 mg/kg wet							

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121431 - EPA 200 Series									
Blank (4121431-BLK1)			Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Cadmium	BRL	0.500 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
Lead	BRL	1.50 mg/kg wet							
Barium	BRL	1.00 mg/kg wet							
LCS (4121431-BS1)			Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Silver	1.06	0.0400 mg/kg wet	1.00		106	85-115			
Selenium	1.03	0.0300 mg/kg wet	1.00		103	85-115			
Cadmium	1.01	0.0050 mg/kg wet	1.00		101	85-115			
Lead	1.01	0.0150 mg/kg wet	1.00		101	85-115			
Chromium	0.986	0.0100 mg/kg wet	1.00		98.6	85-115			
Arsenic	1.02	0.0300 mg/kg wet	1.00		102	85-115			
Barium	0.985	0.0100 mg/kg wet	1.00		98.5	85-115			
Duplicate (4121431-DUP1)		**Source: SA21976-03**	Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	BRL	2.83 mg/kg dry		BRL				35	
Silver	BRL	1.88 mg/kg dry		BRL				35	
Arsenic	BRL	2.83 mg/kg dry		BRL				35	
Cadmium	0.905	0.471 mg/kg dry		0.804			11.8	35	
Chromium	18.3	0.942 mg/kg dry		16.1			12.8	35	
Lead	10.5	1.41 mg/kg dry		11.0			4.65	35	
Barium	81.3	0.942 mg/kg dry		76.3			6.35	35	
Duplicate (4121431-DUP2)		**Source: SA22149-04**	Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	BRL	2.91 mg/kg dry		BRL				35	
Silver	BRL	1.94 mg/kg dry		BRL				25	
Arsenic	BRL	2.91 mg/kg dry		BRL				35	
Cadmium	BRL	0.484 mg/kg dry		0.314			4.67	35	
Lead	6.97	1.45 mg/kg dry		2.78			85.9	35	QR-05
Chromium	4.31	0.969 mg/kg dry		3.85			11.3	35	
Barium	25.6	0.969 mg/kg dry		21.7			16.5	35	
Matrix Spike (4121431-MS1)		**Source: SA21976-08**	Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Silver	51.9	1.94 mg/kg dry	48.6	BRL	107	70-130			
Selenium	107	2.91 mg/kg dry	97.1	BRL	110	70-130			
Arsenic	99.1	2.91 mg/kg dry	97.1	BRL	102	70-130			
Cadmium	96.1	0.486 mg/kg dry	97.1	0.756	98.2	70-130			
Lead	102	1.46 mg/kg dry	97.1	7.38	97.4	70-130			
Chromium	108	0.971 mg/kg dry	97.1	14.4	96.4	70-130			
Barium	168	0.971 mg/kg dry	97.1	71.5	99.4	70-130			
Matrix Spike (4121431-MS2)		**Source: SA22140-22**	Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	219	5.08 mg/kg dry	169	BRL	130	70-130			
Silver	113	3.39 mg/kg dry	84.7	3.95	129	70-130			
Lead	78600	2.54 mg/kg dry	169	77100	888	70-130			QM-02
Chromium	200	1.69 mg/kg dry	169	8.22	113	70-130			
Cadmium	197	0.847 mg/kg dry	169	0.850	116	70-130			
Arsenic	1070	5.08 mg/kg dry	169	407	392	70-130			QM-4X
Barium	234	1.69 mg/kg dry	169	35.7	117	70-130			
Matrix Spike Dup (4121431-MSD1)		**Source: SA21976-08**	Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	108	2.92 mg/kg dry	97.2	BRL	111	70-130	0.930	35	
Silver	51.7	1.94 mg/kg dry	48.6	BRL	106	70-130	0.386	35	
Lead	99.0	1.46 mg/kg dry	97.2	7.38	94.3	70-130	2.99	35	
Chromium	111	0.972 mg/kg dry	97.2	14.4	99.4	70-130	2.74	35	
Arsenic	98.6	2.92 mg/kg dry	97.2	BRL	101	70-130	0.506	35	
Cadmium	96.3	0.486 mg/kg dry	97.2	0.756	98.3	70-130	0.208	35	
Barium	159	0.972 mg/kg dry	97.2	71.5	90.0	70-130	5.50	35	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121431 - EPA 200 Series										
Matrix Spike Dup (4121431-MSD2)		**Source: SA22140-22**		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Silver	98.5	3.44	mg/kg dry	85.9	3.95	110	70-130	13.7	35	
Selenium	198	5.16	mg/kg dry	172	BRL	115	70-130	10.1	35	
Arsenic	1270	5.16	mg/kg dry	172	407	502	70-130	17.1	35	QM-4X
Lead	70000	2.58	mg/kg dry	172	77100	NR	70-130	11.6	35	QM-02
Cadmium	172	0.859	mg/kg dry	172	0.850	99.5	70-130	13.6	35	
Chromium	174	1.72	mg/kg dry	172	8.22	96.4	70-130	13.9	35	
Barium	204	1.72	mg/kg dry	172	35.7	97.8	70-130	13.7	35	
Reference (4121431-SRM1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Arsenic	74.8	3.00	mg/kg wet	67.7		110	85-115			
Lead	128	1.50	mg/kg wet	120		107	85-115			
Chromium	52.4	1.00	mg/kg wet	54.1		96.9	85-115			
Cadmium	109	0.500	mg/kg wet	109		100	85-115			
Batch 4121502 - EPA 200 Series										
Blank (4121502-BLK1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	BRL	3.00	mg/kg wet							
Silver	BRL	2.00	mg/kg wet							
Arsenic	BRL	3.00	mg/kg wet							
Cadmium	BRL	0.500	mg/kg wet							
Chromium	BRL	3.00	mg/kg wet							
Lead	BRL	1.50	mg/kg wet							
Barium	BRL	1.00	mg/kg wet							
LCS (4121502-BS1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Silver	0.990	0.0400	mg/kg wet	1.00		99.0	85-115			
Selenium	1.01	0.0300	mg/kg wet	1.00		101	85-115			
Chromium	0.991	0.0100	mg/kg wet	1.00		99.1	85-115			
Arsenic	0.988	0.0300	mg/kg wet	1.00		98.8	85-115			
Cadmium	0.975	0.0050	mg/kg wet	1.00		97.5	85-115			
Lead	0.998	0.0150	mg/kg wet	1.00		99.8	85-115			
Barium	0.963	0.0100	mg/kg wet	1.00		96.3	85-115			
Duplicate (4121502-DUP1)		**Source: SA22140-19**		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Silver	BRL	2.77	mg/kg dry		BRL				35	
Selenium	BRL	4.15	mg/kg dry		BRL				35	
Chromium	BRL	33.2	mg/kg dry		28.1			15.1	35	
Cadmium	BRL	0.691	mg/kg dry		0.177			1.68	35	
Lead	226	2.07	mg/kg dry		233			3.05	35	
Arsenic	BRL	7.60	mg/kg dry		6.92			5.21	35	
Barium	109	1.38	mg/kg dry		99.6			9.01	35	
Matrix Spike (4121502-MS1)		**Source: SA22140-20**		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	291	8.04	mg/kg dry	268	10.4	105	70-130			
Silver	132	5.36	mg/kg dry	134	BRL	98.5	70-130			
Lead	25700	4.02	mg/kg dry	268	27800	NR	70-130			QM-02
Cadmium	263	1.34	mg/kg dry	268	0.127	98.1	70-130			
Chromium	274	2.68	mg/kg dry	268	16.7	96.0	70-130			
Arsenic	334	8.04	mg/kg dry	268	154	67.2	70-130			QM-07
Barium	364	2.68	mg/kg dry	268	85.0	104	70-130			
Matrix Spike Dup (4121502-MSD1)		**Source: SA22140-20**		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Selenium	284	7.79	mg/kg dry	260	10.4	105	70-130	2.43	35	
Silver	129	5.19	mg/kg dry	130	BRL	99.2	70-130	2.30	35	
Cadmium	259	1.30	mg/kg dry	260	0.127	99.6	70-130	1.53	35	
Arsenic	333	7.79	mg/kg dry	260	154	68.8	70-130	0.300	35	QM-07
Lead	25600	3.90	mg/kg dry	260	27800	NR	70-130	0.390	35	QM-02

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121502 - EPA 200 Series										
Matrix Spike Dup (4121502-MSD1)		**Source: SA22140-20**		Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Chromium	268	2.60	mg/kg dry	260	16.7	96.7	70-130	2.21	35	
Barium	365	2.60	mg/kg dry	260	85.0	108	70-130	0.274	35	
Reference (4121502-SRM1)				Prepared: 27-Dec-04 Analyzed: 28-Dec-04						
Silver	25.9	2.00	mg/kg wet	26.3		98.5	85-115			
Selenium	117	3.00	mg/kg wet	114		103	85-115			
Arsenic	78.0	3.00	mg/kg wet	72.4		108	85-115			
Cadmium	113	0.500	mg/kg wet	117		96.6	85-115			
Chromium	54.5	1.00	mg/kg wet	57.9		94.1	85-115			

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010027 - SW846 1311									
Blank (5010027-BLK1)			Prepared & Analyzed: 02-Jan-05						
TCLP Extraction	Completed	N/A							
Batch 5010028 - SW846 3010A									
Blank (5010028-BLK1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	BRL	0.0075 mg/l							
Arsenic	BRL	0.0150 mg/l							
Barium	BRL	0.185 mg/l							
LCS (5010028-BS1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.228	0.0030 mg/l	0.200		114	85-115			
Arsenic	0.200	0.0060 mg/l	0.200		100	85-115			
Barium	0.180	0.0050 mg/l	0.200		90.0	85-115			
LCS Dup (5010028-BSD1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.199	0.0030 mg/l	0.200		99.5	85-115	13.6	20	
Arsenic	0.199	0.0060 mg/l	0.200		99.5	85-115	0.501	20	
Barium	0.170	0.0050 mg/l	0.200		85.0	85-115	5.71	20	
Duplicate (5010028-DUP1)		**Source: SA22140-01**	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	4.66	0.0075 mg/l		4.50			3.49	20	
Arsenic	BRL	0.0225 mg/l		0.0190			12.8	20	
Barium	BRL	0.185 mg/l		0.172			5.10	20	
Duplicate (5010028-DUP2)		**Source: SA22140-11**	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.0702	0.0075 mg/l		0.0742			5.54	20	
Arsenic	BRL	0.0150 mg/l		BRL				20	
Barium	0.310	0.185 mg/l		0.312			0.643	20	
Matrix Spike (5010028-MS1)		**Source: SA22140-02**	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.476	0.0075 mg/l	0.200	0.343	66.5	75-125			QM-07
Arsenic	0.176	0.0150 mg/l	0.200	BRL	88.0	75-125			
Barium	0.308	0.185 mg/l	0.200	0.157	75.5	75-125			
Matrix Spike (5010028-MS2)		**Source: SA22140-12**	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	57.5	0.0075 mg/l	0.200	54.8	NR	75-125			QM-02
Arsenic	0.956	0.0150 mg/l	0.200	0.756	100	75-125			
Barium	0.237	0.185 mg/l	0.200	0.0819	77.6	75-125			
Matrix Spike Dup (5010028-MSD1)		**Source: SA22140-02**	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.464	0.0075 mg/l	0.200	0.343	60.5	75-125	2.55	20	QM-07
Arsenic	0.173	0.0150 mg/l	0.200	BRL	86.5	75-125	1.72	20	
Barium	0.296	0.185 mg/l	0.200	0.157	69.5	75-125	3.97	20	QM-07
Matrix Spike Dup (5010028-MSD2)		**Source: SA22140-12**	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	60.4	0.0075 mg/l	0.200	54.8	NR	75-125	4.92	20	QM-02
Arsenic	0.972	0.0150 mg/l	0.200	0.756	108	75-125	1.66	20	
Barium	0.240	0.185 mg/l	0.200	0.0819	79.0	75-125	1.26	20	
Batch 5010029 - SW846 3010A									
Blank (5010029-BLK1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	BRL	0.0075 mg/l							
Arsenic	BRL	0.0150 mg/l							
Barium	BRL	0.160 mg/l							
LCS (5010029-BS1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.199	0.0030 mg/l	0.200		99.5	85-115			
Arsenic	0.199	0.0060 mg/l	0.200		99.5	85-115			
Barium	0.170	0.0050 mg/l	0.200		85.0	85-115			
LCS Dup (5010029-BSD1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010029 - SW846 3010A									
LCS Dup (5010029-BSD1)			Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	0.202	0.0030 mg/l	0.200		101	85-115	1.50	20	
Arsenic	0.194	0.0060 mg/l	0.200		97.0	85-115	2.54	20	
Barium	0.170	0.0050 mg/l	0.200		85.0	85-115	0.00	20	
Duplicate (5010029-DUP1)		Source: SA22140-21	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Lead	172	0.150 mg/l		170			1.17	20	
Arsenic	0.868	0.0150 mg/l		0.832			4.24	20	
Barium	BRL	0.160 mg/l		0.0860			3.88	20	
Matrix Spike (5010029-MS1)		Source: SA22140-22	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Arsenic	2.90	0.0150 mg/l	0.200	2.65	125	75-125			
Barium	0.301	0.160 mg/l	0.200	0.158	71.5	75-125			QM-07
Matrix Spike Dup (5010029-MSD1)		Source: SA22140-22	Prepared: 03-Jan-05 Analyzed: 05-Jan-05						
Arsenic	2.82	0.0150 mg/l	0.200	2.65	85.0	75-125	2.80	35	
Barium	0.291	0.160 mg/l	0.200	0.158	66.5	75-125	3.38	35	QM-07

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121399 - General Preparation									
Duplicate (4121399-DUP1)		Source: SA22140-20	Prepared: 23-Dec-04 Analyzed: 27-Dec-04						
% Solids	35.7	%		36.3			1.67	20	
Batch 4121402 - General Preparation									
Duplicate (4121402-DUP1)		Source: SA22160-07	Prepared: 23-Dec-04 Analyzed: 27-Dec-04						
% Solids	66.7	%		59.8			10.9	20	

Notes and Definitions

Comp	Completed
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR-05	RPD out of acceptance range.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA 22140 (12)

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES
25 JON BARRETT RD
PATTERSON, NY 12563

Project Mgr.: Michael DeGloria

Invoice To: Same
INV#5 000303

P.O. No.: _____ RQN: 5093

Project No.: SUELAIN REALTY
Site Name: GRANITE POINT
Location: SOMERS State: NY
Sampler(s): M. DEGLORIA J. MARKOWSKY

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	RCRA Metals	TCLP Pb/As/Ba	PAHs by 8270					Notes:
22140-01	H-32	12-15	1200	G	SO				2		X	X	X					Collection Date on COC Correct per client fax 12/23/04
-02	G-29	12-14	0900															
-03	A-37	12-16	0900										X					
-04	D-33	12-16	0910															
-05	C-26	12-14	1000										X					
-06	A-15	12-14	1040															
-07	F-18	12-14	1210										X					
-08	AREA 2 D-4	12-15	1300										X					
-09	AREA 2 B-2	12-15	1235										X					
-10	G-9	12-14	1400															

☐ Fax results when available to (_____) _____
☒ E-mail results when available to MDEGLORIA@GESONLINE
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ 4 °C

Relinquished by:	Received by:	Date:	Time:
Michael DeGloria			
Fed Ex	[illegible]	12/23/04	1030

22140

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:
☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· All samples are disposed of after 60 days unless otherwise instructed.

Report To: See p. 1
Project Mgr.:

Invoice To: See p. 1
P.O. No.: RQN: 5093

Project No.: SVECAIN REALTY
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s):

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		RCRA Metals	TCLP 11 Pb/As/Bt	PAHs by 8270						Notes:
22140-11	O-11	12-16	1400	G	SO				2			X	X	X						
12	I-17	12-15	1500	G	SO				2											
13	L-28	12-15	1540	G	SO				2					X						
14	B-39	12-16	0805	G	SO				2											
15	O-13	1216	1405	G	SO				2					X						
16	J-31	1215	1520	G	SO				2											
17	A-40	12-16	0810	G	SO				2					X						
18	E-34	12-14	0930	G	SO				2											
19	L-27	12-15	1530	G	SO				2					X						
20	K-18	12-15	1420	G	SO				2			X	X							

☐ Fax results when available to (____) _____
☐ E-mail results when available to _____
Condition upon Receipt: ☒ Iced ☐ Ambient ☐ 4 °C

Relinquished by:	Received by:	Date:	Time:
Michael Dufling			
Fed Ex	K Williams	12/23/14	1030

22140

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: See p 1

Project Mgr.: _____

Invoice To: See p 1

P.O. No.: _____ RQN: 5093

Project No.: SBELAIN REALTY
Site Name: GRANITE POINTE
Location: SOMERS State: CT
Sampler(s): _____

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	RCRA Metals	TCLP " Pb/As/Ba	BNAs by 8270					Notes:
22140-21	C-13	12-14	1215	G	SO	~			2		X	X						
~~22~~	~~F-6~~	↓	~~1430~~	↓	↓				↓		↓	↓	X					
~~22~~	E-19	↓	1410	↓	↓				↓		↓	↓						
-23	K-28	12/15	1400	↓	↓				↓		X	X	X					Per client fax 12/23/04
-24	M-15	↓	1540	↓	↓				↓		X	X						

☐ Fax results when available to (____) _____
☐ E-mail results when available to _____
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 4 °C

Relinquished by:	Received by:	Date:	Time:
Ted Ep	[signature]	12/23/04	10:30

Report Date:
10-Jan-05 11:17

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
JAN 17 2004
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:Suelain Realty

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA22292-01	G-39	Soil	23-Dec-04 07:45	29-Dec-04 09:40
SA22292-02	L-35	Soil	23-Dec-04 07:50	29-Dec-04 09:40
SA22292-03	E-40	Soil	23-Dec-04 08:05	29-Dec-04 09:40
SA22292-04	H-38	Soil	23-Dec-04 08:10	29-Dec-04 09:40
SA22292-05	J-36	Soil	23-Dec-04 08:20	29-Dec-04 09:40
SA22292-06	N-33	Soil	23-Dec-04 08:40	29-Dec-04 09:40
SA22292-07	B-41	Soil	23-Dec-04 09:00	29-Dec-04 09:40
SA22292-08	BG-6Z	Soil	23-Dec-04 09:30	29-Dec-04 09:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 15 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-39 SA22292-01	Suelain Realty	Soil	23-Dec-04 07:45	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	202 ug/kg dry	1	SW846 8270C	04-Jan-05	06-Jan-05	5010061	M.B	
Acenaphthylene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	202 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	202 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	202 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*78.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*69.8*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.211 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.60 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	BRL	3.90 mg/kg dry	1	"	"	"	"	"	
Barium	59.5	1.30 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.17	0.650 mg/kg dry	1	"	"	"	"	"	
Chromium	13.4	1.30 mg/kg dry	1	"	"	"	"	"	
Lead	201	1.95 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	5.20 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.112	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.262	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	74.5	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-35 SA22292-02	Suelain Realty	Soil	23-Dec-04 07:50	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.254	0.254 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.82 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	7.13	4.23 mg/kg dry	1	"	"	"	"	"	
Barium	58.1	1.41 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.28	0.705 mg/kg dry	1	"	"	"	"	"	
Chromium	13.8	1.41 mg/kg dry	1	"	"	"	"	"	
Lead	716	2.11 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	6.34 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.113	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.976	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	68.9	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-40 SA22292-03	Suelain Realty	Soil	23-Dec-04 08:05	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.229 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.53 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	13.0	3.79 mg/kg dry	1	"	"	"	"	"	
Barium	56.2	1.26 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.28	0.631 mg/kg dry	1	"	"	"	"	"	
Chromium	13.8	1.26 mg/kg dry	1	"	"	"	"	"	
Lead	378	1.89 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	6.31 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.121	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.239	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	74.5	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H-38 SA22292-04	Suelain Realty	Soil	23-Dec-04 08:10	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	195 ug/kg dry	1	SW846 8270C	04-Jan-05	06-Jan-05	5010061	M.B	
Acenaphthylene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	195 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	195 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*85.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*80.8*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.220 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.57 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	4.13	3.86 mg/kg dry	1	"	"	"	"	"	
Barium	60.1	1.29 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.08	0.643 mg/kg dry	1	"	"	"	"	"	
Chromium	11.5	1.29 mg/kg dry	1	"	"	"	"	"	
Lead	279	1.93 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.50 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.124	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.191	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	75.8	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-36 SA22292-05	Suelain Realty	Soil	23-Dec-04 08:20	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.260	0.260 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	3.02 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	9.25	4.53 mg/kg dry	1	"	"	"	"	"	
Barium	69.3	1.51 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.39	0.755 mg/kg dry	1	"	"	"	"	"	
Chromium	16.1	1.51 mg/kg dry	1	"	"	"	"	"	
Lead	341	2.26 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	7.17 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.147	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.212	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	64.7	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
N-33 SA22292-06	Suelain Realty	Soil	23-Dec-04 08:40	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.245 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.77 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	5.23	4.15 mg/kg dry	1	"	"	"	"	"	
Barium	73.0	1.38 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.26	0.692 mg/kg dry	1	"	"	"	"	"	
Chromium	13.0	1.38 mg/kg dry	1	"	"	"	"	"	
Lead	456	2.08 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.15 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.156	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.355	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	68.8	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-41 SA22292-07	Suelain Realty	Soil	23-Dec-04 09:00	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.245 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.78 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	BRL	4.17 mg/kg dry	1	"	"	"	"	"	
Barium	70.2	1.39 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.20	0.695 mg/kg dry	1	"	"	"	"	"	
Chromium	12.4	1.39 mg/kg dry	1	"	"	"	"	"	
Lead	279	2.08 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	4.17 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.179	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.668	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	71.7	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BG-6Z SA22292-08	Suelain Realty	Soil	23-Dec-04 09:30	29-Dec-04

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	186 ug/kg dry	1	SW846 8270C	04-Jan-05	06-Jan-05	5010061	M.B	
Acenaphthylene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	186 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	186 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	186 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*96.1*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*93.2*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.225 mg/kg dry	1	SW846 7471A	03-Jan-05	04-Jan-05	5010017	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.31 mg/kg dry	1	EPA 200.7	03-Jan-05	03-Jan-05	5010016	HB	
Arsenic	BRL	3.46 mg/kg dry	1	"	"	"	"	"	
Barium	29.5	1.15 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.05	0.577 mg/kg dry	1	"	"	"	"	"	
Chromium	12.1	1.15 mg/kg dry	1	"	"	"	"	"	
Lead	25.7	1.73 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.46 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Jan-05	03-Jan-05	5010065	LK	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	04-Jan-05	04-Jan-05	5010066	HB	
Barium	0.110	0.0050 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0150 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	78.2	%	1	SM2540 G Mod.	29-Dec-04	30-Dec-04	4121600	LN	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010061 - SW846 3550B										
Blank (5010061-BLK1)				Prepared: 04-Jan-05 Analyzed: 05-Jan-05						
Acenaphthene	BRL	66.6	ug/kg wet							
Acenaphthylene	BRL	66.6	ug/kg wet							
Anthracene	BRL	66.6	ug/kg wet							
Benzo (a) anthracene	BRL	66.6	ug/kg wet							
Benzo (a) pyrene	BRL	66.6	ug/kg wet							
Benzo (b) fluoranthene	BRL	66.6	ug/kg wet							
Benzo (g,h,i) perylene	BRL	66.6	ug/kg wet							
Benzo (k) fluoranthene	BRL	66.6	ug/kg wet							
Chrysene	BRL	66.6	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	66.6	ug/kg wet							
Fluoranthene	BRL	66.6	ug/kg wet							
Fluorene	BRL	66.6	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	66.6	ug/kg wet							
1-Methylnaphthalene	BRL	66.6	ug/kg wet							
2-Methylnaphthalene	BRL	66.6	ug/kg wet							
Naphthalene	BRL	66.6	ug/kg wet							
Phenanthrene	BRL	66.6	ug/kg wet							
Pyrene	BRL	66.6	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*4710*		ug/kg wet	*6670*		*70.6*	*30-130*			
Surrogate: Terphenyl-dl4	*6330*		ug/kg wet	*6670*		*94.9*	*30-130*			
Duplicate (5010061-DUP1)			Source: SA22395-05	Prepared: 04-Jan-05 Analyzed: 05-Jan-05						
Acenaphthene	BRL	175	ug/kg dry		BRL				50	
Acenaphthylene	BRL	175	ug/kg dry		BRL				50	
Anthracene	BRL	175	ug/kg dry		BRL				50	
Benzo (a) anthracene	BRL	175	ug/kg dry		BRL				50	
Benzo (a) pyrene	BRL	175	ug/kg dry		BRL				50	
Benzo (b) fluoranthene	BRL	175	ug/kg dry		BRL				50	
Benzo (g,h,i) perylene	BRL	175	ug/kg dry		BRL				50	
Benzo (k) fluoranthene	BRL	175	ug/kg dry		BRL				50	
Chrysene	BRL	175	ug/kg dry		BRL				50	
Dibenzo (a,h) anthracene	BRL	175	ug/kg dry		BRL				50	
Fluoranthene	BRL	175	ug/kg dry		BRL				50	
Fluorene	BRL	175	ug/kg dry		BRL				50	
Indeno (1,2,3-cd) pyrene	BRL	175	ug/kg dry		BRL				50	
1-Methylnaphthalene	BRL	175	ug/kg dry		BRL				50	
2-Methylnaphthalene	BRL	175	ug/kg dry		BRL				50	
Naphthalene	BRL	175	ug/kg dry		BRL				50	
Phenanthrene	BRL	175	ug/kg dry		BRL				50	
Pyrene	BRL	175	ug/kg dry		BRL				50	
Surrogate: 2-Fluorobiphenyl	*5630*		ug/kg dry	*8780*		*64.1*	*30-130*			
Surrogate: Terphenyl-dl4	*7600*		ug/kg dry	*8780*		*86.6*	*30-130*			
Matrix Spike (5010061-MS1)			Source: SA22395-05	Prepared: 04-Jan-05 Analyzed: 05-Jan-05						
Acenaphthene	6630	88.1	ug/kg dry	8820	BRL	75.2	40-140			
Pyrene	8550	88.1	ug/kg dry	8820	BRL	96.9	40-140			
Surrogate: 2-Fluorobiphenyl	*8290*		ug/kg dry	*8820*		*94.0*	*30-130*			
Surrogate: Terphenyl-dl4	*12000*		ug/kg dry	*8820*		*136*	*30-130*			*S-02*
Matrix Spike Dup (5010061-MSD1)			Source: SA22395-05	Prepared: 04-Jan-05 Analyzed: 05-Jan-05						
Acenaphthene	6410	88.0	ug/kg dry	8800	BRL	72.8	40-140	3.24	30	
Pyrene	8710	88.0	ug/kg dry	8800	BRL	99.0	40-140	2.14	30	
Surrogate: 2-Fluorobiphenyl	*10900*		ug/kg dry	*8800*		*124*	*30-130*			
Surrogate: Terphenyl-dl4	*16300*		ug/kg dry	*8800*		*185*	*30-130*			*S-02*

Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010017 - EPA200/SW7000 Series										
Blank (5010017-BLK1)				Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	BRL	0.179	mg/kg wet							
LCS (5010017-BS1)				Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	0.947	0.179	mg/kg wet	0.893		106	80-120			
Duplicate (5010017-DUP1)		**Source: SA22179-01**		Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	BRL	0.164	mg/kg dry		BRL				35	
Duplicate (5010017-DUP2)		**Source: SA22292-07**		Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	BRL	0.249	mg/kg dry		0.195			14.9	35	
Matrix Spike (5010017-MS1)		**Source: SA22179-02**		Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	0.229	0.173	mg/kg dry	0.402	BRL	57.0	75-125			QM-07
Matrix Spike (5010017-MS2)		**Source: SA22292-08**		Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	0.642	0.219	mg/kg dry	0.511	0.124	101	75-125			
Matrix Spike Dup (5010017-MSD1)		**Source: SA22179-02**		Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	0.188	0.168	mg/kg dry	0.391	BRL	48.1	75-125	19.7	35	QM-07
Matrix Spike Dup (5010017-MSD2)		**Source: SA22292-08**		Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	0.601	0.203	mg/kg dry	0.473	0.124	101	75-125	6.60	35	
Reference (5010017-SRM1)				Prepared: 03-Jan-05 Analyzed: 04-Jan-05						
Mercury	1.25	0.179	mg/kg wet	1.25		100	85-115			

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010016 - EPA 200 Series										
Blank (5010016-BLK1)				Prepared & Analyzed: 03-Jan-05						
Silver	BRL	2.00	mg/kg wet							
Selenium	BRL	3.00	mg/kg wet							
Lead	BRL	1.50	mg/kg wet							
Arsenic	BRL	3.00	mg/kg wet							
Cadmium	BRL	0.500	mg/kg wet							
Chromium	BRL	1.00	mg/kg wet							
Barium	BRL	1.00	mg/kg wet							
LCS (5010016-BS1)				Prepared & Analyzed: 03-Jan-05						
Selenium	1.01	0.0300	mg/kg wet	1.00		101	85-115			
Silver	0.955	0.0400	mg/kg wet	1.00		95.5	85-115			
Cadmium	0.940	0.0050	mg/kg wet	1.00		94.0	85-115			
Arsenic	0.966	0.0300	mg/kg wet	1.00		96.6	85-115			
Chromium	0.918	0.0100	mg/kg wet	1.00		91.8	85-115			
Lead	0.939	0.0150	mg/kg wet	1.00		93.9	85-115			
Barium	0.920	0.0100	mg/kg wet	1.00		92.0	85-115			
Duplicate (5010016-DUP1)		**Source: SA22179-01**		Prepared & Analyzed: 03-Jan-05						
Selenium	BRL	2.73	mg/kg dry		2.55			51.2	35	QR-04
Silver	BRL	1.82	mg/kg dry		BRL				35	
Cadmium	BRL	0.455	mg/kg dry		0.351			28.3	35	
Arsenic	BRL	2.73	mg/kg dry		1.63			1.22	35	
Chromium	4.91	0.911	mg/kg dry		6.59			29.2	35	
Lead	BRL	1.37	mg/kg dry		1.24			5.81	35	
Barium	7.70	0.911	mg/kg dry		7.86			2.06	35	
Duplicate (5010016-DUP2)		**Source: SA22292-07**		Prepared & Analyzed: 03-Jan-05						
Silver	BRL	2.54	mg/kg dry		BRL				35	
Selenium	BRL	6.36	mg/kg dry		2.82			76.5	35	QR-05
Arsenic	BRL	3.82	mg/kg dry		4.02			6.42	35	
Chromium	11.8	1.27	mg/kg dry		12.4			4.96	35	
Lead	364	1.91	mg/kg dry		279			26.4	35	
Cadmium	1.16	0.636	mg/kg dry		1.20			3.39	35	
Barium	65.1	1.27	mg/kg dry		70.2			7.54	35	
Matrix Spike (5010016-MS1)		**Source: SA22179-02**		Prepared & Analyzed: 03-Jan-05						
Silver	48.1	1.91	mg/kg dry	47.9	BRL	100	70-130			
Selenium	106	2.87	mg/kg dry	95.7	2.47	108	70-130			
Chromium	93.7	0.957	mg/kg dry	95.7	7.52	90.1	70-130			
Cadmium	92.8	0.479	mg/kg dry	95.7	0.452	96.5	70-130			
Arsenic	98.9	2.87	mg/kg dry	95.7	1.93	101	70-130			
Lead	106	1.44	mg/kg dry	95.7	3.38	107	70-130			
Barium	97.5	0.957	mg/kg dry	95.7	9.64	91.8	70-130			
Matrix Spike (5010016-MS2)		**Source: SA22292-08**		Prepared & Analyzed: 03-Jan-05						
Selenium	134	3.74	mg/kg dry	125	1.57	106	70-130			
Silver	59.6	2.50	mg/kg dry	62.4	BRL	95.5	70-130			
Arsenic	124	3.74	mg/kg dry	125	1.97	97.6	70-130			
Cadmium	115	0.624	mg/kg dry	125	1.05	91.2	70-130			
Chromium	122	1.25	mg/kg dry	125	12.1	87.9	70-130			
Lead	143	1.87	mg/kg dry	125	25.7	93.8	70-130			
Barium	142	1.25	mg/kg dry	125	29.5	90.0	70-130			
Matrix Spike Dup (5010016-MSD1)		**Source: SA22179-02**		Prepared & Analyzed: 03-Jan-05						
Selenium	105	2.84	mg/kg dry	94.8	2.47	108	70-130	0.948	35	
Silver	48.2	1.90	mg/kg dry	47.4	BRL	102	70-130	0.208	35	
Lead	93.8	1.42	mg/kg dry	94.8	3.38	95.4	70-130	12.2	35	
Chromium	94.3	0.948	mg/kg dry	94.8	7.52	91.5	70-130	0.638	35	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010016 - EPA 200 Series										
Matrix Spike Dup (5010016-MSD1)		**Source: SA22179-02**		Prepared & Analyzed: 03-Jan-05						
Cadmium	90.5	0.474	mg/kg dry	94.8	0.452	95.0	70-130	2.51	35	
Arsenic	98.8	2.84	mg/kg dry	94.8	1.93	102	70-130	0.101	35	
Barium	95.9	0.948	mg/kg dry	94.8	9.64	91.0	70-130	1.65	35	
Matrix Spike Dup (5010016-MSD2)		**Source: SA22292-08**		Prepared & Analyzed: 03-Jan-05						
Selenium	130	3.60	mg/kg dry	120	1.57	107	70-130	3.03	35	
Silver	58.3	2.40	mg/kg dry	60.0	BRL	97.2	70-130	2.21	35	
Arsenic	125	3.60	mg/kg dry	120	1.97	103	70-130	0.803	35	
Cadmium	112	0.600	mg/kg dry	120	1.05	92.5	70-130	2.64	35	
Chromium	119	1.20	mg/kg dry	120	12.1	89.1	70-130	2.49	35	
Lead	136	1.80	mg/kg dry	120	25.7	91.9	70-130	5.02	35	
Barium	137	1.20	mg/kg dry	120	29.5	89.6	70-130	3.58	35	

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010065 - SW846 1311									
Blank (5010065-BLK1)			Prepared & Analyzed: 03-Jan-05						
TCLP Extraction	Completed	N/A							
Batch 5010066 - SW846 3010A									
Blank (5010066-BLK1)			Prepared & Analyzed: 04-Jan-05						
Lead	BRL	0.0075 mg/l							
Arsenic	BRL	0.0150 mg/l							
Barium	BRL	0.0050 mg/l							
LCS (5010066-BS1)			Prepared & Analyzed: 04-Jan-05						
Lead	0.202	0.0030 mg/l	0.200		101	85-115			
Arsenic	0.195	0.0060 mg/l	0.200		97.5	85-115			
Barium	0.199	0.0020 mg/l	0.200		99.5	85-115			
LCS Dup (5010066-BSD1)			Prepared & Analyzed: 04-Jan-05						
Lead	0.192	0.0030 mg/l	0.200		96.0	85-115	5.08	20	
Arsenic	0.191	0.0060 mg/l	0.200		95.5	85-115	2.07	20	
Barium	0.193	0.0020 mg/l	0.200		96.5	85-115	3.06	20	
Duplicate (5010066-DUP1)		**Source: SA21557-02**	Prepared & Analyzed: 04-Jan-05						
Lead	0.378	0.0075 mg/l		0.381			0.791	20	
Arsenic	BRL	0.0150 mg/l		BRL				20	
Barium	0.410	0.0050 mg/l		0.415			1.21	20	
Duplicate (5010066-DUP2)		**Source: SA22292-02**	Prepared & Analyzed: 04-Jan-05						
Lead	0.950	0.0075 mg/l		0.976			2.70	20	
Arsenic	BRL	0.0150 mg/l		BRL				20	
Barium	0.113	0.0050 mg/l		0.113			0.00	20	
Matrix Spike (5010066-MS1)		**Source: SA21557-01**	Prepared & Analyzed: 04-Jan-05						
Lead	1.09	0.0075 mg/l	0.200	0.953	68.5	75-125			QM-4X
Arsenic	0.151	0.0150 mg/l	0.200	BRL	75.5	75-125			
Barium	1.32	0.0050 mg/l	0.200	1.19	65.0	75-125			QM-4X
Matrix Spike (5010066-MS2)		**Source: SA22292-01**	Prepared & Analyzed: 04-Jan-05						
Lead	0.422	0.0075 mg/l	0.200	0.262	80.0	75-125			
Arsenic	0.162	0.0150 mg/l	0.200	BRL	81.0	75-125			
Barium	0.268	0.0050 mg/l	0.200	0.112	78.0	75-125			
Matrix Spike Dup (5010066-MSD1)		**Source: SA21557-01**	Prepared & Analyzed: 04-Jan-05						
Lead	1.10	0.0075 mg/l	0.200	0.953	73.5	75-125	0.913	20	QM-4X
Arsenic	0.157	0.0150 mg/l	0.200	BRL	78.5	75-125	3.90	20	
Barium	1.34	0.0050 mg/l	0.200	1.19	75.0	75-125	1.50	20	
Matrix Spike Dup (5010066-MSD2)		**Source: SA22292-01**	Prepared & Analyzed: 04-Jan-05						
Lead	0.414	0.0075 mg/l	0.200	0.262	76.0	75-125	1.91	20	
Arsenic	0.164	0.0150 mg/l	0.200	BRL	82.0	75-125	1.23	20	
Barium	0.266	0.0050 mg/l	0.200	0.112	77.0	75-125	0.749	20	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4121600 - General Preparation									
Duplicate (4121600-DUP1)		**Source: SA22293-06**	Prepared: 29-Dec-04 Analyzed: 30-Dec-04						
% Solids	35.3	%		35.4			0.283	20	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

Comp	Completed
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR-04	Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results
QR-05	RPD out of acceptance range.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA22292

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: JAN 5
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: GES
25 JON BARRETT RD
ROBIN HILL CORP. PARK
PATTERSON, NY 12563
Project Mgr.: MIKE DEGLORIA

Invoice To: SAME
WH# S000421 (MH)
P.O. No.: _____ RQN: 5093

Project No.: SUELAIN REALTY
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s): MIKE DEGLORIA

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		8 RCRA Metals	TCLP Pb, As, Ba	PAHs by 8270					
SA22292-01	G-39	12-23-04	0745	C	SO	–			2			X	X	X					
-02	L-35		0750																
-03	E-40		0805																
-04	H-38		0810											X					
-05	J-36		0820																
-06	N-33		0840																
-07	B-41		0900																
-08	BG-6Z		0930											X					

QA Reporting Notes: (check if needed)
State specific reporting standards
If applicable, please list below.
☐ Provide MCP CAM Report
Were all field QC requirements met as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

☐ Fax results when available to (____) _____
☒ E-mail to MDEGLORIA@GESONLINE.COM
EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 3

Relinquished by:	Received by:	Date:	Time:
Michael Dolig	GES FRIDGE	12-29-04	1500
FedX	[signature]	12/29/04	940

Report Date:
19-Jan-05 11:53

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
JAN 24 2004
By_____

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:Suelain Realty

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA22500-01	A-15 1.5'	Soil	29-Dec-04 09:30	04-Jan-05 10:00
SA22500-02	A-40 1.5'	Soil	29-Dec-04 09:45	04-Jan-05 10:00
SA22500-03	B-41 1.5'	Soil	29-Dec-04 09:55	04-Jan-05 10:00
SA22500-04	C-17 1.5'	Soil	29-Dec-04 10:05	04-Jan-05 10:00
SA22500-05	D-36 1.5'	Soil	29-Dec-04 10:15	04-Jan-05 10:00
SA22500-06	E-19 1.5'	Soil	29-Dec-04 10:25	04-Jan-05 10:00
SA22500-07	E-40 1.5'	Soil	29-Dec-04 12:30	04-Jan-05 10:00
SA22500-08	F-18 1.5'	Soil	29-Dec-04 10:35	04-Jan-05 10:00
SA22500-09	F-34 1.5'	Soil	29-Dec-04 12:45	04-Jan-05 10:00
SA22500-10	H-15 1.5'	Soil	29-Dec-04 10:45	04-Jan-05 10:00
SA22500-11	H-32 1.5'	Soil	29-Dec-04 13:00	04-Jan-05 10:00
SA22500-12	G-39 1.5'	Soil	29-Dec-04 13:05	04-Jan-05 10:00
SA22500-13	H-38 1.5'	Soil	29-Dec-04 13:15	04-Jan-05 10:00
SA22500-14	K-18 1.5'	Soil	29-Dec-04 11:00	04-Jan-05 10:00
SA22500-15	L-29 1.5'	Soil	29-Dec-04 11:10	04-Jan-05 10:00
SA22500-16	L-35 1.5'	Soil	29-Dec-04 13:25	04-Jan-05 10:00
SA22500-17	J-31 1.5'	Soil	29-Dec-04 11:15	04-Jan-05 10:00
SA22500-18	J-36 1.5'	Soil	29-Dec-04 13:35	04-Jan-05 10:00
SA22500-19	N-33 1.5'	Soil	29-Dec-04 11:30	04-Jan-05 10:00
SA22500-20	O-11 1.5'	Soil	29-Dec-04 11:45	04-Jan-05 10:00
SA22500-21	O-13 1.5'	Soil	29-Dec-04 11:50	04-Jan-05 10:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met
Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-15 1.5' SA22500-01	Suelain Realty	Soil	29-Dec-04 09:30	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.227 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.26 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	4.99	3.39 mg/kg dry	1	"	"	"	"	"	
Barium	77.0	1.13 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.07	0.565 mg/kg dry	1	"	"	"	"	"	
Chromium	13.6	1.13 mg/kg dry	1	"	"	"	"	"	
Lead	1,550	1.70 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
Lead	1,700	1.87 mg/kg dry	1	EPA 200.7	17-Jan-05	18-Jan-05	5010885	RE	**RE**
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	0.135	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.598	0.0050 mg/l	1	"	"	"	"	"	
Lead	69.9	0.150 mg/l	20	"	"	17-Jan-05	5010717	RE	
Lead	77.4	0.0075 mg/l	1	SW846 6010B	18-Jan-05	18-Jan-05	5010879	RE	**RE**
General Chemistry Parameters									
% Solids	76.7	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-40 1.5' SA22500-02	Suelain Realty	Soil	29-Dec-04 09:45	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.221 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.27 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.41 mg/kg dry	1	"	"	"	"	"	
Barium	56.1	1.14 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.17	0.568 mg/kg dry	1	"	"	"	"	"	
Chromium	15.5	1.14 mg/kg dry	1	"	"	"	"	"	
Lead	56.7	1.71 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.41 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.182	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.166	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	73.7	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-41 1.5' SA22500-03	Suelain Realty	Soil	29-Dec-04 09:55	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.195 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.01 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.01 mg/kg dry	1	"	"	"	"	"	
Barium	46.6	1.00 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.03	0.502 mg/kg dry	1	"	"	"	"	"	
Chromium	11.9	1.00 mg/kg dry	1	"	"	"	"	"	
Lead	8.71	1.51 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.01 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	18-Jan-05	18-Jan-05	5010879	RE	
Barium	0.540	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0240	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	84.5	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-17 1.5' SA22500-04	Suelain Realty	Soil	29-Dec-04 10:05	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	0.386	0.208 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.10 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.15 mg/kg dry	1	"	"	"	"	"	
Barium	43.8	1.05 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.13	0.525 mg/kg dry	1	"	"	"	"	"	
Chromium	15.5	1.05 mg/kg dry	1	"	"	"	"	"	
Lead	276	1.58 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.15 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.175	0.0050 mg/l	1	"	"	"	"	"	
Lead	2.14	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	80.9	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
D-36 1.5' SA22500-05	Suelain Realty	Soil	29-Dec-04 10:15	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.205 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.19 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.29 mg/kg dry	1	"	"	"	"	"	
Barium	45.6	1.10 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.04	0.549 mg/kg dry	1	"	"	"	"	"	
Chromium	11.6	1.10 mg/kg dry	1	"	"	"	"	"	
Lead	8.81	1.65 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.29 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.370	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0228	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	82.0	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-19 1.5' SA22500-06	Suelain Realty	Soil	29-Dec-04 10:25	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.227 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.42 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.64 mg/kg dry	1	"	"	"	"	"	
Barium	89.4	1.21 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.32	0.606 mg/kg dry	1	"	"	"	"	"	
Chromium	15.2	1.21 mg/kg dry	1	"	"	"	"	"	
Lead	889	1.82 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.64 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.384	0.0050 mg/l	1	"	"	"	"	"	
Lead	9.18	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	73.8	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-40 1.5' SA22500-07	Suelain Realty	Soil	29-Dec-04 12:30	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.192 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.29 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.43 mg/kg dry	1	"	"	"	"	"	
Barium	43.8	1.14 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.27	0.572 mg/kg dry	1	"	"	"	"	"	
Chromium	12.8	1.14 mg/kg dry	1	"	"	"	"	"	
Lead	11.8	1.72 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.43 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.256	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0300	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	81.0	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
F-18 1.5' SA22500-08	Suelain Realty	Soil	29-Dec-04 10:35	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.208 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.24 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	3.74	3.36 mg/kg dry	1	"	"	"	"	"	
Barium	66.3	1.12 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.19	0.560 mg/kg dry	1	"	"	"	"	"	
Chromium	11.3	1.12 mg/kg dry	1	"	"	"	"	"	
Lead	656	1.68 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.36 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.228	0.0050 mg/l	1	"	"	"	"	"	
Lead	4.38	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	80.3	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
F-34 1.5' SA22500-09	Suelain Realty	Soil	29-Dec-04 12:45	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.205 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.28 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.41 mg/kg dry	1	"	"	"	"	"	
Barium	58.3	1.14 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.29	0.569 mg/kg dry	1	"	"	"	"	"	
Chromium	13.1	1.14 mg/kg dry	1	"	"	"	"	"	
Lead	51.2	1.71 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.41 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.227	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0174	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	77.4	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H-15 1.5' SA22500-10	Suelain Realty	Soil	29-Dec-04 10:45	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.199 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.09 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	4.69	3.13 mg/kg dry	1	"	"	"	"	"	
Barium	71.2	1.04 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.27	0.522 mg/kg dry	1	"	"	"	"	"	
Chromium	15.6	1.04 mg/kg dry	1	"	"	"	"	"	
Lead	1,770	1.57 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.13 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.172	0.0050 mg/l	1	"	"	"	"	"	
Lead	7.72	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	80.1	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H-32 1.5' SA22500-11	Suelain Realty	Soil	29-Dec-04 13:00	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	149 ug/kg dry	1	SW846 8270C	12-Jan-05	12-Jan-05	5010466	M.B	
Acenaphthylene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	149 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	149 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	149 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*74.7*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.214 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.47 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.70 mg/kg dry	1	"	"	"	"	"	
Barium	75.2	1.23 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.25	0.617 mg/kg dry	1	"	"	"	"	"	
Chromium	13.4	1.23 mg/kg dry	1	"	"	"	"	"	
Lead	37.5	1.85 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.70 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.232	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0242	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	75.9	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-39 1.5' SA22500-12	Suelain Realty	Soil	29-Dec-04 13:05	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.197 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.10 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.15 mg/kg dry	1	"	"	"	"	"	
Barium	43.0	1.05 mg/kg dry	1	"	"	"	"	"	
Cadmium	0.935	0.525 mg/kg dry	1	"	"	"	"	"	
Chromium	10.2	1.05 mg/kg dry	1	"	"	"	"	"	
Lead	5.92	1.58 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.15 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.335	0.0050 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	83.1	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010156	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H-38 1.5' SA22500-13	Suelain Realty	Soil	29-Dec-04 13:15	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.212 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.29 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.44 mg/kg dry	1	"	"	"	"	"	
Barium	49.0	1.15 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.12	0.573 mg/kg dry	1	"	"	"	"	"	
Chromium	14.0	1.15 mg/kg dry	1	"	"	"	"	"	
Lead	66.8	1.72 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.44 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.274	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0218	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	82.4	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-18 1.5' SA22500-14	Suelain Realty	Soil	29-Dec-04 11:00	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.223 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.22 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	4.78 mg/kg dry	1	"	"	"	"	"	
Barium	47.2	1.11 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.11	0.555 mg/kg dry	1	"	"	"	"	"	
Chromium	12.1	1.11 mg/kg dry	1	"	"	"	"	"	
Lead	751	1.67 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.33 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0750 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.278	0.0050 mg/l	1	"	"	"	"	"	
Lead	9.84	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	75.9	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-29 1.5' SA22500-15	Suelain Realty	Soil	29-Dec-04 11:10	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	129 ug/kg dry	1	SW846 8270C	12-Jan-05	12-Jan-05	5010466	M.B	
Acenaphthylene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	129 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	129 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	129 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*81.9*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*94.4*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.199 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.34 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.51 mg/kg dry	1	"	"	"	"	"	
Barium	54.3	1.17 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.18	0.585 mg/kg dry	1	"	"	"	"	"	
Chromium	12.5	1.17 mg/kg dry	1	"	"	"	"	"	
Lead	5.59	1.75 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.51 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.324	0.0050 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	81.8	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-35 1.5' SA22500-16	Suelain Realty	Soil	29-Dec-04 13:25	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.199 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	1.98 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	2.97 mg/kg dry	1	"	"	"	"	"	
Barium	33.5	0.990 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.14	0.495 mg/kg dry	1	"	"	"	"	"	
Chromium	13.4	0.990 mg/kg dry	1	"	"	"	"	"	
Lead	5.01	1.49 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	2.97 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.247	0.0050 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0079 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	85.9	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-31 1.5' SA22500-17	Suelain Realty	Soil	29-Dec-04 11:15	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.190 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.16 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.25 mg/kg dry	1	"	"	"	"	"	
Barium	31.8	1.08 mg/kg dry	1	"	"	"	"	"	
Cadmium	0.898	0.541 mg/kg dry	1	"	"	"	"	"	
Chromium	10.2	1.08 mg/kg dry	1	"	"	"	"	"	
Lead	3.27	1.62 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.25 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.334	0.0050 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	84.2	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-36 1.5' SA22500-18	Suelain Realty	Soil	29-Dec-04 13:35	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.233 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.26 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
Barium	55.8	1.13 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.14	0.565 mg/kg dry	1	"	"	"	"	"	
Chromium	12.6	1.13 mg/kg dry	1	"	"	"	"	"	
Lead	61.6	1.70 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.172	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0632	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	74.4	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
N-33 1.5' SA22500-19	Suelain Realty	Soil	29-Dec-04 11:30	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.209 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.26 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
Barium	48.2	1.13 mg/kg dry	1	"	"	"	"	"	
Cadmium	0.801	0.564 mg/kg dry	1	"	"	"	"	"	
Chromium	8.55	1.13 mg/kg dry	1	"	"	"	"	"	
Lead	31.2	1.69 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.39 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.216	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.0175	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	78.9	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-11 1.5' SA22500-20	Suelain Realty	Soil	29-Dec-04 11:45	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	136 ug/kg dry	1	SW846 8270C	12-Jan-05	12-Jan-05	5010466	M.B	
Acenaphthylene	BRL	136 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	136 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	436	136 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	500	136 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	532	136 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	361	136 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	400	136 ug/kg dry	1	"	"	"	"	"	
Chrysene	519	136 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	136 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	678	136 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	136 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	282	136 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	136 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	136 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	136 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	199	136 ug/kg dry	1	"	"	"	"	"	
Pyrene	520	136 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*85.5*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.203 mg/kg dry	1	SW846 7471A	05-Jan-05	06-Jan-05	5010142	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.25 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010141	HB	
Arsenic	BRL	3.37 mg/kg dry	1	"	"	"	"	"	
Barium	60.8	1.12 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.15	0.562 mg/kg dry	1	"	"	"	"	"	
Chromium	13.1	1.12 mg/kg dry	1	"	"	"	"	"	
Lead	88.9	1.69 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.37 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	14-Jan-05	5010481	CR	
Barium	0.302	0.0050 mg/l	1	"	"	"	"	"	
Lead	0.266	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	82.3	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-13 1.5' SA22500-21	Suelain Realty	Soil	29-Dec-04 11:50	04-Jan-05

