

CA RICH Site Characterization Report



**Site Characterization Report
Former Belle Cleaners
40 Purchase Street
Rye, New York
Site Number 3-60-086**

December 2012

**Prepared for Submittal to
The New York State Department of Environmental Conservation
Division of Environmental Remediation
21 S. Putt Corners Rd.
New Paltz, NY 12561**

on Behalf of:

**West Turnpike, Inc.
110 North Marina Drive
Long Beach, CA 90803**

Prepared by:

**CA RICH CONSULTANTS, INC.
17 Dupont Street
Plainview, New York 11803**



December 31, 2012

NYSDEC Region 3
Division of Environmental Remediation
21 S. Putt Corners Rd
New Paltz, NY 12561

Attention: Janet E. Brown P.E.

Re: Site Characterization Report
Former Belle Cleaners
40 Purchase Street
Rye, New York, 10580
Site Number 3-60-086

Dear Ms. Brown:

Attached please find the attached Site Characterization Report (SCR) for the above referenced location (the Site or Property). The SCR has been developed by CA RICH Consultants, Inc. (CA RICH) on behalf of West Turnpike, Inc. in accordance with the requirements of the Order on Consent (Index No. W3-1081-05-10) executed March 1, 2006.

If there are any questions regarding this Report, please do not hesitate to call our office.

Sincerely,

CA RICH CONSULTANTS, INC.

A handwritten signature in black ink, appearing to read 'Richard J. Izzo'.

Richard J. Izzo, CPG
Senior Associate

cc:

James Kim, Esq.

Attachments

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**Site Characterization Report
Former Belle Cleaners
40 Purchase Street, Rye, New York
Site Number 3-60-086**

1.0 INTRODUCTION & PURPOSE

This Site Characterization Report (SCR) has been prepared by CA RICH Consultants, Inc. (CA RICH) on behalf of West Turnpike, Inc. (the Respondent) in response to the informational requirements of the Order on Consent (Index No. W3-1081-05-10) executed March 1, 2006 as administered by the New York State Department of Environmental Conservation (NYSDEC). This RIR is based upon the guidelines set forth in Exhibit "G" of the Order on Consent as well as discussions between CA RICH and NYSDEC representatives. The Remedial Investigation was conducted in accordance with the approved Remedial Investigation Work Plan (RIWP) dated June 2007 and RIWP Addendum dated October 20, 2007.

Environmental conditions at and emanating from the subject Property have been documented in the following reports that were submitted to NYSDEC in the form of a Records Search Report dated October 9, 2006:

- *Phase I Environmental Site Assessment, Survey for Asbestos Containing Materials, and Phase II Site Investigation; proposed Commerce Bank Site, Smith Street and Purchase Street, Rye, Westchester County, New York; prepared by Whitestone Associates, Inc.; dated October 8, 2004*
- *Summary Report, Environmental Testing in response to Reported Release (Spill No. 0406235), Belle Cleaners and Laundry, 40 Purchase Street, Rye, NY 10580; prepared by CA RICH Consultants, Inc.; dated February 24, 2005*

The purpose of this RIR is to summarize the Remedial Investigation of soil, groundwater and air quality impacts identified in the previous investigations and present recommendations to support the development of an acceptable Remedial Action Work Plan.

2.0 SITE HISTORY & DESCRIPTION

2.1 Site History/Description

The subject Property located at 40 Purchase Street, Rye, NY was historically utilized as a dry cleaning facility from the late 1940s until approximately 2006 when the existing one-story building was completely renovated and converted for use as a bank. The Property is currently an active TD Bank branch that occupies the entire ground floor and utilizes the basement for maintenance supplies and an electrical/utility room. The former on-site dry cleaning business (Belle Cleaners) was operated from 1984 through 2005 by Mr. Taesak Kim. 38-40 Purchase Street Corp. (owned by Taesak Kim's son, Mr. James Kim) purchased the property in 2001. In addition, the southern portion of the building was historically divided from the main portion and utilized as a separate retail store that most recently (up until the 2006 building renovation) was occupied by a nail salon.

The footprint of the building along with a small rear driveway comprises the entire Property that is approximately 5,000 square feet in area. The building is located at 40 Purchase Street on the southeast corner of Purchase Street and Smith Street in Rye, Westchester County, NY. A Site Location Map (USGS Topographic Quadrangle) is included as Figure 1.

According to information gathered in the Phase I ESA, the former onsite building was constructed between 1887 and 1892 with occupancy by the C.H. Walker Carriage Facility. The earliest on-site listing for a dry cleaners is 1947 and a dry cleaning facility has been reported on-site from that time until the 2006 renovation and occupation by TD Bank.

The Property has always been serviced by public water and public sewers. The former dry cleaning facility and the separate retail store were heated with oil stored in three 275-gallon aboveground storage tanks. These tanks were removed by TD Bank during site renovation activities and the building is now heated by gas.

2.2 Surrounding Land Use

The former Belle Cleaners Site is located along Purchase Street, the main commercial shopping area within the City of Rye. Adjoining properties include retail and commercial buildings to the north, south and west, and a parking lot to the east.

2.3 Physical/ Hydrogeologic Setting

According to the USGS Mamaroneck Topographic Quadrangle Map, the Property is located at an elevation of 30 feet above mean sea level. Local topography slopes gradually toward Blind Brook located approximately 1/8 mile to the southeast of the Property.

The Property is underlain by glacial till characterized as a poorly sorted mixture of clay, silt sand, gravel, cobbles and boulders of Pleistocene age. This thin veneer of till is expected to be less than 20 feet in thickness and rests unconformably on Ordovician age crystalline bedrock of the Hartland Formation which includes Basal Amphibolite and pelitic schist.

Site specific work conducted to date suggests that the uppermost groundwater surface under unconfined conditions (i.e. the water table) is encountered at a depth of approximately ten to 13 feet below land surface within the unconsolidated glacial sediments and immediately below the basement slab. Shallow groundwater flow underlying the Property will generally mirror local topographic relief. As such, groundwater is expected to flow to the southwest with eventual discharge into Blind Brook which, in turn discharges approximately two miles southeast of the site into the tidal areas of Milton Harbor and the Long Island Sound. Based upon the Property's proximity to Blind Brook and Long Island Sound, it is anticipated that the Property is located in an area of groundwater discharge as opposed to a deep recharge area. Underlying groundwater is not used for potable supply purposes in Rye, as such, no potable resources appear to be threatened by local groundwater contamination.

2.4 Evaluation of Previous Soil & Groundwater Sample Analyses

As outlined in Section 1.0, a series of previous investigations were performed at this site. Copies of these reports were previously submitted in the form of a Records Search Report.

The scope and findings the previous investigations are outlined below:

1. Phase II ESA (Whitestone Associates, October 8, 2004)

Scope:

Installation of five shallow soil borings within the rear driveway area with collection and chemical analysis of four soil samples and one groundwater sample for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).

Findings:

Soils from sample 7166-B4 collected at the water table (nine feet below grade) contained two semi-volatile compounds (benzo(a)anthracene and benzo(a)pyrene) at 242 ug/kg and 244 ug/kg which were in excess of NYSDEC TAGM 4046 soil cleanup objectives (SCOs), but below NYS Part 375 Unrestricted Use SCOs. Additional SVOCs and the chlorinated VOC tetrachloroethylene (PCE) were also detected, but at concentrations below cleanup objectives.

Groundwater from 7166-B1 detected the presence of PCE at a concentration of 134 micrograms per liter (ug/l). This is in excess of the NYSDEC groundwater quality standard of 5 ug/L. Additional VOCs including trichloroethylene (TCE) vinyl chloride, and benzene were also detected in excess of groundwater quality standards.

2. Environmental Testing in response to Reported Release (CA RICH February 05)

Scope:

Installation of four Geoprobe soil borings and four microwells with collection of soil and groundwater samples from beneath the on-site building. Also included collection of two indoor air samples within the two separate on-site basements along with the installation of two temporary soil vapor points and collection of two sub-slab vapor samples.

Findings:

Results of the February 2005 investigation indicate the presence of low levels of volatile organic compounds (VOCs) in sub-slab soil gas and groundwater underlying the building at concentrations and an areal extent indicative of residual impacts from low-level historical releases or waste handling practices. No indoor air quality impacts were observed.

3.0 SUMMARY OF INVESTIGATION

3.1 Interior/Exterior Soil Borings and Soil Sampling & Analysis

A total of three exterior and three interior soil borings were installed as part of this Site Characterization. The three exterior borings were designated SCB-2, SCB-3 and SCB-4 and were drilled in the eastern portion of the Property beneath the small driveway area behind the existing building. The exterior borings were drilled using a Geoprobe with sample collection via macro-core tubes. The interior borings were drilled through the floor of the basement using an electric corer and collected manually with a stainless steel hand auger. The boring locations are illustrated on Figure 2.

Exterior borings SCB-2, SCB-3 and SCB-4 were drilled from the surface down until bedrock refusal was encountered with continuous soil screening for total VOCs using a PID. As per the approved RI Work Plan and Addendum, as no PID readings above background were detected in SC-B-2 and SCB-3, the deepest sample above bedrock refusal was collected for laboratory analysis in each of those two exterior borings. This includes the soil material from 20-22 feet below grade in Boring SCB-2, and 20-21 feet below grade in boring SCB-3. A PID reading of 11.9 ppm was measured in the material collected from approximately 12 to 12.5 feet below land surface in boring SCB-4, coinciding with black staining and saturated conditions (the water table). As such the material from that macro core was submitted for laboratory analysis. Groundwater was encountered in each of the exterior borings at a depth between 10 and 13 feet below land surface. Boring logs are included as Appendix A.

Interior borings SCB-5, SCB-6 and SCB-7 were drilled through the basement slab until refusal was encountered using an electric corer and hand auger. Refusal was encountered within each of the interior borings at depths of 5 ft., 3.5 ft. and 2.5 ft.(respectively) and Groundwater was encountered right below the slab in boring SCB-7 and at depths of 10 inches and 24 inches beneath the slab in borings SCB-5 and SCB-6, respectively. The presence of groundwater right below the slab at the SCB-7 location made it difficult to recover soil samples at a discrete horizon. As such, the sample was collected from the recoverable soils between the slab and the depth of refusal and designated 'SCB-7 SUB-SLAB'. Soils from the other two interior borings (SCB-5 and SCB-6) were collected from the depth interval just above refusal.

All soil samples were packaged in laboratory-issued sample containers and submitted to NYS-ELAP-certified Accutest Laboratories in Dayton NJ with analysis for VOCs using EPA method 8260 and NYSDEC ASP category B deliverables. In addition, two of the samples (SCB-4 and SCB-5) were also analyzed for SVOCs (EPA method 8270) as well as pesticides/herbicides (EPA method 8081), PCBs (EPA method 8082) and Target Analyte List (TAL) metals. During this sampling the following samples were collected for QA/AC purposes in accordance with the approved Quality Assurance Project Plan (QAPP): one trip blank, one field blank, one duplicate sample, one matrix spike and one matrix spike duplicate. The soil laboratory data were reviewed by a qualified third-party data validator and a Data Usability Summary Report (DUSR) was prepared (Appendix B).

3.2 Well Installation and Groundwater Sampling & Analysis

Interior soil borings SCB-5 and SCB-6 were converted into microwells consisting of one-inch diameter PVC screen and completed to the soil bedrock interface at depths of 60 inches and 45 inches below the basement slab (respectively).

These one-inch diameter PVC wells were installed using 0.020-inch slotted (20 slot) pipe and No. 2 sand as provided by the Jesse Morie Company. Each well was constructed to industry standards and fitted with a bolt-down curb box. The locations of the microwells are included on Figure 2. Geologic boring logs and well construction details are included in Appendix A. Two pre-existing wells (MW-1 and MW-2) were also included in the groundwater sampling and analysis program. These two wells were installed during CA RICH's previous investigative activities in 2005 (see Appendix A for pre-existing well construction information). Following installation, the two new wells and the two pre-existing wells were developed using a peristaltic pump.

Following development, CA RICH returned on October 23, 2012 to sample the wells. A volume of three to five times the volume of the well was removed from each well using a low flow rate peristaltic pump with dedicated polyethylene tubing. A sample of the groundwater from each well was then collected directly from the pump discharge using laboratory-issued containers. Water samples from each well were submitted to NYS-ELAP-certified Accutest Laboratories in Dayton NJ with analysis for VOCs using EPA method 8260 and NYSDEC ASP category B deliverables. In addition, two of the samples (MW-1A and MW-4A) were also analyzed for SVOCs (EPA method 8270) as well as pesticides/herbicides (EPA method 8081), PCBs (EPA method 8082) and Target Analyte List (TAL) metals. . During this sampling the following samples were collected for QA/AC purposes in accordance with the approved Quality Assurance Project Plan (QAPP): one trip blank, one field blank, one duplicate sample, one matrix spike and one matrix

spike duplicate. The groundwater laboratory data was reviewed by a qualified third-party data validator and a Data Usability Summary Report (DUSR) was prepared (Appendix B).

3.3 Vapor Intrusion Sampling

On December 13, 2010, three temporary sub-slab soil vapor points were installed beneath the basement floor slab using a hand-operated hammer drill in accordance with the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 (NYSDOH Guidance). Sub-slab vapor point locations are illustrated on Figure 1. The sub-slab soil vapor sampling point was placed directly beneath the slab within unconsolidated fill or earth materials. The points were constructed of ¼-inch stainless steel tubing. The annular space around the tubing was filled with No. 2 Morie sand. The surface seal of the interior sampling points consisted of melted beeswax.

On December 13th and 14th, soil vapor samples were collected from each temporary soil vapor point. In addition, three interior ambient air and one exterior background air samples were collected as illustrated on Figure 1. The soil vapor and air samples were obtained in accordance with NYSDOH Guidance. Prior to sampling, three volumes of soil vapor were purged from each soil vapor point using an air sampling pump set to a rate of approximately 0.2 liters per minute. A bucket was then placed over the sample assembly and helium gas was used to enrich the atmosphere around the sample location in combination with real-time air monitoring (for helium) to verify that ambient air was not infiltrating the sampling assembly during purging and sampling. Once it was confirmed that ambient air was not being drawn into the assembly, the stainless steel tubing was connected to the SUMMA canister and a soil vapor sample was collected. The indoor air sample and ambient air sample were also collected using SUMMA canisters. The SUMMA canister regulator was set to restrict the sample collection to not exceed 0.2 liters per minute over a one-hour time period for all soil gas, indoor air, and ambient air samples. Sampling was conducted over a 24-hour period.

Upon arrival to the Site on December 14th to collect the SUMMA canisters, it was discovered that all three of the sub-slab samples had entrapped water in the sampling train. Due to the presence of the water table (which had equilibrated to a level approximately 1 to 2 inches above the base of the slab) the samples could not be successfully collected from below the slab. The three indoor air samples and one exterior air sample canisters were disconnected and sealed for shipment to Ecotest Laboratories of North Babylon, New York (an ELAP-certified laboratory) for analysis of VOCs via EPA method TO-15.

In addition to the testing, CA RICH performed an inventory of chemicals/products stored within the basement as outlined below:

<u>Chemical/Product</u>	<u>Amount</u>
Burke Clean & Green Liquid Dish Detergent	1 gallon
Fabuloso All Purpose Cleaner	1 gallon
Solution Series Elite Window and Glass Cleaner	1 gallon
Latex Paint	2 gallons
Comet Cleanser	1 small container

4.0 RESULTS

4.1 Soil Sampling & Analysis

The results of the soil analysis were compared to NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for unrestricted use as well as commercial use. The locations of all of the samples are illustrated on Figure 2 and the analytical results are summarized on Tables 1 through 5. Laboratory reports are included in Appendix C. Of the six soil samples analyzed, only two compounds in two of the samples were detected at a concentration in excess of unrestricted SCOs. Specifically, tetrachloroethylene (PCE) was detected in soil sample SCB-7 (sub-slab) at a concentration of 2,570 micrograms per kilogram (ug/Kg). This concentration is in excess of the NYSDEC Part 375 unrestricted use SCO of 1,300 ug/Kg. However, it is well below the commercial use SCO of 150,000 ug/Kg. In addition, the pesticide 4,4'-DDD was detected in sample SCB-5 (4-5 feet) at a concentration of 20.3 ug/Kg which is in excess of the Part 375 unrestricted use SCO of 3.3 ug/Kg but well below the commercial use SCO of 92,000 ug/Kg. No other VOCs, SVOCs, pesticide/herbicide, PCBs or metals were detected in any of the samples at concentrations exceeding NYSDEC Part 375 unrestricted use SCOs.

4.2 Groundwater Sampling and Analysis

Each of the four monitoring well samples exhibited the presence of PCE in excess of NYSDEC groundwater quality standards. The most elevated detection was 4,230 ug/L in well MW-2. PCE concentrations in wells MW-1, MW-3A and MW-4A were measured at 8.9 ug/L, 17.6 ug/L and 107 ug/L respectively. PCE degradation "daughter" compounds including trichloroethene, and vinyl chloride were observed in wells MW-2 and MW-4A at concentrations in excess of NYSDEC groundwater quality standards. Chlorobenzene was detected in all of the groundwater samples in excess of NYSDEC groundwater quality standards. No SVOCs, pesticides or PCBs were detected in any of the groundwater samples at concentrations in excess of NYSDEC

groundwater quality standards. The metals aluminum, iron and manganese were detected in well MW-4A at levels in excess of NYSDEC standards. In addition, sample MW-1A exhibited the metals iron and manganese above standards. Analytical results for monitoring well groundwater samples are summarized on Tables 6 through 10.

