# MTA/LIRR

# SUPPLEMENTAL FINDINGS REPORT

## for the
## ENVIRONMENTAL SITE INVESTIGATION
## of
## ARCH STREET YARD AND MAINTENANCE FACILITY, PROPOSED FILL AREA
## QUEENS COUNTY, NEW YORK

## QUEENS ALIGNMENT
## EAST SIDE ACCESS PROJECT



**Prepared For:**

*MTA/LONG ISLAND RAIL ROAD*
*EAST SIDE ACCESS*

**Prepared by:**

**MATRIX Environmental and Geotechnical Services**

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## 1.0 INTRODUCTION

The Metropolitan Transportation Authority/Long Island Rail Road (MTA/LIRR) has contracted Parsons Transportation Group (PTG) to provide system engineering consulting services for the East Side Access (ESA) Project. The PTG team is known as the System Engineer (SE) of the Project, and is responsible for providing the conceptual and all preliminary design (30% design) engineering services for the Arch Street Yard and Maintenance Facility (Project site). MATRIX Environmental & Geotechnical Services, Inc. (MATRIX) is the SE's environmental consultant responsible for pre-construction environmental assessments, under the direction of the Program Management Team (PMT) firm. The completed Project will provide direct LIRR service into Manhattan's Grand Central Terminal (GCT) and a new LIRR Sunnyside Station located in western Queens County, New York. Direct access to east midtown Manhattan will improve the regional mobility of Long Island and Queens County residents and commuters.

This document presents findings for the SE's Supplemental ESI of an area proposed to receive fill from the construction of the Arch Street Yard and Maintenance Facility. The proposed fill areas are located on the western portion of the Arch Street Project site located in Queens County, New York (Figure 1). The results of an initial ESI were previously issued in a separate Findings Report (SE, October, 2000). The initial ESI evaluated the quality of soil at the construction areas and the Findings Report provides information on the quality of the soil that will be filled over the area described in this report.

The proposed fill area is part of the Arch Street Yard and is currently not in use (Figure 2). The proposed fills areas are generally defined as an approximately one and a half acre site bounded by Vernon Blvd to the west, 48$^{th}$ Avenue to the north, 49$^{th}$ Avenue to the south, and 21$^{st}$ Street to the east. Buildings and business lots along 49$^{th}$ Avenue border the site to the south. A portion of the site is located underneath the 11$^{th}$ Street and Jackson Avenue overpass. Currently one set of railroad tracks run west underneath the overpass and split into two separate lines ending approximately 200 feet from Vernon Boulevard. The rectangular fill area is a cut, historically used to transport freight to the East River. The Queens West project filled in a portion of the railroad cut for that waterfront development. The triangular fill area is an embankment adjacent to the parking lot of 47-40 21$^{st}$ Street. Photographs of the site are presented in Appendix B.

## 2.0 FIELD PROCEDURES

This section describes the field methodologies used for the Supplemental Arch Street ESI. The field methodologies were performed in accordance with the Arch Street Yard and Maintenance Facility Sampling and Analysis Plan (SAP) Addendum (May 2002). The SAP described methods for soil borings, soil sampling procedures, analytical requirements, and QA/QC procedures. The SAP procedures were developed in general accordance with New York State Department of Environmental Conservation (NYSDEC) sampling techniques and analytical protocols. The ESI focused on the proposed fill areas located on the western portion of the site, which are proposed to be filled in with the soil excavated from Arch Street construction activities.

### 2.1 Environmental Site Investigation (ESI) Objectives

To meet the objectives of the Supplemental Arch Street ESI, soil borings and sampling was performed throughout the area to be filled to document soil conditions. The environmental investigation consisted of the following:

- Fifteen (15) environmental borings were installed (Figure 3). Some of the boring locations were slightly moved in the field from locations shown in the SAP, based on subsurface obstructions and other field factors, such the presence of railroad ties.
- Fifteen (15) composite soil samples were collected at the 15 boring locations. The soil samples were analyzed for TCL semivolatile organic compounds, TCL PCBs/pesticides, and priority pollutant metals.
- Fifteen (15) TCL Volatile Organic Compounds (VOC) samples were collected at the 15 boring locations. The VOC samples were taken from the discrete 6 inch interval which displayed the greatest potential for contamination. This was determined by FID readings, visual observations, or sampled from the bottom of the borehole if water was not encountered.

Sample point names for the Supplemental Arch Street ESI consisted of the Project investigation team name, or System Engineer (SE), Project construction area, (AR, for Arch Street) and sample point identification number. Sample point SE-AR-201, for example designates that the System Engineer (SE) installed a soil boring within the Arch Street (AR) site at sample point number 201. Boring identifications are presented in Table 1.

The following section describes procedures used for the collection and sampling of the existing contaminated soil/fill material in the proposed fill areas.

## 2.2 Environmental Site Investigation

### 2.2.1 Soil Borings

A total of fifteen (15) soil borings were installed within the proposed fill area associated with the Arch Street Project site. Soil boring installation and sample depth intervals for the Supplemental Arch Street ESI were generally 0 to 4-foot deep for all areas to be backfilled with the exception of some borings where groundwater was very shallow or large debris was encountered. The soil boring and locations are shown in Figure 3.

A composite sample analyzed for semi-volatile organic compounds (SVOCs), priority pollutant metals, PCBs, and pesticides was taken from the bottom of the borehole to grade. A VOC grab sample was taken at the six inch interval with the greatest potential for contamination. The soil sampling depth for each of boreholes is presented in Table 1.

#### 2.2.1.1 Hand Auger Soil Sampling Procedures

Borings were excavated with a hand auger, constructed of stainless steel with an insulated handle. Each soil core was considered a unique soil sample and was assigned a field identification number.

During soil boring (hand augering) activities, discrete or grab soil aliquots were immediately collected from each soil core. Laboratory-provided, glass sampling jars were filled for VOC analysis so that little or no headspace exists. The additional soil from the cores was prepared for laboratory submission and analysis of remaining analytical parameters. Samples were mixed in a contaminant-free, stainless steel container and gravel, wood, and construction debris were removed. Composited soil samples were then transferred into laboratory provided glass-sampling jars. Samples for VOC analysis were from the 6 inch interval with the greatest potential for contamination. After filling the appropriate sample containers, all samples were placed in a cooler and stored on ice at or below 4° Celsius prior to laboratory submission.

#### 2.2.1.2 Field Characterization of Soil

Field characterization of recovered material included screening for VOCs and soil description. Each hand augered soil sample was scanned for VOCs with a flame-ionization detector (FID). The FID is a direct reading instrument that is not affected by humidity. Prior to the start of any work, and as required during the day, the FID was calibrated as described in the SAP. At each sampling location, FID readings were determined for ambient air and considered the background concentration. Immediately following retrieval of the soil core, soil gas readings were measured along the soil sample and recorded on the boring log.

The lithology of the screened sample was classified according to the Unified Soil Classification System (USCS), and the presence of soil staining, odors, suspected contaminants, moisture, and FID readings were noted in the boring logs (Appendix A).

### 2.2.3 Soil Sampling and Analysis

Soil sample analytical parameters selected for the Supplemental Arch Street ESI were based on prior environmental investigations conducted previously at Arch Street Yard and at adjacent railroad facilities (Sunnyside Yard and Yard A) and to maintain consistency with other ESA ESIs. These analytical parameters included VOCs, SVOCs, PCBs, pesticides, and metals.

#### 2.2.3.1 Soil Analytical Parameters

Soil samples were submitted to characterize the nature and extent of contamination present in the area to receive soil fill. Analytical parameters are presented in Table 2 and include the following:

- TCL VOCs by EPA Method 8260B
- TCL SVOCs by EPA Method 8270C
- TCL PCBs/Pesticides by EPA Methods 8082/8081A
- Priority Pollutant Metals by EPA Method SW 846

QA/QC samples, including aqueous field and trip blanks, were handled as described in the SAP. All soil samples collected for the Supplemental Arch Street ESI were submitted to Accutest Laboratories, Inc. (NY No. 10983) for analysis.

## 3.0 FINDINGS

The following sections discuss the analytical sampling results of the Supplemental Arch Street ESI.

Laboratory analytical results are presented in Appendix C. The standard, criteria, and guidance values of the following documents were considered in evaluation of the soil sample analytical results of the Supplemental ESI.

| REGULATORY DOCUMENTS | ESI APPLICABILITY |
|---|---|
| NYDEC STARS Memo #1, Petroleum Contaminated Soil Guidance Policy, August 1992. | Guidance values for VOC and SVOC results. |
| NYSDEC TAGM HWR-92-4046 – Determination of Soil Cleanup Objectives and Cleanup Levels, January 24, 1994. | Guidance values for PCBs, Pesticides, metals, VOC, and SVOC results. |
| NYSDEC Record of Decision – Amtrak Sunnyside Yard Operable Unit 1: Proposed High Speed Trainset Facility (HSTF) Building, Queens N.Y. Site No. 241006, August 1997. | Soil characterization criteria for PCBs, cPAHs and lead results. |
| NY Department of Health – July 15, 1997 Correspondence and NYSDEC – March 27, 1998 Correspondence (Appendix D) | Guidance values for Carcinogenic PAHs |

In addition to statewide guidance documents, the results of this Supplemental Arch Street ESI are also compared to cleanup criteria established by NYSDEC, in consultation with the New York State Department of Health (NYSDOH), for the nearby OU-1 at Amtrak's Sunnyside Yard:

- PCBs – 25 ppm total for both surface and subsurface soils.
- Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs) – 25 ppm total for both surface and subsurface soils; and
- Lead – 1,000 ppm total for both surface and subsurface soils.

These cleanup criteria are based on the fact that the site will remain a rail yard and all future use of the site will be limited to rail operations.

### 3.1 Field Characterization of Soil

The soil boring logs in Appendix A summarize the field characterization of soil throughout the study area. The soil consists primarily of fill material, typically sand and gravel mixed with cinder and ballast to a depth of approximately 4 ft-bg. According to Sanborn Maps, the rail facilities at Arch Street were created at the turn-of-the-century by the placement of fill material in a tributary to Newtown Creek and its associated wetlands.

In general, no significant visible soil contamination was evident during the performance of ESI activities. However, odors and an FID reading were detected at boring SE-AR-203.

### 3.2 Volatile Organic Compounds

Summaries of soil sample analytical results for VOCs appear in Table 3.

Fifteen (15) soil samples were collected for VOC analysis. Five of the 15 locations (SE-AR-203, SE-AR-206, SE-AR-211, SE-AR-213 and SE-AR-215) contained detectable VOC concentrations. Detectable concentrations were not above NYSDEC soil characterization criteria.

The 10,000 ppb soil characterization criteria for total VOCs was not exceeded at any of the soil samples collected as part of the supplemental ESI. The total concentration of VOCs for the samples ranged from non-detectable to 29.9 ppb (SE-AR-206).

### 3.3 Semi-Volatile Organic Compounds

Fifteen (15) soil samples were collected for SVOC analysis. All of the 15 locations contained SVOC concentrations exceeding at least one SVOC soil characterization criteria.

SVOCs which exceeded the soil characterization criteria are: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. The SVOCs: Indeno(1,2,3-cd)pyrenene benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenzo(a,h)anthracene are classified as carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs) as per the New York State Department of Health, Bureau of Toxic Substance Assessment (Appendix D).

The 500,000 ppb soil characterization criteria for total SVOCs was not exceeded at any of the soil samples collected as part of the Supplemental ESI, except for soil sample SE-AR-214 (512,326 ppb). The total concentration of SVOCs for the samples ranged from 1,702 ppb (SE-AR-210) to 512,326 ppb (SE-AR-214).

The soil characterization criteria for total carcinogenic SVOCs (cPAHs) was exceeded in two of the 15 samples analyzed. The 25,000 ppb soil characterization criteria for total cPAHs was exceeded at soil sample locations SE-AR-212 (86,840 ppb) and SE-AR-214 (211,930 ppb)

### 3.4 PCBs

Summaries of soil sample analytical results for total PCBs appear in Table 5.

Fifteen (15) soil samples were collected for PCB analysis. PCBs were detected in 4 of the 15 locations, however none of the sample locations exceeded the soil characterization criteria of 1,000 ppb for surface soil. The total PCB concentrations ranged from non-detectable to 434 ppb (SE-AR-214).

### 3.5 Pesticides

Summaries of soil sample analytical results for pesticides appear in Table 6.

Fifteen (15) soil samples were collected for pesticides analysis. Pesticides were detected in 12 of the 15 locations, but none of the concentrations exceeded the soil characterization criteria. The pesticide (total) concentrations ranged from non-detectable to 37.8 ppb (SE-AR-212).

### 3.6 Metals

Summaries of soil sample analytical results for metals appear in Table 7.

Fifteen (15) soil samples were collected for metals analysis. All of the 15 locations contained concentrations of at least three of the metals in excess of the soil characterization criteria.

- Arsenic exceeded the soil characterization criterion (7.5 ppm) at all 15 soil sample locations with the exception of SE-AR-205, SE-AR-207, SE-AR-209, SE-AR-210, SE-AR-211, and SE-AR-213. The highest arsenic concentration was detected at SE-AR-212 (703 ppm).

- Beryllium was not detected at any locations. However, the detection limits (<0.55 to <0.75 ppm) were above the soil characterization criteria of 0.16 ppm.

- Barium exceeded the soil characterization criteria (300 ppm) at one location (SE-AR-214) where it was detected at a concentration of 1,070 ppm.

- Cadmium exceeded the soil characterization criterion (1 ppm) at 2 of the 15 soil sample locations (SE-AR-208 and SE-AR-212). The highest cadmium concentration was detected at SE-AR-212 (3.6 ppm).

- Chromium exceeded the soil characterization criterion (10 ppm) at all of the 15 soil sample locations, except SE-AR-207. The highest chromium concentration was detected at SE-AR-202 (42.4 ppm).

- Copper exceeded the soil characterization criterion (25 ppm) at all of the 15 soil samples locations. Concentrations of copper ranged from 35.6 ppm (SE-AR-209) to 3,140 ppm (SE-AR-212).

- Lead exceeded the soil characterization criteria for Sunnyside Yard's OU-1 (1,000 ppm) at only one location (SE-AR-212) where it was detected at a concentration of 1,250 ppm.

- Mercury exceeded the soil characterization criterion (0.1 ppm) at all of the 15 soil sample locations, except SE-AR-206 and SE-AR-209. The highest mercury concentration was detected at SE-AR-212 (1.2 ppm).

- Nickel exceeded the soil characterization criterion (13 ppm) at 12 of the 15 soil sample locations. The highest concentration of nickel was detected at SE-AR-212 (72.6 ppm).

- Selenium exceeded the soil characterization criterion (2 ppm) at 6 of the 15 soil sample locations. The highest concentration of selenium was detected at SE-AR-212 (10.1ppm).

- Zinc exceeded the soil characterization criteria (20 ppm) at all of the 15 soil sample locations. The highest concentration of zinc was detected at SE-AR-212 (1,890 ppm).

## 4.0 Conclusions

The results of the ESI activities conducted within the limits of the proposed fill area indicates that the soil is generally historic fill material that is contaminated with petroleum related compounds including SVOCs and metals above soil characterization criteria. The SVOCs include cPAHs. Two locations had concentrations of cPAHs above the Amtrak Sunnyside Yard OU-1 criteria (25 ppm). These two samples were collected on the embankment located on the southeast side of Jackson Avenue (SE-AR-212 and SE-AR-214). The embankment supports a partial retaining wall and parking lot of the adjacent building at 47-40 21st Street. With the exception of chromium at one location, the highest concentration of each of the metals was also detected in the same embankment, at SE-AR-212 or SE-AR-214. At location SE-AR-212, lead exceeded the Amtrak Sunnyside Yard OU-1 criteria (1,000 ppm).

All other sample results are consistent with the concentrations detected in other parts of the Arch Street Yard where the soil is classified as historic fill material with elevated SVOCs and metals.

## 5.0 REFERENCES

SE (MATRIX), 2000a. "Sampling and Analysis Plan (SAP) for the Environmental Site Assessment of Arch Street Yard and Maintenance Facility, Queens County, New York – Queens Alignment of the East Side Access Project", August 2000.

SE (MATRIX), 2000b. "Findings Report for the Environmental Assessment of the Arch Street Yard and Maintenance Facility, Queens County, New York – Queens Alignment of the East Side Access Project", October 2000.

MTA/LIRR, 1999. East Side Access (Grand Central Terminal) Project Scope of Work for the Tunnel Engineering Consultant Conceptual, Preliminary Engineer, Final Design and Construction Phase Services, Section 3.1.8, 1999.

NYSDEC, 1995. Analytical Services Protocol, October 1995 Revisions. Edited by Lawrence T. Bailey.

NYSDEC, 1997a. Proposed Remedial Action Plan (PRAP) for Amtrak Sunnyside Yard, Operable Unit 1 Proposed High Speed Trainset Facility (HSTF) Building, June 1997.

