FINAL REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS (RI/AA) REPORT

FORMER ELECTRUK BATTERY SITE (NYSDEC SITE No. E932132) 4922 IDA PARK DRIVE, TOWN OF LOCKPORT NIAGARA COUNTY, NEW YORK

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TABLE OF CONTENTS

INTRO	DDUCTION	1
1.1 1.2	Purpose Site Background	1
		1
		2 2
	1.2.4 Areas of Potential Environmental Concern	4
		5 6
2.1		
		6
	2.1.3 Test Pit Excavations	7
		7
		8 g
	, 0	9
		9
2.2	Sample Analysis/Validation	9
		6 6 7 7 8 8 9 9 9 9
		10
DUVO		
		11 11
		11
3.3	Geology	12
	3.3.1 Soil/Fill Material	12
		12 12
3.4	Hydrogeology	13
NATU	RE AND EXTENT OF CONTAMINATION	14
4.1	Surface Soil	14
4.2	Subsurface Soil	15
		15 16
		16
4.6	Sub-Slab Soil	16
		17
5.1		17
		17 17
		17
	5.1.4 Surface Water	17
	5.1.5 Groundwater	18
	5.1.6 Sub-Slab Soil	18
	·	18 19
5.3		19
	5.3.2 Sediments	19
	1.1 1.2 METH 2.1 2.2 PHYS 3.1 3.2 3.3 3.4 NATU 4.1 4.2 4.3 4.4 4.5 4.6	1.2 Site Background 1.2.1 Site Discription 1.2.2 Site History 1.2.3 Previous Environmental Investigations 1.2.4 Areas of Potential Environmental Concern METHODS OF INVESTIGATION 2.1 Field Investigation 2.1.1 Site Survey and Title Search 2.1.2 Surface Soil Sampling 2.1.3 Test Pit Excavations 2.1.4 Test Borings and Monitoring Well Installation 2.1.5 Groundwater Monitoring Well Development and Sampling 2.1.6 Sediment Sampling 2.1.7 Surface Water Sampling 2.1.8 Sub-Slab Soil Sampling 2.1.8 Sub-Slab Soil Sampling 2.2.1 Laboratory Analysis 2.2.2 Quality Assurance/Quality Control Samples 2.2.3 Data Validation PHYSICAL CHARACTERISTICS OF THE STUDY AREA 3.1 Site Structure 3.2 Physical Setting 3.3 Geology 3.3.1 Soil/Fill Material 3.3.2 Reworked Native Material 3.3.3 Native Material 3.4 Hydrogeology NATURE AND EXTENT OF CONTAMINATION 4.1 Surface Soil 4.2 Subsurface Soil 4.2 Subsurface Soil 4.3 Sediment Sampling 4.4 Surface Water 4.5 Groundwater 4.6 Sub-Slab Soil CONTAMINATION ASSESSMENT 5.1 Contaminant Fate and Transport 5.1.1 Surface Soil 5.1.2 Subsurface Soil 5.1.3 Sediments 5.1.4 Surface Water 5.1.5 Groundwater 5.1.6 Sub-Slab Soil 5.2 Evaluation of Potential Receptors 5.3.1 Surface Soil

		5.3.3 5.3.4	Surface Water Groundwater		20 20
6.0	IDEN1 6.1	Remed 6.1.1 6.1.2	ON AND DEVELOPMENT OF ALTERNATIVES dial Action Objectives Surface Soil Sediment Surface Water		21 21 21 21 21
	6.2	Genera 6.2.1 6.2.2	Surface Water Surface Soil Sediments Surface Water		21 21 22 22
	6.3	Remed 6.3.1 6.3.2	diation Areas and Volumes Surface Soil Volume Sediment Volume Surface Water Volume		22 22 22 23
	6.4	Develo 6.4.1	opment of Alternatives Alternative A – No Action Alternative B – Removal of Contaminated Trench Sediment/Water Alternative C – Removal of Contaminated Surface Soil Sediment/Water	and	23 23 23 Trench 24
7.0			ALYSIS OF ALTERNATIVES		25
	7.1	7.1.1 7.1.2 7.1.3	al Discussion Overall Protection of Human Health and the Environment Compliance with Standards, Criteria, and Guidance Short-Term Effectiveness Long-Term Effectiveness Reduction of Toxicity, Mobility and Volume Feasibility		25 25 25 25 25 26 26
	7.2	7.2.1	Alternative A No Action 7.2.1.1 Overall Protection of Human Health and the Environment 7.2.1.2 Compliance with Standards, Criteria, and Guidance 7.2.1.3 Short-Term Effectiveness 7.2.1.4 Long-Term Effectiveness 7.2.1.5 Reduction of Toxicity, Mobility and Volume 7.2.1.6 Feasibility		26 26 26 27 27 27 27
		7.2.2	Alternative B – Removal of Contaminated Trench Sediment/Water 7.2.2.1 Overall Protection of Human Health and the Environment 7.2.2.2 Compliance with Standards, Criteria, and Guidance 7.2.2.3 Short-Term Effectiveness 7.2.2.4 Long-Term Effectiveness 7.2.2.5 Reduction of Toxicity, Mobility and Volume 7.2.2.6 Feasibility		27 27 27 28 28 28 28
		7.2.3	Alternative C – Removal of Contaminated Surface Soil Sediment/Water 7.2.3.1 Overall Protection of Human Health and the Environment 7.2.3.2 Compliance with Standards, Criteria, and Guidance 7.2.3.3 Short-Term Effectiveness 7.2.3.4 Long-Term Effectiveness 7.2.3.5 Reduction of Toxicity, Mobility and Volume 7.2.3.6 Feasibility	and	Trench 28 28 29 29 29 29
	7.3	Compa	rative Analysis and Recommendation		29

8.0	INTER	RIM REMEDIAL MEASURES	31
	8.1	Purpose and Approach	31
	8.2	IRM Construction Observation	31
	8.3	Description of the Work Areas	31
	8.4	IRM Activities Performed	32
		8.4.1 Water and Sediment Removal	32
		8.4.2 Backfill with Flowable Fill	32
		8.4.3 Disposal	32
	8.5	Project Costs	32
9.0	SUMM	MARY AND CONCLUSIONS	33
	9.1	Site Conditions	33
	9.2	Investigation Approach	34
	9.3	Site Structures	34
	9.4	Physical Setting	34
	9.5	Nature and Extent of Contamination	35
		9.5.1 Surface Soil	35
		9.5.2 Subsurface Soil	35
		9.5.3 Sediments and Surface Water	35
		9.5.4 Groundwater	35
		9.5.5 Sub-Slab Soil	35
	9.6	Contamination Assessment	35
		9.6.1 Potential Receptors	35
		9.6.2 Exposure Pathways	36
	9.7	Remedial Action Objectives	36
	9.8	Remedial Alternatives	37
		9.8.1 Alternative A – No Action	37
		9.8.2 Alternative B – Removal of Contaminated Trench Sediment/Water	37
			rench
	0.0	Sediment/Water	37
	9.9	Recommended Alternative	37 37
	9.10	Interim Remedial Measures	31
LIST O	F FIGUI	RES	
1		Site Location Map	
2		Site Survey	
3		Tax Map	
4		1999 USEPA Removal Action Post Excavation Sampling Result Map	
5		Monitoring Well Location and Groundwater Flow Direction Map	
6		Surface Investigation Map	
7		Subsurface Investigation Map	
8		Surficial Contaminants of Concern	
LIST O	F TABL	LES	
4		Sampling/Analysis Summany	
1		Sampling/Analysis Summary	
2		Groundwater Elevation Summary Summary of Analytical Results - Surface Soil Samples	
3 4			
		Summary of Analytical Results - Subsurface Soil/Fill Samples	
5 6		Summary of Analytical Results - Sediment Samples Summary of Analytical Results - Surface Water Samples	
7		Summary of Analytical Results – Surface Water Samples Summary of Analytical Results- Groundwater Samples	
8		Definitions of Data Qualifiers	
9		General Response Actions & Development of Site-Wide Alternatives	
10		Cost Estimate – Alternative B	
10		Cost Estimate - Alternative D	

- 11 Cost Estimate - Alternative C
- 12 Comparison of Site-Wide Alternatives

APPENDICES

- A USEPA Sampling/Removal Action Reports and NYSDOH's March 9, 2000 Concurrence Letter
- B Field Logs
- C Data Validation Report
- D IRM Supporting Documents
 E Town of Lockport's Remedial Alternative Acceptance Letter

ATTACHMENTS

Α Analytical Results Reports

1.0 INTRODUCTION

1.1 Purpose

The Town of Lockport (Town) entered into a State Assistance Contract with the New York State Department of Environmental Conservation (NYSDEC) to complete a Remedial Investigation/Alternatives Analysis (RI/AA) program at the Former Electruk Battery site located at 4922 IDA Park Drive in the Lockport Industrial Park in Lockport, New York (project site). The location of the project site is shown on Figure 1 and the site survey is shown on Figure 2. The RI/AA program was completed pursuant to the Environmental Restoration, or Brownfield, Program, component of Title 5 of the Clean Water/Clean Air Bond Act of 1996, which is administered by the NYSDEC. The purpose of the RI/AA program described herein was to characterize the nature and extent of contamination occurring on, and emanating from, the project site, and to develop and evaluate remedial alternatives, as appropriate.

TVGA Consultants (TVGA) has prepared this report on behalf of the Town to provide a detailed description of the RI/AA program implemented at the Former Electruk Battery site. In addition to summarizing and documenting the methods used to investigate the project site, this RI/AA Report describes the physical characteristics of the site; defines the nature, magnitude and extent of contamination encountered; assesses the contamination with respect to fate, transport and exposure; and identifies appropriate remedial action objectives (RAOs). Also discussed in this report are the screening and detailed analysis of remedial alternatives and the identification of the most suitable remedy available to satisfy the RAOs.

1.2 <u>Site Background</u>

1.2.1 Site Description

The project site consists of approximately 1.4 acres located within the Town of Lockport, as shown on Figure 1. Figure 2 is the site survey which shows the layout of the project site, including the on-site structure. The location and configuration of the tax parcel (SBL 108.00-1-55) that comprises the project site is depicted on Figure 3. The project site is currently occupied by an approximately 14,000-square-foot building. The remaining portions of the project site are comprised of an open field areas consisting of weeds and brush and a concrete paved area.

Immediately beyond IDA Park Drive, Polycom-Huntsman Inc., a plastics manufacturer, is located to the east of the project site. Enterprise Drive bounds the site to the south and vacant undeveloped land is located beyond this street. Undeveloped land and a commercial business lie to the north and west of the project site, respectively.

1.2.2 Site History

The project site was first developed as the Electruk Battery Enterprises site that manufactured lead acid batteries from 1990 to 1996. The facility was damaged by a sixalarm fire in January 1995, which caused a significant disruption to the business. As a result, Electruk Battery was not able to recover from the damages and was forced into Chapter 7 bankruptcy in October 1996.

The County commenced an in rem tax foreclosure proceeding in July 2003 and subsequently took ownership of the project site. The Town filed and was granted a Notice of Motion in the Niagara County Courthouse to obtain temporary incidents of ownership of the project site for the sole purpose of entering the project site and conducting an environmental investigation. Following the completion of the RI/AA and subsequent remedial tasks, if any, the County has agreed to transfer title to the project site free of any tax liens to the Town.

1.2.3 Previous Environmental Investigations

In early October 1996, Key Bank was permitted by order of the US Bankruptcy Court to secure the site to preserve the assets and collateral in which it had security interests. Electruk Battery then abandoned the site, leaving behind numerous drums of acids, lead components, and solvents.