4.2 Vapor Intrusion Sampling

Analytical results for indoor and outside ambient air samples are summarized on Table 11. As shown, TO-15 analysis of the four air samples resulted in detections of acetone, ethyl alcohol, isopropyl alcohol, methylene chloride, tetrachloroethene, toluene and trichloroethene. Of the seven compounds detected, NYSDOH matrix values only exist for three (methylene chloride, trichloroethene and tetrachloroethene). None of the detected compounds were found at concentrations in excess of current NYSDOH Matrix Guidelines.

5.0 QUALITATIVE HUMAN HEALTH AND ENVIRONMENTAL EXPOSURE ASSESSMENT

5.1 Contaminants of Concern

Based upon the information generated during this investigation, the principal contaminant of concern is tetrachloroethene (PCE). PCE is a manufactured chemical that is widely used for the dry cleaning of fabrics and for metal-degreasing. It is also used to make other chemicals and is used in some consumer products. PCE is a nonflammable liquid at room temperature. PCE and its degradation products are described as "sweet" or "aromatic" smelling and are narcotic in high concentrations. Acute exposure to significant concentrations of these chemicals can cause irritation of the skin, eyes and mucus membrane, headache, dizziness, nausea, and in high enough concentrations, loss of consciousness and death (*Sax, 1984*). The Department of Health and Human Services (DHHS) has determined that PCE may reasonably be anticipated to be a carcinogen as it has been shown to cause liver tumors in mice and kidney tumors in male rats.

5.2 Regulatory Criteria

The concentrations of the contaminants of concern found at the Site were compared to the following standards or guidance values: 1) NYSDEC 6 NYCRR Part 375 Unrestricted use Soil Cleanup Objectives and Restricted Commercial Use Soil Cleanup Objectives. (Ref. 6); 2) Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC (groundwater only); and 3)

New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

5.3 Impacted Media

As discussed in the previous sections, on-site media impacted by PCE includes soils, groundwater and indoor air. Levels of PCE and associated degradation products were observed in groundwater samples in excess of NYSDEC limitation guidelines/standards. Soil and Indoor air quality was also impacted, but at levels below current guidelines.

5.4 Potential Sensitive Receptors

5.4.1 On-Site Human Health Receptors

Potential on-site sensitive receptors include adult commercial workers and their associated customers/patrons. Miscellaneous delivery persons would have significantly less exposure than building occupants, and therefore, were excluded from further consideration.

5.4.2 On-Site Environmental Receptors

TD Bank is located in a retail/commercial section of Rye. The on-site building covers nearly 100 percent of the subject Property. As such, no on-site environmental receptors (such as fish or wildlife) are identified.

5.4.3 Off-Site Human Health Receptors

Potential off-site human health receptors within a 0.25-mile radius of the Site include adult and child residents, and commercial workers based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Building Construction/Renovation (up to 0.25 mile) – existing and future
4. Pedestrians, Cyclists (up to .25 mile) – existing and future

Visitors, pedestrians, cyclists, and miscellaneous delivery persons would have significantly less exposure than building occupants; and therefore, were excluded from further consideration.

Groundwater in Rye is not used for drinking water. Private or municipal water wells do not exist within one-mile of the Site. Both drinking water (via reservoirs) and sewer systems are supplied by municipal sources. Therefore, the risk of the Site contaminating public or private water supply does not exist.

5.4.4 Off-Site Environmental Receptors

As discussed, TD Bank is located in a retail/commercial section of Rye. The area is dominated by buildings, sidewalks and roadways with very little areas of open space or vegetation. Based upon the highly developed nature of the area, no adjacent or nearby plant or fish & wildlife resources are identified that could potentially be threatened by the identified contamination. The closest environmental receptor would be Blind Brook approximately 1/8 mile southeast of the Property.

5.5 Exposure Route

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, soil or building materials.

5.6 Exposure Pathways

This evaluation consists of the following components: contaminant source; contaminant release and transport mechanism; point of exposure; route of exposure; and receptor population.

5.6.1 On-Site

The existing building occupies nearly the entire Property footprint. The remainder of the Property is paved. As such, the entire property is currently capped. In addition, the depth to groundwater beneath the basement floor is generally less than one foot. The building is used for retail/commercial purposes and, no on-site digging or soil handling is planned. As such, direct exposure to impacted on-site soils is not considered an exposure pathway for existing or future Site occupants/patrons. Should future Property usage include demolition or renovation of the

building, direct exposure to impacted on-site soils may be a potential short-term exposure pathway for future on-site construction workers.

Groundwater is not used on-site (or in the area) for any purpose. As such, direct exposure to impacted groundwater is not considered an exposure pathway for existing or future Site occupants. Should future property usage include demolition or renovation of the building, direct exposure to impacted on-site groundwater may be a potential short-term exposure pathway for future on-site construction workers.

The most prevalent on-site exposure pathway is vapor emanating from VOCs, including PCE within the subsurface groundwater and soils entering into the building as a result of any sub-basement floor or lower wall openings/cracks. The potential receptors from such a pathway into the building would be to on-site commercial workers, and adult customers/patrons. The primary route of exposure would be inhalation.

5.6.2 Off-Site

There is a potential exposure pathway from vapor emanating from VOCs, including PCE within the groundwater to enter into the adjoining buildings as a result of any sub-basement floor or lower wall openings/cracks. The indoor air quality at the adjoining properties is susceptible to contamination from subsurface vapor intrusion attributable to VOCs emitted from the shallow contaminated groundwater beneath the Site. The potential receptors from such a migration pathway into the building would be to off-site commercial workers, and adult and child residents. The primary route of exposure would be inhalation.

Because groundwater is shallow (less than 20 feet below land surface) there is a potential off-site exposure pathway for direct contact with impacted groundwater during off-site construction activities. The potential receptors for such a pathway would be construction workers.

6.0 Conclusions and Recommendations

6.1 Soils

Soil sampling and analysis completed during this Site Characterization indicates that impacted soils are generally limited to the area of boring SCB-7. The concentration of PCE identified at this location (2,570 ug/Kg) is in excess of Part 375 unrestricted use SCOs but below restricted commercial SCOs. The soils underlying the building are completely saturated as the water table

is encountered directly beneath the slab. Based upon this and the relatively low levels of PCE detected in the soils, soil excavation does not appear to be an appropriate response. Residual soil contamination beneath the water table at the levels observed can be treated as part of a groundwater remediation program, if necessary.

6.2 Groundwater

Sampling and analysis of groundwater from four permanent microwells confirms the presence of on-site groundwater impacts by VOCs (primarily PCE) at levels in excess of NYSDEC groundwater quality standards. Based upon the distribution of observed contamination, it appears that the greatest impact occurs in the vicinity of MW-2 and MW-4A which are located in the center of the building and downgradient (respectively). Published topographic maps and regional groundwater flow information indicates groundwater flow under normal conditions to the southwest with eventual discharge into Blind Brook which discharges approximately 2 miles southeast of the Site into the tidal areas of Milton Harbor and the Long Island Sound. Based upon the Property's proximity to Blind Brook and Long Island Sound, it is anticipated that the Property is located in an area of groundwater discharge as opposed to a deep recharge area. Underlying groundwater is not used for potable supply purposes in Rye, as such, no potable resources appear to be threatened by local groundwater contamination.

Based upon the results of this remedial investigation and the previous testing, remedial action with respect to groundwater may be required. Such action would likely include the installation and operation of an in-situ treatment system utilizing either pump & treat, chemical oxidation or air sparging. A chemical oxidation system would include pumping groundwater during injection activities to avoid merely displacing the contaminants.

6.3 Air Quality

Results of vapor intrusion testing indicate the presence of VOCs (particularly PCE) in the indoor air within the basement of the on-site building at a level below NYSDOH matrix guidelines. These vapors are most likely attributable to the presence of the groundwater contamination directly beneath the basement slab. The on-site treatment and remediation of groundwater should effectively remove the source of on-site vapor and prevent the migration of vapor off-site.

oOo

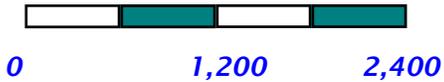
REFERENCES

1. E.S. Asselstine & I.G. Grossman, (1955), The Groundwater Resources of Westchester County, USGS Bulletin GW-35.
2. CA Rich Consultants, Inc.; (February 24, 2005) *Summary Report, Environmental Testing in response to Reported Release (Spill No. 0406235), Belle Cleaners and Laundry, 40 Purchase Street, Rye, NY 10580*; prepared by
3. Whitestone Associates, Inc.; (October 8, 2004) Phase I Environmental Site Assessment, Survey for Asbestos Containing Materials, and Phase II Site Investigation; proposed Commerce Bank Site, Smith Street and Purchase Street, Rye, Westchester County, New York;
4. NYSDEC, (October 22, 1993), Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values.
5. New York State Department of Health (2006) Guidance for Evaluating Soil Vapor Intrusion in the State of New York.
6. United States Geological Survey (1979) Mamaroneck, NY, Topographic Quadrangle Map.
7. Sax, N.I; "Dangerous Properties of Industrial Materials" ; © 1984
8. NYSDEC. 6 NYCRR Part 375 Environmental Remediation Programs, Environmental Remediation Programs, Subparts 375-1 to 375- 4 & 375-6. New York: Author, December 2006.

FIGURES



APPROX. SCALE (ft.)



CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

SITE LOCATION MAP

DATE:

2/16/07

SCALE:

AS SHOWN

FIGURE:

1

**Former Belle Cleaners
40 Purchase St.
Rye, NY**

DRAWN BY:

STM

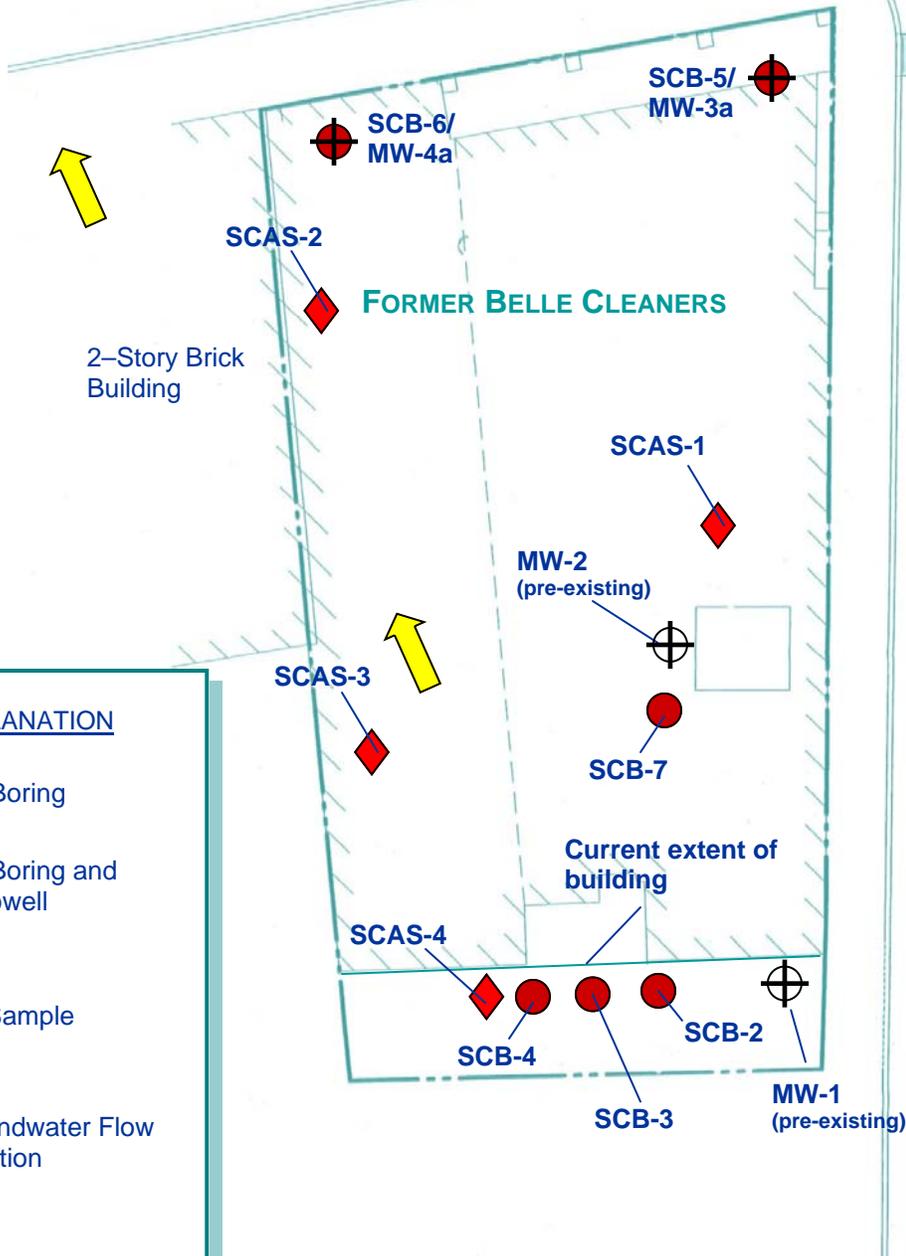
APPR. BY:

RJI

Adapted from USGS Mamaroneck Quadrangle Map
(1975 photorevision)



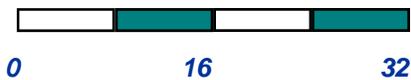
PURCHASE STREET



EXPLANATION

- Soil Boring
- Soil Boring and Microwell
- Air Sample
- Groundwater Flow Direction

APPROX. SCALE (ft.)



Adapted from Whitestone Associates, Inc. 9/28/04

Modified 7/26/12



CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

RI Sampling Locations

DATE:

7/26/12

SCALE:

AS SHOWN

FIGURE:

2

**Former Belle Cleaners
40 Purchase Street
Rye, NY**

DRAWN BY:

STM

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TABLES

Table 1
Analytical Results for Volatile Organic Compounds In Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID	SCB-2 (20-22)	SCB-3 (20-21)	SCB-4 (10-15)	SCB-5 (4-5)	SSCB-6 (1.5-3.5)	SSCB-7 (SUB-SLAB)	SCB-XX	FB-4/26/12	TB-4/26/12	*Part 375	**Part 375
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Liquid	Liquid	Unrestricted	Commercial
Date Sampled	4/24/2012	4/24/2012	4/24/2012	4/26/2012	4/26/2012	4/24/2012	4/26/2012	4/26/2012	4/26/2012	Use	
Volatile Organic Compounds	Units	ug/kg	ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l	ug/l	ug/kg	ug/kg
Acetone	ND	ND	ND	ND	ND	37.1	ND	ND	ND	50	500,000
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	44,000
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	500,000
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	760	22,000
Chlorobenzene	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	1,100	500,000
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	350,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	1,100	500,000
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	280,000
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	1,800	130,000
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	240,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	30,000
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	330	500,000
cis-1,2-Dichloroethene	ND	ND	ND	1.6 J	2.7 J	9.4	2.1 J	0.52 J	ND	250	500,000
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	190	500,000
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	130,000
Ethylbenzene	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND	1,000	390,000
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	930	500,000
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	500,000
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Tetrachloroethene	ND	ND	ND	3.5 J	1.7 J	2,570	3.2 J	ND	ND	1,300	150,000
Toluene	0.50 J	ND	ND	ND	0.63 J	2	ND	ND	ND	700	500,000
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	680	500,000
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Trichloroethene	ND	ND	ND	1.0 J	1.1 J	24.9	1.2 J	ND	ND	470	200,000
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	13,000
m,p-Xylene	ND	ND	ND	ND	ND	0.69 J	ND	ND	ND	260	500,000
o-Xylene	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	260	500,000
Xylene (total)	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	260	500,000

Notes:
SCB-XX Sample is a duplicate of SCB-5
ug/Kg - micrograms per kilogram or parts per billion
ND - Not detected at or above laboratory detection limits
NVG - No Value Given
U- The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J - Estimated Value
R - The sample result is unreliable/unusable. The presence or absence of the analyte can not be verified.
FB - Field Blank
bold and boxed = concentration above Part 375 unrestricted use SCO

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
Table 375-6.8(b):Commercial Use Soil Cleanup Objectives