NYSDEC, 1997b. Record of Decision, Amtrak, Sunnyside Yard Operable Unit 1: Proposed High Speed Trainset Facility (HSTF) Building, Queens, New York, Site Number 241006, June 1997.

NYSDEC, 1997c. Proposed Remedial Action Plan (PRAP) for Amtrak Sunnyside Yard, Operable Unit 2 Proposed High Speed Trainset Facility (HSTF) Building, November 1997.

PTG, 2000, Revision No. 1. System Engineering Consultant – East Side Access Project - Environmental Safety and Health Plan.

PB/STV, 1999a. Tunnel Engineering Consultant Health and Safety Program for the East Side Access Project. Prepared for MTA/LIRR, August 1999.

PB/STV, 1999b. Health and Safety Plan for the Environmental Site Investigation of the East Side Access Project Alignment and Replacement Yards. Prepared for MTA/LIRR, August 1999.

TABLES

**Table 1**

**SUMMARY OF SOIL SAMPLING**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| BORING IDENTIFICATION (Hand Auger) | DATE | *GRAB SAMPLE DEPTH (ft-bg) | *COMPOSITE SAMPLE DEPTH (ft-bg) | TOTAL DEPTH (ft-bg) | SAMPLE FREQUENCY |
|---|---|---|---|---|---|
| | | | | | |
| SE-AR-201 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-202 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-203 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-204 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-205 | 07/02/02 | 3 - 3.5 | 0 - 3.5 | 3.5 | 1 |
| SE-AR-206 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-207 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-208 | 07/02/02 | 2.5 - 3 | 0 - 3 | 3 | 1 |
| SE-AR-209 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-210 | 07/02/02 | 3 - 3.5 | 0 - 3.5 | 3.5 | 1 |
| SE-AR-211 | 07/02/02 | 1.5 - 2 | 0 - 4 | 4 | 1 |
| SE-AR-212 | 07/02/02 | 3.5 - 4 | 0 - 4 | 4 | 1 |
| SE-AR-213 | 07/02/02 | 0.5 - 1 | 0 - 2 | 2 | 1 |
| SE-AR-214 | 07/02/02 | 2.5 - 3 | 0 - 3 | 3 | 1 |
| SE-AR-215 | 07/02/02 | 2 - 2.5 | 0 - 2.5 | 2.5 | 1 |
| FB | 07/02/02 | NA | NA | NA | 1 |
| TB | 07/01/02 | NA | NA | NA | 1 |
| **Total Number of Soil Samples:** | | | | | 17 |

*Grab samples collected for VOC analysis only. Composite samples collected for the additional analyses. (See Table 2)
ft-bg = feet-below grade
SE-AR = System Engineer-Arch Street
NA = Not applicable

## Table 2

## SUMMARY OF SOIL AND QA/QC ANALYTICAL PARAMETERS
## SUPPLEMENTAL ESI: PROPOSED FILL AREA
## ARCH STREET YARD AND MAINTENANCE FACILITY
## Systems Engineer (MATRIX) East Side Access Project
## Long Island City, Queens County, New York

| SOIL/FILL ANALYTICAL PARAMETERS | LABORATORY METHOD | NUMBER OF SOIL SAMPLES |
|---|---|---|
| TCL VOCs | 8260B | 15 |
| TCL SVOCs | 8270C | 15 |
| TCL PCBs/Pesticides | 8082/8081A | 15 |
| PP Metals | SW 846 | 15 |
| **Total Number of Analyses:** | | 60 |

| QA/QC ANALYTICAL PARAMETERS | LABORATORY METHOD | NUMBER OF QA/QC SAMPLES [1] |
|---|---|---|
| TCL VOCs | 624/8260B | 2 |
| TCL SVOCs | 624/8270B | 1 |
| TCL PCBs/Pesticides | 8015/8015 Modified | 1 |
| PP Metals | SW 846 | 1 |
| **Total Number of Analyses:** | | 5 |

QA/QC = Quality Assurance/Quality Control
PCBs = Polychlorinated Biphenyls
PP = Priority Pollutant
SVOCs = Semi-volatile Organic Compounds
VOCs = Volatile Organic Compounds

**Table 3**

**SUMMARY OF SOIL SAMPLE RESULTS FOR VOLATILE ORGANIC COMPOUNDS**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | SE-AR-201 | SE-AR-202 | SE-AR-203 | SE-AR-204 | SE-AR-205 | SE-AR-206 | SE-AR-207 | SE-AR-208 | SE-AR-209 |
|---|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Guidance Value (ppb) | Concentration (ppb or ug/Kg) | | | | | | | | |
| Acetone | 200 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | NA | ND | ND | ND | ND | ND | 27.3 | ND | ND | ND |
| trans-1,2-Dichloroethene | 300 | ND | ND | ND | ND | ND | 2.6 J | ND | ND | ND |
| Methyl Tert Butyl Ether | 1,000 | ND | ND | 2.3 | ND | ND | ND | ND | ND | ND |
| Xylene (total) | 1,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **Total VOCs:** | 10,000 | 0 | 0 | 2.3 | 0 | 0 | 29.9 | 0 | 0 | 0 |

Samples analyzed for TCL VOCs by EPA Method 8260B.
Guidance value is the recommended soil cleanup objective per NYSDEC TAGM #4046.
TCL = Target Compound List
VOCs = Volatile Organic Compounds
ND = Not Detected
NA = Not Available
All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg).
Only those compounds that were detected are shown.

**Table 3 con't**

**SUMMARY OF SOIL SAMPLE RESULTS FOR VOLATILE ORGANIC COMPOUNDS**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | SE-AR-210 | SE-AR-211 | SE-AR-212 | SE-AR-213 | SE-AR-214 | SE-AR-215 | FB | TB |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Aqueous | Aqueous |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/1/2002 |
| Compound | Guidance Value (ppb) | Concentration (ppb or ug/Kg) | | | | | | | |
| Acetone | 200 | ND | 17.9 | ND | ND | ND | 19 | ND | ND |
| cis-1,2-Dichloroethene | NA | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 300 | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl Tert Butyl Ether | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| Xylene (total) | 1,200 | ND | ND | ND | 3.7 | ND | ND | ND | ND |
| **Total VOCs:** | 10,000 | 0 | 17.9 | 0 | 3.7 | 0 | 19 | 0 | 0 |

Samples analyzed for TCL VOCs by EPA Method 8260B.
Guidance value is the recommended soil cleanup objective per NYSDEC TAGM #4046.
TCL = Target Compound List
VOCs = Volatile Organic Compounds
ND = Not Detected
NA = Not Available
All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg).
Only those compounds that were detected are shown.

Table 4

**SUMMARY OF SOIL SAMPLE RESULTS FOR SEMI-VOLATILE ORGANIC COMPOUNDS**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | SE-AR-201 | SE-AR-202 | SE-AR-203 | SE-AR-204 | SE-AR-205 | SE-AR-206 | SE-AR-207 | SE-AR-208 |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| **Compound** | **Guidance Value (ppb)** | **Concentration (ppb or ug/Kg)** | | | | | | | |
| Acenaphthene | **50,000** | 84.1 | 39.7 J | ND | ND | ND | 202 | ND | 97 |
| Acenaphthylene | **41,000** | 159 | 43.1 J | 155 | 131 | 68.2 J | 268 | 128 | 83.8 |
| Anthracene | **50,000** | 305 | 101 | 198 | 173 | 105 | 624 | 145 | 221 |
| Benzo(a)anthracene** | **224** | **845** | 207 | **388** | **424** | **280** | **2,010** | **441** | **583** |
| Benzo(a)pyrene** | **61** | **749** | **189** | **385** | **416** | **244** | **1,530** | **406** | **544** |
| Benzo(b)fluoranthene** | **1,100** | 1,530 | 380 | 890 | 1,050 | 547 | **2,580** | 851 | 762 |
| Benzo(g,h,i)perylene | **50,000** | 617 | 147 | 328 | 425 | 216 | 1,190 | 358 | 383 |
| Benzo(k)fluoranthene** | **1,100** | 481 | 119 | 268 | 345 | 178 | 991 | 249 | 330 |
| Butyl benzyl phthalate | **50,000** | ND | ND | ND | ND | ND | ND | ND | 38.7 |
| Carbazole | **NA** | 119 | ND | ND | 45 J | ND | 207 | 55 J | 105 |
| Chrysene** | **400** | **1,020** | 326 | **628** | **642** | 394 | **2,220** | **630** | **663** |
| Dibenzo(a,h)anthracene** | **14** | **189** | **43.3 J** | **110** | **138** | **56.3 J** | **355** | **99.5** | **96.3** |
| Dibenzofuran | **6,200** | 144 | ND | 106 | 43.2 J | 52.9 J | 318 | 64.7 J | 87.6 |
| Di-n-butyl phthalate | **8,100** | 224 | ND | 268 | 92.6 | 69 J | 226 | ND | 117 |
| bis(2-Ethylhexyl)phthalate | **50,000** | 730 | ND | ND | 170 | 85.8 | 356 | ND | 390 |
| Fluoranthene | **50,000** | 1,680 | 395 | 669 | 580 | 562 | 3,770 | 921 | 1,320 |
| Fluorene | **50,000** | 74.5 J | ND | ND | ND | ND | 229 | ND | 93 |
| Indeno(1,2,3-cd)pyrene** | **3,200** | 749 | 166 | 422 | 483 | 248 | 1,410 | 419 | 404 |
| 2-Methylnaphthalene | **36,400** | 164 | 46.7 J | 105 | 59 J | 68.9 J | 296 | 71.2 J | 43.8 |
| Naphthalene | **13,000** | 156 | ND | 84.6 | 49.6 J | 59 J | 300 | 72.2 J | 66 |
| Phenanthrene | **50,000** | 1,070 | 383 | 466 | 239 | 332 | 1,760 | 442 | 1,060 |
| Pyrene | **50,000** | 1,300 | 319 | 454 | 501 | 413 | 3,130 | 699 | 1,000 |
| Total SVOCs: | **500,000** | 12,390 | 2,905 | 5,925 | 6,006 | 3,979 | 23,972 | 5,789 | 8,489 |
| Total Carcinogenic SVOCs: | **25,000*** ** | 5,563 | 1,430 | 3,091 | 3,498 | 1,947 | 11,096 | 3,096 | 3,382 |

Samples analyzed for SVOCs by EPA Method 8270C.
All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg) dry
Only those compounds that were detected are shown.
ND = Not Detected
SVOCs = Semivolatile Organic Compounds
TCL = Target Compound List

**Bold:** Value exceeds the recommended soil cleanup objective per NYSDEC TAGM #4046.
NA: No guidance value provided in TAGM #4046
**: Carcinogenic compound, as listed in NYSDOH correspondence of July 15, 1997 (Appendix D).
***:Total potentially carcinogenic PAHs in surface and subsurface soils. Site-specific values as per 1998 NYSDEC correspondence for OU-1 of Sunnyside Yard (Appendix D).

Table 4 con't

## SUMMARY OF SOIL SAMPLE RESULTS FOR SEMI-VOLATILE ORGANIC COMPOUNDS
## SUPPLEMENTAL ESI: PROPOSED FILL AREA
## ARCH STREET YARD AND MAINTENANCE FACILITY
## Systems Engineer (MATRIX) East Side Access Project
## Long Island City, Queens County, New York

| Boring Identification | | SE-AR-209 | SE-AR-210 | SE-AR-211 | SE-AR-212 | SE-AR-213 | SE-AR-214 | SE-AR-215 | FB |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Aqueous |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Guidance Value (ppb) | Concentration (ppb or ug/Kg) | | | | | | | |
| Acenaphthene | **50,000** | 153 | ND | 2,110 | 1,440 | 3,190 | 8,500 | 3,130 | ND |
| Acenaphthylene | **41,000** | 62.2 J | ND | 290 | 1,800 | 191 J | 496 | 327 | ND |
| Anthracene | **50,000** | 247 | 34.1 J | 1,790 | 4,100 | 1,020 | 18,900 | 1,240 | ND |
| Benzo(a)anthracene** | **224** | **522** | 143 | **2,320** | **15,300** | **1,310** | **42,100** | **2,230** | ND |
| Benzo(a)pyrene** | **61** | **449** | **147** | **1,580** | **14,600** | **827** | **34,800** | **1,430** | ND |
| Benzo(b)fluoranthene** | **1,100** | 749 | 193 | **2,610** | **20,600** | **1,220** | **46,900** | **2,270** | ND |
| Benzo(g,h,i)perylene | **50,000** | 307 | 105 | 1,150 | 9,440 | 478 | 20,800 | 887 | ND |
| Benzo(k)fluoranthene** | **1,100** | 271 | 88.9 | 984 | **6,040** | 555 | **12,700** | 1,010 | ND |
| Butyl benzyl phthalate | **50,000** | ND | ND | 506 | ND | ND | 4,870 | ND | ND |
| Carbazole | **NA** | 40 J | ND | 512 | 2,220 | 300 | 11,500 | 308 | ND |
| Chrysene** | **400** | **606** | 158 | **2,510** | **15,900** | **1,400** | **41,900** | **2,460** | ND |
| Dibenzo(a,h)anthracene** | **14** | **77.9** | ND | **274** | **2,800** | **111 J** | **8,730** | **219 J** | ND |
| Dibenzofuran | **6,200** | 115 | ND | 1,520 | 678 | 1,450 | 4,630 | 1,500 | ND |
| Di-n-butyl phthalate | **8,100** | ND | ND | ND | 224 | ND | ND | ND | ND |
| bis(2-Ethylhexyl)phthalate | **50,000** | ND | 62.8 J | 1,250 | 1,120 | 191 J | 6,020 | 325 | ND |
| Fluoranthene | **50,000** | 942 | 286 | 8,070 | 26,200 | 4,820 | **86,500** | 7,670 | ND |
| Fluorene | **50,000** | 105 | ND | 2,010 | 1,080 | 1,720 | 7,840 | 1,500 | ND |
| Indeno(1,2,3-cd)pyrene** | **3,200** | 348 | 105 | 1,290 | **11,600** | 513 | **24,800** | 981 | ND |
| 2-Methylnaphthalene | **36,400** | 54.6 J | ND | 566 | 275 | 386 | 1,660 | 423 | ND |
| Naphthalene | **13,000** | 68.5 J | ND | 1,180 | 465 | 1,170 | 3,580 | 1,010 | ND |
| Phenanthrene | **50,000** | 416 | 145 | 6,580 | 13,200 | 3,530 | **61,900** | 3,180 | ND |
| Pyrene | **50,000** | 1,060 | 234 | 5,810 | 22,400 | 3,300 | **63,200** | 5,670 | ND |
| Total SVOCs: | **500,000** | 6,593 | 1,702 | 44,912 | 171,482 | 27,682 | **512,326** | 37,770 | 0 |
| Total Carcinogenic SVOCs: | **25,000*** ** | 3,023 | 835 | 11,568 | **86,840** | 5,936 | **211,930** | 10,600 | 0 |

Samples analyzed for SVOCs by EPA Method 8270C.
All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg) dry
Only those compounds that were detected are shown.
ND = Not Detected
SVOCs = Semivolatile Organic Compounds
TCL = Target Compound List

**Bold:** Value exceeds the recommended soil cleanup objective per NYSDEC TAGM #4046.
NA: No guidance value provided in TAGM #4046
**: Carcinogenic compound, as listed in NYSDOH correspondence of July 15, 1997 (Appendix D).
***:Total potentially carcinogenic PAHs in surface and subsurface soils. Site-specific values as per 1998 NYSDEC correspondence for OU-1 of Sunnyside Yard (Appendix D).

Table 5

**SUMMARY OF SOIL SAMPLE RESULTS FOR PCBs**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | | | SE-AR-201 | SE-AR-202 | SE-AR-203 | SE-AR-204 | SE-AR-205 | SE-AR-206 | SE-AR-207 | SE-AR-208 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Matrix | | | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | | | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Guidance Value (ug/Kg) Surface* | Guidance Value (ug/Kg) Subsurface* | NYSDEC Site-Specific** Cleanup Criteria (ug/Kg) Surface and Subsurface | Concentration (ppb or ug/Kg) | | | | | | | |
| Aroclor 1248 | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1254 | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1260 | NA | NA | NA | 41.9 | ND | ND | ND | ND | 50.5 | ND | ND |
| | | | | | | | | | | | |
| **Total PCBs:** | **1,000** | **10,000** | **25,000** | 41.9 | 0 | 0 | 0 | 0 | 50.5 | 0 | 0 |

Samples analyzed for PCBs by EPA Method 8082.

All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg).

Only those compounds that were detected are shown.

*Guidance values are the NYSDEC TAGM #4046 Recommended Cleanup Objectives for both subsurface and surface soils.