In October 1996, Key Bank retained an environmental consultant to perform a Phase I Environmental Site Assessment (ESA) at the property. A Phase II ESA was then performed in June 1997 by the same consultant on behalf the Town of Lockport Industrial Development Agency. The Phase II ESA revealed approximately twenty 55-gallon drums and two vats identified as containing lead sludge located outside of the building which were left open to the elements along with four 30-gallon drums of sulfuric acid, one of which was cracked and only half full. The interior of the building was found to be covered with lead dust and several areas of lead contaminated surface soil were documented. The 1995 fire had exacerbated the spread of lead contamination throughout the facility, which likely had already been contaminated with lead from the battery manufacturing process. Inside the building were drums of methyl ethyl ketone, sulfuric acid, and xylene along with many smaller containers of paint related items. Two bulk acid storage tanks were also present.

In June 1998, the Niagara County Health Department requested that the NYSDEC consider the site for an emergency removal action under the State superfund program. In July 1998, the NYSDEC requested that the U.S. Environmental Protection Agency (EPA) perform an emergency removal at the site. Under Superfund, EPA is charged with responding to the release or threatened release of contamination into the environment with enforcement responsibilities, including the recovery of costs associated with its response. After performing a removal assessment in August 1998, EPA confirmed the presence of hazardous materials on the property.

EPA subsequently commenced a Superfund removal action to address the contamination. That action was completed in June 1999. The removal action included the identification, removal, and disposal of all hazardous wastes from the property, with the exceptions noted below. Material removed from the property included 24 roll-off containers (695 cubic yards) of building debris and contaminated equipment, 99 drums of miscellaneous wastes, nine roll-off containers (180 cubic yards) of lead contaminated soil, three tanker loads (8,634 gallons) of hazardous liquids, 21 pallets (27.45 tons) of batteries and battery components and 3 cubic yards of spent sorbent and personal protective equipment. All materials were transported to permitted off-site disposal facilities. This removal action is documented in the June 29, 1999 Pollution Report prepared by the EPA.

EPA did not pursue any investigation into potential on-site groundwater contamination or soil contamination caused by potential solvent releases.

Wipe sampling data collected by EPA after the decontamination of the building floor and ceiling beams confirmed the removal of gross contamination. However, some residual lead concentrations that meet EPA's removal criteria but exceed the residential guidelines used by the U.S. Department of Housing and Urban Development remain on the floor and ceiling beams. The lead concentrations remaining are indicative of lead bonded to surfaces in a manner that would require extensive, repetitive cleaning for removal or encapsulation prior to reuse of the building. It was therefore recommended that potential buyers or renters be informed that these surfaces should be encapsulated (e.g., by application of paint and/or insulation on the ceiling beams and either painting the floor or covering it with a fresh layer of concrete or other material) prior to utilizing the building. The wipe sampling data is summarized in the June 29, 1999 Wipe Sampling Trip Report prepared by Roy F. Weston Inc.

EPA's action level for excavation of lead-contaminated soil at industrial sites was 750 parts per million (ppm). Although EPA removed all lead contaminated soil with concentrations above that level, it should be noted that lead contamination at concentrations exceeding the NYSDEC cleanup objective for Residential Use, which is 400 ppm, remains in the on-site soils. The highest levels remaining are found against the building foundation and concrete storage pad. Figure 4 depicts the locations and analytical results of the post excavation sampling performed by the EPA. After reviewing the July 22, 1999 *Delineation of Lead Contamination by X-Ray* Fluorescence letter report prepared by Roy F. Weston Inc., the NYS Department of Health (NYSDOH) concluded that the remaining lead levels should not pose any exposure problems as long as the site remains in its current intended use (commercial/industrial) and the areas remain undisturbed. Because the lead concentrations remain above Residential Use cleanup guidelines, the NYSDOH also recommended the placement of a formal Deed restriction on the property to prevent the use of the site for residential or day care purposes.

EPA determined that no further Superfund action by EPA was needed and that it would not seek to recover the costs incurred while performing the removal action.

Copies of the EPA reports documenting removal action, the delineation of lead contaminated soil, wipe sampling data and the March 9, 2000 NYSDOH letter indicating concurrence with the EPA removal action and recommended site restrictions are included in Appendix A.

1.2.4 Areas of Potential Environmental Concern

Based upon previous documentation, the following environmental concerns were identified in connection with the project site:

- Lead contamination remains on interior building surfaces
- Lead contamination remains in on-site soils at concentrations exceeding the NYSDEC Unrestricted Use Cleanup Objective
- There is the potential for soil contamination related to the past use of solvents at the site
- There is the potential for on-site groundwater contamination
- There is the potential for the release of contaminated surface water runoff from the site

2.0 METHODS OF INVESTIGATION

The scope of the Remedial Investigation program was generally consistent with that outlined in the NYSDEC-approved April 2008 Remedial Investigation/Alternatives Analysis Work Plan (Work Plan) and the Extra Work Authorizations submitted on April 1, 2008 and August 6, 2008. Modifications made to the Work Plan during the completion of the RI were approved by NYSDEC and the Town and are discussed within this report.

The purpose of the Remedial Investigation program was to determine the nature and extent of contamination associated with the areas of environmental concern discussed in Section 1.2.4. To accomplish these goals, the following tasks were completed during the field investigation:

- Completion of a title search in accordance with the requirements of the ERP.
- Completion of a boundary and topographic survey of the project site to establish the boundaries of the site and to locate on-site structures with respect to site boundaries.
 The surveying work also included locating the test pits, monitoring wells, surface sampling points and determining the monitoring well riser elevations.
- Collection and analysis of on-site surface soil samples to classify and characterize the surface soil.
- Completion of test pits to enable the classification, screening, sampling and chemical characterization of subsurface soil.
- Collection and analysis of sediment and surface water grab samples from the site's exterior including: a perimeter drainage ditch south of the building and low area northeast of the building.
- Collection of sediment samples from building trenches and the collection of a water sample from a trench inside the building;
- Collection of soil samples from beneath the concrete floor adjacent to the two trenches within the building and the trench located in the concrete pad north of the building.
- Installation, development and sampling of groundwater monitoring wells to enable the determination of groundwater flow direction and gradient, as well as the collection and chemical analysis of groundwater samples.
- Evaluation of the resulting data and preparation of a report to:
 - Summarize and document the activities performed during the RI
 - Describe the physical characteristics of the project site
 - Describe the nature, magnitude and extent of contamination
 - Compare the analytical data to applicable regulatory levels
 - Assess the implications of the conditions encountered
 - Provide recommendations relative to future work requirements and remedial action objectives

The following section describes the field tasks in detail.

2.1 Field Investigation

The following subsections describe the scope of field activities associated with the Remedial Investigation program. This scope reflects minor deviations and/or additions from the initial scope, as some minor modifications were necessary to account for information obtained during the field investigation or were performed at the request of the NYSDEC. The methods employed during the execution of the field tasks were detailed in the Field Sampling Plan (FSP), while the procedures implemented to ensure the quality of the resulting field and laboratory data were in accordance with the Quality Assurance/Quality Control (QA/QC) Plan. Table 1 summarizes the number of samples collected during the investigative tasks, including QA/QC samples, and the corresponding analytical methods. Figures 5 through 7 show the sampling locations.

2.1.1 Site Survey and Title Search

TVGA performed a boundary and topographic survey of the project site to establish the boundaries of the project site and to locate the on-site structure with respect to site boundaries. The boundary and topographic survey map is included as Figure 2. Additionally, the surveying work also included locating the test pits; monitoring wells; surface soil, sediment and surface water sampling points; and determining the monitoring well riser elevations. Reported elevations of the monitoring wells were based on the NAVD 88 datum of 630.34 feet, obtained from a benchmark that consisted of the north bonnet bolt of the fire hydrant located at the southwest corner of IDA Park Drive and Enterprise Drive.

Additionally, a title search was performed in accordance with the requirements of the ERP.

2.1.2 Surface Soil Sampling

Nine surface soil samples (SS-1 through SS-9) were collected on April 10, 2008 to characterize areas of concern and to represent site conditions in the surface soil. All nine samples were analyzed for lead and pH. The surface soil samples were collected from zero to two inches below the vegetative layer in accordance with Section 9.2 of the FSP.

An additional surface soil sample (SS-10-D9"12") was collected on September 30, 2008 and analyzed for lead. This sample was collected to verify the results of the post excavation sample CC3 (collected from 9 to 12 inches below the ground surface) collected following the 1999 EPA removal action using in-situ field screening methods. CC3 revealed a lead concentration of 1,180 ppm, which is above the Commercial Use SCO. SS-10 was collected from 9 to 12 inches below the ground surface at the same location and depth CC3 was obtained.

Table 1 identifies the analysis performed on each of the surface soil samples collected during the RI and the locations are shown on Figure 6. Figure 4 depicts the locations and analytical results of the post excavation sampling performed by the EPA.

2.1.3 Test Pit Excavations

Fourteen test pits were excavated on April 16, 2008 in accordance with Section 4.0 of the FSP. The test pit locations are shown on Figure 7. The purposes of the test pits were to characterize the near-surface geology across the project site; screen subsurface soil for contamination and collect subsurface soil samples for chemical analysis.

The Town of Lockport Highway Department provided a backhoe and operator for the excavation of the test pits, while TVGA personnel provided field oversight. Excavation occurred in one- to two-foot increments until competent bedrock was encountered. Excavated material was staged directly adjacent to the test pit. Visual characterization was performed for all test pits and the soil was screened for total organic vapors (TOVs) using a photoionization detector (PID). Following characterization and sample collection, the excavated soil/fill was returned to the test pit from which it originated. Logs that detail the observations made during the test pit activities are included in Appendix B.

A total of four subsurface soil samples were collected from the test pits for chemical analysis. Because elevated TOV measurements and/or visual/olfactory evidence of contamination was not encountered in any of the test pits, the samples were collected from each of the soil/fill layers (as described in Section 3.3) in order to characterize subsurface conditions at the project site. The subsurface soil samples were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) appearing on the Target Compound List (TCL), RCRA metals and pH. Additionally, samples collected from TP-3 and TP-8 were also analyzed for pesticides and polychlorinated biphenyls (PCBs) appearing on the TCL. All analyses were completed using NYSDEC Analytical Services Protocol (ASP) Method 2000.

2.1.4 Test Borings and Monitoring Well Installation

Three test borings were drilled on April 17, 2008 to characterize the subsurface soil and facilitate the installation of groundwater monitoring wells. Groundwater monitoring wells were installed in each of the test borings to determine the groundwater flow direction within the upper-most water-bearing zone, as well as characterize the groundwater quality at the project site. The locations of the test borings / monitoring wells are shown on Figure 7.

The drilling, split-spoon sampling, soil classification and monitoring well installation procedures were completed in accordance with Section 5.0 of the FSP. The test borings were advanced though the soil/fill to refusal using hollow-stem augers. As a result of the occurrence of competent bedrock at depths less than six feet and the lack of significant saturation in the overburden, a roller bit was utilized to advance each boring an additional

one to one and a half feet into the bedrock. Advancement into rock was performed to ensure that a sufficient surface seal could be achieved as well as to serve as a collection point for the groundwater encountered at the overburden/bedrock interface. The depths of the monitoring wells ranged from 6 to 7.5 feet below grade and were screened in the upper-most water-bearing zone within the overburden.