Table 2
Analytical Results for Semi-Volatile Organic Compounds In Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID	SCB-2 (20-22)	SCB-3 (20-21)	SCB-4 (19-15)	SCB-5 (4-5) SS	SCB-6 (1.5-3.5) SS	SCB-7 (SUB-SLAB)	SCB-XX	*Part 375	**Part 375
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Restricted	Commercial
Date Sampled	4/24/2012	4/24/2012	4/24/2012	4/26/2012	4/26/2012	4/24/2012	4/26/2012	Use	
Semi-Volatile Organic Compounds	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2-Chlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Chloro-3-methyl phenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dichlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dimethylphenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dinitrophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4,6-Dinitro-o-cresol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Methylphenol	NA	NA	ND	ND	NA	NA	ND	330	500,000
3&4-Methylphenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Nitrophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Nitrophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Pentachlorophenol	NA	NA	ND	ND	NA	NA	ND	800	6,700
Phenol	NA	NA	ND	ND	NA	NA	ND	330	500,000
2,3,4,6-Tetrachlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4,5-Trichlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4,6-Trichlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Acenaphthene	NA	NA	ND	ND	NA	NA	ND	20,000	500,000
Acenaphthylene	NA	NA	ND	ND	NA	NA	ND	100,000	500,000
Acetophenone	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Anthracene	NA	NA	ND	ND	NA	NA	ND	100,000	500,000
Atrazine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Benzo(a)anthracene	NA	NA	52.3	23.1 J	NA	NA	22.0 J	1,000	5,600
Benzo(a)pyrene	NA	NA	54.7	16.2 J	NA	NA	ND	1,000	1,000
Benzo(b)fluoranthene	NA	NA	57.5	ND	NA	NA	ND	1,000	5,600
Benzo(g,h,i)perylene	NA	NA	41.8	ND	NA	NA	ND	100,000	500,000
Benzo(k)fluoranthene	NA	NA	37.1	ND	NA	NA	ND	800	56,000
4-Bromophenyl phenyl ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Butyl benzyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
1,1'-Biphenyl	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Benzaldehyde	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Chloronaphthalene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Chloroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Carbazole	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Caprolactam	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Chrysene	NA	NA	49.9	18.9 J	NA	NA	19.2 J	1,000	56,000
bis(2-Chloroethoxy)methane	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
bis(2-Chloroethyl)ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
bis(2-Chloroisopropyl)ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Chlorophenyl phenyl ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dinitrotoluene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,6-Dinitrotoluene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
3,3'-Dichlorobenzidine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Dibenzo(a,h)anthracene	NA	NA	ND	ND	NA	NA	ND	330	560
Dibenzofuran	NA	NA	ND	ND	NA	NA	ND	7,000	350,000
Di-n-butyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Di-n-octyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Diethyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Dimethyl phthalate	NA	NA	102	165	NA	NA	160	NVG	NVG
bis(2-Ethylhexyl)phthalate	NA	NA	ND	49.1 J	NA	NA	ND	NVG	NVG
Fluoranthene	NA	NA	65	31.6 J	NA	NA	33.3 J	100,000	500,000
Fluorene	NA	NA	ND	ND	NA	NA	ND	30,000	500,000
Hexachlorobenzene	NA	NA	ND	ND	NA	NA	ND	330	6,000
Hexachlorobutadiene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Hexachlorocyclopentadiene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Hexachloroethane	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Indeno(1,2,3-cd)pyrene	NA	NA	36	ND	NA	NA	ND	500	5,600
Isophorone	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Methylnaphthalene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Nitroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
3-Nitroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Nitroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Naphthalene	NA	NA	ND	ND	NA	NA	ND	12,000	500,000
Nitrobenzene	NA	NA	ND	ND	NA	NA	ND	NVG	69,000
N-Nitroso-di-n-propylamine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
N-Nitrosodiphenylamine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Phenanthrene	NA	NA	ND	ND	NA	NA	ND	100,000	500,000
Pyrene	NA	NA	78.9	34.3	NA	NA	35.5 J	100,000	500,000
1,2,4,5-Tetrachlorobenzene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG

SCB-XX - Sample is a duplicate of SCB-5

NA - No Analyzed

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value

FB - Field Blank

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(b):Commercial Use Soil Cleanup Objectives

TABLE 3

Analytical Results for Pesticides In Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID Matrix Date Sampled	SCB-2 (20-22) Soil 4/24/2012	SCB-3 (20-21) Soil 4/24/2012	SCB-4 (10-15) Soil 4/24/2012	SCB-5 (4-5) SS Soil 4/26/2012	SCB-6 (1.5-3.5) SSS Soil 4/26/2012	SCB-7 (SUB-SLAB) Soil 4/24/2012	SCB-XX Soil 4/26/2012	*Part 375 Unrestricted Use	**Part 375 Commercial
Pesticides									
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aldrin	NA	NA	ND	ND	NA	NA	ND	5	680
alpha-BHC	NA	NA	ND	ND	NA	NA	ND	20	3,400
beta-BHC	NA	NA	ND	ND	NA	NA	ND	36	3,000
delta-BHC	NA	NA	ND	ND	NA	NA	ND	40	500,000
gamma-BHC (Lindane)	NA	NA	ND	ND	NA	NA	ND	100	9,200
alpha-Chlordane	NA	NA	2	0.9	NA	NA	ND	94	24,000
gamma-Chlordane	NA	NA	1.8	0.91	NA	NA	ND	NVG	NVG
Dieldrin	NA	NA	ND	ND	NA	NA	ND	5	1,400
4,4'-DDD	NA	NA	ND	20.3	NA	NA	19.2	3	92,000
4,4'-DDE	NA	NA	ND	3.7	NA	NA	3.6	3	62,000
4,4'-DDT	NA	NA	ND	1.9	NA	NA	6.5 a	3	47,000
Endrin	NA	NA	ND	ND	NA	NA	ND	14	89,000
Endosulfan sulfate	NA	NA	ND	ND	NA	NA	ND	2,400	200,000
Endrin aldehyde	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Endosulfan-I	NA	NA	ND	ND	NA	NA	ND	2,400	200,000
Endosulfan-II	NA	NA	ND	ND	NA	NA	ND	2,400	200,000
Heptachlor	NA	NA	ND	ND	NA	NA	ND	42	15,000
Heptachlor epoxide	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Methoxychlor	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Endrin ketone	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Toxaphene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG

Notes:

SCB-XX- Sample is a duplicate of SCB-5

a - Reported from a second signal for confirmation

ug/Kg - micrograms per kilogram or parts per billion

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value

FB - Field Blank

NA - Not Analyzed

bold & boxed = above Part 375 unrestricted use SCO

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(b):Commercial Use Soil Cleanup Objectives

Table 4

**Analytical Results for PCBs In Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York**

Sample ID	SCB-2 (20-22)	SCB-3 (20-21)	SCB-4 (10-15)	SCB-5 (4-5) SS	SCB-6 (1.5-3.5) SSS	SCB-7 (SUB-SLAB)	SCB-XX	*Part 375	**Part 375
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Unrestricted	Commercial
Date Samples	4/24/2012	4/24/2012	4/24/2012	4/26/2012	4/26/2012	4/24/2012	4/26/2012	Use	Use
PCBs									
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1221	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1232	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1242	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1248	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1254	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1260	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1268	NA	NA	ND	ND	NA	NA	ND	100	1,000
Aroclor 1262	NA	NA	ND	ND	NA	NA	ND	100	1,000
SCB-XX- Sample is a duplicate of SCB-5 NA - Not Analyzed ug/Kg - micrograms per kilogram or parts per billion ND - Not detected at or above laboratory detection limits NVG - No Value Given J - Estimated Value FB - Field Blank *6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6; Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives **6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6; Table 375-6.8(b): Commercial Use Soil Cleanup Objectives									

TABLE 5
Analytical Results for Metals In Soil
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID Matrix Date Sampled	SCB-2 (20-22) Soil 4/24/2012	SCB-3 (20-21) Soil 4/24/2012	SCB-4 (10-15) Soil 4/24/2012	SCB-5 (4-5) SS Soil 4/26/2012	SCB-6 (1.5-3.5) SS Soil 4/26/2012	SCB-7 (SUB-SLAB) Soil 4/24/2012	SCB-XX Soil 4/26/2012	*Part 375 Unrestricted Use	**Part 375 Commercial Use
Metals									
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	NA	NA	4,940	4,620	NA	NA	5,300	NVG	NVG
Antimony	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Arsenic	NA	NA	ND	ND	NA	NA	ND	13	16
Barium	NA	NA	48.8	29.8	NA	NA	35	350	400
Beryllium	NA	NA	0.25	0.22	NA	NA	0.26	7	590
Cadmium	NA	NA	ND	ND	NA	NA	ND	3	9.3
Calcium	NA	NA	1,320	1,590	NA	NA	3,450	NVG	NVG
Chromium	NA	NA	14.8	14	NA	NA	16	NVG	NVG
Cobalt	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Copper	NA	NA	12.9	9.6	NA	NA	11	50	270
Iron	NA	NA	9,230	9,030	NA	NA	10,200	NVG	NVG
Lead	NA	NA	10.3	9.2	NA	NA	10	63	1000
Magnesium	NA	NA	1,720	1,740	NA	NA	1,910	NVG	NVG
Manganese	NA	NA	195	163	NA	NA	187	1,600	10,000
Mercury	NA	NA	0.052	ND	NA	NA	0.05	0.18	2.8
Nickel	NA	NA	19.7	20.3	NA	NA	24	30	310
Potassium	NA	NA	1,210	1,230	NA	NA	1,260	NVG	NVG
Selenium	NA	NA	ND	ND	NA	NA	ND	4	1,500
Silver	NA	NA	ND	ND	NA	NA	ND	2	1,500
Sodium	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Thallium	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Vanadium	NA	NA	14.1	13.3	NA	NA	14	NVG	NVG
Zinc	NA	NA	17.8	19.2	NA	NA	22	109	10,000

Notes:
SCB-XX- Sample is a duplicate of SCB-5
mg/kg - milligrams per kilogram or parts per million
ND - Not detected at or above laboratory detection limits
NVG - No Value Given
J - Estimated Value
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limits.
FB - Field Blank
NA- Not Analyzed

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
Table 375-6.8(b):Commercial Use Soil Cleanup Objectives

Table 6									
Analytical Results for Volatile Organic Compounds In Groundwater									
Former Belle Cleaners									
40 Purchase Street									
Rye, NY									
Sample ID	MW-1	MW-2	MW-3a	MW-4a	MW-XX**	Field Blank	Trip Blank	NYSDEC	
Matrix	groundwater	groundwater	groundwater	groundwater	groundwater	liquid	liquid	TOGS*	
Date Sampled	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012		
Volatile Organic Compounds									
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	50
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	NS
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	19.1	22.4	4.6	6.4	60	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS
Cyclohexane	1.6 J	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	50
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichlorobenzene	ND	8.6	ND	ND	2.6	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	2.9	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	1.5	3.6	ND	ND	2.9	ND	ND	ND	0.6
1,1-Dichloroethene	ND	2.7	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	3.5	121	1.5	136	47.6	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	14.4	ND	5.0	ND	ND	ND	ND	5
1,2-Dichloropropane	2.6	ND	ND	ND	5.1	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	0.4
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	NS
Ethylbenzene	ND	ND	ND	ND	1.3	ND	ND	ND	5
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	NS
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	50
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methyl Tert Butyl Ether	0.72 J	ND	ND	ND	ND	ND	ND	ND	NS
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	930
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	8.9	4,230	17.6	107	4,570 J	ND	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	0.78 J	101	1.1	26.7	27.1	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	31.7	ND	14.7	2.3	ND	ND	ND	2
m,p-Xylene	ND	ND	ND	ND	0.88 J	ND	ND	ND	NS
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	NS
Xylene (total)	ND	ND	ND	ND	0.88 J	ND	ND	ND	5

Notes:
ug/L - micrograms per liter or parts per billion
ND - Not detected at or above laboratory detection limits
NS - No Standard
J - Estimated Value
JJ - Reported quantitation limit is approximate

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations; June 1998
** MW-XX is a duplicate of MW-2
R- the presence or absence of the analyte cannot be verified due to quality control criteria

Boxed and bold indicates exceedance groundwater standards or guidance values

Table 7								
Analytical Results for Semi-Volatile Organic Compounds In Groundwater								
Former Belle Cleaners								
40 Purchase Street								
Rye, NY								
Sample ID	MW-1A	MW-2	MW-3A	MW-4A	MW-XX**	Field Blank	Trip Blank	NYSDEC
Matrix	groundwater	groundwater	groundwater	groundwater	groundwater	liquid	liquid	TOGS*
Date Sampled	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	
Semi-Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-Chlorophenol	ND	NA	NA	ND	NA	ND	NA	2
4-Chloro-3-methyl phenol	ND	NA	NA	ND	NA	ND	NA	2
2,4-Dichlorophenol	ND	NA	NA	ND	NA	ND	NA	2
2,4-Dimethylphenol	ND	NA	NA	ND	NA	ND	NA	2
2,4-Dinitrophenol	ND	NA	NA	ND	NA	ND	NA	2
4,6-Dinitro-o-cresol	ND	NA	NA	ND	NA	ND	NA	NS
2-Methylphenol	ND	NA	NA	ND	NA	ND	NA	2
3&4-Methylphenol	ND	NA	NA	ND	NA	ND	NA	2
2-Nitrophenol	ND	NA	NA	ND	NA	ND	NA	2
4-Nitrophenol	ND	NA	NA	ND	NA	ND	NA	2
Pentachlorophenol	ND	NA	NA	ND	NA	ND	NA	2
Phenol	ND	NA	NA	ND	NA	ND	NA	2
2,3,4,6-Tetrachlorophenol	ND	NA	NA	ND	NA	ND	NA	2
2,4,5-Trichlorophenol	ND	NA	NA	ND	NA	ND	NA	2
2,4,6-Trichlorophenol	ND	NA	NA	ND	NA	ND	NA	2
Acenaphthene	ND	NA	NA	ND	NA	ND	NA	20
Acenaphthylene	ND	NA	NA	ND	NA	ND	NA	20
Acetophenone	ND	NA	NA	ND	NA	ND	NA	NS
Anthracene	ND	NA	NA	ND	NA	ND	NA	50
Atrazine	ND	NA	NA	ND	NA	ND	NA	7.5
Benzaldehyde	ND	NA	NA	ND	NA	ND	NA	NS
Benzo(a)anthracene	ND	NA	NA	ND	NA	ND	NA	0.002
Benzo(a)pyrene	ND	NA	NA	ND	NA	ND	NA	NS
Benzo(b)fluoranthene	ND	NA	NA	ND	NA	ND	NA	0.002
Benzo(g,h,i)perylene	ND	NA	NA	ND	NA	ND	NA	5
Benzo(k)fluoranthene	ND	NA	NA	ND	NA	ND	NA	0.002
1,1'-Biphenyl	ND	NA	NA	ND	NA	ND	NA	5
4-Bromophenyl phenyl ether	ND	NA	NA	ND	NA	ND	NA	NS
Butyl benzyl phthalate	ND	NA	NA	ND	NA	ND	NA	50
Caprolactam	ND	NA	NA	ND	NA	ND	NA	NS
2-Chloronaphthalene	ND	NA	NA	ND	NA	ND	NA	NS
4-Chloroaniline	ND	NA	NA	ND	NA	ND	NA	5
Carbazole	ND	NA	NA	ND	NA	ND	NA	29
Chrysene	ND	NA	NA	ND	NA	ND	NA	0.002
bis(2-Chloroethoxy)methane	ND	NA	NA	ND	NA	ND	NA	NS
bis(2-Chloroethyl)ether	ND	NA	NA	ND	NA	ND	NA	NS
bis(2-Chloroisopropyl)ether	ND	NA	NA	ND	NA	ND	NA	NS
4-Chlorophenyl phenyl ether	ND	NA	NA	ND	NA	ND	NA	NS
2,4-Dinitrotoluene	ND	NA	NA	ND	NA	ND	NA	5
2,6-Dinitrotoluene	ND	NA	NA	ND	NA	ND	NA	5
3,3'-Dichlorobenzidine	ND	NA	NA	ND	NA	ND	NA	5
Dibenzo(a,h)anthracene	ND	NA	NA	ND	NA	ND	NA	50
Dibenzofuran	ND	NA	NA	ND	NA	ND	NA	5
Di-n-butyl phthalate	ND	NA	NA	ND	NA	ND	NA	50
Di-n-octyl phthalate	ND	NA	NA	ND	NA	ND	NA	50
Diethyl phthalate	0.37 J	NA	NA	0.27 J	NA	0.24 J	NA	50
Dimethyl phthalate	ND	NA	NA	ND	NA	ND	NA	50
bis(2-Ethylhexyl)phthalate	ND	NA	NA	ND	NA	ND	NA	NS
Fluoranthene	ND	NA	NA	ND	NA	ND	NA	50
Fluorene	ND	NA	NA	ND	NA	ND	NA	50
Hexachlorobenzene	ND	NA	NA	ND	NA	ND	NA	0.04
Hexachlorobutadiene	ND	NA	NA	ND	NA	ND	NA	0.5
Hexachlorocyclopentadiene	ND	NA	NA	ND	NA	ND	NA	5
Hexachloroethane	ND	NA	NA	ND	NA	ND	NA	5
Indeno(1,2,3-cd)pyrene	ND	NA	NA	ND	NA	ND	NA	0.002
Isophorone	ND	NA	NA	ND	NA	ND	NA	50
2-Methylnaphthalene	ND	NA	NA	ND	NA	ND	NA	50
2-Nitroaniline	ND	NA	NA	ND	NA	ND	NA	5
3-Nitroaniline	ND	NA	NA	ND	NA	ND	NA	5
4-Nitroaniline	ND	NA	NA	ND	NA	ND	NA	5
Naphthalene	ND	NA	NA	ND	NA	ND	NA	10
Nitrobenzene	ND	NA	NA	ND	NA	ND	NA	0.4
N-Nitroso-di-n-propylamine	ND	NA	NA	ND	NA	ND	NA	NS
N-Nitrosodiphenylamine	ND	NA	NA	ND	NA	ND	NA	50
Phenanthrene	ND	NA	NA	ND	NA	ND	NA	50
Pyrene	ND	NA	NA	ND	NA	ND	NA	50
1,2,4,5-Tetrachlorobenzene	ND	NA	NA	ND	NA	ND	NA	5

notes:

NA-Not Analyzed

ND - Not detected at or above laboratory detection limits

NS - No Standard

J - Estimated Value

UJ - Reported quantitation limit is approximate

*NYSDEC Technical and Operational Guidance Series (1.1.1)