**NYSDEC site-specific cleanup criteria are from OU-1 of Sunnyside Yard.

ND = Not Detected

NA = Not Available

PCBs = Polychlorinated biphenyls

Table 5 con't

**SUMMARY OF SOIL SAMPLE RESULTS FOR PCBs**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | | | SE-AR-209 | SE-AR-210 | SE-AR-211 | SE-AR-212 | SE-AR-213 | SE-AR-214 | SE-AR-215 | FB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Matrix | | | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Aqueous |
| Sample Date | | | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Guidance Value (ug/Kg) Surface* | Guidance Value (ug/Kg) Subsurface* | NYSDEC Site-Specific** Cleanup Criteria (ug/Kg) Surface and Subsurface | Concentration (ppb or ug/Kg) | | | | | | | |
| Aroclor 1248 | NA | NA | NA | ND | ND | 269 | ND | ND | ND | ND | ND |
| Aroclor 1254 | NA | NA | NA | ND | ND | ND | ND | ND | 265 | ND | ND |
| Aroclor 1260 | NA | NA | NA | ND | ND | 84.3 | ND | ND | 169 | ND | ND |
| | | | | | | | | | | | |
| **Total PCBs:** | **1,000** | **10,000** | **25,000** | 0 | 0 | 353.3 | 0 | 0 | 434 | 0 | 0 |

Samples analyzed for PCBs by EPA Method 8082.

All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg).

Only those compounds that were detected are shown.

*Guidance values are the NYSDEC TAGM #4046 Recommended Cleanup Objectives for both subsurface and surface soils.

**NYSDEC site-specific cleanup criteria are from OU-1 of Sunnyside Yard.

ND = Not Detected

NA = Not Available

PCBs = Polychlorinated biphenyls

## Table 6

## SUMMARY OF SOIL SAMPLE RESULTS FOR PESTICIDES
## SUPPLEMENTAL ESI: PROPOSED FILL AREA
## ARCH STREET YARD AND MAINTENANCE FACILITY
## Systems Engineer (MATRIX) East Side Access Project
## Long Island City, Queens County, New York

| Boring Identification | | SE-AR-201 | SE-AR-202 | SE-AR-203 | SE-AR-204 | SE-AR-205 | SE-AR-206 | SE-AR-207 | SE-AR-208 |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Regulatory Level (ppb) | Concentration (ppb or ug/Kg) | | | | | | | |
| gamma-BHC (Lindane) | **60** | ND | ND | ND | ND | ND | ND | ND | ND |
| alpha-Chlordane | **NA** | 1.2 | ND | ND | ND | ND | ND | ND | ND |
| gamma-Chlordane | **540** | 1.8 | ND | ND | ND | ND | ND | ND | ND |
| Dieldrin | **44** | ND | ND | ND | ND | ND | ND | ND | 1.3 |
| 4,4'-DDD | **2,900** | 3.7 | ND | ND | ND | 0.94 | 13.3 | ND | ND |
| 4,4'-DDE | **2,100** | 2.3 | ND | ND | ND | ND | ND | ND | 1.4 |
| 4,4'-DDT | **2,100** | 7.3 | ND | 2.2 | 2 | 2.7 | 3.1 | 1.3 | 3.5 |
| **Total Pesticides:** | **10,000** | 16.3 | 0 | 2.2 | 2 | 3.64 | 16.4 | 1.3 | 6.2 |

Samples analyzed for TCL Pesticides by EPA Method 8081A.
All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg)
Only those compounds that were detected are shown.
Regulatory Levels are the recommended soil cleanup objective per NYSDEC TAGM #4046.
TCL = Target Compound List
ND = Not Detected
NA = Not Available

Table 6 con't

**SUMMARY OF SOIL SAMPLE RESULTS FOR PESTICIDES**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | SE-AR-209 | SE-AR-210 | SE-AR-211 | SE-AR-212 | SE-AR-213 | SE-AR-214 | SE-AR-215 | FB |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Aqueous |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Regulatory Level (ppb) | Concentration (ppb or ug/Kg) | | | | | | | |
| gamma-BHC (Lindane) | **60** | ND | ND | 3.9 | ND | ND | ND | ND | ND |
| alpha-Chlordane | **NA** | ND | ND | ND | 7.9 | ND | ND | ND | ND |
| gamma-Chlordane | **540** | ND | ND | ND | ND | ND | ND | ND | ND |
| Dieldrin | **44** | ND | ND | 2.7 | ND | ND | ND | ND | ND |
| 4,4'-DDD | **2,900** | ND | ND | 9.2 | ND | ND | ND | 3.4 | ND |
| 4,4'-DDE | **2,100** | ND | ND | ND | ND | ND | 17.9 | ND | ND |
| 4,4'-DDT | **2,100** | ND | 1.8 | ND | 29.9 | ND | ND | ND | ND |
| **Total Pesticides:** | **10,000** | 0 | 1.8 | 15.8 | 37.8 | 0 | 17.9 | 3.4 | 0 |

Samples analyzed for TCL Pesticides by EPA Method 8081A.
All data is in parts per billion (ppb) - micrograms per kilogram (ug/Kg)
Only those compounds that were detected are shown.
Regulatory Levels are the recommended soil cleanup objective per NYSDEC TAGM #4046.
TCL = Target Compound List
ND = Not Detected
NA = Not Available

Table 7

**SUMMARY OF SOIL SAMPLE RESULTS FOR METALS**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | SE-AR-201 | SE-AR-202 | SE-AR-203 | SE-AR-204 | SE-AR-205 | SE-AR-206 | SE-AR-207 | SE-AR-208 |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Guidance Value (ppm) | Concentration (ppm or mg/Kg) | | | | | | | |
| Antimony | SB | 2 | ND | 3.1 | 1.8 | ND | 1.9 | 2.9 | ND |
| Arsenic | 7.5 or SB | **17.8** | **32** | **33.3** | **14.1** | 7 | **19.6** | 6.8 | **16.1** |
| Barium | 300 or SB | 78.3 | 110 | 105 | 47.9 | 82.8 | 116 | 70.6 | 172 |
| Cadmium | 1 or SB | ND | ND | ND | ND | ND | 0.74 | ND | **1.2** |
| Chromium | 10 or SB | **30.2** | **42.4** | **14.8** | **16.7** | **16.3** | **23.7** | 9.6 | **19.3** |
| Copper | 25 or SB | **381** | **374** | **158** | **195** | **68.9** | **196** | **59.5** | **104** |
| Lead | 1,000 | 271 | 145 | 161 | 153 | 64.7 | 311 | 110 | 527 |
| Mercury | 0.1 | **0.32** | **0.56** | **0.82** | **0.15** | **0.3** | ND | **0.22** | **0.64** |
| Nickel | 13 or SB | **58.6** | **51.2** | **12.5** | **17.8** | 12.2 | **24** | 10.6 | **20.9** |
| Selenium | 2 or SB | **3.4** | **3** | **2.2** | 1.9 | 1.3 | **3.6** | 1.5 | 1.9 |
| Silver | SB | ND | ND | ND | ND | ND | 1.9 | ND | ND |
| Zinc | 20 or SB | **389** | **144** | **91.1** | **60.6** | **69.1** | **314** | **97.9** | **405** |

Samples analyzed for Metals by EPA Method SW 846.

**Bold**: Value exceeds the analytical value for the recommended soil cleanup objective.

Guidance values are the recommended soil cleanup objective per NYSDEC TAGM #4046; and secondary site specific criteria (OU-1, Sunnyside Yard) for lead.

SB = Site Background

All data is in parts per million (ppm) - milligrams per kilogram (mg/Kg)

Only those compounds that were detected are shown.

Table 7 con't

**SUMMARY OF SOIL SAMPLE RESULTS FOR METALS**
**SUPPLEMENTAL ESI: PROPOSED FILL AREA**
**ARCH STREET YARD AND MAINTENANCE FACILITY**
**Systems Engineer (MATRIX) East Side Access Project**
**Long Island City, Queens County, New York**

| Boring Identification | | SE-AR-209 | SE-AR-210 | SE-AR-211 | SE-AR-212 | SE-AR-213 | SE-AR-214 | SE-AR-215 | FB |
|---|---|---|---|---|---|---|---|---|---|
| Matrix | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Aqueous |
| Sample Date | | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 | 7/2/2002 |
| Compound | Guidance Value (ppm) | Concentration (ppm or mg/Kg) | | | | | | | |
| Antimony | SB | ND | ND | ND | 17.4 | ND | ND | 2.3 | ND |
| Arsenic | 7.5 or SB | 3.5 | 5.5 | 7 | **703** | 5.1 | **23.7** | **8.6** | ND |
| Barium | 300 or SB | ND | 39.8 | 61.8 | 252 | ND | **1,070** | 27.1 | ND |
| Cadmium | 1 or SB | ND | ND | 0.72 | **3.6** | ND | ND | ND | ND |
| Chromium | 10 or SB | **13** | **12.4** | **18.6** | **19.5** | **16.5** | **35.8** | **29.9** | ND |
| Copper | 25 or SB | **35.6** | **43.6** | **98.5** | **3,140** | **90.5** | **132** | **187** | ND |
| Lead | 1,000 | 52.8 | 391 | 154 | **1,250** | 85.3 | 336 | 159 | ND |
| Mercury | 0.1 | 0.062 | **0.52** | **0.35** | **1.2** | **0.14** | **0.64** | **0.24** | ND |
| Nickel | 13 or SB | **13.7** | 11.9 | **17.3** | **72.6** | **19.5** | **41.6** | **25** | ND |
| Selenium | 2 or SB | ND | ND | 1.3 | **10.1** | 1.5 | **2.7** | 1.6 | ND |
| Silver | SB | ND | ND | ND | 5.1 | ND | ND | ND | ND |
| Zinc | 20 or SB | **44.1** | **439** | **214** | **1,890** | **72.4** | **1,500** | **106** | ND |

Samples analyzed for Metals by EPA Method SW 846.

**Bold**: Value exceeds the analytical value for the recommended soil cleanup objective.

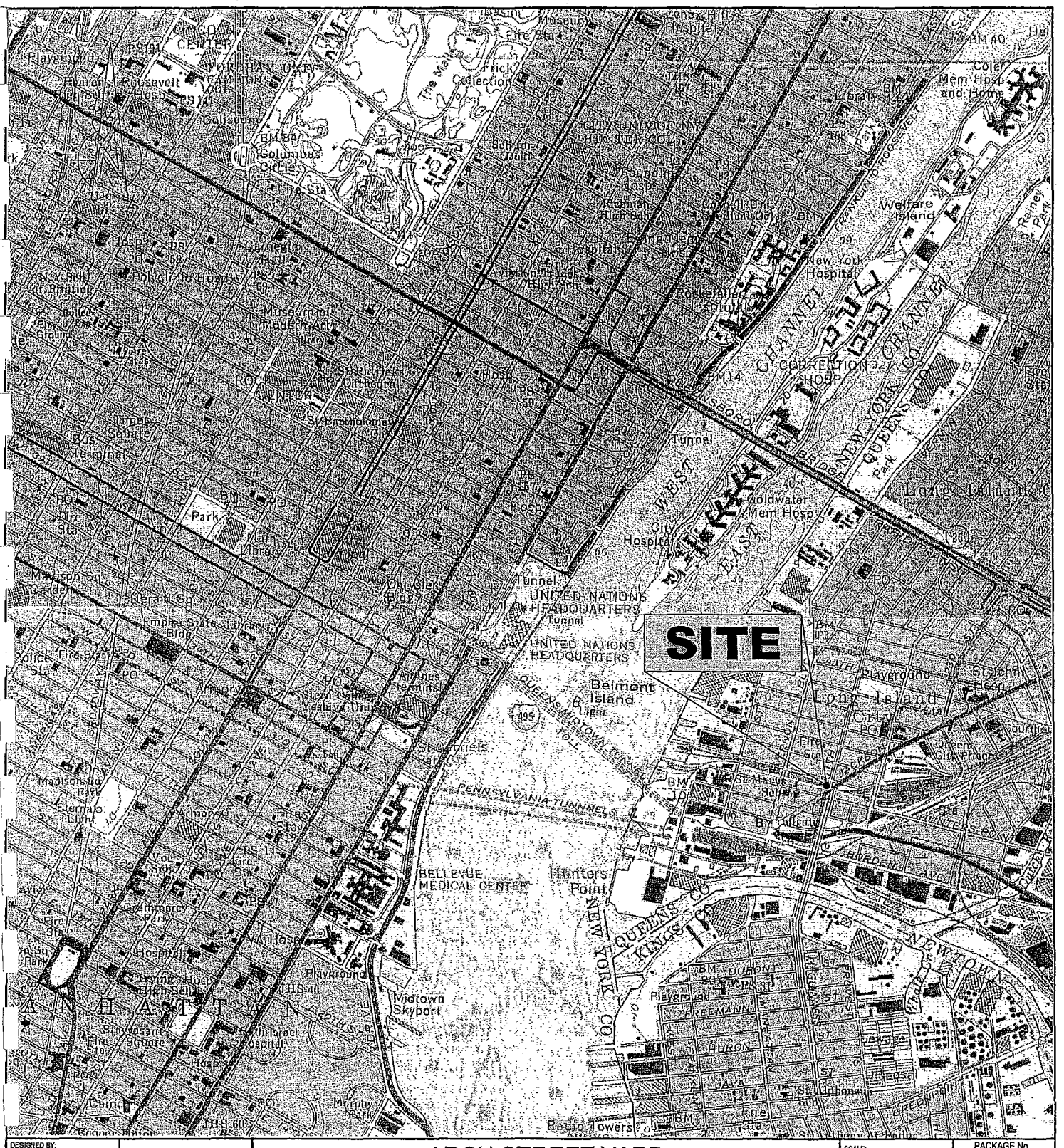
Guidance values are the recommended soil cleanup objective per NYSDEC TAGM #4046; and secondary site specific criteria (OU-1, Sunnyside Yard) for lead.

SB = Site Background

All data is in parts per million (ppm) - milligrams per kilogram (mg/Kg)

Only those compounds that were detected are shown.

FIGURES




| | | | | |
|---|---|---|---|---|
| DESIGNED BY: D. AULD<br>DRAWN BY: TOMSEY<br>CHECKED BY: C. SULLIVAN<br>COORDINATED BY: L. HEARN<br>APPROVED BY: TIMULTY | | ARCH STREET YARD<br>AND MAINTENANCE FACILITY<br>PROPOSED FILL AREA<br>REGIONAL LOCATION MAP | SCALE: 1" = 2000'<br>DRAWING NUMBER: 12027-833-001<br>DATE: 7-26-02<br>REVISION NUMBER: - | PACKAGE No. CQ-027<br>ISSUE -<br>SHEET No. 1 OF 3 |

Long Island Rail Road
**East Side Access**

SYSTEMS ENGINEERS
PARSONS TRANSPORTATION GROUP OF NEW YORK, INC.

MATRIX ENVIRONMENTAL AND GEOTECHNICAL SERVICES, INC.
FLORHAM PARK, NEW JERSEY

PROPOSED FILL AREAS

FILL TO 48th STREET GRADES (APPROXIMATELY 30,000 C.Y.)

JACKSON AVE

DEC

PROJECT AREA OF EXCAVATED SOIL

PROJECT AREA OF EXCAVATED SOIL

SCALE IN FEET
100' 50' 0 100' 200'

Long Island Rail Road
**East Side Access**

SYSTEMS ENGINEER
PARSONS TRANSPORTATION GROUP OF NEW YORK, INC.

MATRIX
ENVIRONMENTAL AND GEOTECHNICAL, INC.
FLORHAM PARK, NEW JERSEY

| DATE: | REVISIONS | No |
|---|---|---|

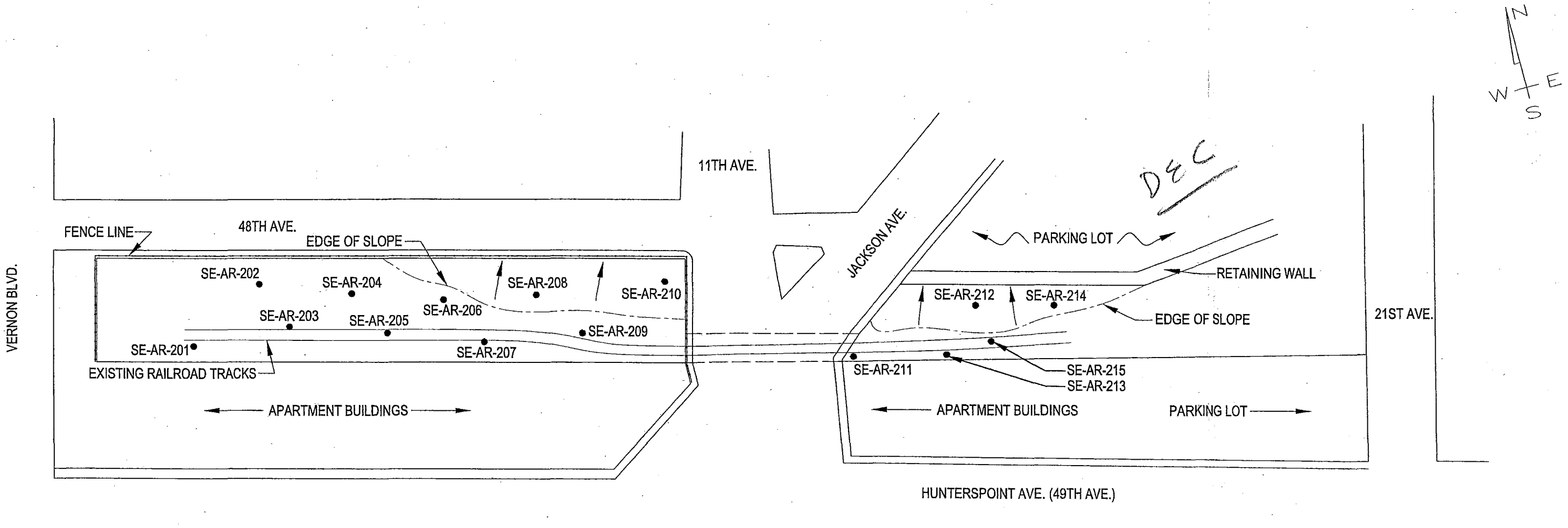
DESIGNED BY: D. AULD
DRAWN BY: D. TOMSEY
CHECKED BY: C. SULLIVAN
COORDINATED BY: M. HEARN
APPROVED BY: M. TUMULTY

# ARCH STREET YARD AND MAINTENANCE FACILITY

PROPOSED FILL AREA
SITE LOCATION MAP

SCALE: AS SHOWN
DRAWING NUMBER: 12027-833-002C
DATE: 09-04-02
REVISION NUMBER:

CONTRACT No. CQ-027
ISSUE
SHEET No. 2 OF 3




LEGEND

SE-AR-201 ● SOIL BORING LOCATION AND DESIGNATION.