Retrieved soil samples from each test boring were screened for TOVs using a PID. Elevated TOV readings were not detected during field screening. The TOV values and soil descriptions are recorded on Test Boring Logs. These logs and the respective Monitoring Well Completion Reports are included in Appendix B.

2.1.5 Groundwater Monitoring Well Development and Sampling

Prior to the initiation of well development or sampling, groundwater levels were measured to determine the groundwater flow direction and gradient using an electronic water level indicator. Monitoring well development consisted of the evacuation of a minimum of three well volumes or until the well was dry from each of the wells using a peristaltic pump with dedicated tubing. Groundwater sampling was performed as soon as development had been completed and the wells had recovered sufficiently to sample. The groundwater samples were collected from each of the wells using a dedicated bailer and were poured into the pre-cleaned bottles provided by the laboratory. Additionally, due to insufficient water volume caused by a very slow recharge rate, a peristaltic pump was utilized to collect SVOCs and pesticides samples from MW-2 and SVOCs from MW-3. Well Development and Sampling Logs are included in Appendix B.

The three monitoring wells were purged and sampled on April 30, 2008 to obtain representative groundwater samples in accordance with Section 9.5 of the FSP. The groundwater samples were submitted for TCL VOCs, SVOCs, pesticides, PCBs and RCRA metals. However, due to insufficient water volume caused by a very slow recharge rate PCBs were not analyzed in the samples collected from MW-2 and MW-3 and pesticides were not analyzed in the sample collected from MW-3.

2.1.6 Sediment Sampling

Five sediment samples were collected from the project site to determine potential impacts from historical site operations. These samples were collected from the perimeter ditch along Enterprise Drive, a small ditch located to the north of the building, a trench located in the concrete pad north of the building (Trench 1) and trenches in the northwest and southwest building interior (Trenches 2 and 3, respectively). Each of these samples was analyzed for pH, TCL SVOCs, pesticides and PCBs and RCRA metals. The samples collected from Trenches 1 through 3 were also analyzed for TCL VOCs. Due to the elevated lead concentrations detected in the samples collected from Trenches 2 and 3, these two samples were also analyzed for TCLP lead to determine if the sediment is considered hazardous waste. The locations of the samples are depicted on Figure 6.

2.1.7 Surface Water Sampling

Four surface water grab samples were collected from the project site to evaluate potential impacts from historical site operations. These samples were collected from the perimeter ditch along Enterprise Drive, a small ditch located to the north of the building, Trench 1 and a sump connected to the southwest portion of Trench 3. Each of these samples was analyzed for field pH, TCL VOCs, SVOCs, pesticides and PCBs and RCRA metals. The locations of the samples are depicted on Figure 5.

2.1.8 Sub-Slab Soil Sampling

One sub-slab soil sample was collected from beneath the concrete pad north of the building and three sub-slab soil samples were collected from beneath the concrete floor of the building, including one adjacent to Trench 2 and two adjacent to Trench 3 on August 19, 2008. The samples were collected by removing an approximately 3-inch diameter core of the overlying concrete using a concrete coring drill followed by removing the underlying sub-base stone with a bucket auger. The concrete and sub-base stone were approximately four and six inches thick, respectively. The underlying soil was then collected with the bucket auger and was homogenized in a decontaminated stainless steel bowl and placed in a laboratory supplied sampling container. The soil collected was consistent with the native material described in Section 3.3.3. Each of these samples was analyzed for total lead. The locations of the samples are depicted on Figure 6.

2.2 Sample Analysis/Validation

2.2.1 Laboratory Analysis

All chemical analyses were performed by ChemTech, which is accredited under the New York State Environmental Laboratory Approval Program (ELAP) Contract Laboratory Program (CLP). All samples were analyzed using the applicable methods prescribed by the NYSDEC Analytical Services Protocol (ASP), June 2000. Category B deliverables were generated for these samples. The target analytes and corresponding analytical methods used for the project are identified and summarized in Table 1.

2.2.2 Quality Assurance/Quality Control Samples

In addition to field samples, Quality Assurance/Quality Control Samples were collected to evaluate the effectiveness of the QA/QC procedures implemented during the field and laboratory activities associated with the project. These QA/QC samples were collected and analyzed in accordance with the April 2008 QA/QC Plan developed for the project site. As reflected by Table 1, QA/QC samples included matrix spike (MS), matrix spike duplicate (MSD) and matrix duplicate (MD) samples, trip blanks, blind field duplicates and rinseate (i.e., equipment) blanks.

2.2.3 Data Validation

A subcontractor to TVGA, Data Validation Services (DVS), performed the validation of the laboratory data in accordance with the NYSDEC Guidance for the Development of Data Usability Summary Reports (DUSRs). The data packages were first reviewed for completeness and compliance relative to the criteria specified in the aforementioned NYSDEC document. DVS then conducted a detailed comparison of the reported data with the raw data submitted as part of the supporting documentation package, and applied protocol-defined procedures for the identification and quantitation of the individual analytes to determine the validity of the data. The DUSRs include a narrative summary discussing all quality issues and their impact on the reported results and presents copies of laboratory case narratives. The DUSR is included in Appendix C.

The evaluation of the analytical results for samples collected from the project site indicate that the samples were processed in general compliance with applicable protocols, and the majority of results are usable as reported, or usable with minor edits or qualification as estimated or edits to non-detection. However, because the matrix spikes of SW-2 showed little or no recovery for 4-chloroaniline, 3-nitroaniline or 3,3-dichlorobenzidine, the results for these parameters in SW-2 were rejected by the independent validator. These parameters were not detected in any sample collected from the project site; therefore, the rejection of these parameters in this sample is not viewed as a significant concern. The remaining samples generally showed good accuracy and precision.

3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

3.1 <u>Site Structure</u>

The project site includes an approximately 14,000-square-foot building. The building consists of a slab-on-grade steel-framed and steel-sided structure. With the exception of the northwestern portions of the building damaged by the 1995 fire, which has left this portion of the building interior exposed to the environment, the building is in relatively good condition and could be repaired and reused for commercial and/or light manufacturing purposes.

3.2 Physical Setting

The project site is located in the Eastern Lake section of the Central Lowlands physiographic province. This province is characterized by a series of low relief plains separated by higher relief escarpments. Sheets of glacial till and lacustrine deposits consisting primarily of silt and clay cover the plains.

The topography of the project site is generally flat with a ditch surrounding the property on the north, east and south sides. Low areas that periodically retain surface water, based on observations of standing water and the type of vegetation present are located on the north side of the building. The site has an elevation of 627 feet above mean sea level (AMSL) based upon the topographic survey performed at the site.

The Soil Survey of Niagara County, New York identifies the soil underlying a majority of the project site as Odessa Silty Clay Loam (OdA). This soil is a deep, somewhat poorly drained, moderately fine textured soil that is formed in lacustrine deposits in which calcareous clay is dominant. The permeability of this soil is low. The Surficial Geologic Map of New York — Niagara Sheet (1988) indicates that the overburden material underlying the project site consists of a till moraine that is more variably sorted and more permeable than till. The Geologic Map of New York, Niagara Section, depicts the uppermost bedrock formation beneath the project site as the Upper Silurian Period dolostone and limestone associated with the Lockport Group, which is approximately 150 to 200 feet thick.

A Flood Insurance Rate Map of the area indicates that the project site is not within the boundaries of the 100-and/or 500-year floodplains.

The majority of the stormwater on the project site is conveyed either by overland flow towards perimeter drainage ditches along the property lines or infiltrates into the subsurface of the project site.

The New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetland Map and the U.S. Department of Interior Fish and Wildlife Service National Wetlands Inventory Map for the Lockport and Cambria, New York Quadrangles indicate

that no state or federally designated wetland areas are located on or adjoining the project site.

3.3 Geology

The results of the remedial investigation indicate that soil/fill overlies the native soil across the entire site. The overburden stratigraphy can be divided into three significant units, which are described in descending order.

- Soil/Fill Material
- Reworked Native Material
- Native Material

3.3.1 Soil/Fill Material

A thin layer of soil/fill material that ranges in thickness from less than one inch to 2 feet was typically present as the uppermost overburden layer throughout the project site. The soil/fill material primarily consists of two types of material that include topsoil and gravel. The topsoil, which ranged in thickness from less than one inch to a foot, generally consisted of dark brown clayey silt with varying amounts of organic material and was observed generally in high grass areas located throughout the project site. Additionally, plastic pieces and pieces of metal siding were encountered within the topsoil layer in TP-3. In areas not overlain by topsoil, the uppermost soil/fill material consisted of a thin layer of gray gravel. This material was located in low areas surrounding the concrete pad and near the driveway area along IDA Park Drive.

3.3.2 Reworked Native Material

A layer of reworked native material was encountered immediately below the soil/fill material in more than half of the test pits. It was determined that this material was native material based on comparisons to subsurface soil encountered at greater depths and was determined to be reworked based on chaotic layering and the presence of anthropogenic materials (viz., concrete block, gravel, wood, metal, broken PVC pipes and floor mats). This material ranges in thickness from 0.2 to 1 foot and primarily consists of the native soils described in the following section, which were encountered during the subsurface investigation.

3.3.3 Native Material

Native soil underlies the reworked native material or soil/fill material and consists of a red to brown and sometimes gray silty clay with varying amounts of sand and/or gravel. The native material was found across the project site and was encountered at the majority of subsurface sampling locations.

3.4 <u>Hydrogeology</u>

Hydrogeologic conditions across the project site were investigated through the installation of three monitoring wells (MW-1 through MW-3). The Monitoring Well Construction Reports, Development Logs, and Sampling Logs are included in Appendix B. Each of the wells was screened in the upper-most water bearing zone in the overburden soil.

Generally, the groundwater was present in the native soils at depths 1 to 2 feet below the existing ground surface. Static water levels in the wells were measured on April 30, 2008. Table 2 summarizes the groundwater elevation measurements. These measurements and resulting groundwater contours are shown on Figure 5. The groundwater elevation data indicates that the groundwater flow direction is generally to the southwest.

4.0 NATURE AND EXTENT OF CONTAMINATION

Surface soil, subsurface soil, groundwater, surface water and sediment samples were collected for chemical analysis to determine the magnitude and extent of potential contamination occurring in these media. A summary of the samples collected from these media, including the number and type of QA/QC samples and the corresponding analytical methods are presented in Table 1.

The following sections summarize and discuss the analytical results generated during the RI. For discussion purposes, this data is compared with the Standards Criteria and Guidance values (SCGs) applicable to each medium sampled, and include:

- Soil/Fill: NYSDEC's December 2006 6NYCRR Part 375 Residential Use and Commercial Use Soil Cleanup Objectives (SCOs) (Part 375 - Subpart 6.8)
- Groundwater: NYSDEC's June 1998 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations in the Technical and Operational Guidance Series (TOGS) 1.1.1
- Soil/Fill analyzed by TCLP: 40 CFR Part 261.24: Maximum Contaminant Levels for Toxicity Characteristic

A series of summary tables (Tables 3 through 8) comparing the data to the applicable SCGs has been integrated into the following discussions. Table 9 includes the list of qualifiers used in Tables 3 through 8. The analytical laboratory reports are included in Attachment A.

4.1 Surface Soil

Ten surface soil samples were collected from areas of concern as well as areas representative of site conditions. With the exception of SS-10, the samples consisted of the topsoil described in Section 3.3.1. The sample collected at SS-10 consisted of the native material identified in Section 3.3.3. Surface soil samples SS-1 through SS-9 were analyzed for pH and lead and SS-10 was analyzed for lead only. The analytical results are summarized in Table 3 and the locations of the samples are shown on Figure 6.