Analyte(s)	*Result*	**RDL/Units*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C		Prepared by method SW846 3550B							
Acenaphthene	BRL	144 ug/kg dry	1	SW846 8270C	12-Jan-05	12-Jan-05	5010466	M.B	
Acenaphthylene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	144 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	144 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	144 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*91.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*106*	*30-130 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B									
Mercury	BRL	0.212 mg/kg dry	1	SW846 7471A	05-Jan-05	07-Jan-05	5010143	YP	
Total Metals by EPA 200 Series Methods									
Silver	BRL	2.52 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
Arsenic	BRL	3.78 mg/kg dry	1	"	"	"	"	"	
Barium	49.0	1.26 mg/kg dry	1	"	"	"	"	"	
Cadmium	1.06	0.631 mg/kg dry	1	"	"	"	"	"	
Chromium	11.5	1.26 mg/kg dry	1	"	"	"	"	"	
Lead	23.7	1.89 mg/kg dry	1	"	"	"	"	"	
Selenium	BRL	3.78 mg/kg dry	1	"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	11-Jan-05	11-Jan-05	5010476	LFR	
Arsenic	BRL	0.0150 mg/l	1	SW846 6010B	12-Jan-05	12-Jan-05	5010480	HB	
Barium	0.167	0.0050 mg/l	1	"	"	"	"	"	
Lead	BRL	0.0075 mg/l	1	"	"	"	"	"	
General Chemistry Parameters									
% Solids	78.6	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010466 - SW846 3550B										
Blank (5010466-BLK1)				Prepared & Analyzed: 12-Jan-05						
Acenaphthene	BRL	40.0	ug/kg wet							
Acenaphthylene	BRL	40.0	ug/kg wet							
Anthracene	BRL	40.0	ug/kg wet							
Benzo (a) anthracene	BRL	40.0	ug/kg wet							
Benzo (a) pyrene	BRL	40.0	ug/kg wet							
Benzo (b) fluoranthene	BRL	40.0	ug/kg wet							
Benzo (g,h,i) perylene	BRL	40.0	ug/kg wet							
Benzo (k) fluoranthene	BRL	40.0	ug/kg wet							
Chrysene	BRL	40.0	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	40.0	ug/kg wet							
Fluoranthene	BRL	40.0	ug/kg wet							
Fluorene	BRL	40.0	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	40.0	ug/kg wet							
1-Methylnaphthalene	BRL	40.0	ug/kg wet							
2-Methylnaphthalene	BRL	40.0	ug/kg wet							
Naphthalene	BRL	40.0	ug/kg wet							
Phenanthrene	BRL	40.0	ug/kg wet							
Pyrene	BRL	40.0	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*2560*		ug/kg wet	*4000*		*64.0*	*30-130*			
Surrogate: Terphenyl-dl4	*2770*		ug/kg wet	*4000*		*69.2*	*30-130*			
Duplicate (5010466-DUP1)			**Source: SA22761-01**	Prepared & Analyzed: 12-Jan-05						
Acenaphthene	BRL	155	ug/kg dry		BRL				50	
Acenaphthylene	BRL	155	ug/kg dry		BRL				50	
Anthracene	BRL	155	ug/kg dry		BRL				50	
Benzo (a) anthracene	BRL	155	ug/kg dry		BRL				50	
Benzo (a) pyrene	BRL	155	ug/kg dry		BRL				50	
Benzo (b) fluoranthene	BRL	155	ug/kg dry		BRL				50	
Benzo (g,h,i) perylene	BRL	155	ug/kg dry		BRL				50	
Benzo (k) fluoranthene	BRL	155	ug/kg dry		BRL				50	
Chrysene	BRL	155	ug/kg dry		BRL				50	
Dibenzo (a,h) anthracene	BRL	155	ug/kg dry		BRL				50	
Fluoranthene	BRL	155	ug/kg dry		BRL				50	
Fluorene	BRL	155	ug/kg dry		BRL				50	
Indeno (1,2,3-cd) pyrene	BRL	155	ug/kg dry		BRL				50	
1-Methylnaphthalene	BRL	155	ug/kg dry		BRL				50	
2-Methylnaphthalene	BRL	155	ug/kg dry		BRL				50	
Naphthalene	BRL	155	ug/kg dry		BRL				50	
Phenanthrene	BRL	155	ug/kg dry		BRL				50	
Pyrene	BRL	155	ug/kg dry		BRL				50	
Surrogate: 2-Fluorobiphenyl	*5250*		ug/kg dry	*7770*		*67.6*	*30-130*			
Surrogate: Terphenyl-dl4	*5490*		ug/kg dry	*7770*		*70.7*	*30-130*			
Matrix Spike (5010466-MS1)			**Source: SA22761-01**	Prepared & Analyzed: 12-Jan-05						
Acenaphthene	4790	77.7	ug/kg dry	7780	BRL	61.6	40-140			
Pyrene	4640	77.7	ug/kg dry	7780	BRL	59.6	40-140			
Surrogate: 2-Fluorobiphenyl	*5730*		ug/kg dry	*7780*		*73.7*	*30-130*			
Surrogate: Terphenyl-dl4	*5740*		ug/kg dry	*7780*		*73.8*	*30-130*			
Matrix Spike Dup (5010466-MSD1)			**Source: SA22761-01**	Prepared & Analyzed: 12-Jan-05						
Acenaphthene	4860	77.7	ug/kg dry	7780	BRL	62.5	40-140	1.45	30	
Pyrene	4720	77.7	ug/kg dry	7780	BRL	60.7	40-140	1.83	30	
Surrogate: 2-Fluorobiphenyl	*6040*		ug/kg dry	*7780*		*77.6*	*30-130*			
Surrogate: Terphenyl-dl4	*6170*		ug/kg dry	*7780*		*79.3*	*30-130*			

Total Metals by EPA 6000/7000 Series Methods, Prepared by SW846 3050B - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010142 - EPA200/SW7000 Series									
Blank (5010142-BLK1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	BRL	0.179 mg/kg wet							
LCS (5010142-BS1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	0.971	0.179 mg/kg wet	0.893		109	80-120			
Duplicate (5010142-DUP1)		Source: SA22500-01	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	BRL	0.219 mg/kg dry		0.125				35	
Duplicate (5010142-DUP2)		Source: SA22500-11	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	BRL	0.206 mg/kg dry		BRL				35	
Matrix Spike (5010142-MS1)		Source: SA22500-02	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	0.524	0.219 mg/kg dry	0.511	BRL	103	75-125			
Matrix Spike (5010142-MS2)		Source: SA22500-12	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	0.450	0.201 mg/kg dry	0.468	BRL	96.2	75-125			
Matrix Spike Dup (5010142-MSD1)		Source: SA22500-02	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	0.527	0.222 mg/kg dry	0.516	BRL	102	75-125	0.571	35	
Matrix Spike Dup (5010142-MSD2)		Source: SA22500-12	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	0.467	0.204 mg/kg dry	0.475	BRL	98.3	75-125	3.71	35	
Reference (5010142-SRM1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Mercury	1.19	0.179 mg/kg wet	1.26		94.4	85-115			
Batch 5010143 - EPA200/SW7000 Series									
Blank (5010143-BLK1)			Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Mercury	BRL	0.179 mg/kg wet							
LCS (5010143-BS1)			Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Mercury	0.844	0.179 mg/kg wet	0.893		94.5	80-120			
Duplicate (5010143-DUP1)		Source: SA22500-21	Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Mercury	BRL	0.209 mg/kg dry		BRL				35	
Matrix Spike (5010143-MS1)		Source: SA22506-09	Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Mercury	0.425	0.184 mg/kg dry	0.427	BRL	99.5	75-125			
Matrix Spike Dup (5010143-MSD1)		Source: SA22506-09	Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Mercury	0.417	0.187 mg/kg dry	0.436	BRL	95.6	75-125	1.90	35	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010141 - EPA 200 Series									
Blank (5010141-BLK1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	BRL	3.00 mg/kg wet							
Silver	BRL	2.00 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
Arsenic	BRL	3.00 mg/kg wet							
Cadmium	BRL	0.500 mg/kg wet							
Lead	BRL	1.50 mg/kg wet							
Barium	BRL	1.00 mg/kg wet							
LCS (5010141-BS1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	0.920	0.0300 mg/kg wet	1.00		92.0	85-115			
Silver	0.897	0.0400 mg/kg wet	1.00		89.7	85-115			
Arsenic	0.886	0.0300 mg/kg wet	1.00		88.6	85-115			
Cadmium	0.883	0.0050 mg/kg wet	1.00		88.3	85-115			
Lead	0.870	0.0150 mg/kg wet	1.00		87.0	85-115			
Chromium	0.898	0.0100 mg/kg wet	1.00		89.8	85-115			
Barium	0.897	0.0100 mg/kg wet	1.00		89.7	85-115			
Duplicate (5010141-DUP1)		Source: SA22500-01	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	BRL	2.24 mg/kg dry		BRL				35	
Selenium	BRL	3.36 mg/kg dry		BRL				35	
Chromium	14.8	1.12 mg/kg dry		13.6			8.45	35	
Arsenic	7.49	3.36 mg/kg dry		4.99			40.1	35	QR-05
Cadmium	1.06	0.560 mg/kg dry		1.07			0.939	35	
Lead	2420	1.68 mg/kg dry		1550			43.8	35	QR-05
Barium	76.2	1.12 mg/kg dry		77.0			1.04	35	
Duplicate (5010141-DUP2)		Source: SA22500-11	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	BRL	2.42 mg/kg dry		BRL				35	
Selenium	BRL	3.64 mg/kg dry		BRL				35	
Lead	36.6	1.82 mg/kg dry		37.5			2.43	35	
Chromium	10.2	1.21 mg/kg dry		13.4			27.1	35	
Cadmium	1.04	0.606 mg/kg dry		1.25			18.3	35	
Arsenic	BRL	3.64 mg/kg dry		BRL				35	
Barium	65.6	1.21 mg/kg dry		75.2			13.6	35	
Matrix Spike (5010141-MS1)		Source: SA22500-02	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	54.6	2.29 mg/kg dry	57.2	BRL	95.5	70-130			
Selenium	122	3.43 mg/kg dry	114	BRL	107	70-130			
Cadmium	108	0.572 mg/kg dry	114	1.17	93.7	70-130			
Chromium	125	1.14 mg/kg dry	114	15.5	96.1	70-130			
Lead	155	1.72 mg/kg dry	114	56.7	86.2	70-130			
Arsenic	117	3.43 mg/kg dry	114	1.21	102	70-130			
Barium	172	1.14 mg/kg dry	114	56.1	102	70-130			
Matrix Spike (5010141-MS2)		Source: SA22500-12	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	106	3.23 mg/kg dry	108	BRL	98.1	70-130			
Silver	45.6	2.15 mg/kg dry	53.8	BRL	84.8	70-130			
Chromium	103	1.08 mg/kg dry	108	10.2	85.9	70-130			
Arsenic	99.5	3.23 mg/kg dry	108	0.862	91.3	70-130			
Cadmium	90.2	0.538 mg/kg dry	108	0.935	82.7	70-130			
Lead	97.1	1.61 mg/kg dry	108	5.92	84.4	70-130			
Barium	140	1.08 mg/kg dry	108	43.0	89.8	70-130			
Matrix Spike Dup (5010141-MSD1)		Source: SA22500-02	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	111	3.39 mg/kg dry	113	BRL	98.2	70-130	9.44	35	
Silver	49.0	2.26 mg/kg dry	56.5	BRL	86.7	70-130	10.8	35	
Arsenic	104	3.39 mg/kg dry	113	1.21	91.0	70-130	11.8	35	
Cadmium	97.1	0.565 mg/kg dry	113	1.17	84.9	70-130	10.6	35	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010141 - EPA 200 Series									
Matrix Spike Dup (5010141-MSD1)		Source: SA22500-02	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Chromium	113	1.13 mg/kg dry	113	15.5	86.3	70-130	10.1	35	
Lead	150	1.70 mg/kg dry	113	56.7	82.6	70-130	3.28	35	
Barium	160	1.13 mg/kg dry	113	56.1	91.9	70-130	7.23	35	
Matrix Spike Dup (5010141-MSD2)		Source: SA22500-12	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	44.7	2.16 mg/kg dry	54.0	BRL	82.8	70-130	1.99	35	
Selenium	99.2	3.24 mg/kg dry	108	BRL	91.9	70-130	6.63	35	
Chromium	99.1	1.08 mg/kg dry	108	10.2	82.3	70-130	3.86	35	
Arsenic	92.4	3.24 mg/kg dry	108	0.862	84.8	70-130	7.40	35	
Lead	94.5	1.62 mg/kg dry	108	5.92	82.0	70-130	2.71	35	
Cadmium	88.4	0.540 mg/kg dry	108	0.935	81.0	70-130	2.02	35	
Barium	133	1.08 mg/kg dry	108	43.0	83.3	70-130	5.13	35	
Reference (5010141-SRM1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	24.8	2.00 mg/kg wet	24.8		100	85-115			
Selenium	120	3.00 mg/kg wet	108		111	85-115			
Chromium	61.2	1.00 mg/kg wet	54.5		112	85-115			
Lead	118	1.50 mg/kg wet	121		97.5	85-115			
Arsenic	70.7	3.00 mg/kg wet	68.2		104	85-115			
Cadmium	102	0.500 mg/kg wet	110		92.7	85-115			
Batch 5010144 - EPA 200 Series									
Blank (5010144-BLK1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	BRL	3.00 mg/kg wet							
Silver	BRL	2.00 mg/kg wet							
Arsenic	BRL	3.00 mg/kg wet							
Cadmium	BRL	0.500 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
Lead	BRL	1.50 mg/kg wet							
Barium	BRL	1.00 mg/kg wet							
LCS (5010144-BS1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	0.917	0.0400 mg/kg wet	1.00		91.7	85-115			
Selenium	0.933	0.0300 mg/kg wet	1.00		93.3	85-115			
Cadmium	0.901	0.0050 mg/kg wet	1.00		90.1	85-115			
Chromium	0.922	0.0100 mg/kg wet	1.00		92.2	85-115			
Lead	0.905	0.0150 mg/kg wet	1.00		90.5	85-115			
Arsenic	0.900	0.0300 mg/kg wet	1.00		90.0	85-115			
Barium	0.923	0.0100 mg/kg wet	1.00		92.3	85-115			
Duplicate (5010144-DUP1)		Source: SA22500-21	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	BRL	3.50 mg/kg dry		BRL				35	
Silver	BRL	2.33 mg/kg dry		BRL				35	
Arsenic	BRL	3.50 mg/kg dry		BRL				35	
Lead	39.0	1.75 mg/kg dry		23.7			48.8	35	QR-05
Cadmium	1.11	0.583 mg/kg dry		1.06			4.61	35	
Chromium	11.5	1.17 mg/kg dry		11.5			0.00	35	
Barium	55.0	1.17 mg/kg dry		49.0			11.5	35	
Duplicate (5010144-DUP2)		Source: SA22502-12	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	BRL	2.97 mg/kg dry		BRL				35	
Selenium	BRL	4.45 mg/kg dry		BRL				35	
Lead	1450	2.23 mg/kg dry		1620			11.1	35	
Arsenic	9.56	4.45 mg/kg dry		8.40			12.9	35	
Chromium	11.3	1.48 mg/kg dry		14.1			22.0	35	
Cadmium	1.11	0.742 mg/kg dry		1.27			13.4	35	
Barium	46.4	1.48 mg/kg dry		51.1			9.64	35	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010144 - EPA 200 Series									
Matrix Spike (5010144-MS1)		**Source: SA22502-01**	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	141	3.96 mg/kg dry	132	BRL	107	70-130			
Silver	61.9	2.64 mg/kg dry	66.0	BRL	93.8	70-130			
Arsenic	178	3.96 mg/kg dry	132	54.2	93.8	70-130			
Cadmium	123	0.660 mg/kg dry	132	1.10	92.3	70-130			
Chromium	138	1.32 mg/kg dry	132	12.6	95.0	70-130			
Lead	13100	1.98 mg/kg dry	132	12500	455	70-130			QM-02
Barium	177	1.32 mg/kg dry	132	47.7	98.0	70-130			
Matrix Spike (5010144-MS2)		**Source: SA22506-09**	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	50.0	2.27 mg/kg dry	56.6	BRL	88.3	70-130			
Selenium	116	3.40 mg/kg dry	113	BRL	103	70-130			
Arsenic	112	3.40 mg/kg dry	113	4.05	95.5	70-130			
Chromium	136	1.13 mg/kg dry	113	51.5	74.8	70-130			
Cadmium	99.5	0.566 mg/kg dry	113	0.861	87.3	70-130			
Lead	218	1.70 mg/kg dry	113	202	14.2	70-130			QM-07
Barium	154	1.13 mg/kg dry	113	45.8	95.8	70-130			
Matrix Spike Dup (5010144-MSD1)		**Source: SA22502-01**	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	120	3.99 mg/kg dry	133	BRL	90.2	70-130	16.1	35	
Silver	61.5	2.66 mg/kg dry	66.6	BRL	92.3	70-130	0.648	35	
Lead	13400	2.00 mg/kg dry	133	12500	677	70-130	2.26	35	QM-02
Chromium	133	1.33 mg/kg dry	133	12.6	90.5	70-130	3.69	35	
Cadmium	121	0.666 mg/kg dry	133	1.10	90.2	70-130	1.64	35	
Arsenic	180	3.99 mg/kg dry	133	54.2	94.6	70-130	1.12	35	
Barium	169	1.33 mg/kg dry	133	47.7	91.2	70-130	4.62	35	
Matrix Spike Dup (5010144-MSD2)		**Source: SA22506-09**	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Selenium	116	3.13 mg/kg dry	104	BRL	112	70-130	0.00	35	
Silver	50.9	2.09 mg/kg dry	52.1	BRL	97.7	70-130	1.78	35	
Cadmium	98.6	0.521 mg/kg dry	104	0.861	94.0	70-130	0.909	35	
Lead	778	1.56 mg/kg dry	104	202	554	70-130	112	35	QM-07, QR-05
Chromium	132	1.04 mg/kg dry	104	51.5	77.4	70-130	2.99	35	
Arsenic	113	3.13 mg/kg dry	104	4.05	105	70-130	0.889	35	
Barium	154	1.04 mg/kg dry	104	45.8	104	70-130	0.00	35	
Reference (5010144-SRM1)			Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Silver	24.1	2.00 mg/kg wet	25.4		94.9	85-115			
Selenium	114	3.00 mg/kg wet	110		104	85-115			
Chromium	53.3	1.00 mg/kg wet	55.8		95.5	85-115			
Cadmium	96.6	0.500 mg/kg wet	112		86.2	85-115			
Lead	112	1.50 mg/kg wet	124		90.3	85-115			
Arsenic	66.8	3.00 mg/kg wet	69.8		95.7	85-115			
Batch 5010885 - EPA 200 Series									
Blank (5010885-BLK1)			Prepared: 17-Jan-05 Analyzed: 18-Jan-05						
Lead	BRL	1.50 mg/kg wet							
LCS (5010885-BS1)			Prepared: 17-Jan-05 Analyzed: 18-Jan-05						
Lead	0.980	0.0150 mg/kg wet	1.00		98.0	85-115			
Reference (5010885-SRM1)			Prepared: 17-Jan-05 Analyzed: 18-Jan-05						
Lead	119	1.50 mg/kg wet	123		96.7	85-115			

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010476 - SW846 1311										
Blank (5010476-BLK1)				Prepared & Analyzed: 11-Jan-05						
TCLP Extraction	Completed	N/A								
Blank (5010476-BLK2)				Prepared & Analyzed: 11-Jan-05						
TCLP Extraction	Completed	N/A								
Batch 5010480 - SW846 3010A										
Blank (5010480-BLK1)				Prepared & Analyzed: 12-Jan-05						
Lead	BRL	0.0075	mg/l							
Arsenic	BRL	0.0150	mg/l							
Barium	0.0133	0.0050	mg/l							QB-01
LCS (5010480-BS1)				Prepared & Analyzed: 12-Jan-05						
Lead	0.184	0.0030	mg/l	0.200		92.0	85-115			
Arsenic	0.190	0.0060	mg/l	0.200		95.0	85-115			
Barium	0.177	0.0050	mg/l	0.200		88.5	85-115			
LCS Dup (5010480-BSD1)				Prepared & Analyzed: 12-Jan-05						
Lead	0.184	0.0030	mg/l	0.200		92.0	85-115	0.00	20	
Arsenic	0.188	0.0060	mg/l	0.200		94.0	85-115	1.06	20	
Barium	0.177	0.0050	mg/l	0.200		88.5	85-115	0.00	20	
Duplicate (5010480-DUP1)		Source: SA22698-02		Prepared & Analyzed: 12-Jan-05						
Lead	2.62	0.0075	mg/l		2.03			25.4	20	QR-05
Arsenic	BRL	0.0150	mg/l		BRL				20	
Barium	0.262	0.0050	mg/l		0.258			1.54	20	
Matrix Spike (5010480-MS1)		Source: SA22698-01		Prepared & Analyzed: 12-Jan-05						
Lead	0.192	0.0075	mg/l	0.200	0.0546	68.7	75-125			QM-07
Arsenic	0.141	0.0150	mg/l	0.200	BRL	70.5	75-125			QM-07
Barium	0.366	0.0050	mg/l	0.200	0.215	75.5	75-125			
Matrix Spike Dup (5010480-MSD1)		Source: SA22698-01		Prepared & Analyzed: 12-Jan-05						
Lead	0.192	0.0075	mg/l	0.200	0.0546	68.7	75-125	0.00	20	QM-07
Arsenic	0.148	0.0150	mg/l	0.200	BRL	74.0	75-125	4.84	20	QM-07
Barium	0.366	0.0050	mg/l	0.200	0.215	75.5	75-125	0.00	20	
Batch 5010481 - SW846 3010A										
Blank (5010481-BLK1)				Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	BRL	0.0075	mg/l							
Arsenic	BRL	0.0150	mg/l							
Barium	0.0132	0.0050	mg/l							QB-01
LCS (5010481-BS1)				Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	0.173	0.0075	mg/l	0.200		86.5	85-115			
Arsenic	0.182	0.0150	mg/l	0.200		91.0	85-115			
Barium	0.187	0.0050	mg/l	0.200		93.5	85-115			
LCS Dup (5010481-BSD1)				Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	0.170	0.0075	mg/l	0.200		85.0	85-115	1.75	20	
Arsenic	0.178	0.0150	mg/l	0.200		89.0	85-115	2.22	20	
Barium	0.185	0.0050	mg/l	0.200		92.5	85-115	1.08	20	
Duplicate (5010481-DUP1)		Source: SA22500-02		Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	0.154	0.0075	mg/l		0.166			7.50	20	
Arsenic	BRL	0.0150	mg/l		BRL				20	
Barium	0.178	0.0050	mg/l		0.182			2.22	20	
Duplicate (5010481-DUP2)		Source: SA22500-12		Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	BRL	0.0075	mg/l		0.0042			50.0	20	QR-04
Arsenic	BRL	0.0150	mg/l		BRL				20	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010481 - SW846 3010A									
Duplicate (5010481-DUP2)		Source: SA22500-12	Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Barium	0.332	0.0050 mg/l		0.335			0.900	20	
Matrix Spike (5010481-MS1)		Source: SA22500-01	Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Arsenic	0.331	0.0150 mg/l	0.200	0.135	98.0	75-125			
Barium	0.830	0.0050 mg/l	0.200	0.598	116	75-125			
Matrix Spike (5010481-MS2)		Source: SA22500-11	Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	0.178	0.0075 mg/l	0.200	0.0242	76.9	75-125			
Arsenic	0.167	0.0150 mg/l	0.200	BRL	83.5	75-125			
Barium	0.392	0.0050 mg/l	0.200	0.232	80.0	75-125			
Matrix Spike Dup (5010481-MSD1)		Source: SA22500-01	Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Arsenic	0.328	0.0150 mg/l	0.200	0.135	96.5	75-125	0.910	20	
Barium	0.830	0.0050 mg/l	0.200	0.598	116	75-125	0.00	20	
Matrix Spike Dup (5010481-MSD2)		Source: SA22500-11	Prepared: 12-Jan-05 Analyzed: 14-Jan-05						
Lead	0.166	0.0075 mg/l	0.200	0.0242	70.9	75-125	6.98	20	QM-07
Arsenic	0.161	0.0150 mg/l	0.200	BRL	80.5	75-125	3.66	20	
Barium	0.362	0.0050 mg/l	0.200	0.232	65.0	75-125	7.96	20	QM-07
Batch 5010717 - SW846 3010A									
Blank (5010717-BLK1)			Prepared: 12-Jan-05 Analyzed: 17-Jan-05						
Lead	BRL	0.0075 mg/l							
LCS (5010717-BS1)			Prepared: 12-Jan-05 Analyzed: 17-Jan-05						
Lead	0.212	0.0075 mg/l	0.200		106	85-115			
LCS Dup (5010717-BSD1)			Prepared: 12-Jan-05 Analyzed: 17-Jan-05						
Lead	0.212	0.0075 mg/l	0.200		106	85-115	0.00	20	
Batch 5010879 - SW846 3010A									
Blank (5010879-BLK1)			Prepared & Analyzed: 18-Jan-05						
Lead	BRL	0.0075 mg/l							
Arsenic	BRL	0.0150 mg/l							
Barium	BRL	0.0050 mg/l							
LCS (5010879-BS1)			Prepared & Analyzed: 18-Jan-05						
Lead	0.191	0.0030 mg/l	0.200		95.5	85-115			
Arsenic	0.192	0.0060 mg/l	0.200		96.0	85-115			
Barium	0.200	0.0020 mg/l	0.200		100	85-115			
LCS Dup (5010879-BSD1)			Prepared & Analyzed: 18-Jan-05						
Lead	0.196	0.0030 mg/l	0.200		98.0	85-115	2.58	20	
Arsenic	0.194	0.0060 mg/l	0.200		97.0	85-115	1.04	20	
Barium	0.205	0.0020 mg/l	0.200		102	85-115	2.47	20	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010156 - General Preparation									
Duplicate (5010156-DUP1)		Source: SA22500-12	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
% Solids	83.2	%		83.1			0.120	20	
Batch 5010157 - General Preparation									
Duplicate (5010157-DUP1)		Source: SA22502-11	Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
% Solids	66.6	%		67.0			0.599	20	