◄ DIRECTION OF UPWARD SLOPE

NOTES:

ALL LOCATIONS ARE APPROXIMATE

MTA Long Island Rail Road
**East Side Access**

SYSTEMS ENGINEER
PARSONS TRANSPORTATION GROUP OF NEW YORK, INC.

MATRIX
ENVIRONMENTAL AND GEOTECHNICAL, INC.
FLORHAM PARK, NEW JERSEY

| DATE: | REVISIONS | No. |
|---|---|---|
| | | |

DESIGNED BY: D. AULD
DRAWN BY: S. HALM
CHECKED BY: D. AULD
COORDINATED BY: M. HEARN
APPROVED BY: M. TUMULTY

ARCH STREET YARD
AND MAINTENANCE FACILITY

PROPOSED FILL AREA
BORING/SAMPLING LOCATIONS

SCALE: 1" = 100'
DRAWING NUMBER: 12027-833-003
DATE: 07-26-02
REVISION NUMBER:

CONTRACT No. CQ-027
ISSUE
SHEET No. 3 OF 3

APPENDIX
A

| | | |
|---|---|---|
| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-201** |
| Time: | | |
| Weather: 80°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill/Ballast (dry) | No FID readings, no odors |
| | | | | blk Fill/Ballast and Cinders | |
| | | GP | | lt brn SAND and cf Gravel | |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken 6" above water. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| | | |
|---|---|---|
| Date: 7/2/02<br>Time:<br>Weather: 80°F, Clear<br>Sheet 1 of 1 | **MATRIX**<br>ENVIRONMENTAL &<br>GEOTECHNICAL SERVICES, INC.<br>GEOTECHNICAL FIELD SERVICES DIVISION<br>**BORING LOG** | Borehole No.:<br>**SE-AR-202** |

| | |
|---|---|
| Project: East Side Access, Arch Street<br>Project #: 99B128G-4<br>Inspector: D. Tomsey/M. Mauro | Site: Proposed Fill Location, Arch Street Maintenance Yard<br>Long Island City Queens, New York |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill/Ballast and Cinder (dry) | No FID readings, no odors |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken from 3.5' to 4.0'. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-203** |
|---|---|---|
| Time: | | |
| Weather: 85°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill/Ballast (dry) | |
| | | | | blk Fill/Ballast and Cinders | |
| | | | | | Slight odor |
| | | | | End of Borehole at 4' | FID reading at 4.0' = 40 ppm |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken from 3.5' to 4.0'. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| | | |
|---|---|---|
| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-204** |
| Time: | | |
| Weather: 85°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill (dry) | No FID readings, no odors |
| | | | | blk Fill/Ballast and Cinders | |
| | | GP | | lt brn SAND and cf Gravel | |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken from 3.5' to 4.0'. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| | | |
|---|---|---|
| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-205** |
| Time: | | |
| Weather: 85°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

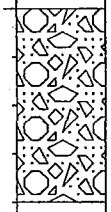
| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill/Ballast and Cinder (dry) | No FID readings, no odors |
| | | GP | | lt brn SAND and cf Gravel<br>Refusal at 3.5', End of Borehole at 3.5' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken 6" above water. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| | | |
|---|---|---|
| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-206** |
| Time: | | |
| Weather: 90°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Fill/Ballast and Cinder (dry) | No FID readings, no odors |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken from 3.5' to 4.0' | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-207** |
|---|---|---|
| Time: | | |
| Weather: 95°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

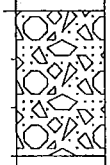
| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill/Ballast and Cinder (dry) | No FID readings, no odors |
| | | GP | | lt brn SAND and cf Gravel | |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken 6" above water. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-208** |
|---|---|---|
| Time: | | |
| Weather: 95°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Fill/Ballast and Cinder (dry) | No FID readings, no odors |
| | | | | lt brn, blk Fill/Ballast | |
| | | | | Refusal at 3', End of Borehole at 3'<br>Borehole backfilled to grade with associated soil. | |
| 5 | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken from 2.5' to 3.0'. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-209** |
|---|---|---|
| Time: | | |
| Weather: 95°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

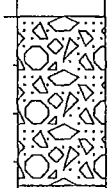
| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Fill/Ballast and Cinder (dry) | No FID readings, no odors |
| | | GP | | lt brn SAND and cf Gravel | |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken 6" above water. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-210** |
|---|---|---|
| Time: | | |
| Weather: 100°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

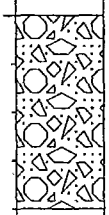
# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Fill/Ballast and tan Topsoil | No FID readings, no odors |
| | | | | Resusal at 3.5', End of Borehole at 3.5'<br>Borehole backfilled to grade with associated soil. | |
| 5 | | | | Composite sample taken from bottom of borehole to grade.<br>VOC sample taken from 3.0' to 3.5' | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-211** |
|---|---|---|
| Time: | | |
| Weather: 100°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |
| | **BORING LOG** | |

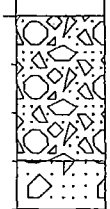
| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Fill/Ballast and Cinder (moist) | No FID readings, no odors |
| ▼ | | | | | |
| | | | | End of Borehole at 4' | |
| 5 | | | | Borehole backfilled to grade with associated soil. | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken 6" above water. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-212** |
|---|---|---|
| Time: | | |
| Weather: 100°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Fill/Ballast and Cinder (dry)<br>Construction debris (concrete, brick, plastic, glass) | No FID readings, no odors |
| | | GP | | brn SAND and cf Gravel | |
| 5 | | | | End of Borehole at 4'<br>Borehole backfilled to grade with associated soil.<br><br>Composite sample taken from bottom of borehole to grade.<br>VOC sample taken from 3.5' to 4.0'. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

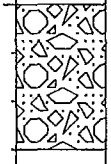
| | | |
|---|---|---|
| Date: 7/2/02<br>Time:<br>Weather: 102°F, Clear<br>Sheet 1 of 1 | **MATRIX**<br>ENVIRONMENTAL &<br>GEOTECHNICAL SERVICES, INC.<br>GEOTECHNICAL FIELD SERVICES DIVISION<br>**BORING LOG** | Borehole No.:<br>**SE-AR-213** |

| | |
|---|---|
| Project: East Side Access, Arch Street<br>Project #: 99B128G-4<br>Inspector: D. Tomsey/M. Mauro | Site: Proposed Fill Location, Arch Street Maintenance Yard<br>Long Island City Queens, New York |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 | | Fill | | blk Ballast and Cinder (moist) | No FID readings, no odor |
| | | | | Refusal at 2', End of Borehole at 2'<br>Borehole backfilled to grade with associated soil. | |
| 5 | | | | Composite sample taken from bottom of borehole to grade.<br>VOC sample taken from 0.5' to 1.0'. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| | | |
|---|---|---|
| Date: 7/2/02<br>Time:<br>Weather: 100°F, Clear<br>Sheet 1 of 1 | **MATRIX**<br>ENVIRONMENTAL &<br>GEOTECHNICAL SERVICES, INC.<br>GEOTECHNICAL FIELD SERVICES DIVISION<br>**BORING LOG** | Borehole No.:<br>**SE-AR-214** |

| | |
|---|---|
| Project: East Side Access, Arch Street<br>Project #: 99B128G-4<br>Inspector: D. Tomsey/M. Mauro | Site: Proposed Fill Location, Arch Street Maintenance Yard<br>Long Island City Queens, New York |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Fill/Ballast and Cinder (dry)<br>Construction debris (concrete, brick, plastic, glass)<br><br>Refusal at 3', End of Borehole at 3'<br>Borehole backfilled to grade with associated soil.<br><br>Composite sample taken from bottom of borehole to grade.<br>VOC sample taken from 2.5' to 3.0'. | No FID readings, no odor |
| 5 | | | | | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

| Date: 7/2/02 | **MATRIX** ENVIRONMENTAL & GEOTECHNICAL SERVICES, INC. | Borehole No.: **SE-AR-215** |
|---|---|---|
| Time: | | |
| Weather: 102°F, Clear | | |
| Sheet 1 of 1 | GEOTECHNICAL FIELD SERVICES DIVISION | |

# BORING LOG

| | |
|---|---|
| Project: East Side Access, Arch Street | Site: Proposed Fill Location, Arch Street Maintenance Yard |
| Project #: 99B128G-4 | Long Island City Queens, New York |
| Inspector: D. Tomsey/M. Mauro | |

| Depth (feet) | Graphic Log | USCS Symbol | Sample (Depth) | Description and Remarks | Notes |
|---|---|---|---|---|---|
| 0 |  | Fill | | blk Ballast and Cinder (moist) | No FID readings, no odor |
| | | | | Refusal at 2.5', End of Borehole at 2.5' | |
| | | | | Borehole backfilled to grade with associated soil. | |
| 5 | | | | | |
| | | | | Composite sample taken from bottom of borehole to grade. | |
| | | | | VOC sample taken from 6" above water. | |
| 10 | | | | | |
| 15 | | | | | |
| 20 | | | | | |

# APPENDIX B

**MATRIX** Environmental
& Geotechnical Services, Inc

215 Ridgedale Avenue
Florham Park, NJ 07932
973-660-0400 Phone
973-660-0606 Fax

# Photo Log

SITE: Arch Street, Proposed Fill Area
PROJECT #: 99B128G-4

DATE OF PHOTOS: 06/26/02
PHOTOGRAPHER: D. Tomsey

**PHOTO 1: West under Jackson Ave. Soil samples SE-AR-211,213,215 to left of tracks. Soil samples SE-AR-212, 214 taken to right on pile.**

**PHOTO 2: Jackson Ave. overpass. Low point of proposed fill area.**

**MATRIX** Environmental
& Geotechnical Services, Inc

215 Ridgedale Avenue
Florham Park, NJ 07932
973-660-0400 Phone
973-660-0606 Fax

# Photo Log

SITE: Arch Street, Proposed Fill Area
PROJECT #: 99B128G-4

DATE OF PHOTOS: 06/26/02
PHOTOGRAPHER: D. Tomsey

**PHOTO 3: East towards 21st Ave. overpass.**

**PHOTO 4: Pile at north east end of fill area. Soil samples SE-AR-214 taken from pile.**

**MATRIX** Environmental
& Geotechnical Services, Inc

215 Ridgedale Avenue
Florham Park, NJ 07932
973-660-0400 Phone
973-660-0606 Fax

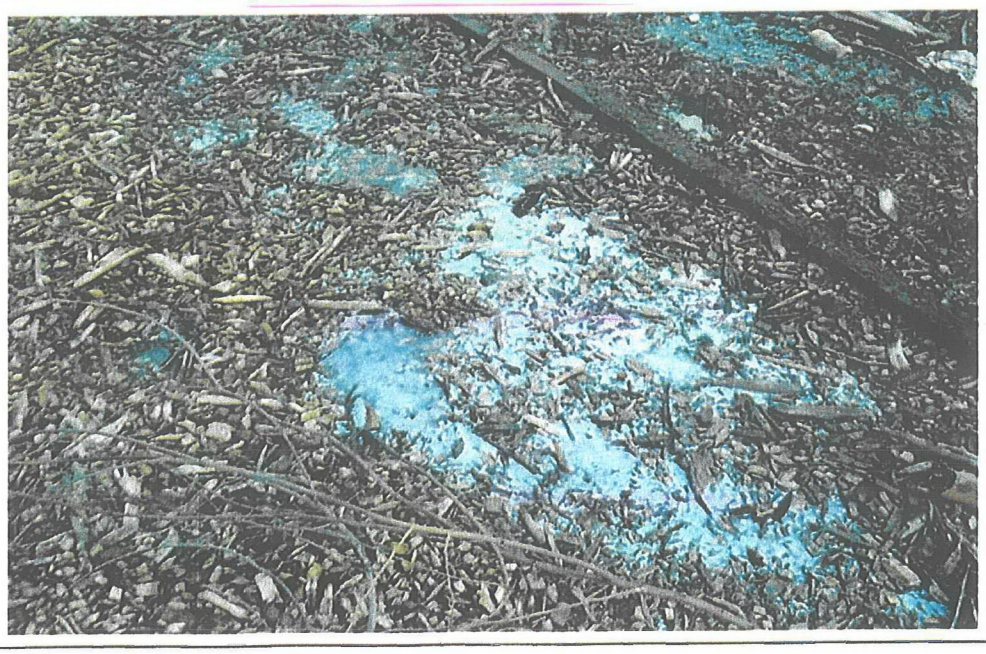
# Photo Log

SITE: Arch Street, Proposed Fill Area
PROJECT #: 99B128G-4

DATE OF PHOTOS: 06/26/02
PHOTOGRAPHER: D. Tomsey

**PHOTO 5: Pile at north east end of proposed fill area.**

**PHOTO 6: Sheen on standing water beneath Jackson Ave. overpass. Location of soil sample SE-AR-213.**



APPENDIX
C

New Jersey
ACCUTEST
Laboratories

07/29/02

Technical Report for

Matrix Environmental Technologies

Arch Street, Long Island City, NY

Accutest Job Number: N17628

Report to:

Matrix Environmental Technologies
215 Ridgedale Avenue
Florham Park, NJ 07932

ATTN: Matthew Mauro

Total number of pages in report: 2741

Volume: 1 of 3

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

# Sample Summary

Matrix Environmental Technologies

Arch Street, Long Island City, NY

**Job No:** N17628

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| N17628-1 | 07/02/02 | 14:02 | MJM | 07/03/02 | AQ | Trip Blank Soil | TB |
| N17628-2 | 07/02/02 | 13:12 | MJM | 07/03/02 | AQ | Field Blank Soil | FB |
| N17628-3 | 07/02/02 | 06:32 | MJM | 07/03/02 | SO | Soil | SE-AR-201 |
| N17628-4 | 07/02/02 | 07:00 | MJM | 07/03/02 | SO | Soil | SE-AR-202 |
| N17628-5 | 07/02/02 | 07:30 | MJM | 07/03/02 | SO | Soil | SE-AR-203 |
| N17628-6 | 07/02/02 | 07:50 | MJM | 07/03/02 | SO | Soil | SE-AR-204 |
| N17628-7 | 07/02/02 | 08:21 | MJM | 07/03/02 | SO | Soil | SE-AR-205 |
| N17628-8 | 07/02/02 | 08:57 | MJM | 07/03/02 | SO | Soil | SE-AR-206 |
| N17628-9 | 07/02/02 | 09:26 | MJM | 07/03/02 | SO | Soil | SE-AR-207 |
| N17628-10 | 07/02/02 | 10:00 | MJM | 07/03/02 | SO | Soil | SE-AR-208 |
| N17628-11 | 07/02/02 | 10:21 | MJM | 07/03/02 | SO | Soil | SE-AR-209 |
| N17628-12 | 07/02/02 | 11:02 | MJM | 07/03/02 | SO | Soil | SE-AR-210 |
| N17628-13 | 07/02/02 | 13:00 | MJM | 07/03/02 | SO | Soil | SE-AR-211 |



Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# Sample Summary
(continued)

Matrix Environmental Technologies

Arch Street, Long Island City, NY

**Job No:** N17628

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Matrix Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| N17628-14 | 07/02/02 | 12:50 | MJM | 07/03/02 | SO | Soil | SE-AR-212 |
| N17628-15 | 07/02/02 | 13:40 | MJM | 07/03/02 | SO | Soil | SE-AR-213 |
| N17628-16 | 07/02/02 | 12:32 | MJM | 07/03/02 | SO | Soil | SE-AR-214 |
| N17628-17 | 07/02/02 | 14:02 | MJM | 07/03/02 | SO | Soil | SE-AR-215 |



Soil samples reported on a dry weight basis unless otherwise indicated on result page.