Lead was detected in the surface soil samples at concentrations well below the Residential Use SCOs. The slightly elevated lead concentrations in several of these samples is likely related to historical operations involving lead-acid battery manufacturing and releases caused by a combination of the 1995 fire and poor housekeeping practices.

The pH for each of the surface soil samples was within the normal range for the soil type located on the project site as listed in the *Soil Survey of Niagara County*, *New York*.

The results of the 221 post excavation samples collected by the EPA following the 1999 removal action were also reviewed. This review revealed that lead was detected in the surface soil at concentrations exceeding the Residential Use SCO but below the Commercial Use SCO. Verification sample SS-10, collected from 9 to 12 inches below the ground surface at the same location and depth as the EPA's post excavation sample

CC3, revealed a lead concentration well below the Residential Use SCO. The locations and analytical results of the post excavation sampling performed by the EPA are depicted on Figure 4.

4.2 Subsurface Soil

Four subsurface soil samples were collected from test pits from across the project site to characterize the subsurface soil. Each subsurface soil sample was analyzed for TCL VOCs, SVOCs and RCRA metals. Additionally, two samples (TP-3 and TP-8) were analyzed for PCBs and pesticides. The analytical results for the subsurface soil samples are summarized in Table 4 and the locations of subsurface investigation points are depicted on Figure 7.

Although a few VOCs and SVOCs were detected, which consisted primarily of tentatively identified compounds (TICs), they were detected at concentrations well below Residential Use SCOs. The concentrations of metals were below the applicable SCGs. Lastly, no PCBs or pesticides were detected in the subsurface soil samples.

4.3 <u>Sediment Sampling</u>

Five sediment samples were collected from the locations listed in Section 2.1.6 and analyzed for pH, TCL SVOCs, pesticides, PCBs and RCRA metals. Additionally, SED-2, SED-5 and SED-4 collected from Trenches 1 through 3 respectively, were analyzed for TCL VOCs in addition to these parameters. Because elevated total lead concentrations were detected in SED-4 and SED-5 these samples were also selected for analysis of TCLP lead. The analytical results for the sediment samples are summarized in Table 5 and the locations are depicted on Figure 6.

No pesticides or PCBs were detected in the sediment samples. VOCs were detected in SED-2 and SED-5, however; the concentrations were well below the Residential Use SCOs. Each of the sediment samples contained one or more SVOCs, which consisted primarily of TICs, however; the detected concentrations were well below Residential Use SCOs.

The concentrations of metals in SED-1 and SED-3, collected from the exterior ditches, were well below the Residential Use SCOs. The concentrations of arsenic, barium and lead in SED-2, SED-4 and SED-5 exceeded Commercial Use SCOs, while the concentrations of cadmium, chromium and mercury in these three samples exceeded Residential Use SCOs. The elevated metals concentrations, specifically lead, are likely related to historical operations involving lead-acid battery manufacturing and releases caused by a combination of the 1995 fire and poor housekeeping practices. The results of the TCLP analysis revealed that SED-5 contained a hazardous concentration of lead.

4.4 Surface Water

Four surface water samples were collected from the locations listed in Section 2.1.7 and analyzed for field pH, TCL VOCs, SVOCs, pesticides, PCBs and RCRA metals. The analytical results for the surface water samples are summarized in Table 6, while the locations of these samples are depicted on Figure 6.

VOCs, pesticides and PCBs were not detected in any of the surface water samples. SVOCs consisting of TICs were identified in SW-1, SW-2 and SW-3 at concentrations below applicable SCGs. With the exception of lead in SW-4, which was detected at a concentration more than six times the applicable SCG, the concentrations of metals in the surface water samples were well below the applicable SCGs.

4.5 Groundwater

Groundwater samples were collected from the three newly installed monitoring wells. The analytical results for the groundwater samples are summarized in Table 7 and the locations of monitoring wells are depicted on Figure 7.

No pesticides or PCBs were detected in the groundwater samples. One or more VOCs were detected in each of the groundwater samples; however, only the concentrations of benzene and toluene detected in MW-2 minimally exceeded the applicable SCGs. The only two SVOCs detected were 3+4-methylphenol, detected in MW-1 at a concentration slightly above the applicable SCG, and bis(2-ethylhexyl)phthalate, detected in MW-3 at a concentration below the applicable SCG.

The concentrations of metals were well below the applicable SCGs.

4.6 Sub-Slab Soil

Four sub-slab soil samples were collected from the locations listed in Section 2.1.8 and analyzed for total lead. The analytical results for the sub-slab soil samples are summarized in Table 8, while the locations of these samples are depicted on Figure 6.

As reflected in the summary table the concentrations of lead detected the sub-slab soil samples were well below the Residential Use SCO.

5.0 CONTAMINATION ASSESSMENT

5.1 Contaminant Fate and Transport

The probable fate and transport of contaminants detected on the project site is a function of the properties of the individual contaminants and available pathways for the contaminants to migrate. The project site is currently an unutilized commercial property, and planned future use of the project site is for commercial and/or light manufacturing purposes. The degree to which, as well as the route by which, contaminants migrate is dependent on the physical characteristics of the site and the type and distribution of contaminants. The following sections discuss the probable fate and transport of contaminants in the different types of media at the Former Electruk Battery site.

5.1.1 Surface Soil

Contaminants of concern detected in the surface soil consist of lead. Lead has a low solubility and therefore is not expected to significantly affect groundwater quality or migrate substantially in to the subsurface soil. This is supported by the absence or low concentrations of lead in the groundwater samples and in the subsurface soil samples. Additionally, based on the low concentrations of lead detected in the surface water and sediment samples collected from the perimeter ditches, lead is not migrating off-site via surface water flow.

5.1.2 Subsurface Soil

The concentrations of the detected parameters in the subsurface soil samples were well below the Residential Use SCO; therefore, no contaminants of concern are present in the subsurface soil.

5.1.3 Sediments

Contaminants of concern detected in the sediment include metals within Trenches 1 through 3. Trenches 2 and 3 are located inside the building (i.e. they are not exposed to the environment) and are isolated (i.e. no inlet or outlet pipes were observed). Therefore, the metals within them are not anticipated to migrate off-site. Trench 1 is also concrete-lined and the sediment within is situated almost a foot below the top of the concrete trench and is covered with cattails. Therefore, sediment within this trench is not expected to migrate substantially from its current location. This conclusion is supported by the low concentration of lead in the surface water samples collected from this trench as well as surrounding ditches.

5.1.4 Surface Water

Contaminants identified in the surface water are limited to lead within Trench 3. This trench appears to be an isolated structure because no inlet/outlet pipes were observed

within this trench and the presence of the roof inhibits precipitation from entering the trench, which could result in overflows. Therefore, migration of lead from this trench is not anticipated.

5.1.5 Groundwater

No contaminants of concern were identified in the groundwater at the project site. Although VOCs and SVOCs were detected in a few samples, the concentrations only slightly exceed the applicable SCGs. The lack of local reliance on groundwater as a source of potable water minimizes the potential for direct human exposure to groundwater contaminants. Businesses surrounding the project site and within the Industrial Park are serviced by the municipal water supply system that relies upon water withdrawn from the Niagara River from an intake more than 10 miles southwest of the project site.

5.1.6 Sub-Slab Soil

The concentrations of lead in the sub-slab soil samples were well below the Residential Use SCO; therefore, no contaminants of concern are present in the sub-slab soil.

5.2 <u>Evaluation of Potential Receptors</u>

The project site is located in an area that contains commercial and industrial properties. The project site is currently an unutilized commercial property, and Polycom-Huntsman Inc., a plastics manufacturer, is located to the east of the project site immediately beyond IDA Park Drive. To the south, beyond Enterprise Drive, is vacant undeveloped land. Undeveloped land and commercial businesses lie to the north and west of the project site, respectively. Access to the project site is unrestricted. Access to the on-site building has been restricted but, due to the damage caused by the 1995 fire, entry into the building is possible.

Under current conditions, potential human receptors include persons working or trespassing on the project site; persons working in the area surrounding the project site; and persons involved in utility work on and adjacent to the project site. In addition, potential environmental receptors include wildlife living on and migrating through the project site (e.g., rodents, birds, etc.).

The planned future use of the project site is for commercial or light manufacturing use and remediation will be likely be required prior to redevelopment. During remediation and redevelopment, potential human receptors include site workers as well as persons living in and traveling through the area surrounding the project site. Potential environmental receptors include wildlife living on and migrating through the project site.

No human receptors and/or environmental have been identified in connection with the post-redevelopment period, assuming that the contaminated media has been removed or covered.

5.3 Potential Exposure Pathways

5.3.1 Surface Soil

Under the current use scenario, persons living and working in the vicinity of the project site and/or persons trespassing on the site could be exposed to lead in the surface soil via inhalation of airborne particles, incidental ingestion of, or dermal contact with the contaminated media.

Construction workers, site visitors and persons living, working and traveling through the area near the project site could be exposed to lead in the surface soil during excavation in connection with remediation and/or site redevelopment. Potential exposure routes for these receptors include inhalation of contaminated dust, and incidental ingestion of, and/or dermal contact with the contaminated soil. However, development of a soil management plan, the use of appropriate personal protective equipment and dust suppression techniques would limit the risk of exposure during remediation and/or construction activities.

No complete exposure pathways to the contaminated surface soil have been identified in connection with the post-redevelopment period, assuming that the contaminated surface soil has been removed.

5.3.2 Sediments

Under the current use scenario, site workers and/or persons trespassing in the building could be exposed to metals contained within sediments located within Trenches 1 through 3 via inhalation of airborne particulates, incidental ingestion of, or dermal contact with the contaminated sediments.

Construction workers, site visitors and persons, working and traveling through the project site could be exposed to the metals within airborne particles during remedial activities performed in connection with site redevelopment. Potential exposure routes for these receptors include inhalation of contaminated dust, and the incidental ingestion of, and/or dermal contact with the contaminated sediments. However, the use of appropriate personal protective equipment and dust suppression techniques would limit the risk of exposure during site redevelopment.

No complete exposure pathways for on-site sediment have been identified in connection with the post redevelopment period, assuming that the sediment within the trenches is removed.

5.3.3 Surface Water

Under the current use scenario, site workers and persons trespassing on the project site could be exposed to lead within the surface water contained within Trench 3 via incidental ingestion of, or dermal contact with the contaminated surface water.

Construction workers, site visitors and persons, working and traveling through the project site could be exposed to the lead in the surface water during trench cleaning/removal activities performed in connection with remediation and/or site redevelopment. Potential exposure routes for these receptors include the incidental ingestion of, and/or dermal contact with, the contaminated surface water. However, the use of appropriate personal protective equipment and suppression techniques would limit the risk of exposure during site redevelopment.

No complete exposure pathways for the contaminated surface water have been identified in connection with the post redevelopment period, assuming that the water in the trench has been removed.

5.3.4 Groundwater

The surrounding area is serviced by a municipal water supply system that relies upon water withdrawn from the Niagara River. Considering the absence of contaminants of concern in the groundwater and the lack of reliance on groundwater as a potable water supply source in the immediate vicinity and downgradient of the project site, exposure to on-site contamination via groundwater is not a concern.

6.0 IDENTIFICATION AND DEVELOPMENT OF ALTERNATIVES

6.1 Remedial Action Objectives

The following sections outline the Remedial Action Objectives (RAOs) identified for each of the contaminated media encountered on the project site. These RAOs are based upon the findings of the RI and the anticipated future use of the project site for commercial or light manufacturing use.