Notes and Definitions

__RE	Reanalysis for data confirmation.
Comp	Completed
QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than10% of the sample result, which is negligible according to method criteria
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-04	Analyses are not controlled on RPD values from sample concentrations less than the reporting limit QC batch accepted based on LCS and/or LCSD QC results
QR-05	RPD out of acceptance range.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples These compounds are spiked into all blanks, standards, and

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA 22500 (N) MM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: GES
25 JOHN BARNETT RD
ROBIN HILL CORP. PARK
PATTERSON NY 12563
Project Mgr.: M. DEGLORIA

Invoice To: SAME
INV# 5000592 (N)
P.O. No.: _____ RQN: 5093

Project No.: SUFFAIN REALTY
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s): M. DEGLORIA

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

QA Reporting Notes: (check if needed)
State specific reporting standards *If applicable, please list below.*
☐ Provide MCP CAM Report
Were all field QC requirements met as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		RCRA Metals (8)	TCLP Pb, As, Ba	PAHs by 8270						QA Reporting Notes
22500-01	A-15 1.5'	12-29	0930	G	SO	—			2			X	X							PB rush for
-02	A-40 1.5'	12-29	0945	G	SO	—			2			X	X							1/7
-03	B-41 1.5'	12-29	0955	G	SO	—			2			X	X							
-04	C-17 1.5'	12-29	1005	G	SO	—			2			X	X							
-05	D-36 1.5'	12-29	1015	G	SO	—			2			X	X							
-06	E-19 1.5'	12-29	1025	G	SO	—			2			X	X							
-07	E-40 1.5'	12-29	1230	G	SO	—			2			X	X							
-08	F-18 1.5'	12-29	1035	G	SO	—			2			X	X							
-09	F-34 1.5'	12-29	1245	G	SO	—			2			X	X							
-10	H-15 1.5'	1229	1045	G	SO	—			2			X	X							

☐ Fax results when available to (____) _____
☒ E-mail to MDEGLORIA@GESONLINE.com
EDD Format _____
Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 3

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fuiss	12-30	1100
[signature]	T Kumins	1/4/05	1500

22500

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:
☑ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: See p1

Project Mgr.: _____

Invoice To: see p1

P.O. No.: _____ RQN: 5093

Project No.: SUECAN REALTY
Site Name: _____
Location: _____ State: _____
Sampler(s): _____

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	RCRA Metals(8)	TCLP Pb, As, Ba	PAHs by 8270							QA Reporting Notes: (check if needed)
22500 - 11	H-32 1.5'	12-29	1300	G	SO	—			2		X	X	X							Total Pb Rush
- 12	G-39 1.5'	12-29	1305	G	SO	—			1		X	X								for 1/7
- 13	H-38 1.5'	12-29	1315	G	SO	—			1		X	X								
- 14	K-18 1.5'	12-29	1100	G	SO	—			2		X	X								
- 15	L-29 1.5'	12-29	1110	G	SO	—			2		X	X	X							ADDED
- 16	L-35 1.5'	12-29	1325	G	SO	—			1		X	X								ANALYSIS
- 17	J-31 1.5'	12-29	1115	G	SO	—			2		X	X								per client
- 18	J-36 1.5'	12-29	1335	G	SO	—			1		X	X								fax
- 19	N-33 1.5'	12-29	1130	G	SO	—			1		X	X								
- 20	O-11 1.5'	12-29	1145	G	SO	—			2		X	X	X							

State specific reporting standards
If applicable, please list below.

☐ Provide MCP CAM Report
Were all field QC requirements met as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

☐ Fax results when available to (____) _____
☐ E-mail to _____
EDD Format _____

Condition upon receipt: ☑ Iced ☐ Ambient ☐ °C 3

Relinquished by:	Received by:	Date:	Time:
[signature]	GES FLUDGE	12-30	1100
FedX	[signature]	1/4/05	1000

22500

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: See p. 1

Project Mgr.: _____

Invoice To: See p. 1

P.O. No.: _____ RQN: 5093

Project No.: SUCAN Remedy

Site Name: _____

Location: _____ State: _____

Sampler(s): _____

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

QA Reporting Notes: (check if needed)

State specific reporting standards *If applicable, please list below.*

☐ Provide MCP CAM Report
Were all field QC requirements met as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Analyses: RCRA Metals (8)	TCLP Pb, Ba, As	Pb/Pb 3050						QA Reporting Notes:
22500-21	0-13 1.5'	12-29	1150	G	SO	—			2			X	X	X						Total Pb rush AM 1/7
																				ADDED ANALYSIS per client SCP

☐ Fax results when available to (____) _____
☐ E-mail to _____
EDD Format _____
Condition upon receipt: ☑ Iced ☐ Ambient ☐ °C 3

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	12-30	1100
FedEx	[signature]	1/4/05	1000

Report Date:
07-Jan-05 16:30

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
JAN 17 2004
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:Suelain Realty/Granite Point

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA22502-01	A-14 Sieved	Soil	30-Dec-04 09:15	04-Jan-05 10:00
SA22502-02	A-14 Not-Sieved	Soil	30-Dec-04 09:15	04-Jan-05 10:00
SA22502-03	A-16 Sieved	Soil	30-Dec-04 09:00	04-Jan-05 10:00
SA22502-04	A-16 Not-Sieved	Soil	30-Dec-04 09:00	04-Jan-05 10:00
SA22502-05	A-29 Sieved	Soil	30-Dec-04 10:00	04-Jan-05 10:00
SA22502-06	A-29 Not-Sieved	Soil	30-Dec-04 10:00	04-Jan-05 10:00
SA22502-07	A-36 Sieved	Soil	30-Dec-04 09:45	04-Jan-05 10:00
SA22502-08	A-36 Not-Sieved	Soil	30-Dec-04 09:45	04-Jan-05 10:00
SA22502-09	A-39 Sieved	Soil	30-Dec-04 08:50	04-Jan-05 10:00
SA22502-10	A-39 Not-Sieved	Soil	30-Dec-04 08:50	04-Jan-05 10:00
SA22502-11	B-34 Sieved	Soil	30-Dec-04 09:30	04-Jan-05 10:00
SA22502-12	B-34 Not-Sieved	Soil	30-Dec-04 09:30	04-Jan-05 10:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 6 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal G. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-14 Sieved SA22502-01	Suelain Realty/Granite Point	Soil	30-Dec-04 09:15	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	12,500	1.99 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	73.2	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-14 Not-Sieved SA22502-02	Suelain Realty/Granite Point	Soil	30-Dec-04 09:15	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	45,200	184 mg/kg dry	100	EPA 200.7	05-Jan-05	07-Jan-05	5010265	RE	
General Chemistry Parameters									
% Solids	77.0	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-16 Sieved SA22502-03	Suelain Realty/Granite Point	Soil	30-Dec-04 09:00	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	31,800	205 mg/kg dry	100	EPA 200.7	05-Jan-05	07-Jan-05	5010265	RE	
General Chemistry Parameters									
% Solids	71.0	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-16 Not-Sieved SA22502-04	Suelain Realty/Granite Point	Soil	30-Dec-04 09:00	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	106,000	178 mg/kg dry	100	EPA 200.7	05-Jan-05	07-Jan-05	5010265	RE	
General Chemistry Parameters									
% Solids	75.3	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-29 Sieved SA22502-05	Suelain Realty/Granite Point	Soil	30-Dec-04 10:00	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	4,030	2.20 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	63.5	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-29 Not-Sieved SA22502-06	Suelain Realty/Granite Point	Soil	30-Dec-04 10:00	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	315	1.94 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	73.3	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-36 Sieved SA22502-07	Suelain Realty/Granite Point	Soil	30-Dec-04 09:45	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,230	2.11 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	65.1	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-36 Not-Sieved SA22502-08	Suelain Realty/Granite Point	Soil	30-Dec-04 09:45	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,150	2.60 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	56.1	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-39 Sieved SA22502-09	Suelain Realty/Granite Point	Soil	30-Dec-04 08:50	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,180	2.32 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	60.2	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-39 Not-Sieved SA22502-10	Suelain Realty/Granite Point	Soil	30-Dec-04 08:50	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	203	1.98 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	69.5	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-34 Sieved SA22502-11	Suelain Realty/Granite Point	Soil	30-Dec-04 09:30	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,700	2.17 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	67.0	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010157	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-34 Not-Sieved SA22502-12	Suelain Realty/Granite Point	Soil	30-Dec-04 09:30	04-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,620	2.13 mg/kg dry	1	EPA 200.7	05-Jan-05	06-Jan-05	5010144	HB	
General Chemistry Parameters									
% Solids	65.4	%	1	SM2540 G Mod.	05-Jan-05	06-Jan-05	5010165	LN	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010144 - EPA 200 Series										
Blank (5010144-BLK1)				Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	BRL	1.50	mg/kg wet							
LCS (5010144-BS1)				Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	0.905	0.0150	mg/kg wet	1.00		90.5	85-115			
Duplicate (5010144-DUP1)		Source: SA22500-21		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	39.0	1.75	mg/kg dry		23.7			48.8	35	QR-05
Duplicate (5010144-DUP2)		Source: SA22502-12		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	1450	2.23	mg/kg dry		1620			11.1	35	
Matrix Spike (5010144-MS1)		Source: SA22502-01		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	13100	1.98	mg/kg dry	132	12500	455	70-130			QM-02
Matrix Spike (5010144-MS2)		Source: SA22506-09		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	218	1.70	mg/kg dry	113	202	14.2	70-130			QM-07
Matrix Spike Dup (5010144-MSD1)		Source: SA22502-01		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	13400	2.00	mg/kg dry	133	12500	677	70-130	2.26	35	QM-02
Matrix Spike Dup (5010144-MSD2)		Source: SA22506-09		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	778	1.56	mg/kg dry	104	202	554	70-130	112	35	QM-07, QR-05
Reference (5010144-SRM1)				Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
Lead	112	1.50	mg/kg wet	124		90.3	85-115			
Batch 5010265 - EPA 200 Series										
Blank (5010265-BLK1)				Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Lead	BRL	1.50	mg/kg wet							
LCS (5010265-BS1)				Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Lead	0.915	0.0150	mg/kg wet	1.00		91.5	85-115			
Reference (5010265-SRM1)				Prepared: 05-Jan-05 Analyzed: 07-Jan-05						
Lead	120	1.50	mg/kg wet	124		96.8	85-115			

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5010157 - General Preparation										
Duplicate (5010157-DUP1)		Source: SA22502-11		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
% Solids	66.6		%		67.0			0.599	20	
Batch 5010165 - General Preparation										
Duplicate (5010165-DUP1)		Source: SA22516-04		Prepared: 05-Jan-05 Analyzed: 06-Jan-05						
% Solids	76.9		%		74.5			3.17	20	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QR-05 RPD out of acceptance range.

BRL Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA 22502 (12) MW

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: 1/7 per RL
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: GES PATTERSON
25 JON BARRETT RD.
ROBIN HILL CORPORATE PARK
PATTERSON, N.Y. 12563
Project Mgr.: M. DEGLORIA

Invoice To: SAME
IW#5000330 (MP)
P.O. No.: _____ RQN: 5093

Project No.: SUELAIN REALTY (GRANITE POINTE)
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s): M. DEGLORIA

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		TOTAL LEAD								QA Reporting Notes: (check if needed)
22502-01	A-14 SIEVED	12:30	0915	G	SO	–		12				X								
- 02	A-14 UNOT-SIEVED		0915					12												See phone log 1/5/04
- 03	A-16 SIEVED		0900					12												
- 04	A-16 NOT-SIEVED		0900					12												
05	A-29 SIEVED		1000					12												
- 06	A-29 NOT-SIEVED		1000					12												
- 07	A-36 SIEVED		0945					12												
- 08	A-36 NOT-SIEVED		0945					12												
- 09	A-39 SIEVED		0850					12												
- 10	A-39 NOT SIEVED		0850					12												

☐ Fax results when available to (____)
☒ E-mail to MDEGLORIA@GESONLINE.COM
EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 3

Relinquished by:	Received by:	Date:	Time:
[signature]	GES FRIDGE	12/30	1100
Fed X	[signature]	1/4/05	1000

22502

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 1/7 per PIC
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: GES PATTERSON

Invoice To: SAME

Project No.: SUFFAIN REALTY
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s): M. DEGLORIA

Project Mgr.: M. DEGLORIA

P.O. No.: RQN: 5093

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

QA Reporting Notes: (check if needed)

State specific reporting standards *If applicable, please list below.*

☐ Provide MCP CAM Report
Were all field QC requirements met as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: Total Lead								QA Reporting Notes
22502-11	B-34 SIEVED	12-30	0930	G	SO	—		12			X								
12	B-34 NOT SIEVED	12-30	0930	G	SO	—		12			X								See phone log 1/5/05

☐ Fax results when available to (____) _____
☒ E-mail to MDEGLORIA@GESONLINE.COM
EDD Format _____

Condition upon receipt: ☐ Iced ☒ Ambient ☐ °C 3

Relinquished by:	Received by:	Date:	Time:
[signature]	GES FRIDGE	12/30	1100
[signature]	[signature]	1/4/05	10:00

APPENDIX D

January 2005 Laboratory Reports

Report Date:
07-Feb-05 16:39

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
FEB 12 2005
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:1100553 Suelain Realty

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA23387-01	A-15 2.5ft	Soil	21-Jan-05 10:00	26-Jan-05 10:00
SA23387-02	A-16 1.5ft	Soil	21-Jan-05 10:00	26-Jan-05 10:00
SA23387-03	A-14 1.5ft	Soil	21-Jan-05 10:00	26-Jan-05 10:00
SA23387-04	B-14 1.5ft	Soil	21-Jan-05 10:05	26-Jan-05 10:00
SA23387-05	B-15 1.5ft	Soil	21-Jan-05 10:05	26-Jan-05 10:00
SA23387-06	B-16 1.5ft	Soil	21-Jan-05 10:05	26-Jan-05 10:00
SA23387-07	C-13 2.5ft	Soil	21-Jan-05 10:15	26-Jan-05 10:00
SA23387-08	B-13 1.5ft	Soil	21-Jan-05 10:15	26-Jan-05 10:00
SA23387-09	C-12 1.5ft	Soil	21-Jan-05 10:15	26-Jan-05 10:00
SA23387-10	C-14 1.5ft	Soil	21-Jan-05 10:30	26-Jan-05 10:00
SA23387-11	D-12 1.5ft	Soil	21-Jan-05 10:30	26-Jan-05 10:00
SA23387-12	D-13 1.5ft	Soil	21-Jan-05 10:30	26-Jan-05 10:00
SA23387-13	D-14 1.5ft	Soil	21-Jan-05 10:45	26-Jan-05 10:00
SA23387-14	F-18 2.5ft	Soil	21-Jan-05 10:45	26-Jan-05 10:00
SA23387-15	E-17 1.5ft	Soil	21-Jan-05 10:45	26-Jan-05 10:00
SA23387-16	E-18 1.5ft	Soil	21-Jan-05 11:00	26-Jan-05 10:00
SA23387-17	E-19 1.5ft	Soil	21-Jan-05 11:00	26-Jan-05 10:00
SA23387-18	F-17 1.5ft	Soil	21-Jan-05 11:00	26-Jan-05 10:00
SA23387-19	F-20 1.5ft	Soil	21-Jan-05 11:10	26-Jan-05 10:00
SA23387-20	G-17 1.5ft	Soil	21-Jan-05 11:10	26-Jan-05 10:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-15 2.5ft SA23387-01	1100553 Suelain Realty	Soil	21-Jan-05 10:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	66.4	1.56 mg/kg dry	1	EPA 200.7	07-Feb-05	07-Feb-05	5020338	RE	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	0.170	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	86.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-16 1.5ft SA23387-02	1100553 Suelain Realty	Soil	21-Jan-05 10:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,520	1.85 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	15.7	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	76.5	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-14 1.5ft SA23387-03	1100553 Suelain Realty	Soil	21-Jan-05 10:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	615	1.84 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	45.0	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	80.3	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-14 1.5ft SA23387-04	1100553 Suelain Realty	Soil	21-Jan-05 10:05	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	5,130	1.89 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	6.78	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	77.7	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-15 1.5ft SA23387-05	1100553 Suelain Realty	Soil	21-Jan-05 10:05	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,810	1.83 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	102	0.150 mg/l	20	SW846 6010B	04-Feb-05	07-Feb-05	5020326	RE	
General Chemistry Parameters									
% Solids	73.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-16 1.5ft SA23387-06	1100553 Suelain Realty	Soil	21-Jan-05 10:05	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,010	1.82 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	69.4	0.150 mg/l	20	SW846 6010B	04-Feb-05	07-Feb-05	5020326	RE	
General Chemistry Parameters									
% Solids	77.3	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-13 2.5ft SA23387-07	1100553 Suelain Realty	Soil	21-Jan-05 10:15	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,010	1.67 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	40.4	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	79.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-13 1.5ft SA23387-08	1100553 Suelain Realty	Soil	21-Jan-05 10:15	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,650	1.99 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	38.4	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	72.5	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-12 1.5ft SA23387-09	1100553 Suelain Realty	Soil	21-Jan-05 10:15	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,900	1.99 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	49.8	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	74.2	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-14 1.5ft SA23387-10	1100553 Suelain Realty	Soil	21-Jan-05 10:30	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	552	1.76 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	45.0	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	78.9	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
D-12 1.5ft SA23387-11	1100553 Suelain Realty	Soil	21-Jan-05 10:30	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,480	2.01 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	12.9	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	74.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
D-13 1.5ft SA23387-12	1100553 Suelain Realty	Soil	21-Jan-05 10:30	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,290	1.88 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	9.77	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	76.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
D-14 1.5ft SA23387-13	1100553 Suelain Realty	Soil	21-Jan-05 10:45	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	3,530	1.94 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	20.0	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	74.2	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
F-18 2.5ft SA23387-14	1100553 Suelain Realty	Soil	21-Jan-05 10:45	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	295	1.81 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	4.02	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	81.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-17 1.5ft SA23387-15	1100553 Suelain Realty	Soil	21-Jan-05 10:45	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,270	1.69 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	21.5	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	83.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-18 1.5ft SA23387-16	1100553 Suelain Realty	Soil	21-Jan-05 11:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,680	1.90 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	71.7	0.150 mg/l	20	SW846 6010B	04-Feb-05	07-Feb-05	5020326	RE	
General Chemistry Parameters									
% Solids	76.0	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E-19 1.5ft SA23387-17	1100553 Suelain Realty	Soil	21-Jan-05 11:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,500	1.98 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	49.8	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	71.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
F-17 1.5ft SA23387-18	1100553 Suelain Realty	Soil	21-Jan-05 11:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	4,300	1.98 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	14.0	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	70.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011336	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
F-20 1.5ft SA23387-19	1100553 Suelain Realty	Soil	21-Jan-05 11:10	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	397	1.75 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	2.66	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	80.7	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011363	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-17 1.5ft SA23387-20	1100553 Suelain Realty	Soil	21-Jan-05 11:10	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	3,730	1.82 mg/kg dry	1	EPA 200.7	03-Feb-05	06-Feb-05	5020108	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	03-Feb-05	03-Feb-05	5020223	LN	
Lead	35.8	0.0075 mg/l	1	SW846 6010B	04-Feb-05	05-Feb-05	5020226	HB	
General Chemistry Parameters									
% Solids	76.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011363	LN	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5020108 - EPA 200 Series										
Blank (5020108-BLK1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	BRL	5.00	mg/kg wet							
LCS (5020108-BS1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	0.953	0.0150	mg/kg wet	1.00		95.3	85-115			
Duplicate (5020108-DUP2)		Source: SA23387-19		Prepared: 03-Feb-05 Analyzed: 06-Feb-05						
Lead	298	1.82	mg/kg dry		397			28.5	35	
Matrix Spike (5020108-MS1)		Source: SA23387-02		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	2760	1.84	mg/kg dry	123	2520	195	70-130			QM-4X
Matrix Spike (5020108-MS2)		Source: SA23387-20		Prepared: 03-Feb-05 Analyzed: 06-Feb-05						
Lead	5880	1.73	mg/kg dry	115	3730	NR	70-130			QM-4X
Matrix Spike Dup (5020108-MSD1)		Source: SA23387-02		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	2370	1.80	mg/kg dry	120	2520	NR	70-130	15.2	35	QM-4X
Matrix Spike Dup (5020108-MSD2)		Source: SA23387-20		Prepared: 03-Feb-05 Analyzed: 06-Feb-05						
Lead	4690	1.89	mg/kg dry	126	3730	762	70-130	22.5	35	QM-4X
Reference (5020108-SRM1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	116	1.50	mg/kg wet	125		92.8	85-115			
Batch 5020338 - EPA 200 Series										
Blank (5020338-BLK1)				Prepared & Analyzed: 07-Feb-05						
Lead	BRL	1.50	mg/kg wet							
LCS (5020338-BS1)				Prepared & Analyzed: 07-Feb-05						
Lead	1.00	0.0150	mg/kg wet	1.00		100	85-115			
Duplicate (5020338-DUP1)		Source: SA23387-01		Prepared & Analyzed: 07-Feb-05						
Lead	22.3	1.70	mg/kg dry		66.4			99.4	35	QR-05
Matrix Spike (5020338-MS1)		Source: SA23387-01		Prepared & Analyzed: 07-Feb-05						
Lead	122	1.66	mg/kg dry	110	66.4	50.5	70-130			QM-07
Matrix Spike Dup (5020338-MSD1)		Source: SA23387-01		Prepared & Analyzed: 07-Feb-05						
Lead	98.6	1.55	mg/kg dry	103	66.4	31.3	70-130	21.2	35	QM-07
Reference (5020338-SRM1)				Prepared & Analyzed: 07-Feb-05						
Lead	118	1.50	mg/kg wet	121		97.5	85-115			

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5020223 - SW846 1311										
Blank (5020223-BLK1)				Prepared & Analyzed: 03-Feb-05						
TCLP Extraction	Completed		N/A							
Blank (5020223-BLK2)				Prepared & Analyzed: 03-Feb-05						
TCLP Extraction	Completed		N/A							
Batch 5020226 - SW846 3010A										
Blank (5020226-BLK1)				Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	BRL	0.0075	mg/l							
LCS (5020226-BS1)				Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	0.908	0.0075	mg/l	1.00		90.8	85-115			
LCS Dup (5020226-BSD1)				Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	0.886	0.0075	mg/l	1.00		88.6	85-115	2.45	20	
Duplicate (5020226-DUP1)		Source: SA23387-02		Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	16.1	0.0075	mg/l		15.7			2.52	20	
Duplicate (5020226-DUP2)		Source: SA23387-12		Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	8.49	0.0075	mg/l		9.77			14.0	20	
Matrix Spike (5020226-MS1)		Source: SA23387-01		Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	0.250	0.0075	mg/l	0.100	0.170	80.0	75-125			
Matrix Spike (5020226-MS2)		Source: SA23387-11		Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	13.0	0.0075	mg/l	0.100	12.9	100	75-125			
Matrix Spike Dup (5020226-MSD1)		Source: SA23387-01		Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	0.245	0.0075	mg/l	0.100	0.170	75.0	75-125	2.02	20	
Matrix Spike Dup (5020226-MSD2)		Source: SA23387-11		Prepared: 04-Feb-05 Analyzed: 05-Feb-05						
Lead	13.1	0.0075	mg/l	0.100	12.9	200	75-125	0.766	20	QM-4X
Batch 5020326 - SW846 3010A										
Blank (5020326-BLK1)				Prepared: 04-Feb-05 Analyzed: 07-Feb-05						
Lead	0.0157	0.0075	mg/l							QB-01
LCS (5020326-BS1)				Prepared: 04-Feb-05 Analyzed: 07-Feb-05						
Lead	0.970	0.0075	mg/l	1.00		97.0	85-115			
LCS Dup (5020326-BSD1)				Prepared: 04-Feb-05 Analyzed: 07-Feb-05						
Lead	0.952	0.0075	mg/l	1.00		95.2	85-115	1.87	20	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5011336 - General Preparation										
Duplicate (5011336-DUP1)		Source: SA23387-18		Prepared: 27-Jan-05 Analyzed: 28-Jan-05						
% Solids	68.2		%		70.4			3.17	20	
Batch 5011363 - General Preparation										
Duplicate (5011363-DUP1)		Source: SA23401-13		Prepared: 27-Jan-05 Analyzed: 28-Jan-05						
% Solids	97.5		%		97.5			0.00	20	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