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# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
# ANALYTICAL SERVICES PROTOCOL DELIVERABLES

## NYDEC Laboratory Identification Number: 10983

| | | |
|---|---|---|
| 1 | Cover Page, Title Page Listing Certification Number, Facility Name & Date of Report | [✓] |
| 2 | Table of Contents | [✓] |
| 3 | Sample Preparation and Analysis Summaries | [✓] |
| 4 | Summary Sheets Listing Analytical Results For All Targeted and Non Targeted Compounds | [✓] |
| 5 | Summary Table Cross-Referencing Filed ID#s Vs Laboratory ID #s | [✓] |
| 6 | Chain of Custody | [✓] |
| 7 | Sample Login Sheet | [✓] |
| 8 | Methodology Summary | [✓] |
| 9 | Dry Weight Results (Where Applicable) | [✓] |
| 10 | Method Detection Limits (MDLs) | [✓] |
| 11 | Non-Conformance Summary | [✓] |

Jianhua Jang
Reviewer

1/26/2001
Date



New Jersey • Fresh Ponds Corporate Village • Building B • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499 • http://www.accutest.com

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## Percent Solids Determination

Accutest Laboratories employs a modified version of ASTM Method 4643-93 for the determination of percent solids to calculate dry weight. All data for solid matrices is reported on a dry weight basis by applying the percent solids data from this determination.

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## For
## New York Analytical Services Protocol (ASP)



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**For**
**New York Analytical Services Protocol (ASP)**





New Jersey • Fresh Ponds Corporate Village • Building B • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499 • http://www.accutest.com

# CASE NARRATIVE
## SDG N17628

(ORGANIC FRACTION)

The samples in this SDG were received at Accutest Laboratories for analysis by SW846 8260B for volatile, SW846 8270C for semi-volatile, SW846 8081A for pesticides and SW846 8082 for PCB methodologies.

On the volatile fraction:

- Instrument Models: HP5970MSD/HP5973MSD
- Columns: RTX-502_105m x 0.53mm x 3.0um/DB-624 60m x 0.25mm x 1.4um
- Sample N12718-1 was diluted because certain compounds in the original run were outside the calibration range.
- The samples N17530-14 (for QC batch VG2148), N17628-7 (for QC batch VG2150), N17628-6 (for QC batch VG2152), and N17590-2 (for QC batch VT1194) were used as the matrix spike (MS) and matrix spike duplicates (MSD).
- For QC batch VG2152, 11 RPD were outside control limits due to possible matrix interference. For QC batch VT1194, the spike recovery in the MS/MSD for benzene was outside control limits due to high level in sample relative to spike amount.
- Th internal standard for samples N17628-4 and N17628-8 were outside of limits. Confirmed by reanalysis.

On the semi-volatile fraction:

- Instrument Model: HP5972MSD
- Column: HP-5MS 30m x 0.25mm x .25um
- Samples N17628-14 and –16 were diluted because certain compounds in the original runs were outside the calibration range.
- The detection limits for samples N17628-13, -15, and –17 were elevated due to low volume of sample extracted. The detection limits for samples N17628-14 and –16 were elevated due to high final volume of viscous extract.
- The sample N17628-11 was used as the matrix spike (MS) and the matrix spike duplicate (MSD).
- The RPD for one compound was outside control limits due to possible matrix interference.

On the GC fraction (Pesticide):

- Instrument Model: HP6890/dual ECD
- Column: DB-5 30m x 0.32mm x .25um / DB-1701 30m x 0.32mm x .25um
- The detection limits for samples N17628-13, -15, and –17 were elevated due to low volume of sample extracted.
- The samples N17188-1 (for QC batch OP11701) and N17628-12 (for QC batch OP11731) were used as the matrix spike (MS) and the matrix spike duplicates (MSD).
- For samples N17628-8, -14, and –16, the surrogate recovery for Decachlorobiphenyl from GC signal #1, was outside control limits due to possible matrix interference.
- For QC batch OP11295, two spike recoveries in the MS, three spike recoveries in the MSD, and one RPD, were outside control limits due to possible matrix interference.

On the GC fraction (PCB):

- Instrument Model: HP5890/dual ECD
- Column: DB-5 30m x 0.32mm x .25um / DB-1701 30m x 0.32mm x .25um
- The detection limits for samples N17628-13, -15, and –17 were elevated due to low volume of sample extracted.
- The samples N16815-2 (for QC batch OP11657) and N17628-12 (for QC batch OP11732) were used as the matrix spike (MS) and the matrix spike duplicates (MSD).

(INORGANIC FRACTION)

On the metals fraction:

- The samples were analyzed for metals using methods SW846 6010B and EPA 200.7, and for mercury using methods SW846 7471A and EPA 245.1.
- For sample N17628-16, the detection limits for antimony, cadmium, chromium, copper, lead, selenium, thallium, and zinc were elevated due to dilution required for high interfering element.
- The samples N17628-10, N17694-1, N17433-2, and N17870-1 were used as the matrix spike (MS) and duplicates (DUP).
- In the matrix spike, the spike recoveries for antimony and zinc indicate possible matrix interference and/or sample nonhomogeneity. For lead, the spike amount was low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- In the duplicate, there was high RPD for arsenic due to possible sample nonhomogeneity. For antimony, cadmium, chromium, lead, and thallium, the RPD for was acceptable due to low duplicate and sample concentrations.
- In the serial dilutions, for antimony, arsenic, copper, nickel, selenium, silver, and thallium, the percent difference was acceptable due to low initial sample concentration (<50 times IDL).

On the general chemistry fraction:

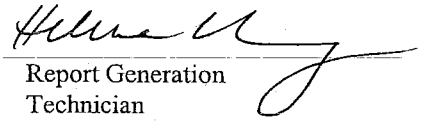
- The samples were analyzed for percent solids using method EPA 160.3 M.

Qualifiers reported on all fractions are

"ND" indicating compound was analyzed but not detected,
"J" indicating estimated value where the concentration is less than the RDL,
"E" indicating estimated value where the concentration exceeds calibration range, and
"B" indicating compound is found in associated method blank as well as in the sample

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Helena Ueng



Report Generation
Technician

# RESULTS

# ACCUTEST LABORATORIES

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

**Project Number:** **N17628**

**Client Name:** **MTXFPNJ**
**Arch Street, Long Island City, NY**

| Customer Sample Code | Laboratory Sample ID | Analytical Requirements | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS Method 8260 | BNA GC/MS Method 8270C | Pest GC Method 8081A | PCB GC Method 8082 | Metals | CN- |
| TB | N17628-1 | X | | | | | |
| FB | N17628-2 | X | X | X | X | X | |
| SE-AR-201 | N17628-3 | X | X | X | X | X | |
| SE-AR-202 | N17628-4 | X | X | X | X | X | |
| SE-AR-203 | N17628-5 | X | X | X | X | X | |
| SE-AR-204 | N17628-6 | X | X | X | X | X | |
| SE-AR-205 | N17628-7 | X | X | X | X | X | |
| SE-AR-206 | N17628-8 | X | X | X | X | X | |
| SE-AR-207 | N17628-9 | X | X | X | X | X | |
| SE-AR-208 | N17628-10 | X | X | X | X | X | |
| SE-AR-209 | N17628-11 | X | X | X | X | X | |
| SE-AR-210 | N17628-12 | X | X | X | X | X | |
| SE-AR-211 | N17628-13 | X | X | X | X | X | |
| SE-AR-212 | N17628-14 | X | X | X | X | X | |
| SE-AR-213 | N17628-15 | X | X | X | X | X | |
| SE-AR-214 | N17628-16 | X | X | X | X | X | |
| SE-AR-215 | N17628-17 | X | X | X | X | X | |
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# ACCUTEST LABORATORIES
## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### SAMPLE PREPARATION AND ANALYSIS SUMMARY
### VOLATILE (VOA) ANALYSIS

**Project Number:** **N17628**

**Client Name:** **MTXFPNJ**
**Arch Street, Long Island City, NY**

| Laboratory Sample ID | Matrix | Date Collected | Date Rec'd at Lab | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| N17628-1 | Trip Blank | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-2 | Field Blank | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-3 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-4 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-5 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-6 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-7 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-8 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-9 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-10 | Soil | 02-Jul-02 | 03-Jul-02 | - | 10-Jul-02 |
| N17628-11 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-12 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-13 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-14 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-15 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-16 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
| N17628-17 | Soil | 02-Jul-02 | 03-Jul-02 | - | 11-Jul-02 |
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# ACCUTEST LABORATORIES
# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## SAMPLE PREPARATION AND ANALYSIS SUMMARY
## SEMIVOLATILE (BNA) ANALYSIS

**Project Number:** N17628

**Client Name:** MTXFPNJ
Arch Street, Long Island City, NY

| Laboratory Sample ID | Matrix | Date Collected | Date Rec'd at Lab | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| N17628-2 | Field Blank | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-3 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-4 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-5 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-6 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-7 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-8 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-9 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-10 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-11 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-12 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-13 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-14 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-15 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
| N17628-16 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-17 | Soil | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 10-Jul-02 |
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## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### SAMPLE PREPARATION AND ANALYSIS SUMMARY
### SEMIVOLATILE (BNA) ANALYSIS

**Project Numb** **N17628**

**Client Name:** **MTXFPNJ**
**Arch Street, Long Island City, NY**

| Laboratory Sample ID | Matrix | Analytical Protocol | Extraction Method | Auxillary Cleanup | Dil/Conc Factor |
|---|---|---|---|---|---|
| N17628-2 | Field Blank | SW8270C | SW3510C | None | 995ml:1ml |
| N17628-3 | Soil | SW8270C | SW3550B | None | 30.1g:1ml |
| N17628-4 | Soil | SW8270C | SW3550B | None | 30.2g:1ml |
| N17628-5 | Soil | SW8270C | SW3550B | None | 30.1g:1ml |
| N17628-6 | Soil | SW8270C | SW3550B | None | 30.1g:1ml |
| N17628-7 | Soil | SW8270C | SW3550B | None | 30.1g:1ml |
| N17628-8 | Soil | SW8270C | SW3550B | None | 30.2g:1ml |
| N17628-9 | Soil | SW8270C | SW3550B | None | 30.2g:1ml |
| N17628-10 | Soil | SW8270C | SW3550B | None | 30.1g:1ml |
| N17628-11 | Soil | SW8270C | SW3550B | None | 30.2g:1ml |
| N17628-12 | Soil | SW8270C | SW3550B | None | 30.0g:1ml |
| N17628-13 | Soil | SW8270C | SW3550B | None | 10.2g:1ml |
| N17628-14 | Soil | SW8270C | SW3550B | None | 30.1g:5ml |
| N17628-15 | Soil | SW8270C | SW3550B | None | 10.7g:1ml |
| N17628-16 | Soil | SW8270C | SW3550B | None | 30.1g:5ml |
| N17628-17 | Soil | SW8270C | SW3550B | None | 10.9g:1ml |
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# ACCUTEST LABORATORIES
## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### SAMPLE PREPARATION AND ANALYSIS SUMMARY
### PESTICIDE/PCB ANALYSIS

**Project Number:** N17628

**Client Name:** MTXFPNJ
Arch Street, Long Island City, NY

| Laboratory Sample ID | Matrix | Analysis Type | Date Collected | Date Rec'd at Lab | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|
| N17628-2 | Field Blank | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 05-Jul-02 |
| N17628-3 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-4 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-5 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-6 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-7 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-8 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 11-Jul-02 |
| N17628-9 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-10 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-11 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-12 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-13 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-14 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-15 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-16 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| N17628-17 | Soil | Pest | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 12-Jul-02 |
| | | | | | | |
| N17628-2 | Field Blank | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-3 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 08-Jul-02 |
| N17628-4 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 08-Jul-02 |
| N17628-5 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 08-Jul-02 |
| N17628-6 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 08-Jul-02 |
| N17628-7 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-8 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-9 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-10 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-11 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-12 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 08-Jul-02 |

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|---|---|---|---|---|---|---|
| N17628-13 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-14 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-15 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-16 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |
| N17628-17 | Soil | PCB | 02-Jul-02 | 03-Jul-02 | 05-Jul-02 | 09-Jul-02 |

# ACCUTEST LABORATORIES
## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### SAMPLE PREPARATION AND ANALYSIS SUMMARY
### PESTICIDE/PCB ANALYSIS

**Project Numb** **N17628**

**Client Name:** **MTXFPNJ**
**Arch Street, Long Island City, NY**

| Laboratory Sample ID | Matrix | Analytical Protocol | Extraction Method | Auxillary Cleanup | Dil/Conc Factor |
|---|---|---|---|---|---|
| N17628-2 | Field Blank | SW8081A | SW3510C | None | 1000ml:10ml |
| N17628-3 | Soil | SW8081A | SW3550B | None | 30.1g:10ml |
| N17628-4 | Soil | SW8081A | SW3550B | None | 30.1g:10ml |
| N17628-5 | Soil | SW8081A | SW3550B | None | 30.3g:10ml |
| N17628-6 | Soil | SW8081A | SW3550B | None | 30.2g:10ml |
| N17628-7 | Soil | SW8081A | SW3550B | None | 30.1g:10ml |
| N17628-8 | Soil | SW8081A | SW3550B | None | 30.0g:10ml |
| N17628-9 | Soil | SW8081A | SW3550B | None | 30.0g:10ml |
| N17628-10 | Soil | SW8081A | SW3550B | None | 30.0g:10ml |
| N17628-11 | Soil | SW8081A | SW3550B | None | 30.2g:10ml |
| N17628-12 | Soil | SW8081A | SW3550B | None | 30.0g:10ml |
| N17628-13 | Soil | SW8081A | SW3550B | None | 10.2g:10ml |
| N17628-14 | Soil | SW8081A | SW3550B | None | 30.0g:10ml |
| N17628-15 | Soil | SW8081A | SW3550B | None | 10.2g:10ml |
| N17628-16 | Soil | SW8081A | SW3550B | None | 30.0g:10ml |
| N17628-17 | Soil | SW8081A | SW3550B | None | 10.5g:10ml |
| | | | | | |
| N17628-2 | Field Blank | SW8082 | SW3510C | None | 1000ml:10ml |
| N17628-3 | Soil | SW8082 | SW3550B | None | 30.1g:10ml |
| N17628-4 | Soil | SW8082 | SW3550B | None | 30.1g:10ml |
| N17628-5 | Soil | SW8082 | SW3550B | None | 30.3g:10ml |
| N17628-6 | Soil | SW8082 | SW3550B | None | 30.2g:10ml |
| N17628-7 | Soil | SW8082 | SW3550B | None | 30.1g:10ml |
| N17628-8 | Soil | SW8082 | SW3550B | None | 30.0g:10ml |
| N17628-9 | Soil | SW8082 | SW3550B | None | 30.0g:10ml |
| N17628-10 | Soil | SW8082 | SW3550B | None | 30.0g:10ml |
| N17628-11 | Soil | SW8082 | SW3550B | None | 30.2g:10ml |
| N17628-12 | Soil | SW8082 | SW3550B | None | 30.0g:10ml |

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|---|---|---|---|---|---|
| N17628-13 | Soil | SW8082 | SW3550B | None | 10.2g:10ml |
| N17628-14 | Soil | SW8082 | SW3550B | None | 30.0g:10ml |
| N17628-15 | Soil | SW8082 | SW3550B | None | 10.2g:10ml |
| N17628-16 | Soil | SW8082 | SW3550B | None | 30.0g:10ml |
| N17628-17 | Soil | SW8082 | SW3550B | None | 10.5g:10ml |

# ACCUTEST LABORATORIES
## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### SAMPLE PREPARATION AND ANALYSIS SUMMARY
### INORGANIC ANALYSIS

**Project Number:** N17628

**Client Name:** MTXFPNJ
Arch Street, Long Island City, NY

| Laboratory Sample ID | Matrix | Metals Requested | Date Rec'd at Lab | Date Analyzed |
|---|---|---|---|---|
| N17628-2 | Field Blank | PP Metals: | 03-Jul-02 | 15-Jul-02 |
| N17628-3 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-4 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-5 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-6 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-7 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-8 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-9 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-10 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-11 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-12 | Soil | PP Metals: | 03-Jul-02 | 17-Jul-02 |
| N17628-13 | Soil | PP Metals: | 03-Jul-02 | 18-Jul-02 |
| N17628-14 | Soil | PP Metals: | 03-Jul-02 | 18-Jul-02 |
| N17628-15 | Soil | PP Metals: | 03-Jul-02 | 18-Jul-02 |
| N17628-16 | Soil | PP Metals: | 03-Jul-02 | 18-Jul-02 |
| N17628-17 | Soil | PP Metals: | 03-Jul-02 | 18-Jul-02 |
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Accutest Laboratories