6.1.1 Surface Soil

Contaminants of concern detected in the surface soil consist of lead. The RAO for this medium is to prevent exposure of human and environmental receptors to lead-contaminated surface soil via dermal contact, incidental ingestion or inhalation of particulates, and to prevent lead in the surface soil from impacting surface water runoff quality.

6.1.2 Sediment

Contaminants of concern detected in the sediment consist of metals in Trenches 1 through 3. The RAO for this medium is to prevent exposure of human and environmental receptors to these contaminants via dermal contact, incidental ingestion or inhalation of particulates, and to prevent metals in the sediment within Trench 1 from impacting surface water runoff quality.

6.1.3 Surface Water

Contaminants of concern detected in the surface water include lead in Trench 3. The RAO for this medium is to prevent the exposure of humans and environmental receptors to contaminated surface water via dermal contact with or incidental of ingestion contaminated surface water.

6.2 <u>General Response Actions</u>

General response actions for each of the affected media at the project site have been identified and are described in the following subsections. Although these general response actions include no action as a remedial option, the no action response does not address the RAOs identified in the preceding section and is included for comparison purposes only. The general response actions are summarized in Table 10.

6.2.1 Surface Soil

General response actions available to satisfy the RAOs identified for surface soil include:

- No action
- Institutional Controls
- Excavation and off-site disposal of impacted surface soil

6.2.2 Sediments

General response actions available to address the RAOs for sediments include:

- No action
- Removal and off-site disposal of impacted sediments

6.2.3 Surface Water

General response actions available to address the RAOs for surface water include:

- No action
- Removal and off-site disposal of impacted surface water

6.3 Remediation Areas and Volumes

Remediation areas and volumes have been estimated based on the results of the RI and the post excavation sampling performed by the EPA during the 1999 removal action. The locations and areal extents of the remediation areas are presented in Figure 8.

6.3.1 Surface Soil Volume

Three areas of lead impacted surface soil exist at the project site including an approximately 4,185-square-foot area that adjoins the concrete pad to the north, an approximately 2,865-square-foot area that adjoins the concrete pad to the east and an approximately 3,200-square-foot area located adjacent to the southwest corner of the building. The depth of the impacted surface soil is assumed to be 18 inches based on the analytical results obtained from 1999 EPA removal action post excavation sampling. With this thickness over a 10,250-square-feet area, the approximate volume of the impacted surface soil is 15,375 cubic feet, or 570 cubic yards. Assuming that one cubic yard weighs 1.6 tons, the weight of the contaminated soil is 912 tons.

6.3.2 Sediment Volume

Three trenches (Trenches 1 through 3) contain sediments with elevated concentrations of metals. Trench 1 has an approximate surface area of 20 square feet with an average of 8.5 inches of sediment, which equates to 14 cubic feet of material. Trench 2 has an approximate surface area of 30 square feet with an average of 1 inch of sediment, which equates to 2.5 cubic feet of material. Trench 3 has an approximate surface area of 115 square feet with an average of 1 inch of sediment, which equates to 9.5 cubic feet of

material. A total of 26 cubic feet, or approximately one cubic yard, of contaminated sediment is contained within these three trenches.

6.3.3 Surface Water Volume

Trenches 1 and 3 appeared to be almost completely filled with water and the volumes of these trenches are approximately 13.75 and 55 cubic feet, respectively, which equates to approximately 515 gallons of water. Surface water within Trench 2 was limited to the 1 cubic foot sump connected to the west end of the trench, which equates to approximately 8 gallons of water. Therefore, the total volume of water in the trenches is approximately 523 gallons.

6.4 <u>Development of Alternatives</u>

The general response actions identified in Section 6.2 have been assembled into a series of site-wide remedial action alternatives. These alternatives are summarized in Table 10 and outlined in the following subsections.

6.4.1 Alternative A - No Action

This alternative represents the "No Action Alternative". Under this alternative, the site would remain in its current state and no environmental monitoring, remedial activities, institutional or additional access controls would be implemented. This alternative does not satisfy the RAOs for the current use scenario, nor is it supportive of the future use of the project site for commercial or light manufacturing uses. It has, however, been retained for detailed analysis to provide a point of comparison for more intensive alternatives.

6.4.2 Alternative B – Removal of Contaminated Trench Sediment/Water

This alternative includes the actual remedial activities performed during the Interim Remedial Measures (IRM) program that involved the removal and off-site disposal of contaminated water and sediments from the two interior and one exterior manmade drainage trenches followed by power washing and backfilling the trenches. The details of the IRM program, which are further detailed in Section 8, are:

- Removal and disposal of surface water from all three trenches
- Removal of sediments in Trenches 1 through 3
- Backfilling the trenches with flowable fill

In addition to the IRM activities performed at the project site, institutional controls will be required to achieve the RAOs and allow for the future use of the site for commercial or light manufacturing purposes. The institutional controls include the following:

Placement of an Environmental Easement on the property

- Development of a Site Management Plan
- Annual certification of the Environmental Easement
- 6.4.3 Alternative C Removal of Contaminated Surface Soil and Trench Sediment/Water

This alternative includes the removal of all contaminated materials from the project site. The details of the program are:

- Perform a pre-design surface soil investigation to confirm the results of the 1999
 EPA removal action post excavation sampling results
- Excavation and off-site disposal of contaminated surface soil exceeding the Residential Use SCO for lead of 400 ppm
- Removal of surface water all three trenches
- Removal of sediments in Trenches 1 through 3

7.0 DETAILED ANALYSIS OF ALTERNATIVES

7.1 General Discussion

The remedial alternatives outlined in Section 6 were individually and comparatively evaluated with respect to the following six criteria as defined in 6 NYCRR 375:

- Overall Protection of Human Health and the Environment
- Compliance with Standards, Criteria, and Guidance
- Short-Term Effectiveness
- Long-Term Effectiveness
- Reduction of Toxicity, Mobility and Volume
- Feasibility

These criteria are discussed in greater detail below. A seventh criterion, community acceptance, will be evaluated by the NYSDEC at the conclusion of the public comment period.

7.1.1 Overall Protection of Human Health and the Environment

This threshold assessment addresses whether a remedy provides adequate protection, and describes how risks posed through each pathway are eliminated, reduced, or controlled. This evaluation allows for consideration of whether the alternative poses any unacceptable short-term or cross-media impacts.

7.1.2 Compliance with Standards, Criteria, and Guidance

A site's remedial program must be designed so as to conform to standards and criteria that are generally applicable, consistently applied, and officially promulgated, and are either directly applicable, or are not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with [6 NYCRR 375-1.10(c)(1)(i)].

7.1.3 Short-Term Effectiveness

The effectiveness of alternatives in protecting human health and the environment during construction and implementation of the remedial action is evaluated under this criterion. Short-term effectiveness is assessed in terms of protection of the community, protection of workers, environmental impacts, and time until protection is achieved.

7.1.4 Long-Term Effectiveness

The evaluation of this criterion focuses on the long-term protection of human health and the environment at the completion of the remedial action. Effectiveness is assessed with respect to the magnitude of residual risks; adequacy of controls, if any, in managing treatment residuals or untreated wastes that remain at the site; reliability of controls against possible failure; and potential to provide continued protection.

7.1.5 Reduction of Toxicity, Mobility and Volume

This evaluation criterion addresses the preference for selecting a remedial action alternative that permanently and significantly reduces the volume, toxicity, and/or mobility of the hazardous wastes and/or constituents. This preference is satisfied when the treatment is used to reduce the principal threats at a site through destruction of toxic contaminants, irreversible reduction in contaminant mobility, or reduction of total volume of contaminated media. The following is the hierarchy of remedial technologies ranked from most preferable to least preferable:

- Destruction
- Separation/treatment
- Solidification/chemical fixation
- Control and isolation

7.1.6 Feasibility

A feasible remedy is one that is appropriate for site conditions, is capable of being successfully carried out with available technology, and considers, at a minimum, implementability and cost-effectiveness.

7.2 <u>Individual Analysis of Alternatives</u>

The evaluations of the six criteria discussed above for each of the remedial alternatives are presented in the following subsections and summarized in Table 13.

7.2.1 Alternative A - No Action

7.2.1.1 Overall Protection of Human Health and the Environment

The No Action Alternative does not satisfy the RAOs because of its inability to eliminate the potential for the exposure of the public and future construction and site occupants to on-site contaminants. Therefore, this alternative is not protective of human health with respect to the surrounding community because contamination would remain on-site and would not be effectively contained.

7.2.1.2 Compliance with Standards, Criteria, and Guidance

The surface soil, sediments and surface water containing elevated contaminant concentrations will remain on-site.

7.2.1.3 Short-Term Effectiveness

Under this alternative, the project site would remain in its current state.

7.2.1.4 Long-Term Effectiveness

In the long-term, the Town's proposed re-use of the project site as a commercial or light manufacturing site is not possible without remediation. Specifically, the contaminated sediments and water within the trenches will need to be removed prior to demolition or redevelopment of the exiting building.

7.2.1.5 Reduction of Toxicity, Mobility and Volume

This alternative would not reduce the toxicity, mobility or volume of contamination.

7.2.1.6 Feasibility

As this alternative requires no action at the project site, this alternative is considered to be implementable. There is no cost associated with this alternative. However, this alternative does not effectively protect human health and the environment.

7.2.2 Alternative B – Removal of Contaminated Trench Sediment/Water

7.2.2.1 Overall Protection of Human Health and the Environment

While this alternative would achieve the RAOs for the sediment and surface water, it does not achieve the RAOs for the contaminated surface soil. Although short-term exposure risks to construction workers and the surrounding community could result from invasive activities at the site, these risks would be effectively minimized through the use of a site management plan and standard construction and health and safety precautions.

7.2.2.2 Compliance with Standards, Criteria, and Guidance

The contaminated sediments and surface water would be removed from the site and properly disposed. However, the contaminated surface soil, which was detected at concentrations that exceed the Residential Use SCOs, would remain on-site. Based on the site's intended future use for commercial or light manufacturing purposes, allowing the contaminated surface soil to remain on site will not significantly impact the site's intended future use.

7.2.2.3 Short-Term Effectiveness

Although short-term exposure risks to construction workers and the surrounding community could result from remediation activities at the site, these risks would be effectively minimized through the use of a site management plan and standard construction and health and safety precautions. This remedial action could be implemented in a relatively short time-frame, likely less than a month.

7.2.2.4 Long-Term Effectiveness

This alternative would address exposure to contaminants within the trenches in the long-term, as the contaminated material will be removed from the project site. Long-term operation, maintenance, and monitoring (OM&M) of the site would not be necessary. The potential for exposure to contaminated surface soil is not addressed by this alternative. In addition, exposure risks to construction workers and the surrounding community could result from future invasive activities at the site, but these risks would be effectively minimized through the use of a site management plan of standard construction and health and safety precautions.

7.2.2.5 Reduction of Toxicity, Mobility and Volume

This remedial action alternative would effectively reduce the toxicity, mobility and volume of the contaminants within the trenches through removal and proper off-site disposal. However, the contaminated surface soil, which was detected at concentrations that exceed the Residential Use SCO, would remain on-site. It should be noted that, based on the concentrations of lead in the subsurface soil, surface water samples, and groundwater, lead is not migrating from the surface soil.

7.2.2.6 Feasibility

This remedial action alternative is appropriate for current and future site conditions and uses. Materials and equipment for completing remediation as described are readily available. As shown in Table 11, the estimated cost of this alternative is approximately \$30,200, which makes this alternative very cost-effective.

7.2.3 Alternative C – Removal of Contaminated Surface Soil and Trench Sediment/Water

7.2.3.1 Overall Protection of Human Health and the Environment

This alternative would achieve the RAOs for all contaminated media.