Ambient Water Quality Standards and Guidance Values

and Groundwater Effluent Limitations; June 1998

** MW-XX is a duplicate of MW-2

Boxed and bold indicates exceedance of groundwater standards or guidance values

Table 8

Analytical Results for Pesticides and PCB's In Groundwater
Former Belle Cleaners
40 Purchase Street
Rye, NY

Sample ID	MW-1A	MW-2	MW-3A	MW-4A	MW-XX**	Field Blank	Trip Blank	NYSDEC
Matrix	groundwater	groundwater	groundwater	groundwater	groundwater	liquid	liquid	TOGS*
Date Sampled	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	
PCBs								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2,4-D	ND	NA	NA	ND	NA	ND	NA	NS
Aldrin	ND	NA	NA	ND	NA	ND	NA	NS
alpha-BHC	ND	NA	NA	ND	NA	ND	NA	NS
2,4,5-TP (Silvex)	ND	NA	NA	ND	NA	ND	NA	NS
beta-BHC	ND	NA	NA	ND	NA	ND	NA	NS
2,4,5-T	ND	NA	NA	ND	NA	ND	NA	NS
Dalapon	ND	NA	NA	ND	NA	ND	NA	50
delta-BHC	ND	NA	NA	ND	NA	ND	NA	NS
Dicamba	ND	NA	NA	ND	NA	ND	NA	0.44
Dichloroprop	ND	NA	NA	ND	NA	ND	NA	NS
gamma-BHC (Lindane)	ND	NA	NA	ND	NA	ND	NA	NS
Dinoseb	ND	NA	NA	ND	NA	ND	NA	2
MCPA	ND	NA	NA	ND	NA	ND	NA	NS
MCPP	ND	NA	NA	ND	NA	ND	NA	NS
Pentachlorophenol	0.18	NA	NA	0.15	NA	ND	NA	2
2,4-DB	ND	NA	NA	ND	NA	ND	NA	NS
alpha-Chlordane	ND	NA	NA	0.08	NA	ND	NA	NS
gamma-Chlordane	ND	NA	NA	0.066	NA	ND	NA	NS
Dieldrin	ND	NA	NA	ND	NA	ND	NA	0.004
4,4'-DDD	ND	NA	NA	ND	NA	ND	NA	0.3
4,4'-DDE	ND	NA	NA	ND	NA	ND	NA	0.2
4,4'-DDT	ND	NA	NA	ND	NA	ND	NA	0.2
Endrin	ND	NA	NA	ND	NA	ND	NA	NS
Endosulfan sulfate	ND	NA	NA	ND	NA	ND	NA	NS
Endrin aldehyde	ND	NA	NA	ND	NA	ND	NA	5
Endrin ketone	ND	NA	NA	ND	NA	ND	NA	5
Endosulfan-I	ND	NA	NA	ND	NA	ND	NA	NS
Endosulfan-II	ND	NA	NA	ND	NA	ND	NA	NS
Heptachlor	ND	NA	NA	ND	NA	ND	NA	0.04
Heptachlor epoxide	ND	NA	NA	ND	NA	ND	NA	0.03
Methoxychlor	ND	NA	NA	ND	NA	ND	NA	35
Toxaphene	ND	NA	NA	ND	NA	ND	NA	0.06
Aroclor 1016	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1221	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1232	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1242	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1248	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1254	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1260	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1262	ND	NA	NA	ND	NA	ND	NA	0.1
Aroclor 1268	ND	NA	NA	ND	NA	ND	NA	0.1

Notes:

ug/L - micrograms per liter or parts per billion

ND - Not detected at or above laboratory detection limits

NA - Not Analyzed

NS - No Standard

J - Estimated Value

*NYSDEC Technical and Operational Guidance Series (1.1.1)

Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations; June 1998

** MW-XX is a duplicate of MW-2

**Table 9
Analytical Results for Metals In Groundwater**

Former Belle Cleaners
40 Purchase Street
Rye, NY

Sample ID	MW-1A	MW-2	MW-3A	MW-4A	MW-XX**	Field Blank	Trip Blank	NYSDEC
Matrix	groundwater	groundwater	groundwater	groundwater	groundwater	liquid	liquid	TOGS*
Date Sampled	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	
Total Metals								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aluminum	1,090	NA	NA	13,800	NA	<200	NA	2,000
Antimony	<6.0	NA	NA	<6.0	NA	<6.0	NA	6
Arsenic	5.9	NA	NA	<3.0	NA	<3.0	NA	50
Barium	466	NA	NA	248	NA	<200	NA	2,000
Beryllium	<1.0	NA	NA	<1.0	NA	<1.0	NA	3
Cadmium	<3.0	NA	NA	<3.0	NA	<3.0	NA	10
Calcium	128,000	NA	NA	161,000	NA	<5000	NA	NS
Chromium	<10	NA	NA	26.4	NA	<10	NA	100
Cobalt	<50	NA	NA	<50	NA	<50	NA	NS
Copper	<10	NA	NA	36	NA	<10	NA	1,000
Iron	23,700	NA	NA	18,800	NA	<100	NA	600
Lead	3.9	NA	NA	23.1	NA	<3.0	NA	50
Magnesium	26,000	NA	NA	29,800	NA	<5000	NA	35,000
Manganese	6,080	NA	NA	1,420	NA	<15	NA	600
Mercury	<0.20	NA	NA	<0.20	NA	<0.20	NA	1.4
Nickel	<10	NA	NA	43.1	NA	<10	NA	200
Potassium	<10000	NA	NA	15,600	NA	<10000	NA	NS
Selenium	<10	NA	NA	<10	NA	<10	NA	20
Silver	<10	NA	NA	<10	NA	<10	NA	100
Sodium	472,000	NA	NA	635,000	NA	<10000	NA	NS
Thallium	<2.0	NA	NA	<2.0	NA	<2.0	NA	0.5
Vanadium	<50	NA	NA	<50	NA	<50	NA	NS
Zinc	<20	NA	NA	56.4	NA	<20	NA	5,000

Notes:

ug/L - micrograms per liter or parts per billion

ND - Not detected at or above laboratory detection limits

NS - No Standard

J - Estimated Value

NA - Not Analyzed

*NYSDEC Technical and Operational Guidance Series (1.1.1)

Ambient Water Quality Standards and Guidance Values

and Groundwater Effluent Limitations; June 1998

** MW-XX is a duplicate of MW-2

R- the presence or absence of the analyte cannot be verified

Boxed and bold indicates exceedance of groundwater standards or guidance values

TABLE 10

**Summary of Analytical Detections for
Indoor and Outside Ambient Air Samples
Former Belle Cleaners
40 Purchase Street
Rye, NY**

Sample ID	SCAS-1	SCAS-2	SCAS-3	SCAS-4	NYSDOH
Matrix	Indoor Air	Indoor Air	Indoor Air	Outside Ambient Air	Ambient Air
Date Sampled	12/13/2010	12/13/2010	12/13/2010	12/13/2010	
Location					Matrix Value*
Method					
EPA TO-15					
<u>Parameters</u>	<u>ug/m³</u>	<u>ug/m³</u>	<u>ug/m³</u>	<u>ug/m³</u>	<u>ug/m³</u>
Acetone	9.75	14.74	14.74	2.85	NGV
Ethyl alcohol	101.68	111.10	96.03	5.65	NGV
Isopropyl Alcohol	39.28	41.74	39.28	ND	NGV
Methylene Chloride	ND	ND	ND	6.60	60
Tetrachloroethene	45.46	38.00	52.92	ND	100
Toluene	9.79	11.30	11.30	ND	NGV
Trichloroethene	ND	ND	2.20	ND	5

Notes:

*NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York; October 2006

NGV = No Given Value

All concentrations are reported in micrograms per cubic meter (ug/m³)

ND = Compound was analyzed for but was not detected



APPENDIX A
Boring Logs and Well Construction Details

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **40 Purchase Street**
 SITE LOCATION: **Rye, NY**
 JOB NO.: **Belle Cleaners**
 LOGGED BY: **Mike Yager**
 PROJECT MANAGER: **Richard Izzo**
 DATES DRILLED: **4/24/12**

DRILLING CO.: **Aarco**
 DRILLER: **John and John**
 RIG TYPE: **Geoprobe**
 METHOD OF DRILLING: **Direct Push**
 SAMPLING METHODS: **Soil Sleeves**
 HAMMER WT./DROP

∞ Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Brown dark fine silty sand				
		Tan fine silty sand			0	
		Brown silty sand			0	
		Tan to red fine sand with silt			0	
5		Tan and brown fine sand			0	
		Brown banded fine/medium sand			0	
10		Brown, tan, orange fine/medium sand with some silt			0	
					Push	
					0	
15		Grey, black medium to coarse sand with silt			0	
					0	
20		Grey fine to medium sand with some silt and cobbles		SCB-2(20'-22')		
		Bedrock				

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	40 Purchase Street	DRILLING CO.:	Aarco
SITE LOCATION:	Rye, NY	DRILLER:	John and John
JOB NO.:	Belle Cleaners	RIG TYPE:	Geoprobe
LOGGED BY:	Mike Yager	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Richard Izzo	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	4/24/12	HAMMER WT./DROP	NA

∞ Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan to brown fine silty sand			0	
5		Tan, orange, brown banded medium to fine sand with some gravel			0	
10		Tan to orange medium to fine sand			0	
15		Gray to black medium sand with some silt			0	
20		Dark gray to gray fine sand saturated with some cobbles			0	
20		Dark gray to gray medium to fine sand with some cobbles		SCB-3(20'-21')	0	
		Bedrock				

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **40 Purchase Street**
 SITE LOCATION: **Rye, NY**
 JOB NO.: **Belle Cleaners**
 LOGGED BY: **Mike Yager**
 PROJECT MANAGER: **Richard Izzo**
 DATES DRILLED: **4/24/12**

DRILLING CO.: **Aarco**
 DRILLER: **John and John**
 RIG TYPE: **Geoprobe**
 METHOD OF DRILLING: **Direct Push**
 SAMPLING METHODS: **Soil Sleeves**
 HAMMER WT./DROP: **NA**

∞ Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Brown fine silty sand				0
		Tan to brown fine sand				0
5		Tan, orange, brown medium to fine sand with some gravel				0
		Banded tan to orange medium to fine sand				0
10		Black medium to coarse sand			Push	0
		Brown to tan medium to coarse sand		SCB-4(10'-15')		0
		Tan to brown fine silty sand				11.9
15		Brown coarse sand				0
		Tan fine silty sand				0
		Coarse sand				0
20		Overburden with gravel and bedrock				0

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **MW-3a (SCB-5)**

TOTAL DEPTH: **6 feet**

PROJECT INFORMATION

PROJECT: **40 Purchase St**
 SITE LOCATION: **Rye, NY**
 JOB NO.: **Belle Cleaners**
 LOGGED BY: **Mike Yager**
 PROJECT MANAGER: **Richard Izzo**
 DATES DRILLED: **4/26/12**

DRILLING INFORMATION

DRILLING CO.: **Aarco**
 DRILLER: **John and John**
 RIG TYPE: **Hand Auger/Post Hole**
 METHOD OF DRILLING: **NA**
 SAMPLING METHODS: **Hand Auger/Post Hole**
 HAMMER WT./DROP: **NA**

∇ Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Brown, tan, orange medium to coarse sand with some fine sandy silt					
1							
2							
3							
4			SCB-5(4'-5')				
5							
6		Bedrock encountered at approximately 5.5 feet	No Recovery				

NOTES:

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **MW-4a (SCB-6)**

TOTAL DEPTH: **4 feet**

PROJECT INFORMATION

PROJECT: **40 Purchase St**
 SITE LOCATION: **Rye, NY**
 JOB NO.: **Belle Cleaners**
 LOGGED BY: **Mike Yager**
 PROJECT MANAGER: **Richard Izzo**
 DATES DRILLED: **4/26/12**

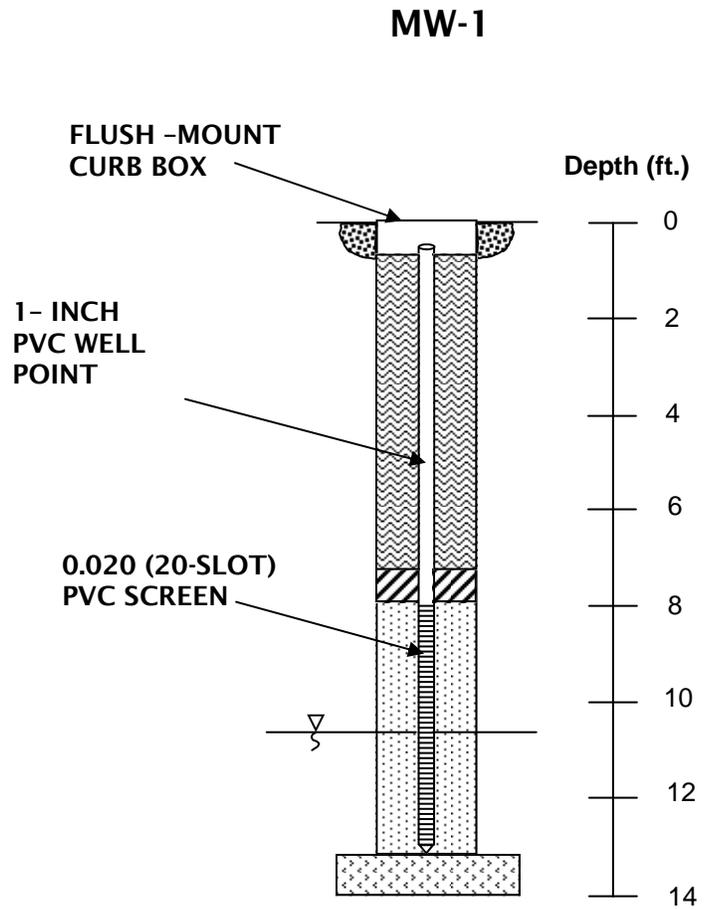
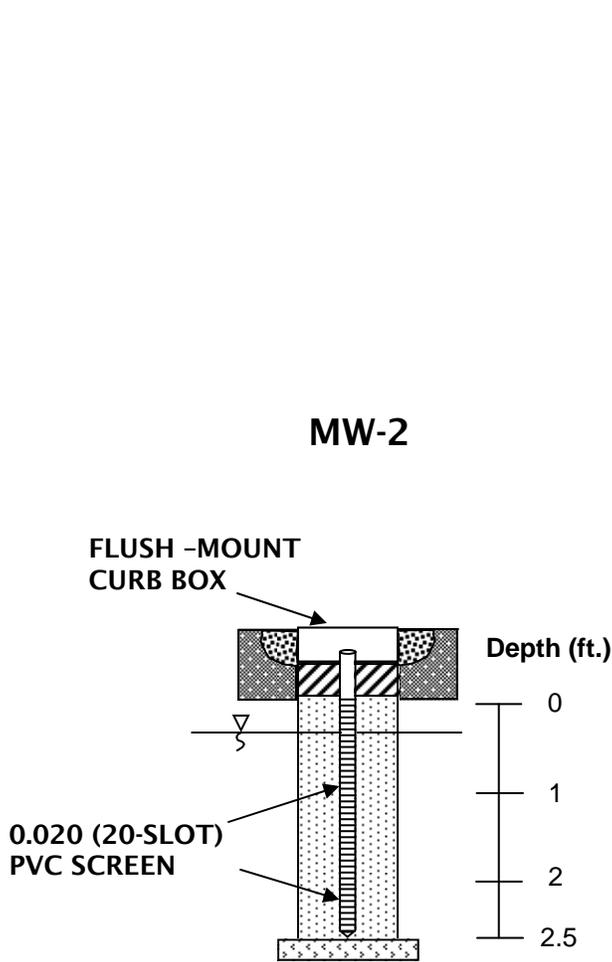
DRILLING INFORMATION

DRILLING CO.: **Aarco**
 DRILLER: **John and John**
 RIG TYPE: **Hand Auger/Post Hole**
 METHOD OF DRILLING: **NA**
 SAMPLING METHODS: **Hand Auger/Post Hole**
 HAMMER WT./DROP: **NA**

∞ Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Gravel					
1		Green to gray medium to coarse sand					
2		Rust to red medium to coarse sand and some gravel and chunks of rock					
			SCB-6(1.5'-3.5')	Push			
3							
4		Bedrock					

NOTES:



LEGEND

	CEMENT		BEDROCK
	BENTONITE		FLOOR / SLAB
	NO. 2 MORIE SAND		
	CEMENT/BENTONITE GROUT		



CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

**WELL CONSTRUCTION DETAILS
(Wells installed in 2005)**

DATE:

1/10/13

SCALE:

AS SHOWN

FIGURE:

3

**Former Belle Cleaners
40 Purchase Street
Rye, NY**

DRAWN BY:

STM

APPR. BY:

RJI

DRAWING:

APPENDIX B
Data Usability Summary Report

**DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY**

ORGANIC/INORGANIC ANALYSES

**TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS
TARGET COMPOUND LIST (TCL) SEMIVOLATILES BY GC/MS
TARGET COMPOUND LIST (TCL) PESTICIDES BY GC
PCBs BY GC
TARGET ANALYTE LIST (TAL) METALS BY ICP/CV**

**For Soil Samples Collected
April 24, 2012 and April 26, 2012
From 40 Purchase Street, Rye, NY
Belle Cleaners
Collected by CA Rich Consultants**

**SAMPLE DELIVERY GROUP NUMBER:
JB5134
BY ACCUTEST LABORATORIES (ELAP #10983)**

SUBMITTED TO:

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Belle Cleaners, 40 Purchase Street, Rye, NY -- Soil Samples; April 2012 Sampling Event
Data Usability Summary Report (Data Validation): TCL Volatiles, TCL Semivolatiles, TCL
Pesticides, PCBs and TAL Metals.