# Report of Analysis



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|---|---|---|---|
| **Client Sample ID:** | TB | | |
| **Lab Sample ID:** | N17628-1 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | T36279.D | 1 | 07/10/02 | GTT | n/a | n/a | VT1194 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | ug/l | |
| 74-83-9 | Bromomethane | ND | 5.0 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | ug/l | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | ug/l | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 25 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ug/l | |

ND = Not detected
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:** | TB | | |
| **Lab Sample ID:** | N17628-1 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.0 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 69-127% |
| 2037-26-5 | Toluene-D8 | 98% | | 82-119% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 81-121% |

ND = Not detected
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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:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | T36280.D | 1 | 07/10/02 | GTT | n/a | n/a | VT1194 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | ug/l | |
| 74-83-9 | Bromomethane | ND | 5.0 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | ug/l | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | ug/l | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 25 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ug/l | |

ND = Not detected
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:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.0 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | | 69-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 82-119% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 81-121% |

ND = Not detected
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:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F31048.D | 1 | 07/10/02 | MCL | 07/05/02 | OP11733 | EF1876 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 995 ml | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.1 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 20 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 5.1 | ug/l | |
| | 3&4-Methylphenol | ND | 5.1 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 20 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 20 | ug/l | |
| 108-95-2 | Phenol | ND | 5.1 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 2.0 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 2.0 | ug/l | |
| 120-12-7 | Anthracene | ND | 2.0 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 2.0 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 2.0 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 2.0 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 2.0 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 2.0 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 5.1 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | ug/l | |
| 86-74-8 | Carbazole | ND | 2.0 | ug/l | |
| 218-01-9 | Chrysene | ND | 2.0 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | ug/l | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 2.0 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | ug/l | |

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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:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.0 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.0 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.0 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 2.0 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 2.0 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.1 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 2.0 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.1 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 2.0 | ug/l | |
| 86-73-7 | Fluorene | ND | 2.0 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 2.0 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 5.1 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 2.0 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.0 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 2.0 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | ug/l | |
| 91-20-3 | Naphthalene | ND | 2.0 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 2.0 | ug/l | |
| 129-00-0 | Pyrene | ND | 2.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 52% | | 12-96% |
| 4165-62-2 | Phenol-d5 | 36% | | 10-73% |
| 118-79-6 | 2,4,6-Tribromophenol | 82% | | 37-149% |
| 4165-60-0 | Nitrobenzene-d5 | 80% | | 40-124% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 40-121% |

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 69% | | 20-142% |

ND = Not detected
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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:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | WW33224.D | 1 | 07/05/02 | YYX | 07/05/02 | OP11701 | GWW1103 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.020 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.020 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.020 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.020 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.020 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.020 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.020 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.020 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.020 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.020 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.020 | ug/l | |
| 72-20-8 | Endrin | ND | 0.020 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.020 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.020 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.050 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.020 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.020 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.020 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.020 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.050 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.25 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 33-152% |
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 33-152% |
| 2051-24-3 | Decachlorobiphenyl | 35% | | 14-141% |
| 2051-24-3 | Decachlorobiphenyl | 35% | | 14-141% |

ND = Not detected
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:** | FB | | |
| **Lab Sample ID:** | N17628-2 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | AQ - Field Blank Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | AB34747.D | 1 | 07/09/02 | KLS | 07/05/02 | OP11657 | GAB1840 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.50 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.50 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.50 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.50 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.50 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.50 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 83% | | 18-145% |
| 877-09-8 | Tetrachloro-m-xylene | 84% | | 18-145% |
| 2051-24-3 | Decachlorobiphenyl | 47% | | 20-149% |
| 2051-24-3 | Decachlorobiphenyl | 47% | | 20-149% |

ND = Not detected
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: | FB | | |
| Lab Sample ID: | N17628-2 | Date Sampled: | 07/02/02 |
| Matrix: | AQ - Field Blank Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | n/a |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <5.0 | 5.0 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Arsenic | <5.0 | 5.0 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Barium | <200 | 200 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Beryllium | <5.0 | 5.0 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Cadmium | <4.0 | 4.0 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Chromium | <10 | 10 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Copper | <25 | 25 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Lead | <3.0 | 3.0 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Mercury | <0.20 | 0.20 | ug/l | 1 | 07/15/02 | 07/15/02 | MLC | EPA 245.1 | EPA 245.1 |
| Nickel | <40 | 40 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Selenium | <5.0 | 5.0 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Silver | <10 | 10 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Thallium | <10 | 10 | ug/l | 1 | 07/08/02 | 07/09/02 | ND | EPA 200.7 | EPA 200.7 |
| Zinc | <20 | 20 | ug/l | 1 | 07/12/02 | 07/12/02 | KL | EPA 200.7 | EPA 200.7 |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49950.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2148 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 13 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.7 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.7 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.7 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.7 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.7 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.7 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 33 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.7 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.7 | ug/kg | |

ND = Not detected
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:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.7 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.7 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.7 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 70% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 67-141% |

ND = Not detected
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:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50580.D | 1 | 07/11/02 | AAA | 07/05/02 | OP11730 | EB1200 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 210 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 830 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 830 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 830 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 830 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | ug/kg | |
| 83-32-9 | Acenaphthene | 84.1 | 83 | ug/kg | |
| 208-96-8 | Acenaphthylene | 159 | 83 | ug/kg | |
| 120-12-7 | Anthracene | 305 | 83 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 845 | 83 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 749 | 83 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1530 | 83 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 617 | 83 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 481 | 83 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 83 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 83 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 83 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 210 | ug/kg | |
| 86-74-8 | Carbazole | 119 | 83 | ug/kg | |
| 218-01-9 | Chrysene | 1020 | 83 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 83 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 83 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 83 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 83 | ug/kg | |

ND = Not detected
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:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 83 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 83 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 83 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 83 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 83 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 189 | 83 | ug/kg | |
| 132-64-9 | Dibenzofuran | 144 | 83 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 224 | 83 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 83 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 83 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 83 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 730 | 83 | ug/kg | |
| 206-44-0 | Fluoranthene | 1680 | 83 | ug/kg | |
| 86-73-7 | Fluorene | 74.5 | 83 | ug/kg | J |
| 118-74-1 | Hexachlorobenzene | ND | 83 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 83 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 830 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 749 | 83 | ug/kg | |
| 78-59-1 | Isophorone | ND | 83 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 164 | 83 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 210 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 210 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 210 | ug/kg | |
| 91-20-3 | Naphthalene | 156 | 83 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 83 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 83 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | ug/kg | |
| 85-01-8 | Phenanthrene | 1070 | 83 | ug/kg | |
| 129-00-0 | Pyrene | 1300 | 83 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 83 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 70% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 70% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 63% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 29-111% |

ND = Not detected
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:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 61% | | 18-147% |



ND = Not detected
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:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29099.D | 1 | 07/11/02 | KLS | 07/05/02 | OP11731 | GXX705 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.83 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.83 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.83 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.83 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.83 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 1.2 | 0.83 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | 1.8 | 0.83 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.83 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 3.7 | 0.83 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 2.3 | 0.83 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 7.3 | 0.83 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.83 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.83 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.83 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.83 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.83 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.83 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.83 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.1 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.1 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 10 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 89% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 117% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 63% | | 18-155% |

(a) Reported from 2nd signal.

ND = Not detected
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:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38022.D | 1 | 07/08/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 21 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 21 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 21 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | 41.9 | 21 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 79% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 99% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 14-160% |

ND = Not detected
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: | SE-AR-201 | | |
| Lab Sample ID: | N17628-3 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 79.8 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 2.0 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 17.8 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 78.3 | 28 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.69 | 0.69 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.69 | 0.69 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 30.2 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 381 | 3.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 271 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.32 | 0.040 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 58.6 | 5.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 3.4 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.4 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.4 | 1.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 389 | 2.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-201 | | |
| **Lab Sample ID:** | N17628-3 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 79.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 79.8 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49983.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2150 |
| Run #2 [a] | G49951.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2148 |

| | Initial Weight |
|---|---|
| Run #1 | 4.8 g |
| Run #2 | 5.0 g |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 12 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.2 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.2 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.2 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 31 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | ug/kg | |

ND = Not detected
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:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.2 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | 86% | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 69% | 69% | 62-130% |
| 2037-26-5 | Toluene-D8 | 85% | 85% | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 126% | 128% | 67-141% |

(a) Confirmation run.

ND = Not detected
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:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50562.D | 1 | 07/10/02 | WHS | 07/05/02 | OP11730 | EB1199 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 200 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 790 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 790 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 790 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 790 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | ug/kg | |
| 83-32-9 | Acenaphthene | 39.7 | 79 | ug/kg | J |
| 208-96-8 | Acenaphthylene | 43.1 | 79 | ug/kg | J |
| 120-12-7 | Anthracene | 101 | 79 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 207 | 79 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 189 | 79 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 380 | 79 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 147 | 79 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 119 | 79 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 79 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 79 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 79 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 200 | ug/kg | |
| 86-74-8 | Carbazole | ND | 79 | ug/kg | |
| 218-01-9 | Chrysene | 326 | 79 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 79 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 79 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 79 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 79 | ug/kg | |

ND = Not detected
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:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 79 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 79 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 79 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 79 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 79 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 43.3 | 79 | ug/kg | J |
| 132-64-9 | Dibenzofuran | ND | 79 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 79 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 79 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 79 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 79 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 79 | ug/kg | |
| 206-44-0 | Fluoranthene | 395 | 79 | ug/kg | |
| 86-73-7 | Fluorene | ND | 79 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 79 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 79 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 790 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 166 | 79 | ug/kg | |
| 78-59-1 | Isophorone | ND | 79 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 46.7 | 79 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 200 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 200 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 200 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 79 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 79 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 79 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | ug/kg | |
| 85-01-8 | Phenanthrene | 383 | 79 | ug/kg | |
| 129-00-0 | Pyrene | 319 | 79 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 79 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 74% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 69% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 79% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 63% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 29-111% |

ND = Not detected
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:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 66% | | 18-147% |

ND = Not detected
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:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29100.D | 1 | 07/11/02 | KLS | 07/05/02 | OP11731 | GXX705 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.79 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.79 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.79 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.79 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.79 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.79 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.79 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.79 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.79 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.79 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | ND | 0.79 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.79 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.79 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.79 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.79 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.79 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.79 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.79 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.0 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.0 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 9.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 95% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 72% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 144% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 61% | | 18-155% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
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:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38023.D | 1 | 07/08/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 20 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 20 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 20 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 89% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 100% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 93% | | 14-160% |

ND = Not detected
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: | SE-AR-202 | | |
| Lab Sample ID: | N17628-4 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 84.1 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 32.0 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 110 | 24 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.59 | 0.59 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.59 | 0.59 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 42.4 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 374 | 3.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 145 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.56 | 0.036 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 51.2 | 4.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 3.0 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 144 | 2.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-202 | | |
| **Lab Sample ID:** | N17628-4 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 84.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 84.1 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49952.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2148 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.2 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 15 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 7.4 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 15 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.4 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 7.4 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 7.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 7.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 7.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 7.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 7.4 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | 2.3 | 1.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 7.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.4 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 37 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.4 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 7.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.4 | ug/kg | |

ND = Not detected
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:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.4 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 7.4 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.4 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 3.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 71% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 88% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 67-141% |

ND = Not detected
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:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50564.D | 1 | 07/10/02 | WHS | 07/05/02 | OP11730 | EB1199 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 210 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 830 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 830 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 830 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 830 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 83 | ug/kg | |
| 208-96-8 | Acenaphthylene | 155 | 83 | ug/kg | |
| 120-12-7 | Anthracene | 198 | 83 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 388 | 83 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 385 | 83 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 890 | 83 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 328 | 83 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 268 | 83 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 83 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 83 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 83 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 210 | ug/kg | |
| 86-74-8 | Carbazole | ND | 83 | ug/kg | |
| 218-01-9 | Chrysene | 628 | 83 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 83 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 83 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 83 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 83 | ug/kg | |

ND = Not detected
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:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 83 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 83 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 83 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 83 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 83 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 110 | 83 | ug/kg | |
| 132-64-9 | Dibenzofuran | 106 | 83 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 268 | 83 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 83 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 83 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 83 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 83 | ug/kg | |
| 206-44-0 | Fluoranthene | 669 | 83 | ug/kg | |
| 86-73-7 | Fluorene | ND | 83 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 83 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 83 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 830 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 422 | 83 | ug/kg | |
| 78-59-1 | Isophorone | ND | 83 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 105 | 83 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 210 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 210 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 210 | ug/kg | |
| 91-20-3 | Naphthalene | 84.6 | 83 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 83 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 83 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | ug/kg | |
| 85-01-8 | Phenanthrene | 466 | 83 | ug/kg | |
| 129-00-0 | Pyrene | 454 | 83 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 83 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 64% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 61% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 54% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 58% | | 29-111% |

ND = Not detected
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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:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 56% | | 18-147% |

ND = Not detected
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:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29101.D | 1 | 07/11/02 | KLS | 07/05/02 | OP11731 | GXX705 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.82 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.82 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.82 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.82 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.82 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.82 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.82 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.82 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.82 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.82 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 2.2 | 0.82 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.82 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.82 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.82 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.82 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.82 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.82 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.82 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.1 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.1 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 10 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 82% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 66% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 92% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 53% | | 18-155% |

(a) Reported from 2nd signal.

ND = Not detected
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:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38024.D | 1 | 07/08/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 21 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 21 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 21 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 21 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 75% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 63% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 82% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 77% | | 14-160% |



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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



| | | | |
|---|---|---|---|
| Client Sample ID: | SE-AR-203 | | |
| Lab Sample ID: | N17628-5 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 80.2 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 3.1 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 33.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 105 | 25 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.63 | 0.63 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.63 | 0.63 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 14.8 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 158 | 3.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 161 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.82 | 0.036 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 12.5 | 5.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 2.2 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 91.1 | 2.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-203 | | |
| **Lab Sample ID:** | N17628-5 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 80.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 80.2 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G50014.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2152 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.8 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 13 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.3 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.3 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.3 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.3 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.3 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 31 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.3 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.3 | ug/kg | |



ND = Not detected
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:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.3 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.3 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.3 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 70% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 88% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 67-141% |



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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



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50579.D | 1 | 07/11/02 | AAA | 07/05/02 | OP11730 | EB1200 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 200 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 790 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 790 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 790 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 790 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 79 | ug/kg | |
| 208-96-8 | Acenaphthylene | 131 | 79 | ug/kg | |
| 120-12-7 | Anthracene | 173 | 79 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 424 | 79 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 416 | 79 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1050 | 79 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 425 | 79 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 345 | 79 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 79 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 79 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 79 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 200 | ug/kg | |
| 86-74-8 | Carbazole | 45.0 | 79 | ug/kg | J |
| 218-01-9 | Chrysene | 642 | 79 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 79 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 79 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 79 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 79 | ug/kg | |

ND = Not detected
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:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 79 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 79 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 79 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 79 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 79 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 138 | 79 | ug/kg | |
| 132-64-9 | Dibenzofuran | 43.2 | 79 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | 92.6 | 79 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 79 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 79 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 79 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 170 | 79 | ug/kg | |
| 206-44-0 | Fluoranthene | 580 | 79 | ug/kg | |
| 86-73-7 | Fluorene | ND | 79 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 79 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 79 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 790 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 483 | 79 | ug/kg | |
| 78-59-1 | Isophorone | ND | 79 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 59.0 | 79 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 200 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 200 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 200 | ug/kg | |
| 91-20-3 | Naphthalene | 49.6 | 79 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 79 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 79 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | ug/kg | |
| 85-01-8 | Phenanthrene | 239 | 79 | ug/kg | |
| 129-00-0 | Pyrene | 501 | 79 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 79 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 68% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 70% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 29-111% |

ND = Not detected
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:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 63% | | 18-147% |

ND = Not detected
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:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29102.D | 1 | 07/11/02 | KLS | 07/05/02 | OP11731 | GXX705 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.79 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.79 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.79 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.79 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.79 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.79 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.79 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.79 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.79 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.79 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 2.0 | 0.79 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.79 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.79 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.79 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.79 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.79 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.79 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.79 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.0 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.0 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 9.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 73% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 58% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 44% | | 18-155% |

(a) Reported from 2nd signal.