7.2.3.2 Compliance with Standards, Criteria, and Guidance

Contaminated materials would be removed from the site and properly disposed.

7.2.3.3 Short-Term Effectiveness

Although short-term exposure risks to construction workers and the surrounding community could result from remediation activities at the site, these risks would be effectively minimized through the use of standard construction and health and safety precautions. This remedial action could be implemented in a relatively short time-frame, likely less than a month.

7.2.3.4 Long-Term Effectiveness

This alternative would address exposure to site contaminants in the long-term, as the contaminated material will be removed from the project site. Long-term OM&M of the project site would not be necessary.

7.2.3.5 Reduction of Toxicity, Mobility and Volume

This remedial action alternative would effectively reduce the toxicity, mobility and volume of the contaminants through removal and proper off-site disposal.

7.2.3.6 Feasibility

This remedial action alternative is appropriate for current and future site conditions and uses. Materials and equipment for completing remediation as described are readily available. As shown in Table 12, the estimated cost of this alternative is approximately \$92,260, which makes this alternative cost-effective.

7.3 Comparative Analysis and Recommendation

A comparative evaluation of the remedial alternatives is presented in the form of a matrix, shown on Table 13, which includes ratings for each of the criteria discussed above. The comparison of the alternatives is based upon a qualitative system that utilizes relative ratings of *high*, *medium* and *low* to define each alternative's performance with respect to the aforementioned criteria. These ratings are then equated to a numerical scale to produce a relative numerical score for final comparison purposes. The ratings equate to the following conditions and numerical scores:

RATING	DESCRIPTION	NUMERICAL RATING
HIGH	SATISFIES CRITERIA TO A HIGH DEGREE	3
MEDIUM	SATISFIES CRITERIA TO A MODERATE DEGREE	2
LOW	MINIMALLY SATISFIES CRITERIA	1

The aggregate numerical score for each of the alternatives evaluated is shown near the bottom of the matrix. Higher relative scores represent a higher level of effectiveness with respect to the evaluation criteria.

As reflected by Table 13, Alternative B and C have been identified as effective Both alternatives would fully satisfy the remedial goals for the site's intended future use for light manufacturing or commercial purposes. Alternative B would render the site suitable for use as a commercial property while no restrictions would be placed on the future use of the site following the implementation of Alternative C. Alternative C received a slightly higher rating than Alternative B for protection of human health and the environment and long-term effectiveness because all contaminated media would be removed under Alternative C. Contaminated soil exceeding the Residential Use SCOs would remain on-site utilizing Alternative B. Because Alternative C does not confer any significant protections to human health and the environment when compared to Alternative B, Alternative C received a slightly lower feasibility rating as a result of the higher cost. Based upon the cost effectiveness, feasibility, intended future use of the site and the level of protection to human health and the environment, Alternative B is recommended for implementation. The Town of Lockport is in agreement with the selected alternative and recognizes that by selecting this alternative, future use restrictions and requirements would be applied to the site. A letter from the Town demonstrating this acceptance is included in Appendix E.

8.0 INTERIM REMEDIAL MEASURES

8.1 <u>Purpose and Approach</u>

In order to accelerate the remedial process and return the project site to active use as quickly as possible, an Interim Remedial Measures (IRM) program was implemented at the site. An IRM is a discrete set of activities to address both emergency and non-emergency site conditions that can be undertaken without extensive investigation and evaluation to prevent, mitigate, or remedy environmental damage or the consequences of environmental damage attributable to a site. Based on the results of the RI, the IRM at the project site would be considered a non-emergency action. Non-emergency IRMs are actions that can be undertaken at any time during the course of the site investigation or the remedy selection phase in response to environmental or public health threats identified at the site.

The scope of the IRM program was generally consistent with that outlined in the NYSDEC-approved December 1, 2008 IRM Work Plan. In accordance with NYSEC requirements, TVGA solicited bids from qualified contractors. The low bidder, Environmental Products and Services (EPS) of Vermont Inc. selected to complete the IRM activities. The IRM activities conducted at the project site were completed on January 20 and 21, 2009 and are summarized in the following subsections.

8.2 IRM Construction Observation

Remedial construction observation was provided by TVGA on behalf of the Town. TVGA provided a full time inspector who was responsible for daily observation of the IRM project. The inspector prepared Daily Inspection Reports that summarized the project progress and documented the contractor's work force and equipment, as well as specific activities that occurred on the project site. Additionally, representatives from the NYSDEC were present on site during the IRM activities to evaluate the progress of the project. Copies of the Daily Inspector's Reports and the photographs taken during the IRM activities are included in Appendix D.

8.3 <u>Description of the Work Areas</u>

The work area consists of two interior and one exterior manmade drainage trenches. Trench 1 is located in the concrete pad north of the building, while Trenches 2 and 3 are located in the northwest and southwest building interior, respectively. The locations of the Trenches are depicted on Figure 6.

Contaminants of concern detected in the sediment included arsenic, barium and lead in Trenches 1 through 3. The results of the TCLP analysis revealed that the sediment sample collected from Trench 2 contained a hazardous concentration of lead. Contaminants of concern identified in the surface water within the trenches were limited to lead within Trench 3.

8.4 IRM Activities Performed

8.4.1 Water and Sediment Removal

A vacuum truck was used to remove all water and sediment from Trenches 1 and 3. Based on the hazardous concentration of lead in the sediment in Trench 2, an electric drum vacuum (i.e. a wet/dry vacuum connected to a 55-gallon drum) was used to remove all water and sediment from this trench. Following the removal the water and sediment, the exposed surfaces within the trenches were cleaned utilizing high pressure power washing equipment. Upon completion, the rinsate were removed with the vacuum truck. All solids, water and rinsate were disposed of off-site. The locations and quantities of these materials are listed in Section 7.4.4 below.

8.4.2 Backfill with Flowable Fill

Upon completion of the cleaning activities, each of the trenches was backfilled with 100 pounds per square inch flowable fill to an elevation matching the surrounding concrete slabs.

8.4.3 Disposal

A total of 26 cubic feet, or approximately one cubic yard, of contaminated sediment and approximately 600 gallons of water were removed from Trenches 1 and 3. Approximately three cubic feet of hazardous sediment and five gallons of water were removed from Trench 2. Additionally, approximately 165 gallons of rinsate were generated from the power washing of the trenches.

The non-hazardous sediment and water from Trenches 1 and 3 contractor transported in the vacuum truck to the XXX facility in Syracuse, New York. The hazardous sediment and water from Trench 2 was transported via XXX to the Modern Landfill in Model City, New York. The manifests that identify the weight and location of final disposition of the contaminated sediment and water were maintained for the duration of the project and are included in Appendix D.

8.5 Project Costs

As shown in Appendix D, the total project costs for the IRM activities were \$8,000.

9.0 SUMMARY AND CONCLUSIONS

A RI/AA program was implemented at the Former Electruk Battery site on behalf of the Town of Lockport. The project site is located at 4922 IDA Park Drive in the Lockport Industrial Park in Lockport, New York. The project site is currently occupied by a single structure and has been vacant since 1996. The Town received State financial assistance to conduct this program under the Environmental Restoration, or Brownfield, component of Title 5 of the Clean Water/Clean Air Bond Act of 1996. The objective of this program was to characterize the site and determine the nature and extent of contamination in the surface soil, subsurface soil/fill, and groundwater. The resulting data was used to qualitatively evaluate potential risks to human health and the environment associated with current site conditions and potential future use scenarios. Based on these findings, remedial alternatives were identified, evaluated, and compared.

9.1 Site Conditions

The project site consists of approximately 1.4 acres located within the Town of Lockport. The project site was first developed as the Electruk Battery Enterprises site that manufactured lead acid batteries from 1990 to 1996. The facility was damaged by a sixalarm fire in January 1995, which caused a significant disruption to the business. As a result, Electruk Battery was not able to recover from the damages and was forced into Chapter 7 bankruptcy in October 1996.

The project site is currently occupied by an approximately 14,000-square-foot building. The remaining portions of the project site are comprised of an open field area consisting of weeds and brush and a concrete paved area.

The EPA completed a removal assessment in 1998 and confirmed the presence of hazardous materials on the property. The EPA subsequently commenced a Superfund removal action in June 1999 to address the contamination. The removal action included the identification, removal, and disposal of all hazardous wastes from the property, with the exception of residual lead concentrations on building interior surfaces. Additionally, the EPA did not pursue any investigation into potential on-site groundwater contamination or soil contamination caused by potential solvent releases.

Based upon previous documentation, the following environmental concerns were identified in connection with the project site:

- Lead contamination remains on interior building surfaces;
- Lead contamination remains in on-site soils at concentrations exceeding the NYSDEC Unrestricted Use Cleanup Objective;
- There is the potential for soil contamination related to the past use of solvents at the site;
- There is the potential for on-site groundwater contamination; and
- There is the potential for the release of contaminated surface water runoff from the site.

9.2 <u>Investigation Approach</u>

The Remedial Investigation was conducted in accordance with the NYSDEC-approved April 2008 Remedial Investigation/Alternatives Analysis Work Plan (Work Plan), and the Extra Work Authorizations submitted on April 1, 2008 August 6, 2008. This investigative work included the following activities:

- Site Survey
- Test Pit Excavations
- Surface Soil Sampling
- Test Boring Advancement
- Subsurface Soil Sampling
- Monitoring Well Installation
- Groundwater Elevation Monitoring
- Groundwater Sampling
- Surface Water Sampling
- Sediment Sampling
- Sub-Slab Soil Sampling
- Data Validation
- Data Evaluation

9.3 Site Structures

The project site includes an approximately 14,000-square-foot building. The building consists of a slab-on-grade steel framed and steel sided structure. With the exception of the portions of the building damaged by the 1995 fire the office portions on the eastern side of the building exposed to the environment the building is in relatively good condition and could be repaired and reused for commercial and/or light industrial purposes.

9.4 Physical Setting

The topography of the project site, as shown on Figure 1, is generally flat-lying and the project site has an elevation of approximately 627 feet above mean sea level. Immediately beyond IDA Park Drive, Polycom-Huntsman Inc., a plastics manufacturer, is located to the east of the project site. Enterprise Drive bounds the site to the south and vacant undeveloped land is located beyond this street. Undeveloped land and a commercial business lie to the north and west of the project site, respectively.

The results of the remedial investigation indicate that soil/fill overlies the native soil across the entire site. The overburden stratigraphy can be divided into three significant units, which are listed in descending order.

- Soil/Fill
- Reworked Native Material
- Native Material

Generally, groundwater was present in the native material. The depths to groundwater generally ranged from approximately 1 to 2 feet below the existing ground surface, and groundwater flows generally to the southwest.

9.5 Nature and Extent of Contamination

9.5.1 Surface Soil

Throughout the majority of the site, the surface soil at the project site does not contain contaminants at elevated concentrations. However, elevated concentrations of lead were detected in the three samples collected immediately north, east and west of the concrete pad and in one sample collected in the southwest corner of the site. The elevated lead in these samples is likely related to historical operations involving lead-acid battery manufacturing and releases caused by a combination of the 1995 fire and poor housekeeping practices.

9.5.2 Subsurface Soil

The concentrations of the detected parameters in the subsurface soil samples were well below the Residential Use SCOs, therefore; no contaminants of concern are present in the subsurface soil.