Comp	Completed
QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR-05	RPD out of acceptance range.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA 23387

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES
25 JON BARRETT ROAD
PATTERSON, NY 12563

Project Mgr.: M. DEGLORIA

Invoice To: SAME
WW#5001613 (JH)

P.O. No.: _____ RQN: 5093

Project No.: 1100553 SVECAIN REALTY
Site Name: GRANITE POINTE
Location: SOMERS State: NY
Sampler(s): BUCK, BRADLEY, DEGLORIA

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Total Lead 200.7	TCLP Lead							Notes:
SA23387-01	A-15 2.5'	01.21.05	1000	G	SO			1				X	X							
-02	A-16 1.5'		1000																	
-03	A-14 1.5'		1000																	
-04	B-14 1.5'		1005																	
-05	B-15 1.5'		1005																	
-06	B-16 1.5'		1005																	
-07	C-13 2.5'		1015																	
-08	B-13 1.5'		1015																	
-09	C-12 1.5'		1015																	
-10	C-14 1.5'		1050																	

☐ Fax results when available to (____) _____
☒ E-mail results when available to mdegloria@gesonline.com
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 2 °C

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fridge	01.21.05	1530
[signature]	[signature]	1/26/05	10:00

SA23387

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES
25 Jon Barrett Rd.
Patterson, NY 12563

Project Mgr.: M. DeGloria

Invoice To: SAMG

P.O. No.: _____ RQN: 5093

Project No.: 1100553 Sullain Realty
Site Name: Granite Pointe
Location: Somers State: NY
Sampler(s): Buck, Bradley, DeGloria

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Lead	TCLP Lead	Notes:
A23387-11	D-12 1.5'	01.21.05	1030	G	SO			1	1		X	X	
-12	D-13 1.5'		1030					1	1				
-13	D-14 1.5'		1045					1	1				
-14	F-18 2.5'		1045										
-15	E-17 1.5'		1045										
-16	E-18 1.5'		1100										
-17	E-19 1.5'		1100										
-18	F-17 1.5'		1100										
-19	F-20 1.5'		1110										
-20	G-17 1.5'		1110										

☐ Fax results when available to (____) _____
☒ E-mail results when available to mdegloria@gesonline.com
Condition upon Receipt: ☒ Iced ☐ Ambient ☐ 2°C

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fridge	01.21.05	1530
Fed X	[signature]	1/26/05	10:00

Report Date:
07-Feb-05 13:39

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
FEB 12 2005
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:1100553 Suelain Realty

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA23380-01	K-17 1.5'	Soil	21-Jan-05 12:30	26-Jan-05 09:30
SA23380-02	K-19 1.5'	Soil	21-Jan-05 12:40	26-Jan-05 09:30
SA23380-03	L-18 1.5'	Soil	21-Jan-05 12:50	26-Jan-05 09:30
SA23380-04	L-19 1.5'	Soil	21-Jan-05 13:10	26-Jan-05 09:30
SA23380-05	C-25 1.5'	Soil	21-Jan-05 13:15	26-Jan-05 09:30
SA23380-06	G-23 1.5'	Soil	21-Jan-05 13:30	26-Jan-05 09:30
SA23380-07	J-12 1.5'	Soil	21-Jan-05 13:45	26-Jan-05 09:30
SA23380-08	C-7 1.5'	Soil	21-Jan-05 13:45	26-Jan-05 09:30
SA23380-09	B-17 1.5'	Soil	21-Jan-05 13:45	26-Jan-05 09:30
SA23380-10	B-18 1.5'	Soil	21-Jan-05 13:50	26-Jan-05 09:30
SA23380-11	G-18 1.5'	Soil	21-Jan-05 11:10	26-Jan-05 09:30
SA23380-12	G-19 1.5'	Soil	21-Jan-05 11:20	26-Jan-05 09:30
SA23380-13	G-9 1.5'	Soil	21-Jan-05 11:20	26-Jan-05 09:30
SA23380-14	G-9 2.5'	Soil	21-Jan-05 11:30	26-Jan-05 09:30
SA23380-15	M-15 1.5	Soil	21-Jan-05 11:40	26-Jan-05 09:30
SA23380-16	M-15 2.5	Soil	21-Jan-05 11:50	26-Jan-05 09:30
SA23380-17	K-18 2.5'	Soil	21-Jan-05 11:55	26-Jan-05 09:30
SA23380-18	J-17 1.5'	Soil	21-Jan-05 12:05	26-Jan-05 09:30
SA23380-19	J-18 1.5'	Soil	21-Jan-05 12:10	26-Jan-05 09:30
SA23380-20	J-19 1.5'	Soil	21-Jan-05 12:20	26-Jan-05 09:30
SA23380-21	B-19 1.5'	Soil	21-Jan-05 14:00	26-Jan-05 09:30
SA23380-22	C-17 1.5'	Soil	21-Jan-05 14:00	26-Jan-05 09:30
SA23380-23	K-28 1.5'	Soil	21-Jan-05 14:05	26-Jan-05 09:30
SA23380-24	K-28 2.5'	Soil	21-Jan-05 14:15	26-Jan-05 09:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 14 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-17 1.5' SA23380-01	1100553 Suelain Realty	Soil	21-Jan-05 12:30	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	429	1.80 mg/kg dry	1	EPA 200.7	02-Feb-05	03-Feb-05	5020109	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	2.64	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	77.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-19 1.5' SA23380-02	1100553 Suelain Realty	Soil	21-Jan-05 12:40	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	109	1.80 mg/kg.dry	1	EPA 200.7	02-Feb-05	03-Feb-05	5020109	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.499	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	82.0	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-18 1.5' SA23380-03	1100553 Suelain Realty	Soil	21-Jan-05 12:50	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	141	1.84 mg/kg dry	1	EPA 200.7	02-Feb-05	03-Feb-05	5020109	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.914	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	78.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-19 1.5' SA23380-04	1100553 Suelain Realty	Soil	21-Jan-05 13:10	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	364	1.74 mg/kg dry	1	EPA 200.7	02-Feb-05	03-Feb-05	5020109	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	1.42	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	84.0	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-25 1.5' SA23380-05	1100553 Suelain Realty	Soil	21-Jan-05 13:15	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	136	1.70 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.540	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	84.2	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-23 1.5' SA23380-06	1100553 Suelain Realty	Soil	21-Jan-05 13:30	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	378	1.66 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	1.90	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	80.7	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-12 1.5' SA23380-07	1100553 Suelain Realty	Soil	21-Jan-05 13:45	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	145	1.91 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.370	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	78.5	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-7 1.5' SA23380-08	1100553 Suelain Realty	Soil	21-Jan-05 13:45	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	444	1.79 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	2.92	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	77.9	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-17 1.5' SA23380-09	1100553 Suelain Realty	Soil	21-Jan-05 13:45	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,140	1.73 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	98.2	0.0750 mg/l	10	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	81.9	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-18 1.5' SA23380-10	1100553 Suelain Realty	Soil	21-Jan-05 13:50	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,350	1.70 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	72.4	0.0750 mg/l	10	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	78.7	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-18 1.5' SA23380-11	1100553 Suelain Realty	Soil	21-Jan-05 11:10	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	925	1.74 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	6.54	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	76.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-19 1.5' SA23380-12	1100553 Suelain Realty	Soil	21-Jan-05 11:20	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,940	1.87 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	25.6	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	76.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-9 1.5' SA23380-13	1100553 Suelain Realty	Soil	21-Jan-05 11:20	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,410	1.98 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	6.44	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	71.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-9 2.5' SA23380-14	1100553 Suelain Realty	Soil	21-Jan-05 11:30	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	15,000	1.80 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	5.61	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	76.6	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
M-15 1.5 SA23380-15	1100553 Suelain Realty	Soil	21-Jan-05 11:40	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,090	1.98 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	4.03	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	73.8	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
M-15 2.5 SA23380-16	1100553 Suelain Realty	Soil	21-Jan-05 11:50	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	164	1.67 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.772	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	83.8	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-18 2.5' SA23380-17	1100553 Suelain Realty	Soil	21-Jan-05 11:55	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	198	1.78 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.850	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	82.8	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-17 1.5' SA23380-18	1100553 Suelain Realty	Soil	21-Jan-05 12:05	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	1,700	1.82 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	38.8	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	76.1	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-18 1.5' SA23380-19	1100553 Suelain Realty	Soil	21-Jan-05 12:10	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	814	1.79 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	2.38	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	74.0	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011334	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-19 1.5' SA23380-20	1100553 Suelain Realty	Soil	21-Jan-05 12:20	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,710	1.81 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	4.52	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020171	HB	
General Chemistry Parameters									
% Solids	78.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011335	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-19 1.5' SA23380-21	1100553 Suelain Realty	Soil	21-Jan-05 14:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	2,220	1.93 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	9.34	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020172	HB	
General Chemistry Parameters									
% Solids	76.9	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011335	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
C-17 1.5' SA23380-22	1100553 Suelain Realty	Soil	21-Jan-05 14:00	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	796	1.85 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	5.83	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020172	HB	
General Chemistry Parameters									
% Solids	78.7	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011335	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-28 1.5' SA23380-23	1100553 Suelain Realty	Soil	21-Jan-05 14:05	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	870	2.03 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	2.41	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020172	HB	
General Chemistry Parameters									
% Solids	72.8	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011335	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-28 2.5' SA23380-24	1100553 Suelain Realty	Soil	21-Jan-05 14:15	26-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Total Metals by EPA 200 Series Methods									
Lead	125	1.61 mg/kg dry	1	EPA 200.7	03-Feb-05	05-Feb-05	5020114	HB	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods									
TCLP Extraction	Completed	N/A	1	SW846 1311	02-Feb-05	03-Feb-05	5020167	LFR	
Lead	0.822	0.0075 mg/l	1	SW846 6010B	03-Feb-05	05-Feb-05	5020172	HB	
General Chemistry Parameters									
% Solids	84.4	%	1	SM2540 G Mod.	27-Jan-05	28-Jan-05	5011335	LN	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5020109 - EPA 200 Series									
Blank (5020109-BLK1)			Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Lead	BRL	1.50 mg/kg wet							
LCS (5020109-BS1)			Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Lead	0.977	0.0150 mg/kg wet	1.00		97.7	85-115			
Duplicate (5020109-DUP1)		Source: SA23380-01	Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Lead	466	1.83 mg/kg dry		429			8.27	35	
Matrix Spike (5020109-MS1)		Source: SA23575-01	Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Lead	196	3.20 mg/kg dry	213	12.6	86.1	70-130			
Matrix Spike Dup (5020109-MSD1)		Source: SA23575-01	Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Lead	201	3.24 mg/kg dry	216	12.6	87.2	70-130	2.52	35	
Reference (5020109-SRM1)			Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Lead	116	1.50 mg/kg wet	126		92.1	85-115			
Batch 5020114 - EPA 200 Series									
Blank (5020114-BLK1)			Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	1.85	1.50 mg/kg wet							QB-01
LCS (5020114-BS1)			Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	1.00	0.0150 mg/kg wet	1.00		100	85-115			
Duplicate (5020114-DUP1)		Source: SA23380-05	Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	130	1.74 mg/kg dry		136			4.51	35	
Duplicate (5020114-DUP2)		Source: SA23380-23	Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	773	2.02 mg/kg dry		870			11.8	35	
Matrix Spike (5020114-MS1)		Source: SA23380-06	Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	396	1.66 mg/kg dry	111	378	16.2	70-130			QM-07
Matrix Spike (5020114-MS2)		Source: SA23380-24	Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	238	1.59 mg/kg dry	106	125	107	70-130			
Matrix Spike Dup (5020114-MSD1)		Source: SA23380-06	Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	711	1.65 mg/kg dry	110	378	303	70-130	56.9	35	QM-07
Matrix Spike Dup (5020114-MSD2)		Source: SA23380-24	Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	230	1.62 mg/kg dry	108	125	97.2	70-130	3.42	35	
Reference (5020114-SRM1)			Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	115	1.50 mg/kg wet	124		92.7	85-115			

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5020167 - SW846 1311										
Blank (5020167-BLK1)				Prepared & Analyzed: 02-Feb-05						
TCLP Extraction	Completed	N/A								
Blank (5020167-BLK2)				Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
TCLP Extraction	Completed	N/A								
Batch 5020171 - SW846 3010A										
Blank (5020171-BLK1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	BRL	0.0075	mg/l							
LCS (5020171-BS1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	0.908	0.0075	mg/l	1.00		90.8	85-115			
LCS Dup (5020171-BSD1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	0.893	0.0075	mg/l	1.00		89.3	85-115	1.67	20	
Duplicate (5020171-DUP1)		Source: SA23380-02		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	0.442	0.0075	mg/l		0.499			12.1	20	
Duplicate (5020171-DUP2)		Source: SA23380-12		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	37.3	0.0075	mg/l		25.6			37.2	20	QR-05
Matrix Spike (5020171-MS1)		Source: SA23380-01		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	2.79	0.0075	mg/l	0.100	2.64	150	75-125			QM-4X
Matrix Spike (5020171-MS2)		Source: SA23380-11		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	6.60	0.0075	mg/l	0.100	6.54	60.0	75-125			QM-4X
Matrix Spike Dup (5020171-MSD1)		Source: SA23380-01		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	2.80	0.0075	mg/l	0.100	2.64	160	75-125	0.358	20	QM-4X
Matrix Spike Dup (5020171-MSD2)		Source: SA23380-11		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	6.52	0.0075	mg/l	0.100	6.54	NR	75-125	1.22	20	QM-4X
Batch 5020172 - SW846 3010A										
Blank (5020172-BLK1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	BRL	0.0075	mg/l							
LCS (5020172-BS1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	0.902	0.0075	mg/l	1.00		90.2	85-115			
LCS Dup (5020172-BSD1)				Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	0.900	0.0075	mg/l	1.00		90.0	85-115	0.222	20	
Duplicate (5020172-DUP1)		Source: SA23380-22		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	6.48	0.0075	mg/l		5.83			10.6	20	
Matrix Spike (5020172-MS1)		Source: SA23380-21		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	9.30	0.0075	mg/l	0.100	9.34	NR	75-125			QM-4X
Matrix Spike Dup (5020172-MSD1)		Source: SA23380-21		Prepared: 03-Feb-05 Analyzed: 05-Feb-05						
Lead	9.37	0.0075	mg/l	0.100	9.34	30.0	75-125	0.750	20	QM-4X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5011334 - General Preparation										
Duplicate (5011334-DUP1)		**Source: SA23380-19**		Prepared: 27-Jan-05 Analyzed: 28-Jan-05						
% Solids	74.3		%		74.0			0.405	20	
Batch 5011335 - General Preparation										
Duplicate (5011335-DUP1)		**Source: SA23385-10**		Prepared & Analyzed: 27-Jan-05						
% Solids	80.6		%		83.6			3.65	20	

Notes and Definitions

Comp	Completed
QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR-05	RPD out of acceptance range.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA 23380

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling:
☑ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 3

Report To: GES
25 Jon Barrett Rd
Patterson, NY 12563

Project Mgr.: M. DeGloria

Invoice To: Same
INDH5001614

P.O. No.: _____ RQN: 5093

Project No.: 1100553 Sugarin Realty
Site Name: Granite Pointe
Location: Somers State: NY
Sampler(s): Buck, Bradley, DeGloria

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Lead	Toxic Lead	Notes:
23380-01	K-17 1.5'	01.21.05	12:30	G	SO			1			X	X	
-02	K-19 1.5'		12:40										
-03	L-18 1.5'		12:50										
-04	L-19 1.5'		13:10										
-05	C-25 1.5'		13:15										
-06	G-23 1.5'		13:30										
-07	J-12 1.5'		13:45										
-08	C-7 1.5'		13:45										
-09	B-17 1.5'		13:45										
-10	B-18 1.5'		13:50										

☐ Fax results when available to (____) _____
☑ E-mail results when available to mdegloria@gesonline
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 2 °C

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fedex	01.21.05	1530
[signature]	[signature]	1/26/05	930

23380

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:
☑ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES
25 Jon Bennett Rd
Patterson, NY 12563

Project Mgr.: M. DeGloria

Invoice To: Same

P.O. No.: _____ RQN: 5093

Project No.: 1100553 Sycamore Realty
Site Name: Granite Pointe
Location: Somers State: NY
Sampler(s): Buck, Bradley, DeGloria

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Analyses: Total Lead	Total	TCLP Lead						Notes:
23380-11	G-18 1.5'	01.21.05	1110	G	SO			1				X		X						
-12	G-19 1.5'	↓	1120	↓	↓			↓				↓		↓						
-13	G-19 1.5'		1120																	
-14	G-9 2.5'		1130																	
-15	M-15 1.5'		1140																	
-16	M-15 2.5'		1150																	
-17	K-18 2.5'		1155																	
-18	J-17 1.5'		1205																	
-19	J-18 1.5'		1210																	
-20	J-19 1.5'		1220																	

☐ Fax results when available to (____) _____
☑ E-mail results when available to mdeglorio@gesonline
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 2 °C

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fudge	01.21.05	1530
[signature]	[signature]	1/26/05	930

23380

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES PATTERSON

Project Mgr.:

Invoice To:

P.O. No.: RQN: 5093

Project No.: 1100553 Sullivan Realty
Site Name: GRANITE POINTE
Location: Saugus State: NY
Sampler(s): Buck, Bradley, Deglomia

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Lead	TCLP Lead							Notes:
23380-21	B-19 1.5'	01.21.05	1400	G	SO			1			X	X							
-22	C-17 1.5'	↓	1400	↓	↓			↓			↓	↓							
-23	K-28 1.5'		1405																
-24	K-28 2.5'		1415																

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fridge	01.21.05	1530
[signature]	[signature]	1/26/05	930

☐ Fax results when available to (_____) _____
☑ E-mail results when available to mdeglomia@gesonline
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 2 °C

Report Date:
04-Feb-05 14:19

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED
FEB 12 2005
By

Laboratory Report

GES, Inc.
25 Jon Barrett Road, Robin Hill Corp Park
Patterson, NY 12563
Attn: Michael DeGloria

Project:Granite Pointe - Somers, NY
Project #:Suelain Realty

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA23339-01	E (0.5 ft South Wall)	Soil	21-Jan-05 08:45	25-Jan-05 10:45
SA23339-02	E (1.5 ft South Wall)	Soil	21-Jan-05 08:50	25-Jan-05 10:45
SA23339-03	G-1 (0.5ft)	Soil	21-Jan-05 08:45	25-Jan-05 10:45
SA23339-04	G-1 (1.5ft)	Soil	21-Jan-05 08:50	25-Jan-05 10:45
SA23339-05	H (0.5ft South Wall)	Soil	21-Jan-05 08:45	25-Jan-05 10:45
SA23339-06	H (1.5ft South Wall)	Soil	21-Jan-05 08:50	25-Jan-05 10:45
SA23339-07	H-32 (1.5ft)	Soil	21-Jan-05 09:00	25-Jan-05 10:45
SA23339-08	K (0.5 ft South Wall)	Soil	21-Jan-05 09:00	25-Jan-05 10:45
SA23339-09	K (1.5 ft South Wall)	Soil	21-Jan-05 09:05	25-Jan-05 10:45
SA23339-10	L-27 (1.5ft)	Soil	21-Jan-05 09:10	25-Jan-05 10:45
SA23339-11	K-1 (0.5ft)	Soil	21-Jan-05 09:00	25-Jan-05 10:45
SA23339-12	K-1 (1.5ft)	Soil	21-Jan-05 09:05	25-Jan-05 10:45
SA23339-13	L-28 (1.5ft)	Soil	21-Jan-05 09:10	25-Jan-05 10:45
SA23339-14	N (0.5 ft South Wall)	Soil	21-Jan-05 09:10	25-Jan-05 10:45
SA23339-15	N (1.5ft South Wall)	Soil	21-Jan-05 09:15	25-Jan-05 10:45
SA23339-16	N-12 (0.5ft)	Soil	21-Jan-05 09:20	25-Jan-05 10:45
SA23339-17	N-12 (1.5ft)	Soil	21-Jan-05 09:25	25-Jan-05 10:45
SA23339-18	O (0.5ft South Wall)	Soil	21-Jan-05 09:20	25-Jan-05 10:45
SA23339-19	O (1.5ft South Wall)	Soil	21-Jan-05 09:25	25-Jan-05 10:45
SA23339-20	O-13 (1.5ft)	Soil	21-Jan-05 09:20	25-Jan-05 10:45
SA23339-21	O-1 (0.5ft)	Soil	21-Jan-05 09:30	25-Jan-05 10:45
SA23339-22	O-1 (1.5ft)	Soil	21-Jan-05 09:35	25-Jan-05 10:45
SA23339-23	O-9 (0.5ft)	Soil	21-Jan-05 09:30	25-Jan-05 10:45
SA23339-24	O-9 (1.5ft)	Soil	21-Jan-05 09:35	25-Jan-05 10:45
SA23339-25	O-11 (1.5ft)	Soil	21-Jan-05 09:40	25-Jan-05 10:45
SA23339-26	O-16 (0.5ft)	Soil	21-Jan-05 09:40	25-Jan-05 10:45
SA23339-27	O-16 (1.5ft)	Soil	21-Jan-05 09:45	25-Jan-05 10:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 33 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E (0.5 ft South Wall) SA23339-01	Suelain Realty	Soil	21-Jan-05 08:45	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	180 ug/kg dry	1	SW846 8270C	31-Jan-05	01-Feb-05	5011466	M.B	
Acenaphthylene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	180 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*59.2*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*68.3*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.2	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
E (1.5 ft South Wall) SA23339-02	Suelain Realty	Soil	21-Jan-05 08:50	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	160 ug/kg dry	1	SW846 8270C	31-Jan-05	01-Feb-05	5011466	M.B	
Acenaphthylene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	160 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	160 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	160 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*82.9*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	81.8	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-1 (0.5ft) SA23339-03	Suelain Realty	Soil	21-Jan-05 08:45	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	182 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	248	182 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	239	182 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	235	182 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	186	182 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	190	182 ug/kg dry	1	"	"	"	"	"	
Chrysene	261	182 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	246	182 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	182 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	182 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	182 ug/kg dry	1	"	"	"	"	"	
Pyrene	212	182 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*59.8*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*61.0*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.0	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
G-1 (1.5ft) SA23339-04	Suelain Realty	Soil	21-Jan-05 08:50	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	183 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	183 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	183 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	183 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*60.9*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*62.1*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	71.6	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H (0.5ft South Wall) SA23339-05	Suelain Realty	Soil	21-Jan-05 08:45	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	184 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	184 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	184 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	184 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*60.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*55.4*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	71.8	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H (1.5ft South Wall) SA23339-06	Suelain Realty	Soil	21-Jan-05 08:50	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	159 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	159 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	159 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	159 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*59.1*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*59.5*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	83.5	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
H-32 (1.5ft) SA23339-07	Suelain Realty	Soil	21-Jan-05 09:00	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	166 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	166 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	166 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	166 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*76.1*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*76.9*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	79.5	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K (0.5 ft South Wall) SA23339-08	Suelain Realty	Soil	21-Jan-05 09:00	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	2,160	376 ug/kg dry	2	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	376 ug/kg dry	2	"	"	"	"	"	
Anthracene	2,160	376 ug/kg dry	2	"	"	"	"	"	
Benzo (a) anthracene	14,000	376 ug/kg dry	2	"	"	"	"	"	
Benzo (a) pyrene	21,000	376 ug/kg dry	2	"	"	"	"	"	
Benzo (b) fluoranthene	16,100	376 ug/kg dry	2	"	"	"	"	"	
Benzo (g,h,i) perylene	15,100	376 ug/kg dry	2	"	"	"	"	"	
Benzo (k) fluoranthene	16,700	376 ug/kg dry	2	"	"	"	"	"	
Chrysene	14,300	376 ug/kg dry	2	"	"	"	"	"	
Dibenzo (a,h) anthracene	5,040	376 ug/kg dry	2	"	"	"	"	"	
Fluoranthene	16,800	376 ug/kg dry	2	"	"	"	"	"	
Fluorene	805	376 ug/kg dry	2	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	13,300	376 ug/kg dry	2	"	"	"	"	"	
1-Methylnaphthalene	BRL	376 ug/kg dry	2	"	"	"	"	"	
2-Methylnaphthalene	455	376 ug/kg dry	2	"	"	"	"	"	
Naphthalene	BRL	376 ug/kg dry	2	"	"	"	"	"	
Phenanthrene	6,850	376 ug/kg dry	2	"	"	"	"	"	
Pyrene	12,400	376 ug/kg dry	2	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*60.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*59.8*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	69.9	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K (1.5 ft South Wall) SA23339-09	Suelain Realty	Soil	21-Jan-05 09:05	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	180 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	180 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	180 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*62.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*59.8*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.3	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-27 (1.5ft) SA23339-10	Suelain Realty	Soil	21-Jan-05 09:10	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	176 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	268	176 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	283	176 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	236	176 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	192	176 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	241	176 ug/kg dry	1	"	"	"	"	"	
Chrysene	407	176 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	190	176 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	176 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	176 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	176 ug/kg dry	1	"	"	"	"	"	
Pyrene	181	176 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*68.5*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	75.6	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011255	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-1 (0.5ft) SA23339-11	Suelain Realty	Soil	21-Jan-05 09:00	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	2,650	810 ug/kg dry	5	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	810 ug/kg dry	5	"	"	"	"	"	
Anthracene	3,540	810 ug/kg dry	5	"	"	"	"	"	
Benzo (a) anthracene	37,400	810 ug/kg dry	5	"	"	"	"	"	
Benzo (a) pyrene	38,500	810 ug/kg dry	5	"	"	"	"	"	
Benzo (b) fluoranthene	39,900	810 ug/kg dry	5	"	"	"	"	"	
Benzo (g,h,i) perylene	23,400	810 ug/kg dry	5	"	"	"	"	"	
Benzo (k) fluoranthene	22,600	810 ug/kg dry	5	"	"	"	"	"	
Chrysene	50,600	810 ug/kg dry	5	"	"	"	"	"	
Dibenzo (a,h) anthracene	6,570	810 ug/kg dry	5	"	"	"	"	"	
Fluoranthene	33,500	810 ug/kg dry	5	"	"	"	"	"	
Fluorene	1,600	810 ug/kg dry	5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	18,400	810 ug/kg dry	5	"	"	"	"	"	
1-Methylnaphthalene	BRL	810 ug/kg dry	5	"	"	"	"	"	
2-Methylnaphthalene	1,260	810 ug/kg dry	5	"	"	"	"	"	
Naphthalene	BRL	810 ug/kg dry	5	"	"	"	"	"	
Phenanthrene	13,900	810 ug/kg dry	5	"	"	"	"	"	
Pyrene	27,700	810 ug/kg dry	5	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*57.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*61.0*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	81.8	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
K-1 (1.5ft) SA23339-12	Suelain Realty	Soil	21-Jan-05 09:05	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	173 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	173 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	173 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	837	173 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	1,040	173 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	948	173 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	680	173 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	840	173 ug/kg dry	1	"	"	"	"	"	
Chrysene	989	173 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	192	173 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	989	173 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	173 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	552	173 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	173 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	173 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	173 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	244	173 ug/kg dry	1	"	"	"	"	"	
Pyrene	808	173 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.8*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*69.2*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	76.6	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
L-28 (1.5ft) SA23339-13	Suelain Realty	Soil	21-Jan-05 09:10	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	158 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	158 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	158 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	158 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*51.7*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*51.2*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	84.2	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
N (0.5 ft South Wall) SA23339-14	Suelain Realty	Soil	21-Jan-05 09:10	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	208 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	208 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	208 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	941	208 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	1,140	208 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	1,050	208 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	835	208 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	914	208 ug/kg dry	1	"	"	"	"	"	
Chrysene	1,060	208 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	231	208 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	1,330	208 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	208 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	670	208 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	208 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	208 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	208 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	429	208 ug/kg dry	1	"	"	"	"	"	
Pyrene	1,050	208 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*60.1*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*61.0*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	63.1	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
N (1.5ft South Wall) SA23339-15	Suelain Realty	Soil	21-Jan-05 09:15	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	156 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	156 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	156 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*52.1*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*52.1*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	84.8	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
N-12 (0.5ft) SA23339-16	Suelain Realty	Soil	21-Jan-05 09:20	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	156 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	489	156 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	637	156 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	604	156 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	480	156 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	480	156 ug/kg dry	1	"	"	"	"	"	
Chrysene	601	156 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	672	156 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	378	156 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	156 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	156 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	245	156 ug/kg dry	1	"	"	"	"	"	
Pyrene	540	156 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*34.3*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*35.7*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	83.9	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
N-12 (1.5ft) SA23339-17	Suelain Realty	Soil	21-Jan-05 09:25	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	152 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	152 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	152 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	152 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*36.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*38.2*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	86.7	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O (0.5ft South Wall) SA23339-18	Suelain Realty	Soil	21-Jan-05 09:20	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	153 ug/kg dry	1	SW846 8270C	31-Jan-05	04-Feb-05	5011466	M.B	
Acenaphthylene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	153 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	153 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	153 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*53.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*63.9*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	86.4	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O (1.5ft South Wall) SA23339-19	Suelain Realty	Soil	21-Jan-05 09:25	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	168 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	168 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	168 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	168 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*42.4*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*43.6*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	78.3	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