ND = Not detected
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:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38025.D | 1 | 07/08/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 20 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 20 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 20 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 75% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 70% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 87% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 71% | | 14-160% |

ND = Not detected
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: | SE-AR-204 | | |
| Lab Sample ID: | N17628-6 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 83.6 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1.8 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 14.1 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 47.9 | 22 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.55 | 0.55 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.55 | 0.55 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 16.7 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 195 | 2.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 153 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.15 | 0.036 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 17.8 | 4.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 1.9 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.1 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.1 | 1.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 60.6 | 2.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-204 | | |
| **Lab Sample ID:** | N17628-6 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 83.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 83.6 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49977.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.9 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 12 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.2 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.2 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.2 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 31 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | ug/kg | |

ND = Not detected
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:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.2 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 71% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 67-141% |

ND = Not detected
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:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50561.D | 1 | 07/10/02 | WHS | 07/05/02 | OP11730 | EB1199 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 200 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 810 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 810 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 810 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 810 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 81 | ug/kg | |
| 208-96-8 | Acenaphthylene | 68.2 | 81 | ug/kg | J |
| 120-12-7 | Anthracene | 105 | 81 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 280 | 81 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 244 | 81 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 547 | 81 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 216 | 81 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 178 | 81 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 81 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 81 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 81 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 200 | ug/kg | |
| 86-74-8 | Carbazole | ND | 81 | ug/kg | |
| 218-01-9 | Chrysene | 394 | 81 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 81 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 81 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 81 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 81 | ug/kg | |

ND = Not detected
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:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 81 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 81 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 81 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 81 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 81 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 56.3 | 81 | ug/kg | J |
| 132-64-9 | Dibenzofuran | 52.9 | 81 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | 69.0 | 81 | ug/kg | J |
| 117-84-0 | Di-n-octyl phthalate | ND | 81 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 81 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 81 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 85.8 | 81 | ug/kg | |
| 206-44-0 | Fluoranthene | 562 | 81 | ug/kg | |
| 86-73-7 | Fluorene | ND | 81 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 81 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 81 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 810 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 248 | 81 | ug/kg | |
| 78-59-1 | Isophorone | ND | 81 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 68.9 | 81 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 200 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 200 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 200 | ug/kg | |
| 91-20-3 | Naphthalene | 59.0 | 81 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 81 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 81 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | ug/kg | |
| 85-01-8 | Phenanthrene | 332 | 81 | ug/kg | |
| 129-00-0 | Pyrene | 413 | 81 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 81 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 70% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 78% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 29-111% |

ND = Not detected
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:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 63% | | 18-147% |

ND = Not detected
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:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29103.D | 1 | 07/11/02 | KLS | 07/05/02 | OP11731 | GXX705 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.81 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.81 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.81 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.81 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.81 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.81 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.81 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.81 | ug/kg | |
| 72-54-8 | 4,4'-DDD [a] | 0.94 | 0.81 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.81 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 2.7 | 0.81 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.81 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.81 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.81 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.81 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.81 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.81 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.81 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.0 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.0 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 10 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 77% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 62% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 90% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 45% | | 18-155% |

(a) Reported from 2nd signal.

ND = Not detected
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:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38027.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 20 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 20 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 20 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 [a] | ND | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 87% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 83% | | 14-160% |

(a) Pattern present in sample, but below RDL.

ND = Not detected
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: | SE-AR-205 | | |
| Lab Sample ID: | N17628-7 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 82.2 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 7.0 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 82.8 | 26 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.65 | 0.65 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.65 | 0.65 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 16.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 68.9 | 3.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 64.7 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.30 | 0.037 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 12.2 | 5.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 69.1 | 2.6 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-205 | | |
| **Lab Sample ID:** | N17628-7 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 82.2 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | SE-AR-206 | | |
| Lab Sample ID: | N17628-8 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 74.1 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1.9 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 19.6 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 116 | 29 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.73 | 0.73 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | 0.74 | 0.73 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 23.7 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 196 | 3.6 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 311 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | <0.043 | 0.043 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 24.0 | 5.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 3.6 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | 1.9 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.5 | 1.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 314 | 2.9 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-206 | | |
| **Lab Sample ID:** | N17628-8 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 74.1 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 74.1 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49986.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.1 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 12 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.2 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.2 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.2 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 31 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | ug/kg | |

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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.2 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 71% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 67-141% |



ND = Not detected
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:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50586.D | 1 | 07/11/02 | AAA | 07/05/02 | OP11730 | EB1200 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 210 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 840 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 840 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 840 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 840 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 84 | ug/kg | |
| 208-96-8 | Acenaphthylene | 128 | 84 | ug/kg | |
| 120-12-7 | Anthracene | 145 | 84 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 441 | 84 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 406 | 84 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 851 | 84 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 358 | 84 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 249 | 84 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 84 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 84 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 84 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 210 | ug/kg | |
| 86-74-8 | Carbazole | 55.0 | 84 | ug/kg | J |
| 218-01-9 | Chrysene | 630 | 84 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 84 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 84 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 84 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 84 | ug/kg | |

ND = Not detected
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:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 84 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 84 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 84 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 84 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 84 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 99.5 | 84 | ug/kg | |
| 132-64-9 | Dibenzofuran | 64.7 | 84 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 84 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 84 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 84 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 84 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 84 | ug/kg | |
| 206-44-0 | Fluoranthene | 921 | 84 | ug/kg | |
| 86-73-7 | Fluorene | ND | 84 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 84 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 84 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 840 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 419 | 84 | ug/kg | |
| 78-59-1 | Isophorone | ND | 84 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 71.2 | 84 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 210 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 210 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 210 | ug/kg | |
| 91-20-3 | Naphthalene | 72.2 | 84 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 84 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 84 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | ug/kg | |
| 85-01-8 | Phenanthrene | 442 | 84 | ug/kg | |
| 129-00-0 | Pyrene | 699 | 84 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 84 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 65% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 63% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 64% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 56% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 57% | | 29-111% |

ND = Not detected
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:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 56% | | 18-147% |

ND = Not detected
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:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29125.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX706 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.85 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.85 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.85 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.85 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.85 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.85 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.85 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.85 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.85 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.85 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 1.3 | 0.85 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.85 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.85 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.85 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.85 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.85 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.85 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.85 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.1 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.1 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 11 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 101% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 80% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 105% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 52% | | 18-155% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
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:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38029.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 21 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 21 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 21 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 21 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 76% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 70% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 75% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 70% | | 14-160% |

ND = Not detected
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: | SE-AR-207 | | |
| Lab Sample ID: | N17628-9 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 78.8 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 2.9 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 6.8 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 70.6 | 24 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.60 | 0.60 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.60 | 0.60 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 9.6 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 59.5 | 3.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 110 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.22 | 0.042 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 10.6 | 4.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 1.5 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 97.9 | 2.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-207 | | |
| **Lab Sample ID:** | N17628-9 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 78.8 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 78.8 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49987.D | 1 | 07/10/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 13 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.6 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.6 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.6 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.6 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.6 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.6 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.6 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 33 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.6 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.6 | ug/kg | |

ND = Not detected
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:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.6 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.6 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.6 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 70% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 86% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 67-141% |

ND = Not detected
RL = Reporting 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



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50598.D | 1 | 07/12/02 | AAA | 07/05/02 | OP11730 | EB1201 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 200 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 810 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 810 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 810 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 810 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | ug/kg | |
| 83-32-9 | Acenaphthene | 97.0 | 81 | ug/kg | |
| 208-96-8 | Acenaphthylene | 83.8 | 81 | ug/kg | |
| 120-12-7 | Anthracene | 221 | 81 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 583 | 81 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 544 | 81 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 762 | 81 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 383 | 81 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 330 | 81 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 81 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | 38.7 | 81 | ug/kg | J |
| 91-58-7 | 2-Chloronaphthalene | ND | 81 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 200 | ug/kg | |
| 86-74-8 | Carbazole | 105 | 81 | ug/kg | |
| 218-01-9 | Chrysene | 663 | 81 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 81 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 81 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 81 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 81 | ug/kg | |

ND = Not detected
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:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 81 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 81 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 81 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 81 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 81 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 96.3 | 81 | ug/kg | |
| 132-64-9 | Dibenzofuran | 87.6 | 81 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 117 | 81 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 81 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 81 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 81 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 390 | 81 | ug/kg | |
| 206-44-0 | Fluoranthene | 1320 | 81 | ug/kg | |
| 86-73-7 | Fluorene | 93.0 | 81 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 81 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 81 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 810 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 404 | 81 | ug/kg | |
| 78-59-1 | Isophorone | ND | 81 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 43.8 | 81 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 200 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 200 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 200 | ug/kg | |
| 91-20-3 | Naphthalene | 66.0 | 81 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 81 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 81 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | ug/kg | |
| 85-01-8 | Phenanthrene | 1060 | 81 | ug/kg | |
| 129-00-0 | Pyrene | 1000 | 81 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 81 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 66% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 61% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 62% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 58% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 59% | | 29-111% |

ND = Not detected
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:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 53% | | 18-147% |

ND = Not detected
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:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29126.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX706 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.81 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.81 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.81 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.81 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.81 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.81 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.81 | ug/kg | |
| 60-57-1 | Dieldrin | 1.3 | 0.81 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.81 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 1.4 | 0.81 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 3.5 | 0.81 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.81 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.81 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.81 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.81 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.81 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.81 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.81 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.0 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.0 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 10 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 83% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 76% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 97% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 54% | | 18-155% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
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:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38030.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 20 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 20 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 20 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 82% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 75% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 79% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 73% | | 14-160% |

ND = Not detected
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: | SE-AR-208 | | |
| Lab Sample ID: | N17628-10 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 82.2 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 16.1 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 172 | 24 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.61 | 0.61 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | 1.2 | 0.61 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 19.3 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 104 | 3.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 527 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.64 | 0.040 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 20.9 | 4.9 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | 1.9 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 405 | 2.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-208 | | |
| **Lab Sample ID:** | N17628-10 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 82.2 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49988.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.0 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 12 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.9 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.9 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.9 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.9 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.9 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.9 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 29 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.9 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 5.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.9 | ug/kg | |

ND = Not detected
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:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.9 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 5.9 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.9 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 82% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 66% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 67-141% |

ND = Not detected
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:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50569.D | 1 | 07/10/02 | WHS | 07/05/02 | OP11730 | EB1199 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 190 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 770 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 770 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 770 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 770 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | ug/kg | |
| 83-32-9 | Acenaphthene | 153 | 77 | ug/kg | |
| 208-96-8 | Acenaphthylene | 62.2 | 77 | ug/kg | J |
| 120-12-7 | Anthracene | 247 | 77 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 522 | 77 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 449 | 77 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 749 | 77 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 307 | 77 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 271 | 77 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 77 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 77 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 77 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | ug/kg | |
| 86-74-8 | Carbazole | 40.0 | 77 | ug/kg | J |
| 218-01-9 | Chrysene | 606 | 77 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 77 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 77 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 77 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 77 | ug/kg | |

ND = Not detected
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:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 77 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 77 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 77 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 77 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 77 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 77.9 | 77 | ug/kg | |
| 132-64-9 | Dibenzofuran | 115 | 77 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 77 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 77 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 77 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 77 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 77 | ug/kg | |
| 206-44-0 | Fluoranthene | 942 | 77 | ug/kg | |
| 86-73-7 | Fluorene | 105 | 77 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 77 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 77 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 770 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 348 | 77 | ug/kg | |
| 78-59-1 | Isophorone | ND | 77 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 54.6 | 77 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 190 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | ug/kg | |
| 91-20-3 | Naphthalene | 68.5 | 77 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 77 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 77 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | ug/kg | |
| 85-01-8 | Phenanthrene | 416 | 77 | ug/kg | |
| 129-00-0 | Pyrene | 1060 | 77 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 77 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 67% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 64% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 67% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 59% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 60% | | 29-111% |

ND = Not detected
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:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 58% | | 18-147% |

ND = Not detected
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:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29127.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX706 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.77 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.77 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.77 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.77 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.77 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.77 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.77 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.77 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.77 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.77 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.77 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.77 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.77 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.77 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.77 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.77 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.77 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.77 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.9 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 1.9 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 9.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 61% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 92% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 46% | | 18-155% |

ND = Not detected
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:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38031.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 19 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 19 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 19 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 19 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 19 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 19 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 62% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 76% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 69% | | 14-160% |

ND = Not detected
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: | SE-AR-209 | | |
| Lab Sample ID: | N17628-11 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 85.7 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 3.5 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | <25 | 25 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.63 | 0.63 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.63 | 0.63 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 13.0 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 35.6 | 3.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 52.8 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.062 | 0.034 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 13.7 | 5.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 44.1 | 2.5 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-209 | | |
| **Lab Sample ID:** | N17628-11 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 85.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 85.7 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49989.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 12 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.1 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.1 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.1 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 30 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | ug/kg | |

ND = Not detected
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:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.1 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 70% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 88% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 67-141% |

ND = Not detected
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:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | B50558.D | 1 | 07/10/02 | WHS | 07/05/02 | OP11730 | EB1199 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 190 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 760 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 760 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 760 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 760 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 76 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 76 | ug/kg | |
| 120-12-7 | Anthracene | 34.1 | 76 | ug/kg | J |
| 56-55-3 | Benzo(a)anthracene | 143 | 76 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 147 | 76 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 193 | 76 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 105 | 76 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 88.9 | 76 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 76 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 76 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 76 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | ug/kg | |
| 86-74-8 | Carbazole | ND | 76 | ug/kg | |
| 218-01-9 | Chrysene | 158 | 76 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 76 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 76 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 76 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 76 | ug/kg | |

ND = Not detected
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:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 76 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 76 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 76 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 76 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 76 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 76 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 76 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 76 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 76 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 76 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 76 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 62.8 | 76 | ug/kg | J |
| 206-44-0 | Fluoranthene | 286 | 76 | ug/kg | |
| 86-73-7 | Fluorene | ND | 76 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 76 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 76 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 760 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 105 | 76 | ug/kg | |
| 78-59-1 | Isophorone | ND | 76 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 76 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 76 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 76 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 76 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | ug/kg | |
| 85-01-8 | Phenanthrene | 145 | 76 | ug/kg | |
| 129-00-0 | Pyrene | 234 | 76 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 76 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 69% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 61% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 61% | | 29-111% |

ND = Not detected
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:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 54% | | 18-147% |

ND = Not detected
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:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29051.D | 1 | 07/09/02 | KLS | 07/05/02 | OP11731 | GXX704 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.76 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.76 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.76 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.76 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.76 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.76 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.76 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.76 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.76 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.76 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 1.8 | 0.76 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.76 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.76 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.76 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.76 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.76 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.76 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.76 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.9 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 1.9 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 9.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 80% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 75% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 99% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 62% | | 18-155% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
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:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38021.D | 1 | 07/08/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 19 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 19 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 19 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 19 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 19 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 19 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 88% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 86% | | 14-160% |

ND = Not detected
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: | SE-AR-210 | | |
| Lab Sample ID: | N17628-12 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 88.0 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Arsenic | 5.5 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Barium | 39.8 | 24 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Beryllium | <0.60 | 0.60 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Cadmium | <0.60 | 0.60 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Chromium | 12.4 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Copper | 43.6 | 3.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Lead | 391 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Mercury | 0.52 | 0.035 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 11.9 | 4.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Selenium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Silver | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Thallium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |
| Zinc | 439 | 2.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | NC | SW846 6010B | SW846 3050B |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-210 | | |
| **Lab Sample ID:** | N17628-12 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 88.0 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 88 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49990.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.0 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 17.9 | 13 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.5 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.5 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.5 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.5 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.5 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.5 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 32 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.5 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.5 | ug/kg | |

ND = Not detected
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:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.5 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.5 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.5 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 69% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 67-141% |

ND = Not detected
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:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | B50584.D | 1 | 07/11/02 | AAA | 07/05/02 | OP11730 | EB1200 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.2 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 630 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 630 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 630 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 630 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 2500 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 2500 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 630 | ug/kg | |
| | 3&4-Methylphenol | ND | 630 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 630 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 2500 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 2500 | ug/kg | |
| 108-95-2 | Phenol | ND | 630 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 630 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 630 | ug/kg | |
| 83-32-9 | Acenaphthene | 2110 | 250 | ug/kg | |
| 208-96-8 | Acenaphthylene | 290 | 250 | ug/kg | |
| 120-12-7 | Anthracene | 1790 | 250 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 2320 | 250 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1580 | 250 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 2610 | 250 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 1150 | 250 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 984 | 250 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 250 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | 506 | 250 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 250 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 630 | ug/kg | |
| 86-74-8 | Carbazole | 512 | 250 | ug/kg | |
| 218-01-9 | Chrysene | 2510 | 250 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 250 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 250 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 250 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 250 | ug/kg | |

ND = Not detected
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:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 250 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 250 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 250 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 250 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 250 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 630 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 274 | 250 | ug/kg | |
| 132-64-9 | Dibenzofuran | 1520 | 250 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 250 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 250 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 250 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 250 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1250 | 250 | ug/kg | |
| 206-44-0 | Fluoranthene | 8070 | 250 | ug/kg | |
| 86-73-7 | Fluorene | 2010 | 250 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 250 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 250 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 2500 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 630 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1290 | 250 | ug/kg | |
| 78-59-1 | Isophorone | ND | 250 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 566 | 250 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 630 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 630 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 630 | ug/kg | |
| 91-20-3 | Naphthalene | 1180 | 250 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 250 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 250 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 630 | ug/kg | |
| 85-01-8 | Phenanthrene | 6580 | 250 | ug/kg | |
| 129-00-0 | Pyrene | 5810 | 250 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 75% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 72% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 72% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 66% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 29-111% |

ND = Not detected
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:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 66% | | 18-147% |

(a) Elevated detection limit due to low volume of sample extracted.