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Introduction:

A validation was performed on soil samples and the associated quality control samples for organic/inorganic analysis for samples collected under chain of custody documentation by CA Rich Consultants and submitted to Accutest Laboratories for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The soil samples were collected on April 24, 2012 and April 26, 2012.

The samples were analyzed by Accutest Laboratories, utilizing SW846 Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte Lists for Volatile Organics, Semivolatile Organics, Pesticides, PCBs and TAL Metals.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review (October 2006) and EPA Region II SOPs for 8260, 8270, 8081, 8082 and Metals (August 2008 with 2009 updates) and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following samples:

Sample Identification	Laboratory Identification	Sample Matrix	Date Collected	Date Received
SCB-2 (20-22) plus MS/MSD	JB5134-1, JB5134-1D, JB5134-1S	Soil	04/24/12	04/27/12
SCB-3 (20-21)	JB5134-2	Soil	04/24/12	04/27/12
SCB-4 (10-15)	JB5134-3	Soil	04/24/12	04/27/12
SCB-5 (4-5') SS	JB5134-4	Soil	04/26/12	04/27/12
SCB-6 (1.5-3.5) SS	JB5134-5	Soil	04/26/12	04/27/12
SCB-7 (Sub-Slab)	JB5134-6	Soil	04/24/12	04/27/12
SCB-XX (Field Duplicate of SCB-5 (4-5') SS	JB5134-7	Soil	04/26/12	04/27/12
FB 4/26/12	JB5134-8	Aqueous	04/26/12	04/27/12
TB 4/26/12	JB5134-9	Aqueous	04/26/12	04/27/12

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

Sample Receipt:

The Chain of Custody document indicates that the samples were received at Accutest Laboratories via Federal Express on 04/27/12 upon completion of the sampling event. Sample login notes were generated. The cooler temperature for all sample receipts were recorded upon receipt at Accutest Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the chain of custody document in addition to the case narratives provided in Appendix A and B of this report.

No problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report. All data validation qualifications have been reported in the excel spreadsheet in bold for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects of Methyl Acetate and 1,1,2,2-Tetrachloroethane in SCB-7 (Sub Slab) due to low/non-recoverable MS/MSD values and non-detects for 2-Butanone and Acetone in soil samples SCB-2 (20-22), SCB-3 (20-21), SCB-5 (4-5') SS, SCB-6 (1.5-3.5) SS and SCB-XX due to low initial and/or continuing calibration response factors as noted within the following as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG with the exception of Dibromofluoromethane that recovered low (66%) in sample SCB-7 (Sub Slab). This sample was reanalyzed as required by the laboratory at a high level dilution due to high Tetrachloroethene concentrations and acceptable recovery values were obtained for reanalysis with reduced matrix effects. This sample was also analyzed as part of an MS/MSD series and these runs resulted in low Dibromofluoromethane recoveries as well thus confirming a matrix effect.

As a result all samples quantitated in this surrogate range (early eluting compounds) must be considered estimated, biased low, "J/UJ" for this sample.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence and were spiked with all components as required by the analytical procedure. Site-specific MS/MSD was conducted on SCB-2 (20-22) as requested on the chain of custody document. All recoveries and RPD met QC requirements for this MS/MSD pair.

Additionally, SCB-7 (Sub Slab) was selected by the laboratory for MS/MSD analysis. Methyl Acetate was not recoverable in the MS or MSD. Non-detects in SCB-7 (Sub Slab) have been rejected, "R" for this compound. 1,1,2,2-Tetrachloroethane also recovered low at respective recoveries of 2% in the MS and 2% in the MSD. Again, non-detects for this analyte in sample SCB-7 (Sub Slab) must be considered unreliable and have been rejected, "R." Trichloroethene recovered high in the MS (174%) and also in the MSD (197%). This analyte was not detected in the original unspiked sample.

No qualifications to the data are required for non-detected compounds since no potential loss of detection occurs with high recovery values. Since this compound was not detected in any of the soil field samples no qualifications to the data was required.

Based on professional judgment, no qualifications to the data were made for non site specific QC.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each sequence. Recovery values were acceptable with the exceptions of:

VX5437-BS – Bromomethane – 162%; applicable to sample SCB-7 (Sub Slab). No qualifications to the data are required since this compound was not found in this field sample.

V1A4975-BS – Bromomethane – 145%; applicable to sample TB 4/26/12 (Trip Blank). No qualifications to the data are required since this compound was not found in this sample.

V1A4977-BS – Bromomethane – 152% and Chloroethane – 138%; applicable to sample FB 4/26/12 (Field Blank). No qualifications to the data are required since these compounds were not found in this sample.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but $\leq 10x$ blank value	Sample Conc. is <CRQL and $\leq 10x$ blank value	Sample Conc. is >CRQL and $> 10x$ blank value
Other Contaminants	Sample Conc. Is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

No target analytes were detected in the method blanks associated with sample analysis.

B) **Field Blank Contamination:**

Cis 1,2-Dichloroethene was detected at acceptable levels (0.52 ug/L) in the Field Blank associated with soil samples. Sample results were evaluated based on the above criteria and the laboratory reported presence of this compound in SCB-5 (4-5' SS) and SCB-XX were negated, "U."

C) **Trip Blank Contamination:**

No target analytes were detected in the Trip Blank associated with sample analysis.

1.6 **GC/MS Instrument Performance Check**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 **Initial and Continuing Calibrations**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) **Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as

estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial and continuing calibrations for all reported TCL analytes with the following exceptions:

ICAL 4/23/12 Instrument GCMSV; Acetone 0.032 and 2-Butanone – 0.039; non-detects have been rejected in SCB-2 (20-22), SCB-3 (20-21), SCB-5 (4-5') SS, SCB-6 (1.5-3.5) SS and SCB-XX.

CCAL 04/30/12 am Instrument GCMSV; Acetone 0.037 and 2-Butanone – 0.039; non-detects have been rejected in SCB-2 (20-22), SCB-3 (20-21), SCB-5 (4-5') SS, SCB-6 (1.5-3.5) SS and SCB-XX.

CCAL 04/30/12 pm Instrument GCMSV; Acetone 0.031 and 2-Butanone – 0.037; non-detects have been rejected in SCB-2 (20-22), SCB-3 (20-21), SCB-5 (4-5') SS, SCB-6 (1.5-3.5) SS and SCB-XX.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 30\%$ and %D must be $< 25\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all compounds with the following exceptions:

None

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all compounds with the following exceptions:

CCAL 05/03/12 – Bromomethane – 29.2%, Acetone 85.2%, Carbon Disulfide – 26.7%, Methyl Acetate – 26.4% and Freon 113 – 26.5%. “UJ” in sample TB 4/16/12.

CCAL 05/04/12 – Bromomethane – 28.6%; “UJ” in sample FB 4/16/12.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, “J”, and all non-detects as “UJ”, or “R” if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Tert Butyl Alcohol-D9, Pentafluorobenzene, Chlorobenzene-d5, Fluorobenzene and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50% and for water samples 10%.

Field Duplicate analysis (SCB-XX) was collected on sample SCB-5 (4-5') SS. Acceptable precision was obtained for Trichloroethene (1.0 ug/kg vs. 1.2 ug/kg) and Tetrachloroethene (3.5 ug/kg vs. 3.2 ug/kg).

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Soil samples were initially analyzed undiluted at low level with the exception of SCB-4 (10-15) which was analyzed at high level (methanol extraction). Reporting limits have been adjusted accordingly. Review of the raw data indicates the presence of non target petroleum contamination and thus the high level analysis is justified. No target compounds were detected in this sample. There is potential that some lower level hits were lost/diluted out.

Tetrachloroethene was determined to be above the instruments calibration range in SCB-7 (Sub Slab) and as required a secondary diluted reanalysis was performed as required at high level. Results were hybridized in the laboratory report and corresponding spreadsheets to assist the end user which data point is within acceptance range.

1.11 Overall System Performance

Good resolution and chromatographic performance were observed.

Tentatively Identified Compounds (TICs) were not generated and therefore not evaluated.

2.0 Target Compound List (TCL) Semivolatile Organics by GC/MS SW846 Method 8270

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Semivolatile results for SCB-4 (10-15), SCB-5 (4-5') SS and SCB-XX (Field Duplicate) were considered to be valid and usable as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All three (3) soil samples were extracted and analyzed within the method required holding times and the technical holding times (14 days from collection to extraction for soil samples) required for data validation.

Additionally, all extracts were analyzed within 40 days from sample preparation as required.

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

All samples were spiked with six (6) surrogate standards at the sample extraction portion of analysis. Acceptable recovery values were obtained for all analyses with the exception of Terphenyl-d14 which recovered high (130%) in SCB-5 (4-5') SS. No laboratory action or qualifications to the data is required since the method allow one surrogate per fraction (acid and/or base) to be outside acceptance limits providing the recovery is >10%.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Batch MS/MSD data was submitted with this SDG. Acceptable recovery and RPD values were observed for all spiked constituents. No qualifications to the data were required.

2.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch. Recovery values were acceptable and no qualifications were applied.

2.5 Method Blanks

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Phthalates (common laboratory contaminants)	Sample Conc. is >CRQL, but $\leq 10x$ blank value	Sample Conc. Is <CRQL and $\leq 10x$ blank value	Sample Conc. is >CRQL and $> 10x$ blank value
Other Contaminants	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value

Below is a summary of the compounds in the sample and the associated qualification that have been applied:

A) Method Blank Contamination:

The extraction blanks applicable to these samples was found to be free of target analyte contamination. No data validation qualifiers were required based upon method blank data.

B) Field Blank Contamination:

Field Blank analysis is not applicable to this SDG.

2.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for semivolatile organics is decafluorotriphenylphosphine (DFTPP).

Instrument performance was generated within acceptable limits and frequency (12 hours) for decafluorotriphenylphosphine (DFTPP) for all analyses.

2.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial (average RRF) and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 30\%$ and %D must be $< 25\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity,

then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all compounds with the exception of 2,4-Dinitrophenol (30.9%). Non-detects for sample results have been qualified, "UJ" as required for all samples.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all compounds.

2.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All area responses and retention times fell within established QC ranges.

2.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50% and for water samples 10%.

Field duplicate analysis was collected on SCB-5 (4-5') SS for this SDG. Acceptable precision was observed for Benzo (a) anthracene, chrysene, Fluoranthene and Pyrene. Low concentrations of Benzo (a) Pyrene [16.2 ug/kg] and Bis (2-ethylhexyl) phthalate [49.1 ug/kg] was detected in SCB-5, however not in the blind duplicate. Results for these compounds must be considered estimated, "J."

2.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

Mass spectra meet criteria for all detected analytes.

Tentatively Identified Compounds (TICs) were not provided by the laboratory and therefore not evaluated.

2.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

All samples were analyzed undiluted.

2.12 Overall System Performance

Acceptable system performance was maintained throughout the analysis.

3.0 Target Analyte Pesticides by GC SW846 Method 8081 and PCBs by SW846 Method 8082.

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Pesticide and PCBs for samples SCB-4 (10-15), SCB-5 (4-5') SS and SCB-XX (Field Duplicate) results were considered to be valid and usable as noted within the following text:

3.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All soil samples were extracted and analyzed within the method required holding times and the technical holding times (14 days from collection to extraction for soil samples) required for data validation.

Additionally, all extracts were analyzed within 40 days from sample preparation as required.

3.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Pesticide Analysis:

Laboratory soil in house acceptable surrogate recovery values for TCMX are 23-137% and DCB 22-160%. Surrogate recoveries were acceptable for all pesticide analyses.

PCB Analysis:

Laboratory soil in house acceptable surrogate recovery values for TCMX are 22-141% and DCB 18-163%. Surrogate recoveries were acceptable for all PCB analyses.

3.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

The National Functional Guidelines indicate that MS/MSD data alone shall not be utilized to qualify sample data.

Pesticides:

Batch soil and aqueous MS/MSD analysis was submitted with this SDG. Acceptable recovery values and RPD were observed.

PCBs:

Batch MS/MSD analysis was submitted for soil analysis. Acceptable recovery values and RPD were observed.

No qualifications to the data were applied based on MS/MSD data.

3.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch for Pesticides and PCBs. Recovery values were acceptable and no qualifications were applied for both soil and groundwater analyses.

3.5 Blanks

Quality assurance (QA) blanks; i.e. method, instrument, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Any Contaminant	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $>5x$ blank value

Extraction and Instrument blanks were performed at the appropriate frequency.

Below is a summary of blank contamination:

A) **Method Blank Contamination:**
No target analytes were detected in the associated method blanks and no data validation qualifiers were required based upon method blank data.

B) **Field Blank Contamination:**

Field Blank analysis is not applicable to this SDG.

3.6 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual and multi-component Pesticide and PCBs standards. Acceptable DDT and Endrin breakdown percent difference (<20%) was observed. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns.

Linearity criteria for the initial standards have been satisfied for both columns as detailed below:

%RSD \leq 20% for single component compounds except alpha-BHC and delta-BHC

%RSD \leq 30% for Toxaphene peaks

%RSD \leq 30% for surrogates (TCMX and DCB)

%RSD $>$ 20% for PCB aroclors.

Continuing calibration verifications:

For Pesticide analysis acceptable percent difference for any pesticide is 20% and for PCB analysis, the acceptable limit is 15%.

No qualifications have been applied based on these criteria.

3.7 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50% and for water samples 10%.

Field duplicate analysis was collected on SCB-5 (4-5') SS for this SDG. A summary of positive detection are below:

<u>Analyte</u>	<u>SCB-5 (4-5') SS</u>	<u>SCB-XX</u>
Alpha chlordane	0.9 ug/kg	ND
Gamma Chlordane	0.91 ug/kg	ND
4,4'-DDD	20.3 ug/kg	19.2 ug/kg
4,4'-DDE	3.7 ug/kg	3.6 ug/kg
4,4'-DDT	1.9 ug/kg	6.5 ug/kg

Alpha and Gamma Chlordane as well as 4,4'-DDT concentrations must be considered estimated, "J/UJ" for both analyses.

3.8 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards

Positive Pesticide and PCB sample results are compared and where %Difference >25% when quantitated on the two columns the qualifications below are applied. Sample chromatograms were reviewed for the presence of interference. The following qualifications were applied where neither column shows interference:

<u>%Difference</u>	<u>Qualifier</u>
0-25%	None
26-70%	"J"
71-100%	"JN"
101-200% (no interference)	"R"
101-200% (interference detected)*	"JN"
>50% (Pesticide value is <CRQL)**	"U"
>201%	"R"

*When the reported %D is 101-200%, but interference is determined on either column, the results shall be qualified, "JN"

** When the reported pesticide value is lower than the CRQL, and the %D is >50%, raise the value to the CRQL and qualify "U", undetected.

All sample results have been evaluated based on these criteria.

Soils:

Alpha-Chlordane – 40% RPD; results must be considered estimated, "J" in SCB-4 (10-15) – 2 ug/kg.

Gamma-Chlordane – 31.8% RPD; results must be considered estimated, "J" in SCB-5

4,4-DDE – 31.8% RPD; results must be considered estimated, "J" in SCB-5.

4,4'-DDT – 38.3% RPD; results must be considered estimated, "J" in SCB-5.

4,4'-DDT – 79.6% RPD; results must be considered estimated, "J" biased high in SCB-5.

3.9 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower of the concentrations for primary/confirmatory column results as required. Soil results were reported on a dry weight basis as required.

3.10 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

4.0 TAL Metals by ICP/Cold Vapor SW846 Methods 6010/7471

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP serial dilutions and sample results verification. The soil metals results were considered to be valid and usable with the appropriate qualifiers as notated in the following text:

4.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All samples were digested and analyzed for Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

4.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments are capable of producing acceptable quantitative data. An initial calibration demonstrates that the instruments are capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP and Mercury instruments were calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations had been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels, and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICP and Mercury (80-120%) for all field samples.

No qualifications were applied based upon ICV/CCV analysis.

4.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB/Field blanks were generated within acceptable limits yielding final concentrations less than the CRDL.

No qualifications to the data were made based upon blank contamination.

4.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects

Between 30%-74% - results \geq MDL "J" and non-detects "UJ"

Between 126-150% - results \geq MDL "J" and

>150% - results \geq MDL "R"

Soil spike recoveries are qualified based on the criteria below:

<10% - "R" all detects and non-detects

Between 10%-74% - results \geq MDL "J" and non-detects "UJ"

Between 126-200% - results \geq MDL "J" and

>200% - results \geq MDL "R"

Soil MS/MSD analysis for this SDG was performed on a non site specific QC sample. Spiking recoveries for Antimony, Magnesium and Silver fell below acceptance ranges but >10% in the MS and/or MSD. Results have been qualified, estimated, "J/UJ" biased low as required for these elements in all soil samples.

Recovery outliers are most likely due to matrix interferences and non-homogeneity of the soil sample matrix.

Cadmium also recovered high in the MS and MSD. This element was not detected in associated field samples. No qualifications to the data are required.