9.5.3 Sediments and Surface Water

Contaminants of concern in the sediments consisted of metals within Trenches 1 through 3. Contamination in the surface water was limited to lead in Trench 3. As with the surface soil the elevated metals and/or lead in these samples is likely related to historical operations involving lead-acid battery manufacturing and releases caused by a combination of the 1995 fire and poor housekeeping practices.

9.5.4 Groundwater

No contaminants of concern were identified in the groundwater samples collected from the project site.

9.5.5 Sub-Slab Soil

The concentrations of lead in the sub-slab soil samples were well below the Residential Use SCO, therefore; no contaminants of concern are present in the sub-slab soil.

9.6 <u>Contamination Assessment</u>

9.6.1 Potential Receptors

Under current (vacant) and planned future use (commercial/light manufacturing uses) conditions, potential human receptors for on-site contaminants include:

- Persons living and working in the area surrounding the project site;
- Persons trespassing on the site and entering on-site structures;
- Remediation and construction contractors working on the project site;
- Persons working on the project site (future use); and
- Persons involved in utility work on and adjacent to the project site.

Potential environmental receptors include wildlife utilizing the project site (e.g., rodents, birds, etc.).

If remedial activities were implemented at the project site, potential human receptors during construction would include site workers involved in excavation activities and persons living in and traveling through the area surrounding the project site. The potential for exposure would be reduced through the development of a soil management plan and implementation of standard construction and health and safety precautions.

9.6.2 Exposure Pathways

Under current conditions, human and environmental receptors could be exposed to onsite contaminants via:

- Inhalation of airborne particles
- Incidental ingestion of, or dermal contact, with the contaminated media

During remediation activities, receptors at and near the project site could be exposed to the on-site contaminants via the inhalation contaminated dust and incidental ingestion of, and/or dermal contact with the contaminated media. However, the development of a site management plan, use of appropriate personal protective equipment, dust suppression techniques, and the use of standard construction and health and safety precautions would minimize the risk of exposure during the remedial activities.

No complete exposure pathways to the contaminants at the project site have been identified in connection with the post-remediation period, assuming that the on-site contaminants have been properly removed or treated.

9.7 <u>Remedial Action Objectives</u>

Remedial Action Objectives (RAOs) were identified for each of the contaminated media encountered on the project site. These RAOs are based upon the findings of the RI and the anticipated future use of the project site for commercial/light manufacturing uses, and include:

 Surface Soil - Prevent exposure via dermal contact, incidental ingestion or inhalation of particulates, and to prevent lead in the surface soil from impacting surface water runoff quality.

- Sediment Prevent the exposure via dermal contact, incidental ingestion or inhalation of particulates, and to prevent metals in the sediment within Trench 1 from impacting surface water runoff quality.
- Surface Water Prevent the exposure of humans and environmental receptors to contaminated surface water via dermal contact or incidental ingestion contaminated surface water.

9.8 Remedial Alternatives

9.8.1 Alternative A - No Action

Under this alternative, the site would remain in its current state and no environmental monitoring, remedial activities, institutional or additional access controls would be implemented.

9.8.2 Alternative B – Removal of Contaminated Trench Sediment/Water

This alternative includes the removal of the contaminated surface water and sediment, allowing the site to be developed for the intended futures use for light manufacturing or commercial purposes. Also, an environmental easement and a site management plan would be required to ensure that future development is consistent with the selected remedial alternative and to minimize the risk of exposure during remedial and/or redevelopment activities.

9.8.3 Alternative C – Removal of Contaminated Surface Soil and Trench Sediment/Water

This alternative includes the removal of contaminated surface soil, surface water and sediment from the project site, resulting in a site with no restrictions placed on the future use of the site.

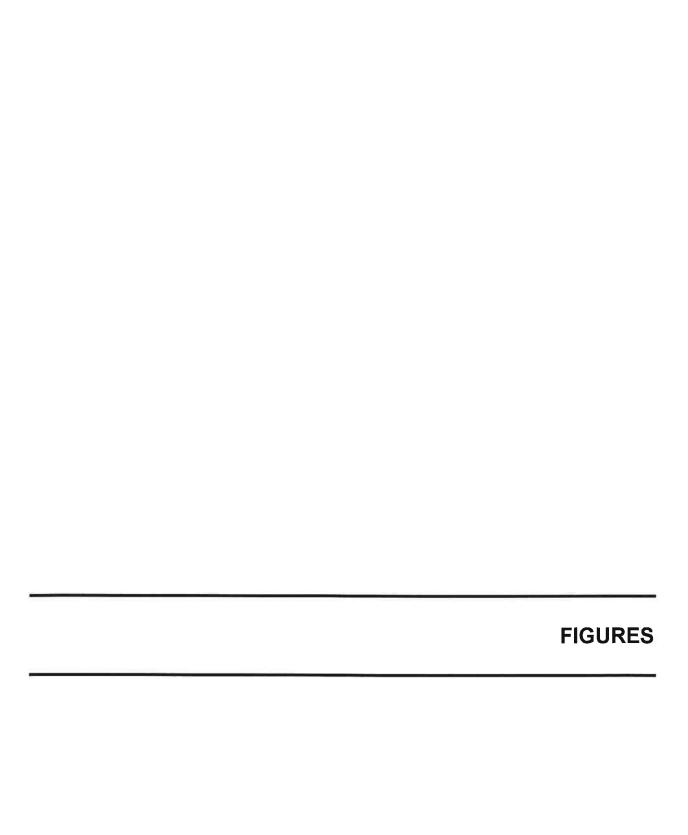
9.9 Recommended Alternative

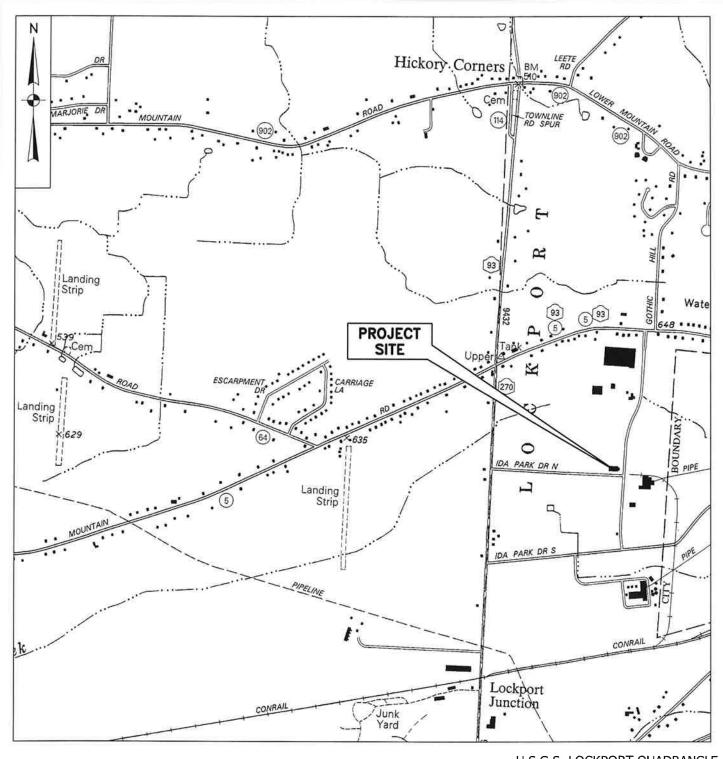
Based upon the high degree of protection to human health and the environment afforded by this alternative as well as its high degree of implementability and cost-effectiveness, Alternative B is recommended for implementation. In order to accelerate the remedial process and return the project site to active use in as quickly as possible, this alternative was advanced under an IRM program.

9.10 <u>Interim Remedial Measures</u>

The IRM involved the removal and off-site disposal of contaminated water and sediments from the two interior and one exterior manmade drainage trenches followed by power washing and backfilling the trenches.

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U.S.G.S LOCKPORT QUADRANGLE CAMBRIA QUADRANGLE

PROJECT SITE LOCATION MAP



Application \ Engineering \ CADD \ RIAA REPORT\ FIGURES 1 AND 3.dwg,

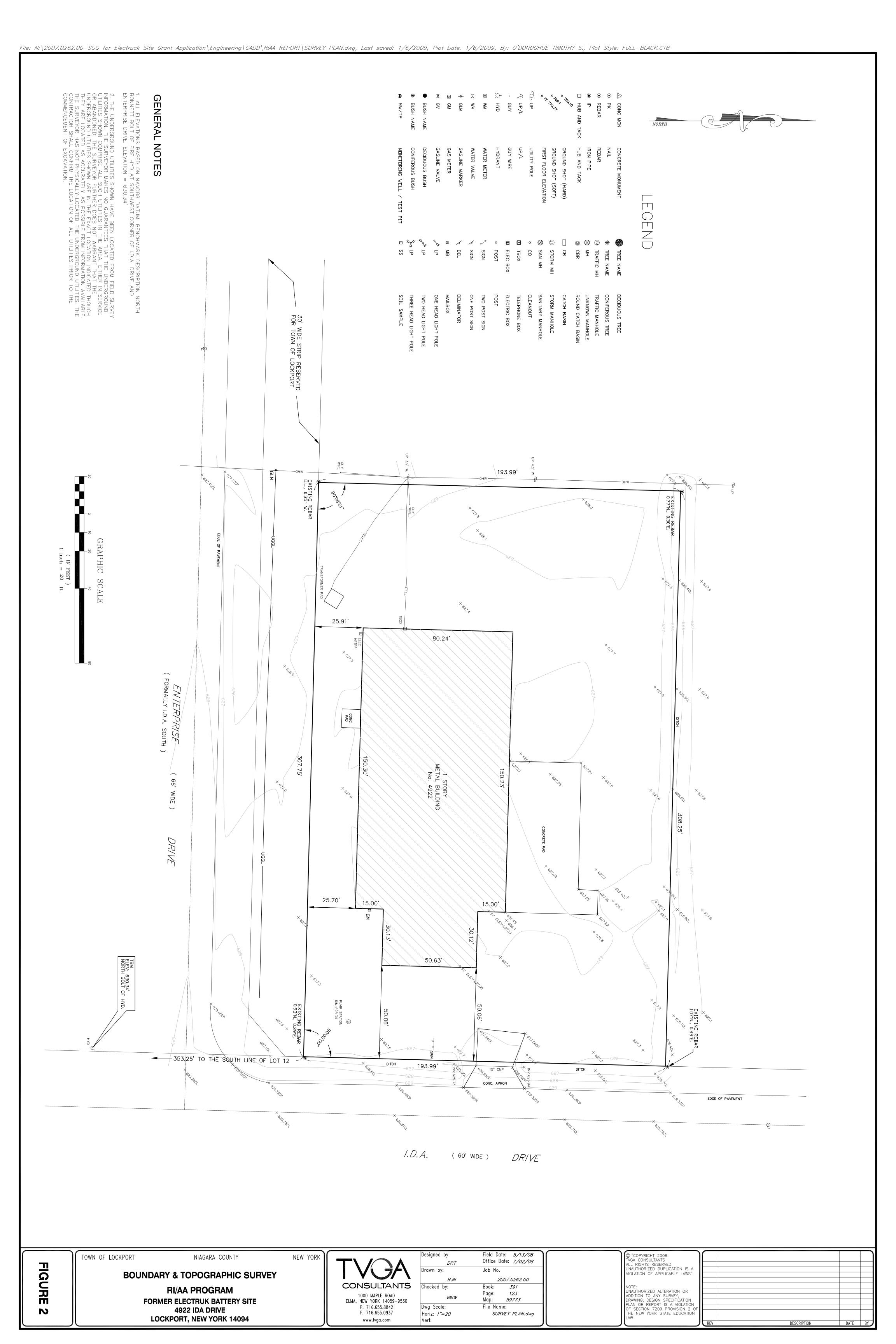
1000 MAPLE ROAD ELMA, NEW YORK 14059-9530 P. 716.655.8842 F. 716.655.0937 www.tygo.com REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS PROGRAM
FORMER ELECTRUK BATTERY SITE
4922 IDA DRIVE
LOCKPORT, NEW YORK 14094