ND = Not detected
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:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | XX29142.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX707 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.2 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin [b] | 5.9 | 2.5 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 2.5 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 2.5 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 2.5 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 2.5 | ug/kg | |
| 5103-71-9 | alpha-Chlordane [b] | 3.9 | 2.5 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 2.5 | ug/kg | |
| 60-57-1 | Dieldrin [b] | 2.7 | 2.5 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 9.2 | 2.5 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 2.5 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 2.5 | ug/kg | |
| 72-20-8 | Endrin | ND | 2.5 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 2.5 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 2.5 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 2.5 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 2.5 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 2.5 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 2.5 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 6.4 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 6.4 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 32 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 70% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 56% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 82% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 44% | | 18-155% |

(a) Elevated detection limit due to low volume of sample extracted.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
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:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | EF38032.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.2 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 64 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 64 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 64 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 64 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | 269 | 64 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 64 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | 84.3 | 64 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 57% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 68% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 63% | | 14-160% |

(a) Elevated detection limit due to low volume of sample extracted.

ND = Not detected
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: | SE-AR-211 | | |
| Lab Sample ID: | N17628-13 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 77.5 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Arsenic | 7.0 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Barium | 61.8 | 24 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Beryllium | <0.60 | 0.60 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Cadmium | 0.72 | 0.60 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Chromium | 18.6 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Copper | 98.5 | 3.0 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Lead | 154 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Mercury | 0.35 | 0.038 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 17.3 | 4.8 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Selenium | 1.3 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Silver | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Thallium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Zinc | 214 | 2.4 | mg/kg | 1 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-211 | | |
| **Lab Sample ID:** | N17628-13 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 77.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 77.5 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G49991.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2150 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 13 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.3 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.3 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.3 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.3 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.3 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 32 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.3 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.3 | ug/kg | |

ND = Not detected
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:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.3 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.3 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.3 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 71% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 67-141% |

ND = Not detected
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:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | B50583.D | 1 | 07/11/02 | AAA | 07/05/02 | OP11730 | EB1200 |
| Run #2 | B50601.D | 5 | 07/12/02 | AAA | 07/05/02 | OP11730 | EB1201 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 5.0 ml |
| Run #2 | 30.1 g | 5.0 ml |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 980 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 980 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 980 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 980 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 3900 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 3900 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 980 | ug/kg | |
| | 3&4-Methylphenol | ND | 980 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 980 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 3900 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 3900 | ug/kg | |
| 108-95-2 | Phenol | ND | 980 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 980 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 980 | ug/kg | |
| 83-32-9 | Acenaphthene | 1440 | 390 | ug/kg | |
| 208-96-8 | Acenaphthylene | 1800 | 390 | ug/kg | |
| 120-12-7 | Anthracene | 4100 | 390 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 15300 | 390 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 14600 | 390 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 20600 [b] | 2000 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 9440 | 390 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 6040 | 390 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 390 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 390 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 390 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 980 | ug/kg | |
| 86-74-8 | Carbazole | 2220 | 390 | ug/kg | |
| 218-01-9 | Chrysene | 15900 | 390 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 390 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 390 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 390 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 390 | ug/kg | |

ND = Not detected
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:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 390 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 390 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 390 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 390 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 390 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 980 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 2800 | 390 | ug/kg | |
| 132-64-9 | Dibenzofuran | 678 | 390 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 224 | 390 | ug/kg | J |
| 117-84-0 | Di-n-octyl phthalate | ND | 390 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 390 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 390 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1120 | 390 | ug/kg | |
| 206-44-0 | Fluoranthene | 26200 [b] | 2000 | ug/kg | |
| 86-73-7 | Fluorene | 1080 | 390 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 390 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 390 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 3900 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 980 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 11600 | 390 | ug/kg | |
| 78-59-1 | Isophorone | ND | 390 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 275 | 390 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 980 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 980 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 980 | ug/kg | |
| 91-20-3 | Naphthalene | 465 | 390 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 390 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 390 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 980 | ug/kg | |
| 85-01-8 | Phenanthrene | 13200 | 390 | ug/kg | |
| 129-00-0 | Pyrene | 22400 [b] | 2000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 390 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 94% | 82% | 20-118% |
| 4165-62-2 | Phenol-d5 | 90% | 68% | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 96% | 86% | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 83% | 69% | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 90% | 84% | 29-111% |

ND = Not detected
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:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 89% | 80% | 18-147% |

(a) Elevated detection limit due to high final volume of viscous extract.
(b) Result is from Run# 2

ND = Not detected
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:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29143.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX707 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.79 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.79 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.79 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.79 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.79 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 7.9 | 0.79 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.79 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.79 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.79 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.79 | ug/kg | |
| 50-29-3 | 4,4'-DDT [a] | 29.9 | 0.79 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.79 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.79 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.79 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.79 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.79 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.79 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.79 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.0 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.0 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 9.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 1352% [b] | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 84% | | 18-155% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected
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:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38033.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 20 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 20 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 20 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 65% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 72% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 84% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 97% | | 14-160% |

ND = Not detected
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: | SE-AR-212 | | |
| Lab Sample ID: | N17628-14 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 84.6 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 17.4 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Arsenic | 703 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Barium | 252 | 25 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Beryllium | <0.62 | 0.62 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Cadmium | 3.6 | 0.62 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Chromium | 19.5 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Copper | 3140 | 3.1 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Lead | 1250 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Mercury | 1.2 | 0.069 | mg/kg | 2 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 72.6 | 4.9 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Selenium | 10.1 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Silver | 5.1 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Thallium | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Zinc | 1890 | 2.5 | mg/kg | 1 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-212 | | |
| **Lab Sample ID:** | N17628-14 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 84.6 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 84.6 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G50018.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2152 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.4 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 14 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.1 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 7.1 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.1 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 7.1 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 7.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 7.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 7.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 7.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 7.1 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 7.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.1 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 35 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.1 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 7.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.1 | ug/kg | |

ND = Not detected
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:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.1 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 7.1 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.1 | ug/kg | |
| 1330-20-7 | Xylene (total) | 3.7 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 72% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 88% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 67-141% |

ND = Not detected
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:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | B50559.D | 1 | 07/10/02 | WHS | 07/05/02 | OP11730 | EB1199 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.7 g | 1.0 ml |
| Run #2 | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 580 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 580 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 580 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 580 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 2300 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 2300 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 580 | ug/kg | |
| | 3&4-Methylphenol | ND | 580 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 580 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 2300 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 2300 | ug/kg | |
| 108-95-2 | Phenol | ND | 580 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 580 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 580 | ug/kg | |
| 83-32-9 | Acenaphthene | 3190 | 230 | ug/kg | |
| 208-96-8 | Acenaphthylene | 191 | 230 | ug/kg | J |
| 120-12-7 | Anthracene | 1020 | 230 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1310 | 230 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 827 | 230 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1220 | 230 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 478 | 230 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 555 | 230 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 230 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 580 | ug/kg | |
| 86-74-8 | Carbazole | 300 | 230 | ug/kg | |
| 218-01-9 | Chrysene | 1400 | 230 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | ug/kg | |

ND = Not detected
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:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 580 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 111 | 230 | ug/kg | J |
| 132-64-9 | Dibenzofuran | 1450 | 230 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 230 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 230 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 230 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 191 | 230 | ug/kg | J |
| 206-44-0 | Fluoranthene | 4820 | 230 | ug/kg | |
| 86-73-7 | Fluorene | 1720 | 230 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 2300 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 580 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 513 | 230 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 386 | 230 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 580 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 580 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 580 | ug/kg | |
| 91-20-3 | Naphthalene | 1170 | 230 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 580 | ug/kg | |
| 85-01-8 | Phenanthrene | 3530 | 230 | ug/kg | |
| 129-00-0 | Pyrene | 3300 | 230 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 20-118% |
| 4165-62-2 | Phenol-d5 | 68% | | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 73% | | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 29-111% |

ND = Not detected
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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



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 61% | | 18-147% |

(a) Elevated detection limit due to low volume of sample extracted.

ND = Not detected
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:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | XX29144.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX707 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.2 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 2.4 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 2.4 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 2.4 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 2.4 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 2.4 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 2.4 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 2.4 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 2.4 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 2.4 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 2.4 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 2.4 | ug/kg | |
| 72-20-8 | Endrin | ND | 2.4 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 2.4 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 2.4 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 2.4 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 2.4 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 2.4 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 2.4 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 6.1 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 6.1 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 30 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 61% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 52% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 69% | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 42% | | 18-155% |

(a) Elevated detection limit due to low volume of sample extracted.

ND = Not detected
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:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | EF38034.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.2 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 61 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 61 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 61 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 61 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 61 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 61 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 61 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 68% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 54% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 56% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 58% | | 14-160% |

(a) Elevated detection limit due to low volume of sample extracted.

ND = Not detected
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: | SE-AR-213 | | |
| Lab Sample ID: | N17628-15 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 80.7 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Arsenic | 5.1 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Barium | <27 | 27 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Beryllium | <0.67 | 0.67 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Cadmium | <0.67 | 0.67 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Chromium | 16.5 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Copper | 90.5 | 3.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Lead | 85.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Mercury | 0.14 | 0.041 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 19.5 | 5.4 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Selenium | 1.5 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Silver | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Thallium | <1.3 | 1.3 | mg/kg | 1 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Zinc | 72.4 | 2.7 | mg/kg | 1 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-213 | | |
| **Lab Sample ID:** | N17628-15 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 80.7 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 80.7 | | % | 1 | 07/05/02 TM | EPA 160.3 M |

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G50019.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2152 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.3 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 14 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.1 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 7.1 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.1 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 7.1 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 7.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 7.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 7.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 7.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 7.1 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 7.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.1 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 35 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.1 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 7.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.1 | ug/kg | |

ND = Not detected
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:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.1 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 7.1 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.1 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 74% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 86% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 67-141% |

ND = Not detected
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:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | B50574.D | 1 | 07/11/02 | AAA | 07/05/02 | OP11730 | EB1200 |
| Run #2 | B50600.D | 5 | 07/12/02 | AAA | 07/05/02 | OP11730 | EB1201 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 5.0 ml |
| Run #2 | 30.1 g | 5.0 ml |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-57-8 | 2-Chlorophenol | ND | 1000 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 1000 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 1000 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 1000 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 4000 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 4000 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 1000 | ug/kg | |
| | 3&4-Methylphenol | ND | 1000 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 1000 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 4000 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 4000 | ug/kg | |
| 108-95-2 | Phenol | ND | 1000 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 1000 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 1000 | ug/kg | |
| 83-32-9 | Acenaphthene | 8500 | 400 | ug/kg | |
| 208-96-8 | Acenaphthylene | 496 | 400 | ug/kg | |
| 120-12-7 | Anthracene | 18900 | 400 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 42100 [b] | 2000 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 34800 [b] | 2000 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 46900 [b] | 2000 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 20800 [b] | 2000 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 12700 | 400 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 400 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | 4870 | 400 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 400 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 1000 | ug/kg | |
| 86-74-8 | Carbazole | 11500 | 400 | ug/kg | |
| 218-01-9 | Chrysene | 41900 [b] | 2000 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 400 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 400 | ug/kg | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 400 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 400 | ug/kg | |

ND = Not detected
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:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | ND | 400 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 400 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 400 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 400 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 400 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 1000 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 8730 | 400 | ug/kg | |
| 132-64-9 | Dibenzofuran | 4630 | 400 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 400 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 400 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 400 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 400 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 6020 | 400 | ug/kg | |
| 206-44-0 | Fluoranthene | 86500 [b] | 2000 | ug/kg | |
| 86-73-7 | Fluorene | 7840 | 400 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 400 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 400 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 4000 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 1000 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 24800 [b] | 2000 | ug/kg | |
| 78-59-1 | Isophorone | ND | 400 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 1660 | 400 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 1000 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 1000 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 1000 | ug/kg | |
| 91-20-3 | Naphthalene | 3580 | 400 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 400 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 400 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 1000 | ug/kg | |
| 85-01-8 | Phenanthrene | 61900 [b] | 2000 | ug/kg | |
| 129-00-0 | Pyrene | 63200 [b] | 2000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 400 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 102% | 76% | 20-118% |
| 4165-62-2 | Phenol-d5 | 100% | 67% | 21-113% |
| 118-79-6 | 2,4,6-Tribromophenol | 98% | 79% | 25-130% |
| 4165-60-0 | Nitrobenzene-d5 | 90% | 62% | 26-114% |
| 321-60-8 | 2-Fluorobiphenyl | 92% | 76% | 29-111% |

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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



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**ABN TCL List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 | 107% | 77% | 18-147% |

(a) Elevated detection limit due to high final volume of viscous extract.
(b) Result is from Run# 2



ND = Not detected
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:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8081A SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | XX29145.D | 1 | 07/12/02 | KLS | 07/05/02 | OP11731 | GXX707 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**Pesticide TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 309-00-2 | Aldrin | ND | 0.81 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.81 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.81 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.81 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.81 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.81 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.81 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.81 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.81 | ug/kg | |
| 72-55-9 | 4,4'-DDE [a] | 17.9 | 0.81 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.81 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.81 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.81 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.81 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.81 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.81 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.81 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.81 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 2.0 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 2.0 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 10 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 75% | | 26-139% |
| 877-09-8 | Tetrachloro-m-xylene | 57% | | 26-139% |
| 2051-24-3 | Decachlorobiphenyl | 1116% [b] | | 18-155% |
| 2051-24-3 | Decachlorobiphenyl | 46% | | 18-155% |

(a) Reported from 2nd signal.
(b) Outside control limits due to matrix interference.



ND = Not detected
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:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8082 SW846 3550B | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF38035.D | 1 | 07/09/02 | FIA | 07/05/02 | OP11732 | GEF2056 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 20 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 20 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 20 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | 265 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | 169 | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 60% | | 12-142% |
| 877-09-8 | Tetrachloro-m-xylene | 46% | | 12-142% |
| 2051-24-3 | Decachlorobiphenyl | 89% | | 14-160% |
| 2051-24-3 | Decachlorobiphenyl | 78% | | 14-160% |



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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: | SE-AR-214 | | |
| Lab Sample ID: | N17628-16 | Date Sampled: | 07/02/02 |
| Matrix: | SO - Soil | Date Received: | 07/03/02 |
| | | Percent Solids: | 82.2 |
| Project: | Arch Street, Long Island City, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony [a] | <2.3 | 2.3 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Arsenic | 23.7 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Barium | 1070 | 23 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Beryllium | <0.58 | 0.58 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Cadmium [a] | <1.2 | 1.2 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Chromium [a] | 35.8 | 2.3 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Copper [a] | 132 | 5.8 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Lead [a] | 336 | 2.3 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Mercury | 0.64 | 0.035 | mg/kg | 1 | 07/09/02 | 07/09/02 | JM | SW846 7471A | SW846 7471A |
| Nickel | 41.6 | 4.6 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Selenium [a] | 2.7 | 2.3 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Silver | <1.2 | 1.2 | mg/kg | 1 | 07/16/02 | 07/17/02 | ND | SW846 6010B | SW846 3050B |
| Thallium [a] | <2.3 | 2.3 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |
| Zinc [a] | 1500 | 4.6 | mg/kg | 2 | 07/16/02 | 07/18/02 | ND | SW846 6010B | SW846 3050B |

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

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# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-214 | | |
| **Lab Sample ID:** | N17628-16 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| | | **Percent Solids:** | 82.2 |
| **Project:** | Arch Street, Long Island City, NY | | |

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed By | Method |
|---|---|---|---|---|---|---|
| Solids, Percent | 82.2 | | % | 1 | 07/05/02 TM | EPA 160.3 M |



RL = Reporting Limit

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SE-AR-215 | | |
| **Lab Sample ID:** | N17628-17 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | G50020.D | 1 | 07/11/02 | SJM | n/a | n/a | VG2152 |
| Run #2 | | | | | | | |

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

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 19.0 | 13 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.6 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.6 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.6 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.6 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.6 | ug/kg | |
| 1634-04-4 | **Methyl Tert Butyl Ether** | ND | 1.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.6 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.6 | ug/kg | |
| 75-65-0 | **Tert Butyl Alcohol** | ND | 33 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.6 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.6 | ug/kg | |



ND = Not detected
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:** | SE-AR-215 | | |
| **Lab Sample ID:** | N17628-17 | **Date Sampled:** | 07/02/02 |
| **Matrix:** | SO - Soil | **Date Received:** | 07/03/02 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.5 |
| **Project:** | Arch Street, Long Island City, NY | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.6 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.6 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.6 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 70-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 71% | | 62-130% |
| 2037-26-5 | Toluene-D8 | 86% | | 75-125% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 67-141% |

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N = Indicates presumptive evidence of a compound