4.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data in order to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD >20% but <100% - J detected concentrations

RPD \geq 100% - R all detected and non-detected concentrations

Field Duplicates:

RPD $\geq 35\%$ but $< 120\%$ - qualify sample and duplicate results \geq CRQL "J"

RPD $\geq 120\%$ - rejected sample and duplicate results \geq CRQL "R"

Soil laboratory duplicate analysis was performed on batch QC. Acceptable percent difference (20%) was observed for both analyses for all elements with the exception of Cadmium. This element must be considered estimated, "UJ" for all soil samples.

Field Duplicate analysis was collected on SCB-5 (4-5') SS. Acceptable precision was observed for all elements with the exception of Calcium. Results must be considered estimated, "J."

4.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for all ICP and Mercury analysis. Associated LCS recoveries were within the acceptable limits for TAL Metals analyses (80-120%).

4.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferences.

SW846 Method 6010 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

4.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether or not significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP serial dilution was performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. The soil serial dilution analysis agrees within a 10% difference of the original determination after correction for dilution for all elements with the exception of Aluminum, Beryllium, Iron and Manganese. Results must be considered estimated, "UJ/J" for these elements in all soil samples.

4.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results. All samples were analyzed undiluted.

4.10 Overall Assessment of Data

The data generated were of acceptable quality.

For the TAL analysis, results are usable at the concentrations presented in the validated spreadsheets.

Reviewer's Signature Lou A. Bell Date 06/15/12

Appendix A Chain of Custody Documents



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB5134 Client: _____ Project: _____

Date / Time Received: 4/27/2012 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (4/4): 0

Cooler Security	<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

Cooler Temperature	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	Bar Therm _____
3. Cooler media:	Ice (Bag) _____
4. No. Coolers:	1 _____

Quality Control Preservation	<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Sample Integrity - Documentation	<u>Y or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/> <input type="checkbox"/>

Sample Integrity - Condition	<u>Y or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Condition of sample:	Intact _____

Sample Integrity - Instructions	<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/> <input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

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JB5134: Chain of Custody
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Appendix B

Case Narratives



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB5134

Site: Belle Cleaners, 40 Purchase Street, Rye, NY

Report Date 5/14/2012 8:47:00 AM

On 04/27/2012, 7 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB5134 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V1A4975

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5352-23MS, JB5352-23MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Bromomethane are outside control limits.

Matrix: AQ **Batch ID:** V1A4977

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5173-2MS, JB5173-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Bromomethane, Chloroethane are outside control limits.
- Matrix Spike Recovery(s) for Bromomethane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Bromomethane, Chloroethane are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Methyl Acetate, Methylene chloride are outside control limits for sample JB5173-2MSD. Probable cause due to matrix interference.
- JB5173-2MSD for Methyl Acetate: Outside control limits due to matrix interference.
- V1A4977-BS for Bromomethane: High percent recoveries and no associated positive found in the QC batch.
- V1A4977-BS for Chloroethane: High percent recoveries and no associated positive found in the QC batch.

Matrix: SO **Batch ID:** VD7976

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB4645-10MS, JB4645-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 1,4-Dioxane are outside control limits for sample JB4645-10MSD. Probable cause due to matrix interference.
- JB5134-3: Dilution required due to matrix interference.
- JB4645-10MSD for 1,4-Dioxane: Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** VV5451

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5134-1MS, JB5134-1MSD were used as the QC samples indicated.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO	Batch ID: VV5451
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- All method blanks for this batch meet method specific criteria.

Matrix: SO	Batch ID: VX5437
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5134-6MS, JB5134-6MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Bromomethane are outside control limits.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Methyl Acetate, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, Methyl Acetate, Trichloroethene are outside control limits. Probable cause due to matrix interference.
- JB5134-6MS for Dibromofluoromethane: Outside control limits due to matrix interference.
- JB5134-6MSD for Dibromofluoromethane: Outside control limits due to matrix interference.
- JB5134-6 for Dibromofluoromethane: Outside control limits due to matrix interference.
- VX5437-BS for Bromomethane: High percent recoveries and no associated positive found in the QC batch.

Extractables by GCMS By Method SW846 8270D

Matrix: SO	Batch ID: OP56625
-------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- Sample(s) JB5230-IMS, JB5230-IMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5134-4 have surrogates outside control limits. Probable cause due to matrix interference.
- JB5134-4 for Terphenyl-d14: Outside of in house control limits.

Extractables by GC By Method SW846 8081B

Matrix: SO	Batch ID: OP56627
-------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5197-1AMS, JB5197-1AMSD, OP56627-MSMSD were used as the QC samples indicated.
- JB5134-7 for 4,4'-DDT: Reported from 2nd signal. %D of check on 1st signal excess method criteria (20 %) so using for confirmation only.

Extractables by GC By Method SW846 8082A

Matrix: SO	Batch ID: OP56626
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- All samples were extracted within the recommended method holding time.
- Sample(s) JB5185-IMS, JB5185-1MSD, OP56626-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: SO	Batch ID: MP64128
-------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5142-1MSD, JB5142-1MS, JB5142-1MSD, JB5142-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Silver, Antimony, Cadmium, Magnesium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Silver, Antimony, Magnesium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Iron, Manganese, Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Cadmium are outside control limits for sample MP64128-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Silver, Arsenic, Chromium, Copper, Vanadium, Zinc are outside control limits for sample MP64128-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP64128-SD1 for Beryllium: Serial dilution indicates possible matrix interference.
- MP64128-SD1 for Iron: Serial dilution indicates possible matrix interference.
- MP64128-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- MP64128-SD1 for Aluminum: Serial dilution indicates possible matrix interference.
- MP64128-MB1 for Chromium: All reported results <RL or >10x MB value.

Metals By Method SW846 7471B

Matrix: SO	Batch ID: MP64236
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- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5134-3MS, JB5134-3MSD were used as the QC samples for metals.

Wet Chemistry By Method SM18 2540G

Matrix: SO	Batch ID: GN65452
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- The data for SM18 2540G meets quality control requirements.

Matrix: SO	Batch ID: GN65454
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- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Appendix C

Data Summary Tables

With Qualifications

Table 1
Analytical Results for Volatile Organic Compounds In Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID	SCB-2 (20-22)	SCB-3 (20-21)	SCB-4 (10-15)	SCB-5 (4-5) SS	SCB-6 (1.5-3.5) SS	SCB-7(SUB-SLAB)	SCB-XX	FB-4/26/12	TB-4/26/12	*Part 375	**Part 375
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Liquid	Liquid	Unrestricted	Commercial
Date Sampled	4/24/2012	4/24/2012	4/24/2012	4/26/2012	4/26/2012	4/24/2012	4/26/2012	4/26/2012	4/26/2012	Use	
Volatile Organic Compounds	ug/kg	ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l	ug/l	ug/kg	ug/kg
Units											
Acetone	ND R	ND R	ND	ND R	ND R	37.1 J	ND R	ND	ND UJ	50	500,000
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	44,000
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromofom	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
2-Butanone (MEK)	ND R	ND R	ND	ND R	ND R	ND	ND R	ND	ND	120	500,000
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	760	22,000
Chlorobenzene	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	1,100	500,000
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	350,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	1,100	500,000
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	280,000
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.68 J	ND	ND	ND	1,800	130,000
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	240,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	30,000
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	330	500,000
cis-1,2-Dichloroethene	ND	ND	ND	ND	2.7 J	9.4	2.7 J	0.52 J	ND	250	500,000
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	190	500,000
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	130,000
Ethylbenzene	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND	1,000	390,000
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	930	500,000
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	500,000
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Tetrachloroethene	ND	ND	ND	3.5 J	1.7 J	2570	3.2 J	ND	ND	1,300	150,000
Toluene	0.50 J	ND	ND	ND	0.63 J	2	ND	ND	ND	700	500,000
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	680	500,000
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	470	200,000
Trichloroethene	ND	ND	ND	1.0 J	1.1 J	24.9	1.2 J	ND	ND	NVG	NVG
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	13,000
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	500,000
m,p-Xylene	ND	ND	ND	ND	ND	0.69 J	ND	ND	ND	260	500,000
o-Xylene	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	260	500,000
Xylene (total)	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	260	500,000

Notes:

SCB-XX Sample is a duplicate of SCB-5

ug/Kg - micrograms per kilogram or parts per billion

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - Estimated Value

R - The sample result is unreliable/unusable. The presence or absence of the analyte can not be verified.

FB - Field Blank

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(b): Commercial Use Soil Cleanup Objectives

Table 2
Analytical Results for Semi-Volatile Organic Compounds In Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID Matrix Date Sampled	SCB-2 (20-22) Soil 4/24/2012	SCB-3 (20-21) Soil 4/24/2012	SCB-4 (19-15) Soil 4/24/2012	SCB-5 (4-5) SS Soil 4/26/2012	SCB-6 (1.5-3.5) SS Soil 4/26/2012	SCB-7 (SUB-SLAB) Soil 4/24/2012	SCB-XX Soil 4/26/2012	*Part 375 Restricted Use	**Part 375 Commercial
Semi-Volatile Organic Compounds									
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2-Chlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Chloro-3-methyl phenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dichlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dimethylphenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dinitrophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4,6-Dinitro-o-cresol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Methylphenol	NA	NA	ND	ND	NA	NA	ND	330	500000
3,8,4-Methylphenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Nitrophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Nitrophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Pentachlorophenol	NA	NA	ND	ND	NA	NA	ND	800	6700
Phenol	NA	NA	ND	ND	NA	NA	ND	330	500000
2,3,4,6-Tetrachlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4,5-Trichlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4,6-Trichlorophenol	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Acenaphthene	NA	NA	ND	ND	NA	NA	ND	20,000	500,000
Acenaphthylene	NA	NA	ND	ND	NA	NA	ND	100000	500000
Acetophenone	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Anthracene	NA	NA	ND	ND	NA	NA	ND	100000	500000
Atrazine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Benzo(a)anthracene	NA	NA	52.3	23.1 J	NA	NA	22.0 J	1,000	5,600
Benzo(a)pyrene	NA	NA	54.7	16.2 J	NA	NA	ND	1,000	1,000
Benzo(b)fluoranthene	NA	NA	57.5	ND	NA	NA	ND	1,000	5,600
Benzo(g,h,i)perylene	NA	NA	41.8	ND	NA	NA	ND	100000	500000
Benzo(k)fluoranthene	NA	NA	37.1	ND	NA	NA	ND	800	56000
4-Bromophenyl phenyl ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Butyl benzyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
1,1'-Biphenyl	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Benzaldehyde	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Chloronaphthalene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Chloroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Carbazole	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Ceprolactam	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Chrysene	NA	NA	49.9	18.9 J	NA	NA	19.2 J	1000	56000
bis(2-Chloroethoxy)methane	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
bis(2-Chloroethyl)ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
bis(2-Chloroisopropyl)ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Chlorophenyl phenyl ether	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,4-Dinitrotoluene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2,6-Dinitrotoluene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
3,3'-Dichlorobenzidine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Dibenzo(a,h)anthracene	NA	NA	ND	ND	NA	NA	ND	330	560
Dibenzofuran	NA	NA	ND	ND	NA	NA	ND	7000	350000
Di-n-butyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Di-n-octyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Diethyl phthalate	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Dimethyl phthalate	NA	NA	102	165	NA	NA	160	NVG	NVG
bis(2-Ethylhexyl)phthalate	NA	NA	ND	49.1 J	NA	NA	ND	NVG	NVG
Fluoranthene	NA	NA	65	31.6 J	NA	NA	33.3 J	100,000	500,000
Fluorene	NA	NA	ND	ND	NA	NA	ND	30000	500000
Hexachlorobenzene	NA	NA	ND	ND	NA	NA	ND	330	6000
Hexachlorobutadiene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Hexachlorocyclopentadiene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Hexachloroethane	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Indeno(1,2,3-cd)pyrene	NA	NA	36	ND	NA	NA	ND	500	5600
Isophorone	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Methylnaphthalene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
2-Nitroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
3-Nitroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
4-Nitroaniline	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Naphthalene	NA	NA	ND	ND	NA	NA	ND	12000	500000
Nitrobenzene	NA	NA	ND	ND	NA	NA	ND	NVG	69000
N-Nitroso-di-n-propylamine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
N-Nitrosodiphenylamine	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Phenanthrene	NA	NA	ND	ND	NA	NA	ND	100,000	500,000
Pyrene	NA	NA	78.9	34.3	NA	NA	35.5 J	100,000	500,000
1,2,4,5-Tetrachlorobenzene	NA	NA	ND	ND	NA	NA	ND	NVG	NVG

SCB-XX - Sample is a duplicate of SCB-5
 NA - No Analyzed
 ND - Not detected at or above laboratory detection limits
 NVG - No Value Given
 J - Estimated Value
 FB - Field Blank

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
 Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives
 **6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
 Table 375-6.8(b):Commercial Use Soil Cleanup Objectives

TABLE 3

Analytical Results for Pesticides in Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID Matrix Date Sampled	SCB-2 (20-22) Soil 4/24/2012	SCB-3 (20-21) Soil 4/24/2012	SCB-4 (10-16) Soil 4/24/2012	SCB-5 (4-6) SS Soil 4/26/2012	SCB-6 (1-3-5) SS/SCB-7 (SUB-SLAB) Soil 4/26/2012	SCB-XX Soil 4/26/2012	**Part 375 Unrestricted Use	**Part 375 Commercial
Pesticides	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aldrin	NA	NA	ND	ND	NA	ND	5	680
alpha-BHC	NA	NA	ND	ND	NA	ND	20	3400
beta-BHC	NA	NA	ND	ND	NA	ND	36	3000
delta-BHC	NA	NA	ND	ND	NA	ND	40	500000
gamma-BHC (Lindane)	NA	NA	ND	ND	NA	ND	100	9200
alpha-Chlordane	NA	NA	2	0.9	NA	ND	94	24000
gamma-Chlordane	NA	NA	1.8	0.81	NA	ND	NVG	NVG
Dieldrin	NA	NA	ND	ND	NA	ND	5	1400
4,4'-DDD	NA	NA	ND	20.3	NA	19.2	3.3	92000
4,4'-DDE	NA	NA	ND	3.7	NA	3.6	3.3	62000
4,4'-DDT	NA	NA	ND	1.9	NA	6.5 a	3.3	47000
Endrin	NA	NA	ND	ND	NA	ND	14	89000
Endosulfan sulfate	NA	NA	ND	ND	NA	ND	2400	200,000
Endrin aldehyde	NA	NA	ND	ND	NA	ND	NVG	NVG
Endosulfan-I	NA	NA	ND	ND	NA	ND	2400	200,000
Endosulfan-II	NA	NA	ND	ND	NA	ND	2400	200,000
Heptachlor	NA	NA	ND	ND	NA	ND	42	15000
Heptachlor epoxide	NA	NA	ND	ND	NA	ND	NVG	NVG
Methoxychlor	NA	NA	ND	ND	NA	ND	NVG	NVG
Endrin ketone	NA	NA	ND	ND	NA	ND	NVG	NVG
Toxaphene	NA	NA	ND	ND	NA	ND	NVG	NVG

Notes:

SCB-XX- Sample is a duplicate of SCB-5

a - Reported from a second signal for confirmation

ug/kg - micrograms per kilogram or parts per billion

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value

FB - Field Blank

NA - Not Analyzed

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
Table 375-6.8(a); Unrestricted Use Soil Cleanup Objectives
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;
Table 375-6.8(b); Commercial Use Soil Cleanup Objectives

Table 4

Analytical Results for PCBs in Soil Samples
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID	SCB-2 (20-22)	SCB-3 (20-21)	SCB-4 (10-15)	SCB-5 (4-5) SS	SCB-6 (1.5-3.5) SSSCB-7 (SUB-SLAB)	SCB-XX	*Part 375	**Part 375
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Unrestricted Use	Commercial
Date Samples	4/24/2012	4/24/2012	4/24/2012	4/26/2012	4/24/2012	4/26/2012		
PCBs	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1221	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1232	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1242	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1248	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1254	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1260	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1268	NA	NA	ND	ND	NA	ND	100	1000
Aroclor 1262	NA	NA	ND	ND	NA	ND	100	1000

SCB-XX- Sample is a duplicate of SCB-5

NA - Not Analyzed

ug/kg - micrograms per kilogram or parts per billion

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value

FB - Field Blank

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(a); Unrestricted Use Soil Cleanup Objectives

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(b); Commercial Use Soil Cleanup Objectives

TABLE 5

Analytical Results for Metals In Soil
Former Belle Cleaners
40 Purchase Street, Rye, New York

Sample ID Matrix Date Sampled	SCB-2 (20-22) Soil 4/24/2012	SCB-3 (20-21) Soil 4/24/2012	SCB-4 (10-15) Soil 4/24/2012	SCB-5 (4-5) SS Soil 4/26/2012	SCB-6 (1.5-3.5) SS Soil 4/26/2012	SCB-7 (SUB-SLAB) Soil 4/24/2012	SCB-XX Soil 4/26/2012	*Part 375 Unrestricted Use	**Part 375 Commercial
Metals	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	NA	NA	4940	4,620	NA	NA	5300	NVG	NVG
Antimony	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Arsenic	NA	NA	ND	ND	NA	NA	ND	13	16
Barium	NA	NA	48.8	29.8	NA	NA	35.3	350	400
Beryllium	NA	NA	0.25	0.22	NA	NA	0.26	7.2	590
Cadmium	NA	NA	ND	ND	NA	NA	ND	2.5	9.3
Calcium	NA	NA	1320	1,590	NA	NA	3450	NVG	NVG
Chromium	NA	NA	14.8	14	NA	NA	15.5	NVG	NVG
Cobalt	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Copper	NA	NA	12.9	9.6	NA	NA	10.7	50	270
Iron	NA	NA	9230	9,030	NA	NA	10200	NVG	NVG
Lead	NA	NA	10.3	9.2	NA	NA	9.8	63	1000
Magnesium	NA	NA	1720	1,740	NA	NA	1910	NVG	NVG
Manganese	NA	NA	195	163	NA	NA	187	1600	10,000
Mercury	NA	NA	0.052	ND	NA	NA	0.047	0.18	2.8
Nickel	NA	NA	19.7	20.3	NA	NA	23.8	30	310
Potassium	NA	NA	1210	1,230	NA	NA	1260	NVG	NVG
Selenium	NA	NA	ND	ND	NA	NA	ND	3.9	1500
Silver	NA	NA	ND	ND	NA	NA	ND	2	1500
Sodium	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Thallium	NA	NA	ND	ND	NA	NA	ND	NVG	NVG
Vanadium	NA	NA	14.1	13.3	NA	NA	13.8	NVG	NVG
Zinc	NA	NA	17.8	19.2	NA	NA	22.1	109	10000

Notes:

SCB-XX- Sample is a duplicate of SCB-5

mg/kg - milligrams per kilogram or parts per million

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limits.