This laboratory report is not valid without an authorized signature on the cover page.

*Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-13 (1.5ft) SA23339-20	Suelain Realty	Soil	21-Jan-05 09:20	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3545A					
Acenaphthene	BRL	167 ug/kg dry	1	SW846 8270C	31-Jan-05	02-Feb-05	5011466	M.B	
Acenaphthylene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	167 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	167 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	167 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*31.3*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*32.3*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	79.6	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-1 (0.5ft) SA23339-21	Suelain Realty	Soil	21-Jan-05 09:30	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	BRL	203 ug/kg dry	1	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Chrysene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	BRL	203 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	203 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Pyrene	BRL	203 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*73.9*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-d14	*74.9*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	62.9	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-1 (1.5ft) SA23339-22	Suelain Realty	Soil	21-Jan-05 09:35	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	BRL	145 ug/kg dry	1	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	362	145 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	475	145 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	392	145 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	347	145 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	412	145 ug/kg dry	1	"	"	"	"	"	
Chrysene	441	145 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	443	145 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	288	145 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	145 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	145 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	216	145 ug/kg dry	1	"	"	"	"	"	
Pyrene	341	145 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*63.5*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*66.8*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	77.8	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-9 (0.5ft) SA23339-23	Suelain Realty	Soil	21-Jan-05 09:30	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	1,120	961 ug/kg dry	5	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	961 ug/kg dry	5	"	"	"	"	"	
Anthracene	2,240	961 ug/kg dry	5	"	"	"	"	"	
Benzo (a) anthracene	27,200	961 ug/kg dry	5	"	"	"	"	"	
Benzo (a) pyrene	34,800	961 ug/kg dry	5	"	"	"	"	"	
Benzo (b) fluoranthene	34,800	961 ug/kg dry	5	"	"	"	"	"	
Benzo (g,h,i) perylene	24,100	961 ug/kg dry	5	"	"	"	"	"	
Benzo (k) fluoranthene	25,100	961 ug/kg dry	5	"	"	"	"	"	
Chrysene	30,900	961 ug/kg dry	5	"	"	"	"	"	
Dibenzo (a,h) anthracene	7,070	961 ug/kg dry	5	"	"	"	"	"	
Fluoranthene	36,900	961 ug/kg dry	5	"	"	"	"	"	
Fluorene	BRL	961 ug/kg dry	5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	20,300	961 ug/kg dry	5	"	"	"	"	"	
1-Methylnaphthalene	BRL	961 ug/kg dry	5	"	"	"	"	"	
2-Methylnaphthalene	BRL	961 ug/kg dry	5	"	"	"	"	"	
Naphthalene	BRL	961 ug/kg dry	5	"	"	"	"	"	
Phenanthrene	9,730	961 ug/kg dry	5	"	"	"	"	"	
Pyrene	28,500	961 ug/kg dry	5	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*79.6*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*90.9*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	64.3	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-9 (1.5ft) SA23339-24	Suelain Realty	Soil	21-Jan-05 09:35	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	2,150	762 ug/kg dry	5	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	762 ug/kg dry	5	"	"	"	"	"	
Anthracene	3,960	762 ug/kg dry	5	"	"	"	"	"	
Benzo (a) anthracene	34,600	762 ug/kg dry	5	"	"	"	"	"	
Benzo (a) pyrene	47,000	762 ug/kg dry	5	"	"	"	"	"	
Benzo (b) fluoranthene	40,000	762 ug/kg dry	5	"	"	"	"	"	
Benzo (g,h,i) perylene	32,600	762 ug/kg dry	5	"	"	"	"	"	
Benzo (k) fluoranthene	38,100	762 ug/kg dry	5	"	"	"	"	"	
Chrysene	38,800	762 ug/kg dry	5	"	"	"	"	"	
Dibenzo (a,h) anthracene	10,200	762 ug/kg dry	5	"	"	"	"	"	
Fluoranthene	48,700	762 ug/kg dry	5	"	"	"	"	"	
Fluorene	930	762 ug/kg dry	5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	28,400	762 ug/kg dry	5	"	"	"	"	"	
1-Methylnaphthalene	BRL	762 ug/kg dry	5	"	"	"	"	"	
2-Methylnaphthalene	BRL	762 ug/kg dry	5	"	"	"	"	"	
Naphthalene	BRL	762 ug/kg dry	5	"	"	"	"	"	
Phenanthrene	14,200	762 ug/kg dry	5	"	"	"	"	"	
Pyrene	37,400	762 ug/kg dry	5	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.2*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*88.2*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	81.4	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-11 (1.5ft) SA23339-25	Suelain Realty	Soil	21-Jan-05 09:40	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	1,810	268 ug/kg dry	2	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	268 ug/kg dry	2	"	"	"	"	"	
Anthracene	4,380	268 ug/kg dry	2	"	"	"	"	"	
Benzo (a) anthracene	25,300	268 ug/kg dry	2	"	"	"	"	"	
Benzo (a) pyrene	31,500	268 ug/kg dry	2	"	"	"	"	"	
Benzo (b) fluoranthene	32,100	268 ug/kg dry	2	"	"	"	"	"	
Benzo (g,h,i) perylene	23,400	268 ug/kg dry	2	"	"	"	"	"	
Benzo (k) fluoranthene	20,700	268 ug/kg dry	2	"	"	"	"	"	
Chrysene	26,500	268 ug/kg dry	2	"	"	"	"	"	
Dibenzo (a,h) anthracene	6,490	268 ug/kg dry	2	"	"	"	"	"	
Fluoranthene	43,700	268 ug/kg dry	2	"	"	"	"	"	
Fluorene	815	268 ug/kg dry	2	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	18,800	268 ug/kg dry	2	"	"	"	"	"	
1-Methylnaphthalene	BRL	268 ug/kg dry	2	"	"	"	"	"	
2-Methylnaphthalene	BRL	268 ug/kg dry	2	"	"	"	"	"	
Naphthalene	BRL	268 ug/kg dry	2	"	"	"	"	"	
Phenanthrene	16,800	268 ug/kg dry	2	"	"	"	"	"	
Pyrene	29,800	268 ug/kg dry	2	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*89.0*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*80.8*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	84.2	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-16 (0.5ft) SA23339-26	Suelain Realty	Soil	21-Jan-05 09:40	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	2,570	840 ug/kg dry	5	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	840 ug/kg dry	5	"	"	"	"	"	
Anthracene	3,750	840 ug/kg dry	5	"	"	"	"	"	
Benzo (a) anthracene	39,400	840 ug/kg dry	5	"	"	"	"	"	
Benzo (a) pyrene	55,400	840 ug/kg dry	5	"	"	"	"	"	
Benzo (b) fluoranthene	50,000	840 ug/kg dry	5	"	"	"	"	"	
Benzo (g,h,i) perylene	38,900	840 ug/kg dry	5	"	"	"	"	"	
Benzo (k) fluoranthene	44,800	840 ug/kg dry	5	"	"	"	"	"	
Chrysene	47,300	840 ug/kg dry	5	"	"	"	"	"	
Dibenzo (a,h) anthracene	11,700	840 ug/kg dry	5	"	"	"	"	"	
Fluoranthene	52,100	840 ug/kg dry	5	"	"	"	"	"	
Fluorene	1,060	840 ug/kg dry	5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	34,000	840 ug/kg dry	5	"	"	"	"	"	
1-Methylnaphthalene	BRL	840 ug/kg dry	5	"	"	"	"	"	
2-Methylnaphthalene	BRL	840 ug/kg dry	5	"	"	"	"	"	
Naphthalene	BRL	840 ug/kg dry	5	"	"	"	"	"	
Phenanthrene	13,200	840 ug/kg dry	5	"	"	"	"	"	
Pyrene	40,100	840 ug/kg dry	5	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.9*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*75.4*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	72.4	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
O-16 (1.5ft) SA23339-27	Suelain Realty	Soil	21-Jan-05 09:45	25-Jan-05

Analyte(s)	*Result*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*	*Flag*
Semivolatile Organic Compounds by GCMS									
PAHs by SW846 8270C				Prepared by method SW846 3550B					
Acenaphthene	BRL	137 ug/kg dry	1	SW846 8270C	02-Feb-05	03-Feb-05	5020085	M.B	
Acenaphthylene	BRL	137 ug/kg dry	1	"	"	"	"	"	
Anthracene	BRL	137 ug/kg dry	1	"	"	"	"	"	
Benzo (a) anthracene	1,190	137 ug/kg dry	1	"	"	"	"	"	
Benzo (a) pyrene	1,580	137 ug/kg dry	1	"	"	"	"	"	
Benzo (b) fluoranthene	1,250	137 ug/kg dry	1	"	"	"	"	"	
Benzo (g,h,i) perylene	1,160	137 ug/kg dry	1	"	"	"	"	"	
Benzo (k) fluoranthene	1,330	137 ug/kg dry	1	"	"	"	"	"	
Chrysene	1,410	137 ug/kg dry	1	"	"	"	"	"	
Dibenzo (a,h) anthracene	344	137 ug/kg dry	1	"	"	"	"	"	
Fluoranthene	1,810	137 ug/kg dry	1	"	"	"	"	"	
Fluorene	BRL	137 ug/kg dry	1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	952	137 ug/kg dry	1	"	"	"	"	"	
1-Methylnaphthalene	BRL	137 ug/kg dry	1	"	"	"	"	"	
2-Methylnaphthalene	BRL	137 ug/kg dry	1	"	"	"	"	"	
Naphthalene	BRL	137 ug/kg dry	1	"	"	"	"	"	
Phenanthrene	553	137 ug/kg dry	1	"	"	"	"	"	
Pyrene	1,230	137 ug/kg dry	1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.2*	*30-130 %*		"	"	"	"	"	
Surrogate: Terphenyl-dl4	*65.3*	*30-130 %*		"	"	"	"	"	
General Chemistry Parameters									
% Solids	83.2	%	1	SM2540 G Mod.	26-Jan-05	27-Jan-05	5011256	LN	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5011466 - SW846 3545A										
Blank (5011466-BLK1)				Prepared: 31-Jan-05 Analyzed: 01-Feb-05						
Acenaphthene	BRL	33.3	ug/kg wet							
Acenaphthylene	BRL	33.3	ug/kg wet							
Anthracene	BRL	33.3	ug/kg wet							
Benzo (a) anthracene	BRL	33.3	ug/kg wet							
Benzo (a) pyrene	BRL	33.3	ug/kg wet							
Benzo (b) fluoranthene	BRL	33.3	ug/kg wet							
Benzo (g,h,i) perylene	BRL	33.3	ug/kg wet							
Benzo (k) fluoranthene	BRL	33.3	ug/kg wet							
Chrysene	BRL	33.3	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	33.3	ug/kg wet							
Fluoranthene	BRL	33.3	ug/kg wet							
Fluorene	BRL	33.3	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	33.3	ug/kg wet							
1-Methylnaphthalene	BRL	33.3	ug/kg wet							
2-Methylnaphthalene	BRL	33.3	ug/kg wet							
Naphthalene	BRL	33.3	ug/kg wet							
Phenanthrene	BRL	33.3	ug/kg wet							
Pyrene	BRL	33.3	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*2170*		ug/kg wet	*3330*		*65.2*	*30-130*			
Surrogate: Terphenyl-dl4	*2480*		ug/kg wet	*3330*		*74.5*	*30-130*			
Duplicate (5011466-DUP1)		Source: SA23339-02		Prepared: 31-Jan-05 Analyzed: 02-Feb-05						
Acenaphthene	BRL	161	ug/kg dry		BRL				50	
Acenaphthylene	BRL	161	ug/kg dry		BRL				50	
Anthracene	BRL	161	ug/kg dry		BRL				50	
Benzo (a) anthracene	BRL	161	ug/kg dry		BRL				50	
Benzo (a) pyrene	BRL	161	ug/kg dry		BRL				50	
Benzo (b) fluoranthene	BRL	161	ug/kg dry		BRL				50	
Benzo (g,h,i) perylene	BRL	161	ug/kg dry		BRL				50	
Benzo (k) fluoranthene	BRL	161	ug/kg dry		BRL				50	
Chrysene	BRL	161	ug/kg dry		BRL				50	
Dibenzo (a,h) anthracene	BRL	161	ug/kg dry		BRL				50	
Fluoranthene	BRL	161	ug/kg dry		BRL				50	
Fluorene	BRL	161	ug/kg dry		BRL				50	
Indeno (1,2,3-cd) pyrene	BRL	161	ug/kg dry		BRL				50	
1-Methylnaphthalene	BRL	161	ug/kg dry		BRL				50	
2-Methylnaphthalene	BRL	161	ug/kg dry		BRL				50	
Naphthalene	BRL	161	ug/kg dry		BRL				50	
Phenanthrene	BRL	161	ug/kg dry		BRL				50	
Pyrene	BRL	161	ug/kg dry		BRL				50	
Surrogate: 2-Fluorobiphenyl	*4690*		ug/kg dry	*8080*		*58.0*	*30-130*			
Surrogate: Terphenyl-dl4	*5390*		ug/kg dry	*8080*		*66.7*	*30-130*			
Matrix Spike (5011466-MS1)		Source: SA23339-02		Prepared: 31-Jan-05 Analyzed: 02-Feb-05						
Acenaphthene	4930	81.0	ug/kg dry	8100	BRL	60.9	40-140			
Pyrene	4510	81.0	ug/kg dry	8100	BRL	55.7	40-140			
Surrogate: 2-Fluorobiphenyl	*4970*		ug/kg dry	*8100*		*61.4*	*30-130*			
Surrogate: Terphenyl-dl4	*4720*		ug/kg dry	*8100*		*58.3*	*30-130*			
Matrix Spike Dup (5011466-MSD1)		Source: SA23339-02		Prepared: 31-Jan-05 Analyzed: 02-Feb-05						
Acenaphthene	5130	80.9	ug/kg dry	8090	BRL	63.4	40-140	4.02	30	
Pyrene	4850	80.9	ug/kg dry	8090	BRL	60.0	40-140	7.43	30	
Surrogate: 2-Fluorobiphenyl	*5040*		ug/kg dry	*8090*		*62.3*	*30-130*			
Surrogate: Terphenyl-dl4	*4870*		ug/kg dry	*8090*		*60.2*	*30-130*			
Batch 5020085 - SW846 3550B										

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5020085 - SW846 3550B										
Blank (5020085-BLK1)				Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Acenaphthene	BRL	50.0	ug/kg wet							
Acenaphthylene	BRL	50.0	ug/kg wet							
Anthracene	BRL	50.0	ug/kg wet							
Benzo (a) anthracene	BRL	50.0	ug/kg wet							
Benzo (a) pyrene	BRL	50.0	ug/kg wet							
Benzo (b) fluoranthene	BRL	50.0	ug/kg wet							
Benzo (g,h,i) perylene	BRL	50.0	ug/kg wet							
Benzo (k) fluoranthene	BRL	50.0	ug/kg wet							
Chrysene	BRL	50.0	ug/kg wet							
Dibenzo (a,h) anthracene	BRL	50.0	ug/kg wet							
Fluoranthene	BRL	50.0	ug/kg wet							
Fluorene	BRL	50.0	ug/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	50.0	ug/kg wet							
1-Methylnaphthalene	BRL	50.0	ug/kg wet							
2-Methylnaphthalene	BRL	50.0	ug/kg wet							
Naphthalene	BRL	50.0	ug/kg wet							
Phenanthrene	BRL	50.0	ug/kg wet							
Pyrene	BRL	50.0	ug/kg wet							
Surrogate: 2-Fluorobiphenyl	*3690*		ug/kg wet	*5000*		*73.8*	*30-130*			
Surrogate: Terphenyl-dl4	*3670*		ug/kg wet	*5000*		*73.4*	*30-130*			
Duplicate (5020085-DUP1)			Source: SA23339-25	Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Acenaphthene	440	268	ug/kg dry		1810			122	50	QM-04
Acenaphthylene	BRL	268	ug/kg dry		BRL				50	
Anthracene	1490	268	ug/kg dry		4380			98.5	50	QM-04
Benzo (a) anthracene	8950	268	ug/kg dry		25300			95.5	50	QM-04
Benzo (a) pyrene	10800	268	ug/kg dry		31500			97.9	50	QM-04
Benzo (b) fluoranthene	10100	268	ug/kg dry		32100			104	50	QM-04
Benzo (g,h,i) perylene	7720	268	ug/kg dry		23400			101	50	QM-04
Benzo (k) fluoranthene	8290	268	ug/kg dry		20700			85.6	50	QM-04
Chrysene	9530	268	ug/kg dry		26500			94.2	50	QM-04
Dibenzo (a,h) anthracene	2260	268	ug/kg dry		6490			96.7	50	QM-04
Fluoranthene	14400	268	ug/kg dry		43700			101	50	QM-04
Fluorene	287	268	ug/kg dry		815			95.8	50	QM-04
Indeno (1,2,3-cd) pyrene	6270	268	ug/kg dry		18800			100	50	QM-04
1-Methylnaphthalene	BRL	268	ug/kg dry		145				50	
2-Methylnaphthalene	BRL	268	ug/kg dry		182				50	
Naphthalene	BRL	268	ug/kg dry		BRL				50	
Phenanthrene	5400	268	ug/kg dry		16800			103	50	QM-04
Pyrene	10400	268	ug/kg dry		29800			96.5	50	QM-04
Surrogate: 2-Fluorobiphenyl	*5640*		ug/kg dry	*6710*		*84.1*	*30-130*			
Surrogate: Terphenyl-dl4	*5290*		ug/kg dry	*6710*		*78.8*	*30-130*			
Matrix Spike (5020085-MS1)			Source: SA23339-25	Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Acenaphthene	5820	134	ug/kg dry	6710	1810	59.8	40-140			
Pyrene	11900	134	ug/kg dry	6710	29800	NR	40-140			QM-07
Surrogate: 2-Fluorobiphenyl	*5100*		ug/kg dry	*6710*		*76.0*	*30-130*			
Surrogate: Terphenyl-dl4	*4860*		ug/kg dry	*6710*		*72.4*	*30-130*			
Matrix Spike Dup (5020085-MSD1)			Source: SA23339-25	Prepared: 02-Feb-05 Analyzed: 03-Feb-05						
Acenaphthene	5500	134	ug/kg dry	6710	1810	55.0	40-140	8.36	30	
Pyrene	11400	134	ug/kg dry	6710	29800	NR	40-140	2.59	30	QM-07
Surrogate: 2-Fluorobiphenyl	*5050*		ug/kg dry	*6710*		*75.3*	*30-130*			
Surrogate: Terphenyl-dl4	*4880*		ug/kg dry	*6710*		*72.7*	*30-130*			

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5011255 - General Preparation										
Duplicate (5011255-DUP1)		**Source: SA23339-10**		Prepared: 26-Jan-05 Analyzed: 27-Jan-05						
% Solids	75.6		%		75.6			0.00	20	
Batch 5011256 - General Preparation										
Duplicate (5011256-DUP1)		**Source: SA23339-27**		Prepared: 26-Jan-05 Analyzed: 27-Jan-05						
% Solids	82.3		%		83.2			1.09	20	

Notes and Definitions

QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

SA23339 (M) (P)

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: GES
25 JON BARRETT RD
PATTERSON, NY 12563

Project Mgr.: M. DEGLORIA

Invoice To: SAME
WO#5001557 (SP)

P.O. No.: _____ RQN: 5093

Project No.: SULLIVAN REALTY
Site Name: GRANITE POINTE DEVELOPMENT
Location: SOMERS State: NY
Sampler(s): DEGLORIA/BUCK/BRADLEY

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8270-PAHs	Analyses:	Notes:
SA23339-01	E (0.5 FT SOUTH WALL)	01-21-05	0845	G	SO			1	1		X		
-02	E (1.5 FT SOUTH WALL)		0850	G	SO								
-03	G-1 (0.5 FT)		0845										
-04	G-1 (1.5 FT)		0850										
-05	H (0.5 FT SOUTH WALL)		0845										
-06	H (1.5 FT SOUTH WALL)		0850										
-07	H-32 (1.5 FT)		0900										
-08	K (0.5 FT SOUTH WALL)		0900										
-09	K (1.5 FT SOUTH WALL)		0905										
-10	L-27 (1.5 FT)		0910										

☐ Fax results when available to (____) _____

☐ E-mail results when available to mdegloria@gesonline.com

Condition upon Receipt: ☒ Iced ☐ Ambient ☐ 3 °C

Relinquished by:	Received by:	Date:	Time:
[signature]	GES Fridge	01-21-05	1530
[signature]	[signature]	1/25/05	1045

SA23339

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:
☑ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: See p1

Invoice To: See p1

Project No.:
Site Name: See p. 1
Location: State:
Sampler(s):

Project Mgr.:
P.O. No.: RQN: 5093

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8270-PAHs	Analyses:								Notes:
SA23339-11	K-1 (0.5 FT)	01-21-05	0900	G	SO			1	1		X									
-12	K-1 (1.5 FT)		0905																	
-13	L-28 (1.5 FT)		0910																	
-14	N (0.5 FT SOUTH WALL)		0910																	
-15	N (1.5 FT SOUTH WALL)		0915																	
-16	N-12 (0.5 FT)		0920																	
-17	N-12 (1.5 FT)		0925																	
-18	O (0.5 FT SOUTH WALL)		0920																	
-19	O (1.5 FT SOUTH WALL)		0925																	
-20	O-13 (1.5 FT)		0920																	