FB - Field Blank

NA - Not Analyzed

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(b): Commercial Use Soil Cleanup Objectives

Accutest Laboratories

Report of Analysis

Client Sample ID: SCB-2 (20-22)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-1	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 87.8
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V126147.D	1	04/30/12	CL	n/a	n/a	VV5451
Run #2							

Run #	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND <i>R</i>	13	8.4	ug/kg	
71-43-2	Benzene	ND	1.3	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.66	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.28	ug/kg	
75-25-2	Bromoform	ND	6.3	0.96	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND <i>R</i>	13	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.25	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.44	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.41	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.52	ug/kg	
67-66-3	Chloroform	ND	6.3	0.61	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.79	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.35	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	0.28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.23	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.3	0.78	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.3	0.41	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.34	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.43	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.19	ug/kg	
76-13-1	Freon 113	ND	6.3	0.91	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

John 6/11/12

Report of Analysis

Client Sample ID:	SCB-2 (20-22)	Date Sampled:	04/24/12
Lab Sample ID:	JB5134-1	Date Received:	04/27/12
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8260B		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	3.1	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.17	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.31	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.3	0.29	ug/kg	
100-42-5	Styrene	ND	6.3	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	6.3	0.24	ug/kg	
108-88-3	Toluene	0.50	1.3	0.48	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.55	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.3	0.30	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.3	0.55	ug/kg	
79-01-6	Trichloroethene	ND	6.3	0.31	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.61	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.58	ug/kg	
	m,p-Xylene	ND	1.3	0.40	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		67-131%
17060-07-0	1,2-Dichloroethane-D4	102%		66-130%
2037-26-5	Toluene-D8	109%		76-125%
460-00-4	4-Bromofluorobenzene	98%		53-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID: SCB-3 (20-21)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-2	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 83.4
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V126171.D	1	05/01/12	CL	n/a	n/a	VV5451
Run #2							

Run #	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND <i>R</i>	13	8.8	ug/kg	
71-43-2	Benzene	ND	1.3	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.69	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	0.30	ug/kg	
75-25-2	Bromoform	ND	6.7	1.0	ug/kg	
74-83-9	Bromomethane	ND	6.7	0.52	ug/kg	
78-93-3	2-Butanone (MEK)	ND <i>R</i>	13	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.7	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.7	0.46	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	0.43	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.54	ug/kg	
67-66-3	Chloroform	ND	6.7	0.64	ug/kg	
74-87-3	Chloromethane	ND	6.7	0.83	ug/kg	
110-82-7	Cyclohexane	ND	6.7	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.7	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.7	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.7	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	0.29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.7	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.7	0.43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.7	0.56	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	0.35	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	0.45	ug/kg	
123-91-1	1,4-Dioxane	ND	170	78	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.20	ug/kg	
76-13-1	Freon 113	ND	6.7	0.96	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

John P. 6/11/12

Report of Analysis

Client Sample ID: SCB-3 (20-21)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-2	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 83.4
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.7	3.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	0.18	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	6.7	0.33	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	3.5	ug/kg	
75-09-2	Methylene chloride	ND	6.7	0.31	ug/kg	
100-42-5	Styrene	ND	6.7	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	6.7	0.25	ug/kg	
108-88-3	Toluene	ND	1.3	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	0.58	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	0.45	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	0.32	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	0.58	ug/kg	
79-01-6	Trichloroethene	ND	6.7	0.33	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.64	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	0.61	ug/kg	
	m,p-Xylene	ND	1.3	0.42	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		67-131%
17060-07-0	1,2-Dichloroethane-D4	99%		66-130%
2037-26-5	Toluene-D8	108%		76-125%
460-00-4	4-Bromofluorobenzene	98%		53-142%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	SCB-4 (10-15)	Date Sampled:	04/24/12
Lab Sample ID:	JB5134-3	Date Received:	04/27/12
Matrix:	SO - Soil	Percent Solids:	85.3
Method:	SW846 8260B		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	D195693.D	1	05/02/12	ET	n/a	n/a	VD7976
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.1 g	10.0 ml	100 ul
Run #2			

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	670	440	ug/kg	
71-43-2	Benzene	ND	67	8.9	ug/kg	
74-97-5	Bromochloromethane	ND	330	35	ug/kg	
75-27-4	Bromodichloromethane	ND	330	15	ug/kg	
75-25-2	Bromoform	ND	330	50	ug/kg	
74-83-9	Bromomethane	ND	330	26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	670	290	ug/kg	
75-15-0	Carbon disulfide	ND	330	13	ug/kg	
56-23-5	Carbon tetrachloride	ND	330	23	ug/kg	
108-90-7	Chlorobenzene	ND	330	21	ug/kg	
75-00-3	Chloroethane	ND	330	27	ug/kg	
67-66-3	Chloroform	ND	330	32	ug/kg	
74-87-3	Chloromethane	ND	330	42	ug/kg	
110-82-7	Cyclohexane	ND	330	25	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	670	100	ug/kg	
124-48-1	Dibromochloromethane	ND	330	11	ug/kg	
106-93-4	1,2-Dibromoethane	ND	67	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	330	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	330	13	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	330	11	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	330	21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	330	15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	67	12	ug/kg	
75-35-4	1,1-Dichloroethene	ND	330	41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	330	21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	330	28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	330	18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	330	10	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	330	22	ug/kg	
123-91-1	1,4-Dioxane	ND	8300	3900	ug/kg	
100-41-4	Ethylbenzene	ND	67	9.9	ug/kg	
76-13-1	Freon 113	ND	330	48	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: SCB-4 (10-15)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-3	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.3
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	330	170	ug/kg	
98-82-8	Isopropylbenzene	ND	330	9.1	ug/kg	
79-20-9	Methyl Acetate	ND	330	150	ug/kg	
108-87-2	Methylcyclohexane	ND	330	16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	67	12	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	330	180	ug/kg	
75-09-2	Methylene chloride	ND	330	15	ug/kg	
100-42-5	Styrene	ND	330	12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	330	12	ug/kg	
127-18-4	Tetrachloroethene	ND	330	13	ug/kg	
108-88-3	Toluene	ND	67	25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	330	29	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	330	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	330	16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	330	29	ug/kg	
79-01-6	Trichloroethene	ND	330	16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	330	32	ug/kg	
75-01-4	Vinyl chloride	ND	330	31	ug/kg	
	m,p-Xylene	ND	67	21	ug/kg	
95-47-6	o-Xylene	ND	67	12	ug/kg	
1330-20-7	Xylene (total)	ND	67	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-131%
17060-07-0	1,2-Dichloroethane-D4	94%		66-130%
2037-26-5	Toluene-D8	99%		76-125%
460-00-4	4-Bromofluorobenzene	85%		53-142%

(a) Dilution required due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID:	SCB-4 (10-15)	Date Sampled:	04/24/12
Lab Sample ID:	JB5134-3	Date Received:	04/27/12
Matrix:	SO - Soil	Percent Solids:	85.3
Method:	SW846 8270D SW846 3550C		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P10118.D	1	05/03/12	KH	04/30/12	OP56625	E3P472
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	42	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	330	57	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.7	ug/kg	
208-96-8	Acenaphthylene	ND	33	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	ND	33	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	52.3	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	54.7	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	57.5	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41.8	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	37.1	33	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	15	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: SCB-4 (10-15)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-3	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.3
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	11	ug/kg	
218-01-9	Chrysene	49.9	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	9.9	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	9.9	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	102	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	29	ug/kg	
206-44-0	Fluoranthene	65.0	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.3	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	36.0	33	12	ug/kg	
78-59-1	Isophorone	ND	67	9.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.1	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	33	15	ug/kg	
129-00-0	Pyrene	78.9	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		21-116%
4165-62-2	Phenol-d5	75%		19-117%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: SCB-4 (10-15)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-3	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.3
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100%		24-136%
4165-60-0	Nitrobenzene-d5	86%		21-122%
321-60-8	2-Fluorobiphenyl	88%		30-117%
1718-51-0	Terphenyl-d14	126%		31-129%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	SCB-4 (10-15)	Date Sampled:	04/24/12
Lab Sample ID:	JB5134-3	Date Received:	04/27/12
Matrix:	SO - Soil	Percent Solids:	85.3
Method:	SW846 8081B SW846 3545A		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G74319.D	1	05/08/12	DS	04/30/12	OP56627	G1G2648
Run #2							

Run #	Initial Weight	Final Volume
Run #1	14.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.40	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.59	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.56	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.46	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.36	ug/kg	
5103-71-9	alpha-Chlordane	2.0 <i>J</i>	0.79	0.52	ug/kg	
5103-74-2	gamma-Chlordane	1.8 <i>J</i>	0.79	0.40	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.61	ug/kg	
72-54-8	4,4'-DDD	ND	0.79	0.41	ug/kg	
72-55-9	4,4'-DDE	ND	0.79	0.47	ug/kg	
50-29-3	4,4'-DDT	ND	0.79	0.58	ug/kg	
72-20-8	Endrin	ND	0.79	0.40	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.72	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.75	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.52	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.39	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.51	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		23-137%
877-09-8	Tetrachloro-m-xylene	61%		23-137%
2051-24-3	Decachlorobiphenyl	74%		22-160%
2051-24-3	Decachlorobiphenyl	75%		22-160%

801 6/13/12

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: SCB-4 (10-15)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-3	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.3
Method: SW846 8082A SW846 3545A	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF109174.D	1	05/10/12	GAD	04/30/12	OP56626	GEF4489
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	14.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	10	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	20	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248	ND	40	12	ug/kg	
11097-69-1	Aroclor 1254	ND	40	19	ug/kg	
11096-82-5	Aroclor 1260	ND	40	13	ug/kg	
11100-14-4	Aroclor 1268	ND	40	12	ug/kg	
37324-23-5	Aroclor 1262	ND	40	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		22-141%
877-09-8	Tetrachloro-m-xylene	81%		22-141%
2051-24-3	Decachlorobiphenyl	100%		18-163%
2051-24-3	Decachlorobiphenyl	108%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: SCB-4 (10-15)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-3	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.3
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4940 J	55	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Antimony	<2.2 VJ	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Arsenic	<2.2	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Barium	48.8	22	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Beryllium	0.25 J	0.22	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Cadmium	<0.55 VJ	0.55	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Calcium	1320	550	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Chromium	14.8	1.1	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Cobalt	<5.5	5.5	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Copper	12.9	2.8	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Iron	9230 J	55	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Lead	10.3	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Magnesium	1720 J	550	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Manganese	195 J	1.7	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Mercury	0.052	0.038	mg/kg	1	05/07/12	05/07/12	DP SW846 7471B ²	SW846 7471B ⁴
Nickel	19.7	4.4	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Potassium	1210	1100	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Selenium	<2.2	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Silver	<0.55 VJ	0.55	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Sodium	<1100	1100	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Thallium	<1.1	1.1	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Vanadium	14.1	5.5	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Zinc	17.8	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA28528
- (2) Instrument QC Batch: MA28530
- (3) Prep QC Batch: MP64128
- (4) Prep QC Batch: MP64236

RL = Reporting Limit

John 6/12/12

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Report of Analysis

3.4

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V126169.D	1	05/01/12	CL	n/a	n/a	VV5451
Run #2							

Run #	Initial Weight
Run #1	4.6 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND ^R	13	8.4	ug/kg	
71-43-2	Benzene	ND	1.3	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.66	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.29	ug/kg	
75-25-2	Bromoform	ND	6.4	0.96	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND ^R	13	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.25	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	0.44	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.41	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.52	ug/kg	
67-66-3	Chloroform	ND	6.4	0.61	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.79	ug/kg	
110-82-7	Cyclohexane	ND	6.4	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.35	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.23	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.78	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND ^J	6.4	0.41	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.34	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.43	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.19	ug/kg	
76-13-1	Freon 113	ND	6.4	0.91	ug/kg	

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	SCB-5 (4-5') SS	Date Sampled:	04/26/12
Lab Sample ID:	JB5134-4	Date Received:	04/27/12
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	SW846 8260B		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.4	3.2	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	0.17	ug/kg	
79-20-9	Methyl Acetate	ND	6.4	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	6.4	0.31	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.4	0.29	ug/kg	
100-42-5	Styrene	ND	6.4	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.23	ug/kg	
127-18-4	Tetrachloroethene	3.5	6.4	0.24	ug/kg	J
108-88-3	Toluene	ND	1.3	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.56	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.31	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.55	ug/kg	
79-01-6	Trichloroethene	1.0	6.4	0.31	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.4	0.61	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.59	ug/kg	
	m,p-Xylene	ND	1.3	0.40	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-131%
17060-07-0	1,2-Dichloroethane-D4	96%		66-130%
2037-26-5	Toluene-D8	108%		76-125%
460-00-4	4-Bromofluorobenzene	99%		53-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P10119.D	1	05/03/12	KH	04/30/12	OP56625	E3P472
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	55	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	650	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	650	40	ug/kg	
95-48-7	2-Methylphenol	ND	65	37	ug/kg	
	3&4-Methylphenol	ND	65	42	ug/kg	
88-75-5	2-Nitrophenol	ND	160	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	55	ug/kg	
87-86-5	Pentachlorophenol	ND	330	56	ug/kg	
108-95-2	Phenol	ND	65	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.5	ug/kg	
208-96-8	Acenaphthylene	ND	33	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.8	ug/kg	
120-12-7	Anthracene	ND	33	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.4	ug/kg	
56-55-3	Benzo(a)anthracene	23.1	33	11	ug/kg	J
50-32-8	Benzo(a)pyrene	16.2	33	10	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	65	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	65	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	65	3.8	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	65	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	ND	65	15	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

John 6/14/12

Report of Analysis

3.4
3

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	65	10	ug/kg	
218-01-9	Chrysene	18.9	33	11	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	65	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	65	9.8	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	65	9.7	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	65	9.8	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	65	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	65	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	65	9.7	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	65	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	65	16	ug/kg	
84-66-2	Diethyl phthalate	ND	65	11	ug/kg	
131-11-3	Dimethyl phthalate	165	65	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	49.1	65	29	ug/kg	J
206-44-0	Fluoranthene	31.6	33	14	ug/kg	J
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	65	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.1	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	9.1	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	11	ug/kg	
78-59-1	Isophorone	ND	65	8.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	ND	33	8.9	ug/kg	
98-95-3	Nitrobenzene	ND	65	9.5	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	65	8.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	20	ug/kg	
85-01-8	Phenanthrene	ND	33	15	ug/kg	
129-00-0	Pyrene	34.3	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		21-116%
4165-62-2	Phenol-d5	75%		19-117%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Handwritten signature/initials

Report of Analysis

3.4
3

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	106%		24-136%
4165-60-0	Nitrobenzene-d5	89%		21-122%
321-60-8	2-Fluorobiphenyl	92%		30-117%
1718-51-0	Terphenyl-d14	130% ^a		31-129%

(a) Outside of in house control limits.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

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Report of Analysis

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3

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Method: SW846 8081B SW846 3545A	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G74320.D	1	05/09/12	DS	04/30/12	OP56627	G1G2648
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.78	0.39	ug/kg	
319-84-6	alpha-BHC	ND	0.78	0.58	ug/kg	
319-85-7	beta-BHC	ND	0.78	0.54	ug/kg	
319-86-8	delta-BHC	ND	0.78	0.45	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.78	0.35	ug/kg	
5103-71-9	alpha-Chlordane	0.90 J	0.78	0.50	ug/kg	
5103-74-2	gamma-Chlordane	0.91 J	0.78	0.40	ug/kg	
60-57-1	Dieldrin	ND	0.78	0.60	ug/kg	
72-54-8	4,4'-DDD	20.3	0.78	0.40	ug/kg	
72-55-9	4,4'-DDE	3.7 J	0.78	0.46	ug/kg	
50-29-3	4,4'-DDT	1.9 J	0.78	0.57	ug/kg	
72-20-8	Endrin	ND	0.78	0.40	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.78	0.70	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.78	0.74	ug/kg	
959-98-8	Endosulfan-I	ND	0.78	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	0.78	0.51	ug/kg	
76-44-8	Heptachlor	ND	0.78	0.48	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.78	0.38	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.55	ug/kg	
53494-70-5	Endrin ketone	ND	0.78	0.50	ug/kg	
8001-35-2	Toxaphene	ND	19	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		23-137%
877-09-8	Tetrachloro-m-xylene	89%		23-137%
2051-24-3	Decachlorobiphenyl	90%		22-160%
2051-24-3	Decachlorobiphenyl	92%		22-160%

for 6/13/12

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

3.4
3

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Method: SW846 8082A SW846 3545A	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF109175.D	1	05/10/12	GAD	04/30/12	OP56626	GEF4489
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	11	ug/kg	
37324-23-5	Aroclor 1262	ND	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		22-141%
877-09-8	Tetrachloro-m-xylene	99%		22-141%
2051-24-3	Decachlorobiphenyl	104%		18-163%
2051-24-3	Decachlorobiphenyl	113%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

3.4
3

Client Sample ID: SCB-5 (4-5') SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-4	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 85.4
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4620 <i>J</i>	56	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Antimony	<2.2 <i>UJ</i>	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Arsenic	<2.2	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Barium	29.8	22	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Beryllium	0.22 <i>J</i>	0.22	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Cadmium	<0.56 <i>UJ</i>	0.56	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Calcium	1590 <i>J</i>	560	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Chromium	14.0	1.1	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Cobalt	<5.6	5.6	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Copper	9.6	2.8	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Iron	9030 <i>J</i>	56	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Lead	9.2	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Magnesium	1740 <i>J</i>	560	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Manganese	163 <i>J</i>	1.7	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Mercury	<0.036	0.036	mg/kg	1	05/07/12	05/07/12	DP SW846 7471B ²	SW846 7471B ⁴
Nickel	20.3	4.5	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Potassium	1230	1100	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Selenium	<2.2	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Silver	<0.56 <i>UJ</i>	0.56	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Sodium	<1100	1100	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Thallium	<1.1	1.1	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Vanadium	13.3	5.6	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³
Zinc	19.2	2.2	mg/kg	1	05/01/12	05/06/12	GT SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA28528
- (2) Instrument QC Batch: MA28530
- (3) Prep QC Batch: MP64128
- (4) Prep QC Batch: MP64236

RL = Reporting Limit

John
6/11/12

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Report of Analysis

Client Sample ID: SCB-6 (1.5-3.5) SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-5	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V126148.D	1	04/30/12	CL	n/a	n/a	VV5451
Run #2							

Run #	Initial Weight
Run #1	4.7 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND <i>R</i>	14	9.3	ug/kg	
71-43-2	Benzene	ND	1.4	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	7.0	0.73	ug/kg	
75-27-4	Bromodichloromethane	ND	7.0	0.32	ug/kg	
75-25-2	Bromoform	ND	7.0	1.1	ug/kg	
74-83-9	Bromomethane	ND	7.0	0.56	ug/kg	
78-93-3	2-Butanone (MEK)	ND <i>R</i>	14	6.1	ug/kg	
75-15-0	Carbon disulfide	ND	7.0	0.28	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.0	0.49	ug/kg	
108-90-7	Chlorobenzene	ND	7.0	0.45	ug/kg	
75-00-3	Chloroethane	ND	7.0	0.57	ug/kg	
67-66-3	Chloroform	ND	7.0	0.68	ug/kg	
74-87-3	Chloromethane	ND	7.0	0.88	ug/kg	
110-82-7	Cyclohexane	ND	7.0	0.53	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	7.0	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.34	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.0	0.39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.0	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.0	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.0	0.45	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.0	0.31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.26	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.0	0.86	ug/kg	
156-59-2	cis-1,2-Dichloroethene	2.7	7.0	0.45	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	7.0	0.60	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.0	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.0	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.0	0.47	ug/kg	
123-91-1	1,4-Dioxane	ND	180	82	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
76-13-1	Freon 113	ND	7.0	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

John 6/15/12

Report of Analysis

3.5
3

Client Sample ID: SCB-6 (1.5-3.5) SS	Date Sampled: 04/26/12
Lab Sample ID: JB5134-5	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.0	3.5	ug/kg	
98-82-8	Isopropylbenzene	ND	7.0	0.19	ug/kg	
79-20-9	Methyl Acetate	ND	7.0	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	7.0	0.35	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.0	3.7	ug/kg	
75-09-2	Methylene chloride	ND	7.0	0.32	ug/kg	
100-42-5	Styrene	ND	7.0	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.0	0.25	ug/kg	
127-18-4	Tetrachloroethene	1.7	7.0	0.27	ug/kg	J
108-88-3	Toluene	0.63	1.4	0.53	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	7.0	0.62	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.0	0.34	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.0	0.61	ug/kg	
79-01-6	Trichloroethene	1.1	7.0	0.35	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	7.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	7.0	0.65	ug/kg	
	m,p-Xylene	ND	1.4	0.44	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.26	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		67-131%
17060-07-0	1,2-Dichloroethane-D4	104%		66-130%
2037-26-5	Toluene-D8	108%		76-125%
460-00-4	4-Bromofluorobenzene	100%		53-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

3.6

Client Sample ID: SCB-7 (SUB-SLAB)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-6	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 71.2
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X125971.D	1	05/03/12	MS	n/a	n/a	VX5437
Run #2	D195694.D	1	05/02/12	ET	n/a	n/a	VD7976

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g		
Run #2	10.1 g	10.0 ml	100 ul

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	37.1 J	14	9.3	ug/kg	
71-43-2	Benzene	ND	1.4	0.19	ug/kg	
74-97-5	Bromochloromethane	ND VJ	7.0	0.73	ug/kg	
75-27-4	Bromodichloromethane	ND	7.0	0.31	ug/kg	
75-25-2	Bromoform	ND	7.0	1.1	ug/kg	
74-83-9	Bromomethane	ND VJ	7.0	0.55	ug/kg	
78-93-3	2-Butanone (MEK)	ND VJ	14	6.1	ug/kg	
75-15-0	Carbon disulfide	ND VJ	7.0	0.28	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.0	0.49	ug/kg	
108-90-7	Chlorobenzene	1.2	7.0	0.45	ug/kg	J
75-00-3	Chloroethane	ND VJ	7.0	0.57	ug/kg	
67-66-3	Chloroform	ND VJ	7.0	0.68	ug/kg	
74-87-3	Chloromethane	ND VJ	7.0	0.88	ug/kg	
110-82-7	Cyclohexane	ND	7.0	0.53	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	7.0	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.33	ug/kg	
95-50-1	1,2-Dichlorobenzene	3.2	7.0	0.39	ug/kg	J
541-73-1	1,3-Dichlorobenzene	ND	7.0	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	0.66	7.0	0.24	ug/kg	J
75-71-8	Dichlorodifluoromethane	ND VJ	7.0	0.45	ug/kg	
75-34-3	1,1-Dichloroethane	ND VJ	7.0	0.31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.26	ug/kg	
75-35-4	1,1-Dichloroethene	ND VJ	7.0	0.86	ug/kg	
156-59-2	cis-1,2-Dichloroethene	9.4 J	7.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND VJ	7.0	0.60	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.0	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.0	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.0	0.47	ug/kg	
123-91-1	1,4-Dioxane	ND VJ	180	82	ug/kg	
100-41-4	Ethylbenzene	0.28	1.4	0.21	ug/kg	J
76-13-1	Freon 113	ND VJ	7.0	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Handwritten signature and date: 6/15/12

Report of Analysis

Client Sample ID: SCB-7 (SUB-SLAB)	Date Sampled: 04/24/12
Lab Sample ID: JB5134-6	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 71.2
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.0	3.5	ug/kg	
98-82-8	Isopropylbenzene	ND	7.0	0.19	ug/kg	
79-20-9	Methyl Acetate	R ND <i>UT</i>	7.0	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	7.0	0.34	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND <i>UT</i>	1.4	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.0	3.7	ug/kg	
75-09-2	Methylene chloride	ND <i>UT</i>	7.0	0.32	ug/kg	
100-42-5	Styrene	ND	7.0	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	R ND	7.0	0.25	ug/kg	
127-18-4	Tetrachloroethene	2570 ^a	450	17	ug/kg	
108-88-3	Toluene	2.0	1.4	0.53	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.0	0.62	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.0	0.34	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.0	0.61	ug/kg	
79-01-6	Trichloroethene	24.9	7.0	0.35	ug/kg	
75-69-4	Trichlorofluoromethane	ND <i>UT</i>	7.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND <i>UT</i>	7.0	0.65	ug/kg	
	m,p-Xylene	0.69	1.4	0.44	ug/kg	J
95-47-6	o-Xylene	0.37	1.4	0.26	ug/kg	J
1330-20-7	Xylene (total)	1.1	1.4	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	66% ^b	91%	67-131%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	66-130%
2037-26-5	Toluene-D8	104%	100%	76-125%
460-00-4	4-Bromofluorobenzene	87%	81%	53-142%

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference.

John 6/11/12

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

3.7
3

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V126170.D	1	05/01/12	CL	n/a	n/a	VV5451
Run #2							

Run #	Initial Weight
Run #1	4.7 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND <i>R</i>	13	8.9	ug/kg	
71-43-2	Benzene	ND	1.3	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.70	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	0.30	ug/kg	
75-25-2	Bromoform	ND	6.7	1.0	ug/kg	
74-83-9	Bromomethane	ND	6.7	0.53	ug/kg	
78-93-3	2-Butanone (MEK)	ND <i>R</i>	13	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.7	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.7	0.46	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	0.43	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.55	ug/kg	
67-66-3	Chloroform	ND	6.7	0.65	ug/kg	
74-87-3	Chloromethane	ND	6.7	0.84	ug/kg	
110-82-7	Cyclohexane	ND	6.7	0.51	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.7	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.7	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.7	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	0.29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.7	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND <i>ND</i>	6.7	0.43	ug/kg	<i>J</i>
156-60-5	trans-1,2-Dichloroethene	ND	6.7	0.57	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	0.36	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	0.45	ug/kg	
123-91-1	1,4-Dioxane	ND	170	78	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.20	ug/kg	
76-13-1	Freon 113	ND	6.7	0.96	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

John R. 6/15/12

Report of Analysis

3.7

5

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.7	3.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	0.18	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	6.7	0.33	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	3.5	ug/kg	
75-09-2	Methylene chloride	ND	6.7	0.31	ug/kg	
100-42-5	Styrene	ND	6.7	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	0.24	ug/kg	
127-18-4	Tetrachloroethene	3.2	6.7	0.26	ug/kg	J
108-88-3	Toluene	ND	1.3	0.51	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	0.59	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	0.46	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	0.32	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	0.58	ug/kg	
79-01-6	Trichloroethene	1.2	6.7	0.33	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.7	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	0.62	ug/kg	
	m,p-Xylene	ND	1.3	0.42	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		67-131%
17060-07-0	1,2-Dichloroethane-D4	100%		66-130%
2037-26-5	Toluene-D8	108%		76-125%
460-00-4	4-Bromofluorobenzene	101%		53-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

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Report of Analysis

3.7
3

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P10120.D	1	05/03/12	KH	04/30/12	OP56625	E3P472
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	61	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	22.0	36	12	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

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Report of Analysis

3.7
3

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	19.2	36	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	17	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	160	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	33.3	36	16	ug/kg	J
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	12	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	
129-00-0	Pyrene	35.5	36	14	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		21-116%
4165-62-2	Phenol-d5	72%		19-117%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

JB5134/12

Report of Analysis

3.7
3

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8270D SW846 3550C	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96%		24-136%
4165-60-0	Nitrobenzene-d5	84%		21-122%
321-60-8	2-Fluorobiphenyl	84%		30-117%
1718-51-0	Terphenyl-d14	119%		31-129%

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

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Report of Analysis

3.7
3

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8081B SW846 3545A	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G74321.D	1	05/09/12	DS	04/30/12	OP56627	G1G2648
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.82	0.41	ug/kg	
319-84-6	alpha-BHC	ND	0.82	0.62	ug/kg	
319-85-7	beta-BHC	ND	0.82	0.58	ug/kg	
319-86-8	delta-BHC	ND	0.82	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.82	0.38	ug/kg	
5103-71-9	alpha-Chlordane	ND <i>UJ</i>	0.82	0.54	ug/kg	
5103-74-2	gamma-Chlordane	ND <i>UJ</i>	0.82	0.42	ug/kg	
60-57-1	Dieldrin	ND	0.82	0.64	ug/kg	
72-54-8	4,4'-DDD	19.2	0.82	0.42	ug/kg	
72-55-9	4,4'-DDE	3.6	0.82	0.49	ug/kg	
50-29-3	4,4'-DDT ^a	6.5 <i>J</i>	0.82	0.60	ug/kg	
72-20-8	Endrin	ND	0.82	0.42	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.82	0.75	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.82	0.78	ug/kg	
959-98-8	Endosulfan-I	ND	0.82	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.82	0.54	ug/kg	
76-44-8	Heptachlor	ND	0.82	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.82	0.41	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.58	ug/kg	
53494-70-5	Endrin ketone	ND	0.82	0.54	ug/kg	
8001-35-2	Toxaphene	ND	21	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		23-137%
877-09-8	Tetrachloro-m-xylene	56%		23-137%
2051-24-3	Decachlorobiphenyl	77%		22-160%
2051-24-3	Decachlorobiphenyl	79%		22-160%

(a) Reported from 2nd signal. %D of check on 1st signal excess method criteria (20 %) so using for confirmation only.

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Jan 6/13/12

Accutest Laboratories

Report of Analysis

3.7
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Client Sample ID:	SCB-XX	Date Sampled:	04/26/12
Lab Sample ID:	JB5134-7	Date Received:	04/27/12
Matrix:	SO - Soil	Percent Solids:	79.3
Method:	SW846 8082A SW846 3545A		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF109176.D	1	05/10/12	GAD	04/30/12	OP56626	GEF4489
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	11	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	21	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	ND	41	13	ug/kg	
11097-69-1	Aroclor 1254	ND	41	19	ug/kg	
11096-82-5	Aroclor 1260	ND	41	14	ug/kg	
11100-14-4	Aroclor 1268	ND	41	12	ug/kg	
37324-23-5	Aroclor 1262	ND	41	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	56%		22-141%
877-09-8	Tetrachloro-m-xylene	66%		22-141%
2051-24-3	Decachlorobiphenyl	96%		18-163%
2051-24-3	Decachlorobiphenyl	107%		18-163%

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

Report of Analysis

3.7

Client Sample ID: SCB-XX	Date Sampled: 04/26/12
Lab Sample ID: JB5134-7	Date Received: 04/27/12
Matrix: SO - Soil	Percent Solids: 79.3
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5300 J	50	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Antimony	<2.0 J	2.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Arsenic	<2.0	2.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Barium	35.3	20	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Beryllium	0.26 J	0.20	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Cadmium	<0.50 J	0.50	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Calcium	3450 J	500	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Chromium	15.5	1.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Cobalt	<5.0	5.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Copper	10.7	2.5	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Iron	10200 J	50	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Lead	9.8	2.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Magnesium	1910 J	500	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Manganese	187 J	1.5	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Mercury	0.047	0.040	mg/kg	1	05/07/12	05/07/12 DP	SW846 7471B ²	SW846 7471B ⁴
Nickel	23.8	4.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Potassium	1260	1000	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Selenium	<2.0	2.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Silver	<0.50 J	0.50	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Sodium	<1000	1000	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Thallium	<1.0	1.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Vanadium	13.8	5.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³
Zinc	22.1	2.0	mg/kg	1	05/01/12	05/06/12 GT	SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA28528
- (2) Instrument QC Batch: MA28530
- (3) Prep QC Batch: MP64128
- (4) Prep QC Batch: MP64236

RL = Reporting Limit

John 6/12/12

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Report of Analysis

Client Sample ID:	FB-4/26/12	Date Sampled:	04/26/12
Lab Sample ID:	JB5134-8	Date Received:	04/27/12
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Belle Cleaners, 40 Purchase Street, Rye, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A115819.D	1	05/04/12	CC	n/a	n/a	V1A4977
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.52	1.0	0.22	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

80/6/11/5/12

Report of Analysis

Client Sample ID: FB-4/26/12	Date Sampled: 04/26/12
Lab Sample ID: JB5134-8	Date Received: 04/27/12
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-120%
17060-07-0	1,2-Dichloroethane-D4	96%		70-127%
2037-26-5	Toluene-D8	92%		79-120%
460-00-4	4-Bromofluorobenzene	94%		76-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID: TB-4/26/12	Date Sampled: 04/26/12
Lab Sample ID: JB5134-9	Date Received: 04/27/12
Matrix: AQ - Trip Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A115775.D	1	05/03/12	CC	n/a	n/a	V1A4975
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND <i>UJ</i>	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND <i>UJ</i>	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND <i>UJ</i>	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND <i>UJ</i>	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

John
 6/1/12

Report of Analysis

3.9
3

Client Sample ID: TB-4/26/12	Date Sampled: 04/26/12
Lab Sample ID: JB5134-9	Date Received: 04/27/12
Matrix: AQ - Trip Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: Belle Cleaners, 40 Purchase Street, Rye, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND <i>JS</i>	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		77-120%
17060-07-0	1,2-Dichloroethane-D4	90%		70-127%
2037-26-5	Toluene-D8	96%		79-120%
460-00-4	4-Bromofluorobenzene	92%		76-118%

JS
6/15/12

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