Relinquished by:	Received by:	Date:	Time:
[signature]	GCS Fridge	01.21.05	1530
FedEx	[signature]	1/25/05	1045

☐ Fax results when available to (____) _____
☐ E-mail results when available to _____
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 3°C

SA03339

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:
☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: See p 1

Project Mgr.: _____

Invoice To: See p 1

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: See p-1
Location: _____ State: _____
Sampler(s): _____

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	~~8270 PAHs~~	8270 PAHs								Notes:
SA03339-21	0-1 (0.5')	01-21-05	0930	G	SO			1	1			X								
-22	0-1 (1.5')		0935																	
-23	0-9 (0.5')		0930																	
-24	0-9 (1.5')		0935																	
-25	0-11 (0.5')		0940																	
-26	0-16 (0.5')		0940																	
-27	0-16 (1.5')		0945																	

Relinquished by:	Received by:	Date:	Time:
Hanibal Tech	GGS Fridge	01-21-05	1530
FedX	U Knowles	1/25/05	1045

☐ Fax results when available to (_____) _____
☐ E-mail results when available to _____
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 3 °C

FIGURES

APPENDIX C

Remedial Action Plan
Proposed Granite Pointe Subdivision
Tomahawk Street (Route 202)
Somers, New York

TABLE OF CONTENTS

1 INTRODUCTION 1
1.1 SURROUNDING PROPERTY USES 2
1.2 HISTORICAL USE OF SUBJECT PROPERTY 2
1.3 PROPOSED USE OF SUBJECT PROPERTY 3
1.4 SUMMARY OF PREVIOUS FIELD ACTIVITIES 3
1.4.1 December 2003 Field Activities 3
1.4.2 January and February 2004 Field Activities 3
1.4.3 December 2004, January and February 2005 Field Activities 4
1.4.3.1 Detail Area 1 4
1.4.3.2 Detail Area 2 4
1.4.3.3 Cut and Fill Area 5
1.5 SITE CONCEPTUAL MODEL 5
2 REMEDIAL ACTION 6
2.1 REMEDIAL ACTION RECORD OF DECISION 6
2.2 REMEDIAL ACTION OBJECTIVES AND GOALS 7
2.3 APPLICABLE REGULATORY GUIDANCE VALUES 7
2.4 REMEDIAL ACTION IMPLEMENTATION 8
2.5 PHASE I ACTIVITIES: MOBILIZATION, SITE PREPARATION, AND WORK ACTIVITY PROCEDURES (PRE-EXCAVATION) 8
2.5.1 Removal of Trees and Stumps 8
2.5.2 Access to Excavated Area 9
2.5.3 Work Zone Setup 9
2.5.4 Decontamination (Personnel and Equipment) 9
2.5.4.1 Personnel Decontamination 9
2.5.4.2 Vehicle Decontamination 10
2.5.4.3 Sampling Equipment Decontamination 10
2.5.5 Dust Suppression 10
2.5.6 Erosion Sediment Control 10
2.5.7 Investigation Derived Waste (IDW) and Waste Minimization 10
2.5.8 Health and Safety Considerations 11
2.5.8.1 Air Monitoring Program 11
2.5.8.2 Personal Protective Equipment 12
2.5.9 Confirmatory Soil Sampling Procedures 12
2.5.9.1 Sample Documentation, Labeling, Custody, and Control 12
2.5.9.2 Quality Assurance / Quality Control 13
2.5.10 Avoidance of Future Septic Areas 13
2.6 PHASE II: EXCAVATION ACTIVITIES - ELEVATED TCLP LEAD CONCENTRATIONS 13
2.6.1 Material Handling and Transportation 13
2.6.2 Waste Disposal for Elevated TCLP Lead Concentration Excavated Soil 13
2.6.2.1 Waste Characterization Sampling 13
2.6.3 Cleanup Confirmatory Sampling 14
2.6.4 Verify Attainment of Cleanup Standards 14
2.7 PHASE III: EXCAVATION ACTIVITIES - NON-ELEVATED TCLP LEAD CONCENTRATIONS 14
2.7.1 Material Handling and Transportation 14
2.7.2 Waste Disposal for Non-Elevated TCLP Lead Excavated Soil 14

2.7.2.1 Waste Characterization Sampling *15*
2.7.3 Cleanup Confirmatory Sampling *15*
2.7.4 Verify Attainment of Cleanup Standards *15*
2.8 PHASE IV: SITE DEMOBILIZATION AND RESTORATION *15*
3 REPORTING RESULTS *15*

FIGURES

Figure 1 Site Map
Figure 2 Proposed Soil Excavation Map
Figure 3 Proposed Work Site Setup Map

1 Introduction

The proposed Granite Pointe Subdivision ("subject property") is a 28-acre parcel of undeveloped, mostly wooded land located on Tomahawk Street in Somers, New York (refer to **Figure 1** of this report). During December 2003 through February 2004, Groundwater & Environmental Services, Inc. (GES) completed subsurface investigations on behalf of Suelain Realty at the subject property that included drilling soil borings and the collection of soil and groundwater samples. The subsurface investigation work was summarized in the GES documents entitled *Environmental Site Assessment Report* dated December 19, 2003 and the *Supplemental Environmental Site Assessment Report* dated March 5, 2004.

Based on investigation results, the Town of Somers Planning Board rescinded final approval of the Granite Pointe Subdivision and required submission of a Supplemental Environmental Impact Statement (SEIS). The "Work Plan for Assessment and Remediation of Subsurface Impact at Proposed Granite Pointe Subdivision" ("Work Plan") was prepared by GES to provide a step-wise approach to additional assessment activities necessary to help fulfill the requirements of the SEIS. GES, on behalf of Suelain Realty, submitted the Work Plan to complete the SEIS for the Town of Somers Planning Board. The Town of Somers then prepared a document entitled, "Final Scope for Preparation of a Supplemental Environmental Impact Statement for the Granite Pointe Subdivision, Town of Somers, New York, dated October 15, 2004." The scoping document outlines the information necessary to fulfill the requirements of the SEIS. Refer to **Appendix A** for Final Scope and Work Plan documents. In accordance with the State Environmental Quality Review (SEQR) Act, remedial activities proposed in this *Remedial Action Plan* are related to information regarding past use of the subject property as a part-time recreational trap shooting range.

Additional soil sampling was conducted on the subject property by GES during December 2004 through February 2005, which included the collection of soil samples from 0.5 to a maximum of 4 feet below grade. Samples were collected in a grid framework area within the anticipated shot-fall area of the former recreational trap and target shooting range. Soil samples were selectively analyzed for total lead, Toxicity Characteristic Leaching Procedure (TCLP) metals (lead, arsenic, and barium), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and Resource Conservation and Recovery Act (RCRA) metals. This subsurface investigation work was summarized in the GES document entitled *Supplemental Environmental Site Assessment, Proposed Granite Pointe Subdivision, May 2005* (**Appendix B**).

Results of the three subsurface investigations identified lead and SVOCs as contaminants of concern for the subject property. In portions of the subject property, lead was detected at concentrations above the United States Environmental Protection Agency (USEPA) action level for lead in a residential setting which is 400 milligrams per kilogram (mg/kg). In other portions of the subject property, TCLP lead was detected in soil samples collected at concentrations above the TCLP lead threshold of 5 mg/L. In some soil samples collected, SVOCs were detected at concentrations above New York State Department of Environmental Conservation (NYSDEC) Technical Administrative

Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives (RSCO). Following a risk-based evaluation of the soil impacts in portions of the subject property and based on the anticipated future use for the subject property, Suelain Realty and GES have proposed a remedial action consisting of soil excavation and off-site disposal. This remedial action will remove the identified shallow soil impacts (0 to 4 fbg) that are above applicable guidance values. Additionally, possible reuse of some of the lead impacted soils (above 400 mg/kg but below the TCLP lead threshold of 5 mg/L) will be considered and NYSDEC approvals will be required. Reuse of the soils would be located in inaccessible areas under the proposed road for the new development. This remedial action is the subject of this document and a plan to excavate the soil is outlined within.

1.1 Surrounding Property Uses

The subject property is a 28-parcel of undeveloped, mostly wooded land that is bordered on the west by Tomahawk Street (Route 202) and on the east by the New York City Department of Environmental Protection (NYCDEP) Amawalk Reservoir. The subject property is bordered to the north and south by residential properties. Immediately to the west of the subject site is a former gasoline retail facility owned by Rex Realty of Connecticut, Inc. (Rex Oil). This property operated as a petroleum retail site from approximately 1967, when it was purchased by Rex Oil, until 1988 when the gasoline underground storage tanks (USTs) were removed. NYSDEC Spill # 89-11019 is an active spill number associated with the Rex Oil property. The Rex Oil property currently operates as an auto repair facility.

1.2 Historical Use of Subject Property

The abandoned remains of several residential and commercial buildings are located on the currently undeveloped parcel. These buildings reportedly included a restaurant, which no longer exists but was located in the central portion of the site, several dwellings, and some storage buildings. The approximate locations of abandoned remains of the structures formerly located on the property are indicated on the Site Map provided as **Figure 1** of this report. According to several eye-witnesses who worked at the restaurant and/or participated in recreational activities at the site, trap shooting and target shooting was conducted on portions of the subject property between approximately 1938 and 1968. Shooting activities were not open to the public and only took place on weekends in the spring, summer, and fall. One of the eye-witness accounts stated that the Boy Scouts utilized the shooting range one time for turkey shooting.

The trap and target shooting operation was oriented so the shooting reportedly took place in a northeasterly direction, toward the Amawalk Reservoir. The anticipated shot-fall zone is illustrated on **Figure 2** of **Appendix B**. Additional information was provide during interviews with persons associated with the former shooting activities at this site and guidance documents related to assessment at closed small arms firing ranges. The distance from the firing line to the property boundary is approximately 475 feet. According to the *Characterization of Remediation of Soils at Closed Arms Firing Ranges* prepared by the Interstate Technology and Regulatory Council (ITRC), the shot-fall the size of the shot-fall area would be no more than 770 feet from the shooting position, with the majority of the lead being deposited at a distance between 375 and 600 feet from the

shooter. It is unknown whether the anticipated shot fall area extends on the NYCDEP property due to our investigations being limited to the subject property. Copies of eyewitness accounts are attached in **Appendix B (Sub Appendix A)**. The amount of sportsmen that utilized the subject property for trap or target shooting is unknown.

1.3 Proposed Use of Subject Property

Suelain Realty is the owner of the 28.8 acres of property on Tomahawk Street in the Town of Somers known as tax lots Section 27.05 Block 3, Lots 2 and 5. The owners of the property plan to develop 23 residential lots.

1.4 Summary of Previous Field Activities

The Planning Board for the Town of Somers, New York had requested that a subsurface environmental assessment of the subject property be conducted. Below is a summary of the various field activities that have been conducted on the subject property.

1.4.1 December 2003 Field Activities

GES completed an environmental site investigation that included the advancement of twelve soil borings and the collection of soil and groundwater samples for laboratory analysis, during December of 2003. The locations of soil borings, as part of the December 2003 investigation, are illustrated on **Figure 2** of **Appendix B**. Laboratory analysis of soil samples collected during this investigation indicated total lead concentrations in soil samples ranging from below the minimum laboratory detection limit to 73.1 milligrams per kilogram (mg/kg). Refer to the *Environmental Site Assessment Report* dated December 19, 2003 for more details of this investigation.

1.4.2 January and February 2004 Field Activities

At the request of the Town of Somers Planning Board, additional site assessment activities were completed in January and February 2004. As part of the supplemental site assessment activities, soil samples were collected from 48 additional locations across the site. These sampling locations are identified as S-1 through S-48 and are illustrated on **Figure 2** of **Appendix B**. The majority of the additional sampling points were located within the area of expected shot fall. The shot fall area was identified following interviews with persons associated with the former trap shooting activities at this site in addition to guidance documents related to assessments at closed small arms firing ranges. Laboratory analysis of soil samples collected during the January and February 2004 assessment activities indicated the presence of elevated lead concentrations in site soils in the area of the former trap shooting range. Lead concentrations in soil samples detected during this portion of the investigation ranged from below laboratory detection limits in a sample collected from the northern extent of the area identified for further investigation (S-12) to 10,800 mg/kg in a sample collected approximately 15 feet from the stone wall that borders the eastern property boundary (S-40). Refer to the *Supplemental Environmental Site Assessment Report* dated March 5, 2004 for more details of this investigation.

1.4.3 December 2004, January and February 2005 Field Activities

GES personnel collected soil samples from a gridded area in Detail Area 1 (portions of Lots 10, 11, 12, and 13), Detail Area 2 (southwest portion of subject property), and the cut and fill area during December 2004 through February 2005. Soil samples collected from Detail Areas 1 & 2 were screened using an X-Ray Fluorescence (XRF) machine and then select samples were submitted to the laboratory for analysis. A summary of these field activities are summarized below. Refer to the *Supplemental Environmental Site Assessment Report*, dated April 29, 2005 (**Appendix B**) for more details regarding field activities.

1.4.3.1 Detail Area 1

The Detail Area 1 sampling results indicated a wide range of primarily lead-impacts present within the top 1.5 feet of soil as a result of the historical land use. As indicated on **Figure 5** of **Appendix B**, the horizontal limits of lead impact extends from the cut and fill area located on the western portion of the sampling grid, across to the stone wall separating the site from the NYCDEP property. The area of impact widens to a maximum width of approximately 540 feet along the eastern property boundary. The laboratory data clearly defined a downward trend of total and TCLP lead concentrations from 0.5 to 1.5 fbg. Soil samples collected from 2.5 fbg and below did not exceed 400 mg/kg of lead except one sample (A-12, 3.5 fbg) along the back wall of the subject property. The lead concentration from A-12 at 4.0 fbg decreased significantly to less than 100 mg/kg. The results of the vertical delineation are presented on **Table 5** and illustrated in planar view on **Figures 5, 6, 9, and 10** of **Appendix B.** Cross sections were also developed to illustrate the vertical delineation lead impacts in this area on **Figures 12, 13, 14, 15,** and **16** of **Appendix B**.

Select soil samples from 0.5 and 1.5 fbg were analyzed for TCLP lead. Soil sample results for TCLP lead from both 0.5 and 1.5 fbg identified locations with concentrations above 5 mg/l. Refer to **Table 6** of **Appendix B**.

SVOCs were detected at concentrations above the NYSDEC TAGM 4046 guidance values along the southwestern portion of the grid. These soil samples were collected from grade to approximately 1.5 fbg. The source of these SVOCs may be attributed to historical dumping in the cut and fill area. GES contacted the NYSDEC Spills hotline upon reviewing the SVOC results and Spill Number 04-11922 was assigned to the site.

1.4.3.2 Detail Area 2

The Detail Area 2 sampling results indicate the presence of low level lead and SVOC concentrations in one sample located in this portion of the subject property. SVOC concentrations in two soil samples were detected at concentrations above NYSDEC TAGM 4046 guidance values (refer to **Table 9** of **Appendix B**). The horizontal and vertical delineation of impact were adequately defined. The impact can most likely be attributed to the parking of vehicles in this area on the subject property and/or the proximity of this location to the road.

1.4.3.3 Cut and Fill Area

On December 2, 2004, GES personnel supervised the drilling of 10 soil borings (GP-1 through GP-10), illustrated on **Figure 3** of **Appendix B**, using a truck-mounted Geoprobe®. Soil samples collected during the investigation of the cut and fill area indicate that the native soil horizon has not been impacted from the historical land use. The depth of the fill material varied across this area and ranged from 17 fbg in the southeast corner (GP-8) and thinned toward the north-northwest. Fill material was not observed in soil boring locations GP-6, GP-7, and GP-10. According to interviews with the current property owner, the native soil horizon along the western margin was removed as part of the cut and fill activities completed in the 1970's. SVOC concentrations were detected in one sample, GP-5, which is located in the northeast corner of the cut and fill area at concentrations above NYSDEC TAGM 4046 guidance values (refer to **Table 1** of **Appendix B**). Lead concentrations detected in soil samples collected from the cut and fill area were well below the USEPA action level for lead in a residential setting which is 400 mg/kg.

1.5 Conceptual Site Model

A portion of the subject property was utilized as a recreational trap and target shooting range from approximately 1938 to 1968. According to eyewitness accounts, shooting operations were oriented in a northeasterly direction, toward the Amawalk Reservoir. The anticipated shot-fall area received lead pellets and broken clay pigeons during shooting activities. Over time, the lead pellets degraded and released lead into the soil within this area. The horizontal and vertical extent of lead-impacted soil has been defined through numerous soil sampling events. The majority of the lead impacts detected in on-site soils appear to exist from 0 to 1.5 fbg with only an isolated area near the wall of Lot 12 above the USEPA residential soil guidance value for lead from 1.5 to 3 fbg. The USEPA guidance value for lead in residential soils is 400 mg/kg. Based on TCLP analysis, lead does not appear to be leaching through the soil greater than a maximum of 4 fbg. Refer to **Figure 2** of this report for an illustration of the lead-impacted area.

SVOCs above NYSDEC guidance values were also detected within Lots 12 and 13 but did not correspond completely with the areas of lead-impacts. Refer to **Figure 2** of this report for an illustration of the SVOC-impacted soil. The source of these SVOCs could be attributed to historical dumping in the cut and fill area and the subsequent runoff during storm events.

A hand-dug well in the rear portion (southeast corner of Lot #13 - near back wall) of the subject property indicates that depth to groundwater in this portion of the property is approximately 10 fbg. According to the Final Scope and Work Plan Documents (refer to **Appendix A**), monitoring wells were proposed to be installed in order to evaluate groundwater impacts on the subject property. However, a groundwater investigation was not necessary based on the results of the soil data collected during field activities conducted on the subject property from December 2004 through February 2005. As stated in the approved Work Plan, installation of monitoring wells/sampling points in the surficial overburden aquifer were only necessary if the soil investigation revealed that

mobilization and transport of impacts are indicated by depth distribution of contaminants concern in soil. Soil impacts were detected from 0 to 4 feet below grade (the majority within 2 feet below grade). Detectable soil impacts, which have existed for approximately 40 years, have been limited to at least 6 feet above the water table. Based on these current conditions, it is in the opinion of the applicant that the impacts have not leached and migrated to the overburden aquifer.

Environmental assessment activities conducted on the subject property has identified the presence of lead and SVOCs above applicable guidance values. Under current environmental conditions on the subject property, the exposure pathways for adults and children would be incidental ingestion of contaminated soil, inhalation of dust/soil particles, and dermal contact. Currently, the subject property is considered to be private land, which is unoccupied, and human contact would be limited to the owners of the subject property and their guests. Trespassers; however, who illegally enter the subject property would also be potentially exposed to impact soil through incidental ingestion and inhalation. Ecological receptors of concern include invertebrates, fish in nearby reservoir, mammals, and birds, particularly waterfowl. Pathways for the ecological receptors include incidental ingestion of soil, intentional ingestion of lead fragments as grit, and ingestion of impacted food.

2 *Remedial Action*

Previous soil sampling activities have revealed that a portion of the subject property is impacted with lead and SVOCs at concentrations above applicable guidance values. Below is a discussion of the remedial options for this property and an implementation plan to execute the recommended remedial action. This document is designed to discuss the preferred method of remediation for the subject property.

2.1 Remedial Action Record of Decision

Former activities on the subject property included trap and target shooting, dumping, and vehicle usage. The previous environmental investigations have identified that the contaminants of concern are lead and SVOCs in on-site soils. The horizontal and vertical delineation of the impacted soil has been completed. Several remedial options are available to mitigate the soil on the subject property including capping the site with an impermeable barrier, in-situ metal stabilization, ex-situ metal stabilization, and excavation of impacted soil above applicable guidance values.

As mentioned above, the subject property is scheduled to be developed by the owner as a residential subdivision. In order to facilitate development of the subject property, the proposed remedial action is to excavate and remove impacted soils above applicable regulatory guidelines. Approximately 10,000 tons of impacted soils above applicable regulatory guidelines have been identified for excavation and off-site disposal. Additionally, possible reuse of some of the lead impacted soils (above 400 mg/kg but below the TCLP lead threshold of 5 mg/L) will be considered and proper regulatory approvals will be needed. Reuse of the soils would be located in inaccessible areas under the proposed road for the new development. Approximate 1,500 tons of lead impacted

soils (above 400 mg/kg but below the TCLP lead threshold of 5 mg/L) have the potential for reuse in inaccessible areas under the proposed road.

Regulatory approval from the NYSDEC Division of Environmental Remediation under the Brownfields Cleanup Program (BCP) will be obtained prior to the initiation of any remedial activities. Remedial activities are anticipated to take up to approximately three to six months to complete with the anticipated year of completion in 2007. All necessary local permits will be obtained from the Town of Somers prior to the initiation of remedial activities on the subject property.

2.2 Remedial Action Objectives and Goals

In order to protect human and ecological receptors from exposure to contaminants in soils and debris by exposure, inhalation, or ingestion of lead and SVOCs, lead-impacted soils over USEPA guidance value for residential soils and SVOC-impacted soil over NYSDEC TAGM guidance values will be excavated and disposed off-site utilizing the data collected from previous investigations on the subject property. An XRF will be utilized as a screening method to guide field activities. Confirmatory laboratory soil samples will be collected in order to verify that soil above applicable guidance values identified during previous sampling events is removed. Additional excavation may be necessary if confirmatory samples indicate that remaining soil is impacted with lead or SVOCs above applicable guidance values.

Following the removal of impacted soils from the subject property, confirmatory samples will be analyzed and a report will be generated that discusses the remedial activities outlined in this document. The report will determine if the concentrations of lead are within the acceptable levels of risk for the subject property to be developed for residential purposes. Additionally, possible reuse of some of the lead impacted soils (above 400 mg/kg but below the TCLP lead threshold of 5 mg/L) will be considered. Reuse of the soils would be located in inaccessible areas under the proposed road for the new development.

2.3 Applicable Regulatory Guidance Values

According to the USEPA Office of Solid Waste and Emergency Response (OSWER) Directive #9200.4-27p, entitled, "Memorandum: OSWER Directive: Revised Interim Soil Lead Guidance For CERCLA Sites and RCRA Corrective Action Facilities," the recommended screening levels for lead in soil for residential land use is 400 mg/kg. This screening level is based on the Integrated Exposure Uptake Biokinetic (IEUBK) Model for Lead in Children published by the USEPA. A screening level of 400 mg/kg will be used as a guideline for determining the extent of the lead-impacted excavation on the subject property.

For soil impacted with SVOCs, the NYSDEC TAGM 4046 guidance values will be utilized to determine the extent of SVOC-impacted soils on the subject property.

2.4 *Remedial Action Implementation*

A phased approach will be implemented for the remedial activities on the subject property. Phase I of the project will include site preparation activities. Phase II and III of the project will include the excavation of soil above the USEPA guidance value for lead in residential soil and/or NYDEC TAGM 4046 guidance values for SVOCs and disposal off-site. TCLP lead concentrations from samples collected during previous field activities on the subject property identified soil that was above the TCLP lead threshold of 5 mg/L. Phase II of the project will include the excavation of soils above applicable guidance values and above the TCLP lead threshold of 5 mg/l (referred in this report as elevated TCLP lead concentrations) and disposed off-site as a hazardous waste. Phase III of the project will include the excavation of soils above applicable guidance values and below the TCLP lead threshold of 5 mg/l (referred in this report as non-elevated TCLP lead concentrations) and disposed off-site as a non-hazardous waste. Phase IV of the project will include project demobilization activities.

Based on historical data collected from previous sampling events, there are distinct zones of lead and SVOC-impacted soil that will be excavated to various depths within Lots 10, 11, 12, and 13. **Figure 2** of this report was generated in order to illustrate the extent of soil excavation at varying depths. There are two distinct zones of proposed soil excavation from 0 to 1 fbg and from 1 to 2 fbg. One zone is designated for lead-impacted soils and the other zone is designated for SVOC-impacted soils. In an isolated area within Lot 12, lead-impacted soil is proposed for excavation to 4 fbg. Two other isolated SVOC soil impacted areas were identified at one boring location (GP-5) in the Cut and Fill Area, and one soil sample (B-2) collected from Area-2 (refer to **Appendix B, Figures 3 and 11** for locations). Soils containing elevated TCLP lead concentrations will be excavated and removed from the subject property first as part of Phase II excavation activities (refer to **Figure 2** of this report). An XRF will be utilized to guide field activities and confirmatory soil samples will be collected to confirm that remaining soil is below applicable guidance values for lead and SVOCs.

2.5 *Phase I Activities: Mobilization, Site Preparation, and Work Activity Procedures (Pre-Excavation)*

Prior to the start of field activities, a meeting will be conducted with all project personnel to review and discuss the scope of work, health and safety requirements, and inspection and quality control requirements of the project. **Figure 3** of this report shows the proposed work site set up for this project. The cut and fill area will be used as the primary staging area for equipment utilized during excavation activities. A preliminary list of heavy equipment to be used on the site includes an excavator, a front-end loader, and dump trucks of various sizes. An office trailer and/or tools trailer, if needed, will be established and placed in the cut and fill area (refer to **Figure 3**).

2.5.1 *Removal of Trees and Stumps*

Prior to field activities, a tree removal permit will be obtained from the Town of Somers. There are several trees identified on engineering plot plans for the subdivision that specify select trees to be left in place. These trees will be tagged prior to excavation activities and every attempt to leave them in place will be made. If XRF and/or

laboratory data indicates that the soil within the root structure of these tagged trees has the potential to be above applicable guidance values, the tree and tree stump will be removed.

Trees and shrubs not marked for preservation within the proposed excavated area will be cut down to stumps. The trees and shrubs will be stockpiled within the cut and fill area on the subject property for future disposal. The tree stumps will be either be removed using heavy equipment or a stump grinder. If the tree stump is able to be removed using heavy equipment, soil adhered to the root structure will be brushed off.

2.5.2 Access to Excavated Area

A temporary access road or the proposed Munson Frost Road will be constructed in order to allow for truck traffic into and out of the excavation areas. Access will enter the excavation area from Lot 10 and exit from Lot 13. The road will be covered with geo-fabric and/or gravel to prevent contact with impacted soil. Excavation activities and confirmatory samples will be collected at this location last.

The utilization of temporary barriers will ensure that truck traffic remains on the designated roads throughout the job site. Roads entering and leaving the subject property will also be designated. Drivers will be instructed to stay within defined road boundaries. **Figure 3** illustrates the proposed work site set up with the two options for road access.

2.5.3 Work Zone Setup

The proposed excavation area will be fenced off. An additional fence will be placed within the excavation boundary that identifies the area containing elevated TCLP lead results. Stakes will also be placed throughout the excavation area with the same grid designations utilized during the December 2004 through February 2005 field activities. Refer to **Figure 3** for an illustration of the proposed work site set up.

A decontamination station will be set up prior to the vehicles and equipment exiting the excavation area. Trucks loaded with impacted soil leaving the subject property for the disposal facility will pass through another decontamination station in order to ensure that impacted soil is not tracked off-site and onto roadways. Refer to **Figure 3** for an illustration of the proposed work site set up.

2.5.4 Decontamination (Personnel and Equipment)

GES will establish decontamination stations to decontaminate personnel and equipment as needed. Refer to **Figure 3** for an illustration of the proposed work site set up.

2.5.4.1 Personnel Decontamination

Personal Protective Equipment (PPE) utilized during field activities will be disposed of at an appropriate disposal facility. Personnel will be required to don Tyvek suits within the excavation area and remove them in designated decontamination stations.

2.5.4.2 *Vehicle Decontamination*

Vehicles will be brushed off in designated vehicle decontamination stations to remove any soil that collects on the rails during loading activities as well as cleaning the tires of the equipment utilized using a pressure washer. The decontamination pads will be graded so that rinse water can be collected and transferred to a holding tank using a pump. The decontamination pads will be lined with heavy-duty polyethylene plastic sheeting and gravel. Decontamination of equipment will be performed whenever a piece of equipment requires service, is removed from the site, and/or at the end of the project.

2.5.4.3 *Sampling Equipment Decontamination*

Soil samples will be collected using steel bulb planters using the following decontamination process:

- a non-phosphorous soap wash;
- a tap water rinse;
- de-ionized water rinse;
- 10% nitric acid rinse;
- de-ionized water rinse; and
- air dry.

2.5.5 *Dust Suppression*

Dust particles from construction activities will be controlled during excavation activities using water. Excavations, stockpiles, access roads, and other work areas within or outside project boundaries will be free from particulates that would cause the air pollution to be exceeded or which would cause a hazard or a nuisance to the neighboring community. The effectiveness of dust control will be evaluated and monitored and proper corrective measures will be taken, if necessary. The air monitoring plan will be included in the site-specific Health and Safety Plan (HASP).

2.5.6 *Erosion and Sediment Control*

During remediation, a soil erosion and sediment control plan will be established to reduce and/or eliminate the risk of surface water run-off transporting contaminant in either a lead particulate or lead enriched soil form. This plan will be developed to help further protect natural resources including the Amawalk Reservoir along the eastern property boundary of the subject site. The erosion and sedimentation plan will be provided by the engineering company hired by the developer and will be provided under separate cover. This soil erosion and sediment control plan will be submitted to the Board and all applicable agencies, including the NYCDEP, for review prior to any remedial activities.

2.5.7 *Investigation Derived Waste (IDW) and Waste Minimization*

Any waste derived during the excavation activities and post-excavation sampling activities will be sampled and properly disposed of at an appropriate disposal facility. Decontamination fluids will be stored in 55-gallon drums on-site and each drum will be sealed and secured at the end of each work day. Appropriate samples will be collected from the fluids, sediment, and solid waste generated during decontamination activities.

The analytical results of these samples will be used to determine the most appropriate licensed disposal facility.

Efforts will be made to utilize materials and resources effectively to reduce the amount of waste generated as a result of remedial activities. Good housekeeping policies will be emphasized.

2.5.8 Health and Safety Considerations

Due to the levels of total lead measured in soil, inhalation of lead-laden dust particles may be an exposure concern for contractor personnel during site activities. Refer to the site-specific HASP for more details regarding health and safety requirements. Personnel working within the identified work zones must read, understand, and sign the on-site HASP as well as take part in daily tailgate meetings performed by the site supervisor or equivalent personnel. Tailgate meetings should be conducted twice a day, once before any work activities begin and again in the afternoon. Any visitor requiring entrance into the work site must have appropriate PPE donned, read and sign the HASP, and have a tail-gate safety meeting conducted.

2.5.8.1 Air Monitoring Program

Title 29, Subtitle B, Chapter XVII – Occupational Safety and Health Administration (OSHA) (29 CFR) 1926.62 applies to the excavation activities at this site. § 1926.62 (Lead) identifies the action level for lead (defined as the allowable exposure of an airborne concentration of lead without the use of a respirator) as 30 micrograms per cubic meter of air ($\mu g/m^3$) calculated as an 8-hour time weighted average. If this airborne level is reached, the work area must be established as a regulated area in accordance with the above referenced standard. The lead permissible exposure limit (PEL) is 50 $\mu g/m^3$. If this airborne level is reached in the breathing zone of site workers, respiratory protection must be worn during site activities. Please note these limits are based on an 8-hour work day, and the allowable exposure is reduced if the work day is longer than 8 hours.

As indicated in § 1926.62, air monitoring must take place at the site to determine the potential exposure to lead. Air monitoring stations will be set up within the excavation area, along the northern and southern property boundaries and at the entrance/exit of the subject site along Tomahawk Street. Samples will be taken before the first day of intrusive activities to determine the baseline or initial worker exposures. Samples will be collected during excavation activities that are likely to generate airborne particulates and that will result is the greatest worker exposure potential, i.e. excavation activities, utility trenching and installation, UST installation, etc. Samples will be collected and analyzed as per the National Institute for Occupational Safety and Health (NIOSH) Method 7082.

If the exposure levels are determined to exceed the action level or PEL established for lead, the appropriate protective measures as indicated in § 1926.62 must be followed. This will include, but is not limited to, proper personal protective equipment (full body work clothing, gloves, hats, eye protection, half-face respirators with HEPA filters) and appropriate warning signs in the work area, washing facilities, and possibly medical surveillance.

An engineering control such as soil wetting may be necessary during intrusive activities to reduce airborne particulate levels and reduce worker exposure. If engineering controls are implemented, worker exposures will be re-evaluated to verify that the engineering control is effective in reducing worker exposures below the lead action level and PEL.

GES recommends that 29 CFR 1962.62 be reviewed thoroughly by site personnel and that an Accident Prevention Plan is developed in accordance with the OSHA Construction Standard. GES will provide the proper onsite health and safety training to site personnel at the onset of site work activities and will also provide the necessary air sampling and monitoring activities.

2.5.8.2 Personal Protective Equipment

Minimum PPE for any personnel working within the work site must be steel-toed boots, hard hat, safety glasses, and an orange reflective vest or orange shirt. If work is being conducted within the work exclusion zones or soil staging areas, white tyvek coveralls must be donned. If pressure washing is required for decontamination purposes, additional PPE will be required. All personnel leaving zones designated as potentially impacted with lead and SVOCs must follow the decontamination procedures that will be outlined in the HASP. Disposable clothing will be removed from the personnel and bagged for disposal. If non-disposable clothing is used, it must be decontaminated with detergent and water before reuse. If respirators are worn, they must be disinfected daily using the manufacturer-supplied disinfectant solution. All personnel should shower as soon as possible after leaving the site.

2.5.9 Confirmatory Soil Sampling Procedures

After each phase of the soil excavation activities, confirmatory soil samples will be collected to confirm that the remaining soil is below the applicable guidance values. Each soil sample will be transferred into the appropriate laboratory supplied container, stored on ice in a cooler, and shipped to Spectrum Analytical Laboratory (Spectrum) of Agawam, Massachusetts for analysis of total lead by EPA Method 200.7, TCLP lead by EPA Method 1311, and SVOCs by EPA Method 8270 where applicable.

2.5.9.1 Sample Documentation, Labeling, Custody, and Control

Emphasis will be placed on careful documentation of sample collection and sample transfer. The field personnel who collect the samples are responsible for the care and custody of the sample. Chain of Custodies and sample labels will be utilized and filled out in the field at the time of sample collection.

Sample identification numbers will follow the established grid pattern set up during the investigative phase of this project. The grid letters and numbers can be extended accordingly. Confirmatory soil sample identification numbering is described below:

e.g. CA15

C = The letter designation that the sample is a confirmatory soil sample.
A = Grid line designation.

15 = Numbering Location.

2.5.9.2 Quality Assurance / Quality Control

Field blank, field duplicate, matrix spike/matrix spike duplicate samples (MS/MSD), and equipment rinsate blanks will be collected during confirmatory sampling activities. Field duplicate and MS/MSD samples will be collected every 20 samples and analyzed for the same analyses as the confirmatory soil samples. Field blanks will be collected each day of excavation activity. Equipment rinsate blanks will be collected prior to the start of excavation activities to establish baseline results and then during the project from sampling equipment and heavy equipment and submitted for the same analyses as the confirmatory samples to ensure proper decontamination.

2.5.10 Avoidance of Future Septic Areas

According to engineering plot plans for the proposed Granite Pointe Subdivision, there are areas within each lot that have been pre-designated as future septic fields. Heavy equipment use will be minimized within those designated areas.

2.6 Phase II: Excavation Activities - Elevated TCLP Lead Concentrations

Phase II of the remedial activities involves the excavation of soils above applicable guidance values and contain elevated TCLP lead results. Refer to **Figure 2** in this report for an illustration as to where this area is located on the subject property. This area is located within the proposed excavation area and will be fenced off during Phase I work set up activities.

2.6.1 Material Handling and Transportation

Soils within this area will be excavated using an excavator or front-end loader and direct loaded into dump trucks. Refer to Sections 2.5.2 and 2.5.3 for information pertaining to access roads and work site set up.

At the onset of the work, GES will request that each driver provide evidence of required license endorsements. A waste shipping paper will be prepared for each conveyance in compliance with DOT regulations. These shipping papers will be generated on site. Shipping papers will be pre-signed by the assigned Client Representative so that shipment will not be delayed.

2.6.2 Waste Disposal for Elevated TCLP Lead Concentration Excavated Soil

Soils excavated from the area with elevated TCLP lead results (refer to **Figure 2**) will be transported and disposed of at an appropriate waste disposal facility. If confirmatory samples collected show elevated TCLP lead results, the soil will be handled as outlined Section 2.6.1.

2.6.2.1 Waste Characterization Sampling

GES will pre-characterize the waste prior to excavation. This will enable more efficient loading and shipping as well as eliminate the need for staging piles. The disposal facility will require that a waste profile summary be submitted prior to transportation and disposal. Soil samples collected from previous sampling events and from confirmatory

soil sampling will be submitted to the chosen waste disposal facility; however, additional samples may have to be collected depending on the volume of soil excavated and for additional parameters not previously analyzed.

2.6.3 Cleanup Confirmatory Sampling

After excavating the impacted areas with elevated TCLP lead concentration above applicable guidance values (refer to **Figure 2**), confirmatory samples will be collected following procedures outlined in Sections 2.5.9. The NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation for the State of New York requires that confirmatory soil samples for large excavations 20 to 300 feet in perimeter be collected from the bottom of the excavations every 900 square feet. Soil sample locations will be biased towards areas and depths of highest contamination identified during previous sampling events and with the utilization of an XRF.

In addition, confirmatory soil samples will be collected outside the excavation boundary area for elevated TCLP lead results in order to confirm that soils above applicable guidance values and contain elevated TCLP lead results have been removed. These confirmatory samples will be collected every 30 linear feet around the excavation area at approximately 10 feet away from the established boundary (refer to **Figure 2**).

2.6.4 Verify Attainment of Cleanup Standards

Confirmatory soil samples will be sent to Spectrum with an expedited turn around time (TAT). Once the analytical report is received from the lab, the analytical data will be reviewed in order to identify if any additional excavation is required within the excavation area. Refer to Section 2.2 for cleanup objectives.

2.7 Phase III: Excavation Activities - Non-Elevated TCLP Lead Concentrations

Phase III of the remedial activities involves the excavation of soils above applicable guidance values and contain non-elevated TCLP lead results. Refer to **Figure 2** for an illustration as to where this area is located on the subject property. This area will be fenced off during Phase I work set up activities.

2.7.1 Material Handling and Transportation

Impacted soils within this area will be excavated and transported as described in Section 2.6.1. The only difference for the non-elevated TCLP lead soil excavation activities is that the soils within this area will be staged in piles within the excavated area to await loading into dump trucks.

2.7.2 Waste Disposal for Non-Elevated TCLP Lead Excavated Soil

Soils excavated from the area with non-elevated TCLP lead results (refer to **Figure 2**) will be transported and disposed of at an appropriate waste disposal facility. Possible reuse of some of these lead impacted soils will be considered where the reuse of the soils would be located in inaccessible areas under the proposed road for the new development. If confirmatory samples collected reveal soil above applicable guidance values, the soil will be excavated and handled as outlined Section 2.7.1.

2.7.2.1 *Waste Characterization Sampling*

The disposal facility chosen will require that a waste profile summary be submitted prior to transportation and disposal. Soil samples collected from previous sampling events and from confirmatory sampling may suffice for acceptance into the chosen waste disposal facility; however, additional soil samples may have to be collected depending on the volume of soil excavated and for additional parameters not previously analyzed. Those waste characterization samples will be collected while the soil is staged in piles within the excavation boundary area.

2.7.3 *Cleanup Confirmatory Sampling*

After excavating the impacted areas with non-elevated TCLP lead results above applicable guidance values (refer to **Figure 2**), confirmatory samples will be collected following procedures outlined in Section 2.5.9 and Section 2.6.3.

In addition, confirmatory samples will be collected outside the excavation boundary area for non-elevated TCLP lead concentrations in order to confirm that soil above applicable guidance values and contain non-elevated TCLP lead results has been removed. These confirmatory soil samples will be collected every 30 linear feet around the excavation area at approximately 10 feet away from the established boundary (refer to **Figure 2**).

2.7.4 *Verify Attainment of Cleanup Standards*

Confirmatory samples will be sent to Spectrum with an expedited turn around time (TAT). Once the analytical report is received from the lab, the analytical data will be reviewed in order to identify if any additional excavation is required within the excavation area. Refer to Section 2.2 for cleanup objectives.

2.8 *Phase IV: Site Demobilization and Restoration*

Phase IV of the project will commence once excavation and confirmatory sampling is complete and soils above applicable guidance values are removed. Excavation boundary fences, silt fences, geo-textile material (if utilized), IDW, and decontamination soils and material will be removed and disposed of at an appropriate facility. Decontamination liquids will be placed in labeled 55-gallon drums and disposed of at an appropriate facility following waste characterization sampling. Equipment used during excavation activities will be removed from the subject property. Trees and shrubs removed during Phase I activities will be removed from the subject property. Excavations deeper than 2 foot will be filled in with clean backfill.

3 *Reporting Results*

After excavation and confirmatory sampling activities have been completed, a report will be generated that summarizes all field activity, analytical results, and waste disposal information. This report will be forwarded to the applicable agencies.

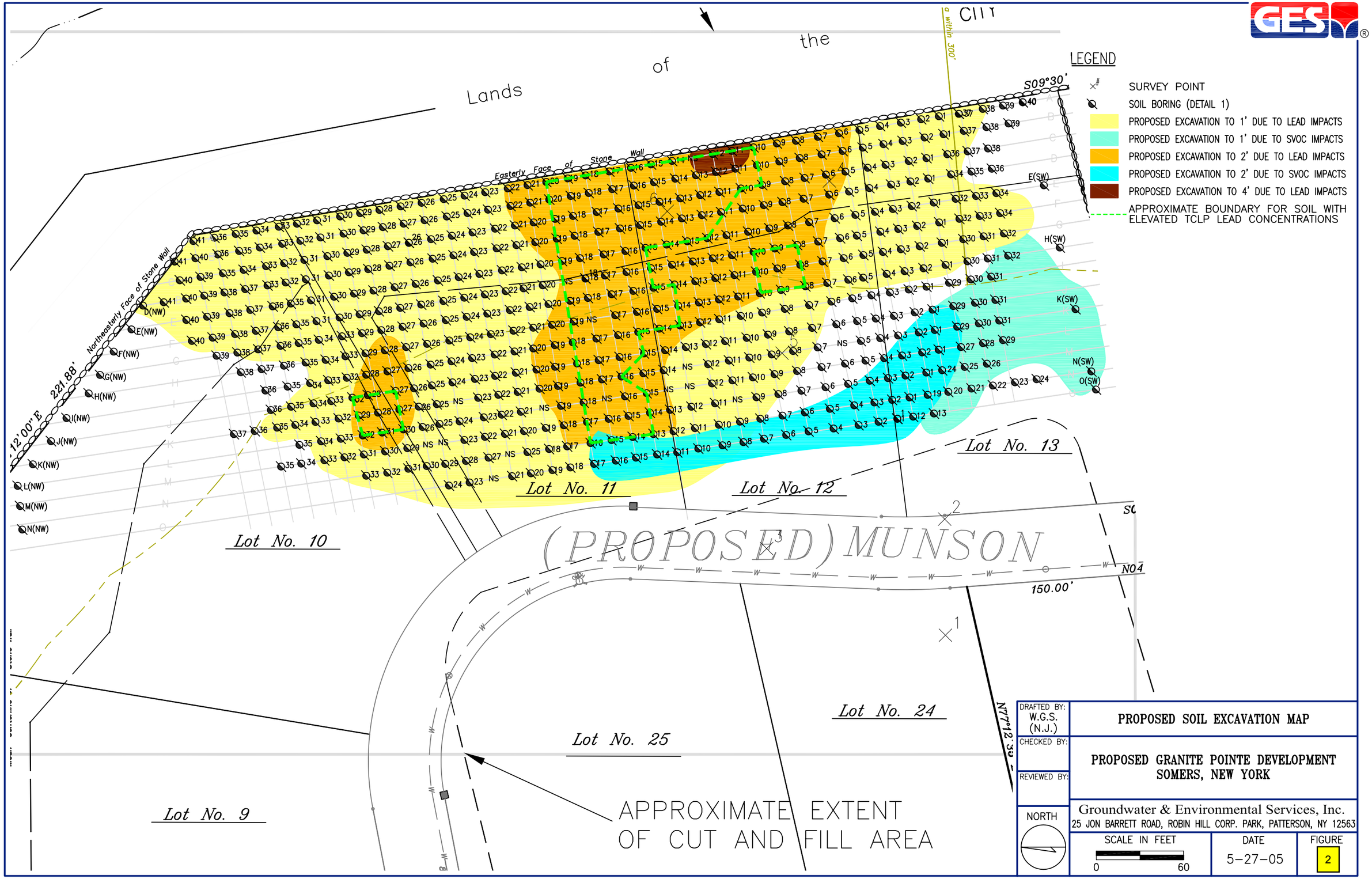
FIGURES

NOTE:

MUNSON FROST DRIVE IS A PROPOSED ROAD.

DRAFTED BY: W.G.S. (N.J.)	SITE MAP
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
NORTH	SCALE IN FEET 0 150 / DATE 5-6-05 / FIGURE 1

M:\Graphics\11100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/11/2005 4:14:30 PM, WShea



M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 11/15/2005 11:11:05 AM, WShea

DRAFTED BY: W.G.S. (N.J.)	PROPOSED WORK SITE SETUP MAP
CHECKED BY:	PROPOSED GRANITE POINTE DEVELOPMENT SOMERS, NEW YORK
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 25 JON BARRETT ROAD, ROBIN HILL CORP. PARK, PATTERSON, NY 12563
	SCALE IN FEET 0 150 / DATE 5-17-05 / FIGURE 3

M:\Graphics\1100-Patterson-LHV\Misc\Granite Point Somers\granite point somers SM.dwg, 5/27/2005 12:15:22 PM, WShea

APPENDIX D

The City of New York
Department of Environmental Protection

Emily Lloyd
Commissioner

Bureau of Water Supply
465 Columbus Avenue
Valhalla, New York 10595-1398

David S. Marne
Acting Deputy Commissioner
Tel (914) 742-2091
Fax (914) 741-0433

Marilyn Shanahan, Chief
SEQRA Coordination Section
Tel (914) 742-2078
Fax (914) 773-0342

June 27, 2006

Ms. Fedora DeLucia, Chair
Town of Somers Planning Board
Somers Town House
335 Route 202
Somers, New York 10589

Re: Granite Pointe Subdivision
Supplemental Environmental Impact Statement
Tomahawk Street, Town of Somers, Westchester County
TM 27.05-3-2 & 5
DEP Project Log #: 1995-AM-0219-SQ.1

Dear Ms. DeLucia and Members of the Board:

The New York City Department of Environmental Protection (DEP) has reviewed the Draft Supplemental Environmental Impact Statement (SEIS) prepared by Groundwater and Environmental Services, Inc. (GES), on behalf of Suelain Realty, dated November 28, 2005, for the above-referenced project. The SEIS was forwarded to DEP by the applicant, and DEP understands that the document has not yet been accepted as complete by the Town of Somers Planning Board (the Board) pursuant to 6 NYCRR 617.

Based on the information reviewed, DEP respectfully submits the following comments for your consideration:

1. DEP concurs with the SEIS's recommendation to remove areas significantly contaminated with lead. Due to the failure of TCLP, which indicates the presence of hazardous waste, the New York State Department of Environmental Conservation (NYSDEC) is required to be notified.

2. The extent of hazardous materials found during the GES soil investigation strongly indicates that the adjacent DEP-owned property is also impacted to some degree by historical use of the site. According to the October 2005 Work Plan (Attachment 1 to the SEIS scope of work), the applicant assumes that DEP will conduct any necessary investigation of potential impacts to DEP-owned land and that the applicant would grant access through their property to facilitate this investigation. DEP is currently in the process of developing a work plan for sampling on the adjacent City-owned parcel. It is not clear at this time if access through the applicant's property will be necessary.

3. Lead impacted soils should not be re-used under the proposed roadways of a residential development because lead in the

subsurface soil can leach and may negatively impact groundwater. Certified clean fill should be used to backfill excavated areas.

4. An effective erosion and sediment control plan should be established for the proposed excavation area along the adjacent DEP property boundary to minimize transport of contaminated soil to this property and the Amawalk Reservoir. The erosion and sediment control plan should be submitted to the Board and all applicable regulatory agencies, including DEP, for review prior to beginning any remedial activities.

5. The applicant should evaluate the extent of contaminate export from the site both during and after construction and provide mitigation measures should any adverse environmental impacts be identified.

6. A site-specific Health and Safety Plan (HASP) should be prepared. This plan should include specific details on the known contaminants, chemical hazard analysis, respiratory protection and personal protective equipment (PPE) requirements during remedial activities, air monitoring program and action levels, personnel and equipment decontamination procedures, and material safety data sheets (MSDSs) for known contaminants. A copy of the HASP should be forwarded to the Board, all applicable regulatory agencies, and DEP prior to beginning any remedial activities.

7. Although not specifically stated within the scope for the SEIS, it would be prudent for the applicant to conduct soil and groundwater sampling for pesticides/PCBs (Method 8081/8082). This along with the information already gathered would be used to better determine any necessary safeguards for the construction workers and/or future residents of the proposed development. If conducted, the SEIS should provide details on the collection methodology, laboratory analyses, and analytical results of any such sampling.

Based on a comparison of the SEIS remedial plan against the approved Stormwater Pollution Prevention Plan (SPPP), DEP notes the following:

8. The proposed stormwater basins A and D (on lots 10, 11, and 12) will be affected by the proposed excavation as shown on Figure 2. The removal of 1 to 4 feet of material will likely impact the hydraulic function of the proposed basin.

9. The proposed stormwater infiltration measure for lot 13 will be affected by the proposed excavation as shown on Figure 2.

10. The proposed subsurface sewage treatment systems (SSTSs) for lots 10, 11, 12, and 13 will be affected by the proposed excavation shown on Figure 2. The remedial plan indicates approximately 1 to 2 feet of material would be removed, which may affect the percolation rate of the proposed SSTSs.

11. Figures 1 to 3 depict a rectangular area of cut and fill on lots 23, 24, and 25. This area is not described or explained in any detail in the SEIS. The depicted excavation area may have a negative impact on the functioning of the SSTSs on these lots.

12. The proposed remedial work will require amendments to the approved SPPP to reflect any changes to the site.

Thank you for the opportunity to provide comments. Please contact me at (914) 742-2071 if you have any questions or care to discuss the matter further.

Sincerely,

Marilyn Shanahan

Marilyn Shanahan, Chief
SEQRA Coordination Section

xc: Sabrina Charney Hull, Town of Somers
Suelain Realty, Project Sponsor
Timothy Allen, Bibbo Associates, LLP
Kurt Rieke, DEP