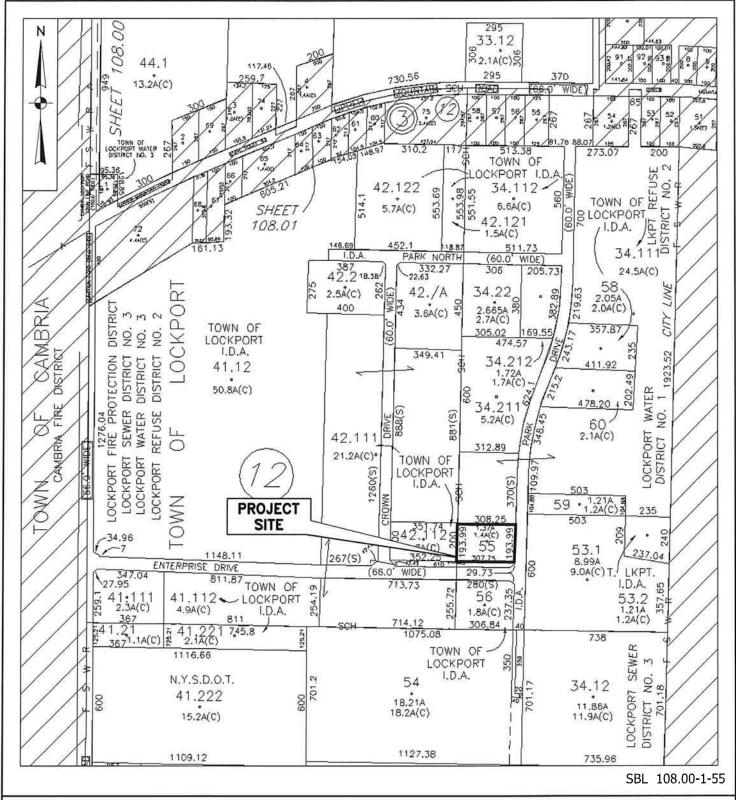
PROJECT NO. 2007.0262.00

SCALE: 1'

1'' = 500'

DATE: JANUARY 2009





TAX MAP



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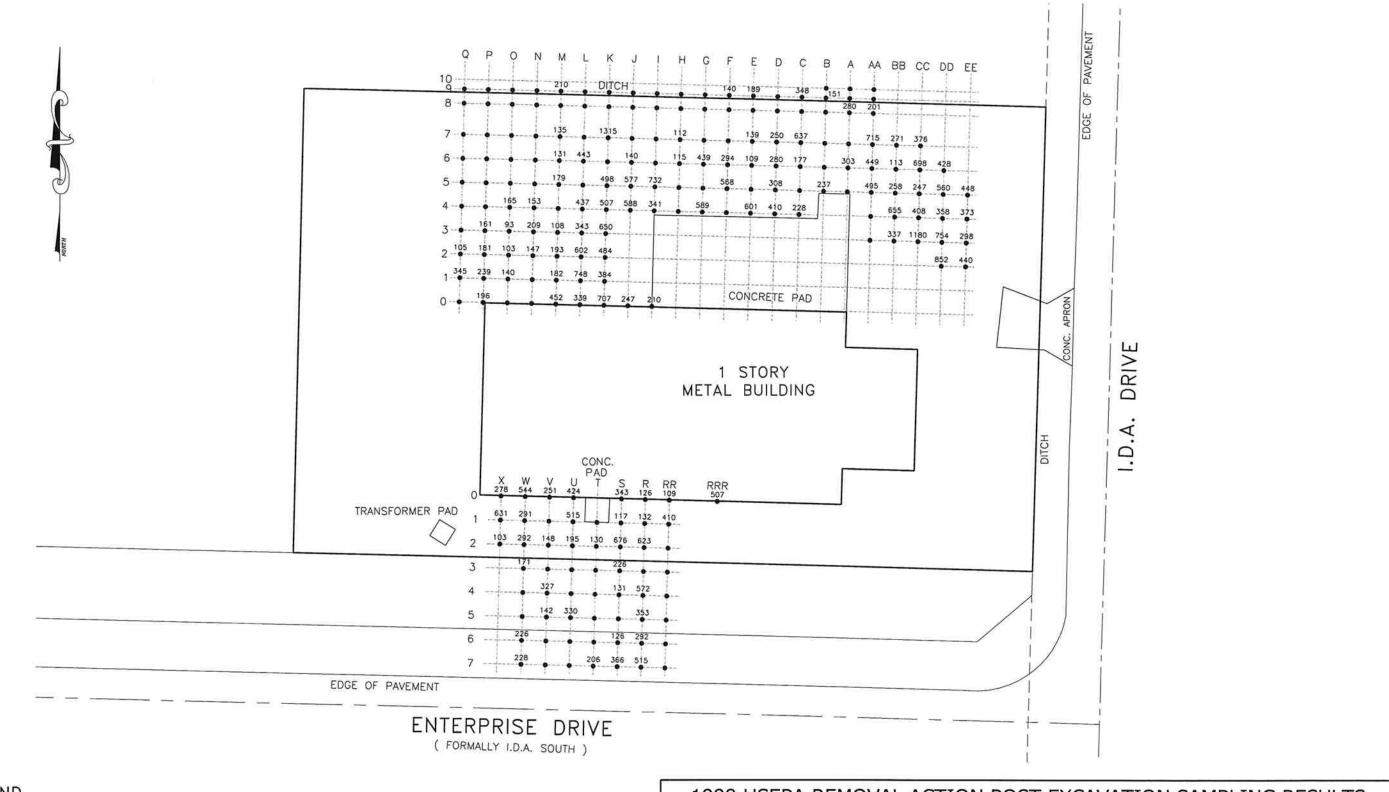
www.tvga.com

F. 716.655.0937

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS PROGRAM FORMER ELECTRUK BATTERY SITE 4922 IDA DRIVE LOCKPORT, NEW YORK 14094

PROJECT NO. 2007.0262.00

SCALE: 1'' = 200' DATE: JANUARY 2009



LEGEND

SAMPLE LOCATION AND LEAD CONCENTRATION (PPM)

NOTE:

SAMPLE LOCATIONS WITHOUT A LISTED CONCENTRATION WERE DETECTED BELOW THE DETECTION LIMIT OF 92 PPM.

1999 USEPA REMOVAL ACTION POST EXCAVATION SAMPLING RESULTS



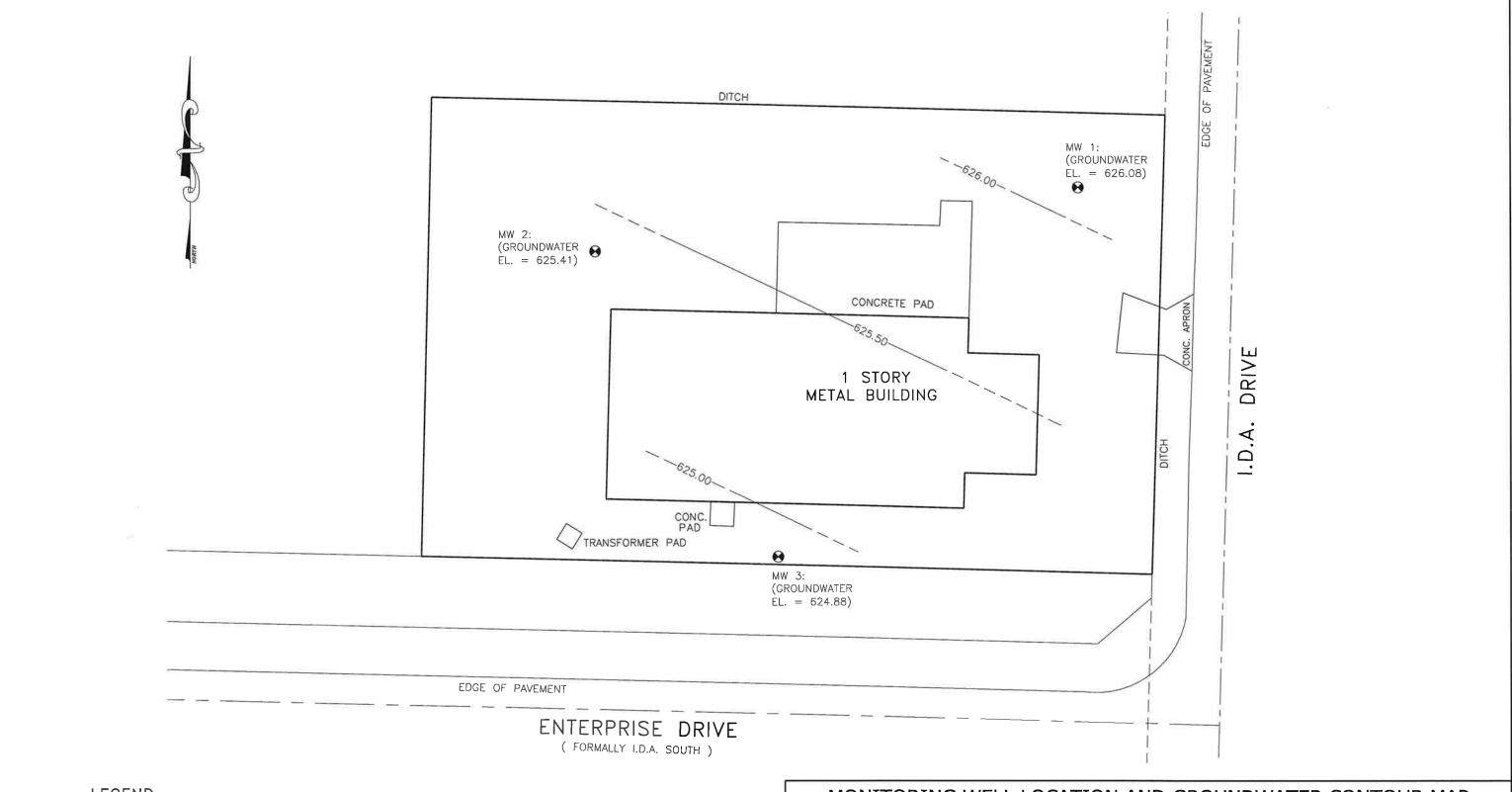
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REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS PROGRAM FORMER ELECTRUK BATTERY SITE 4922 IDA DRIVE LOCKPORT, NEW YORK 14094

PROJECT NO. 2007.0262.00

SCALE: 1" = 40'

DATE: JAN. 2009



LEGEND

MONITORING WELL (GW) LOCATION

---626.00

GROUNDWATER COUNTOUR LINE

NOTE:

GROUNDWATER ELEVATIONS ARE BASED ON NAVD88 DATUM. BENCHMARK DESCRIPTION NORTH BONNETT BOLT OF FIRE HYD AT SOUTHWEST CORNER OF I.D.A. DRIVE AND ENTERPRISE DRIVE. ELEVATION = 630.34'. THE GROUNDWATER ELEVATIONS ARE MEASURED FROM THE TOP OF THE PVC RISER PIPE BY SUBTRACTING THE DEPTH TO GROUNDWATER.

MONITORING WELL LOCATION AND GROUNDWATER CONTOUR MAP



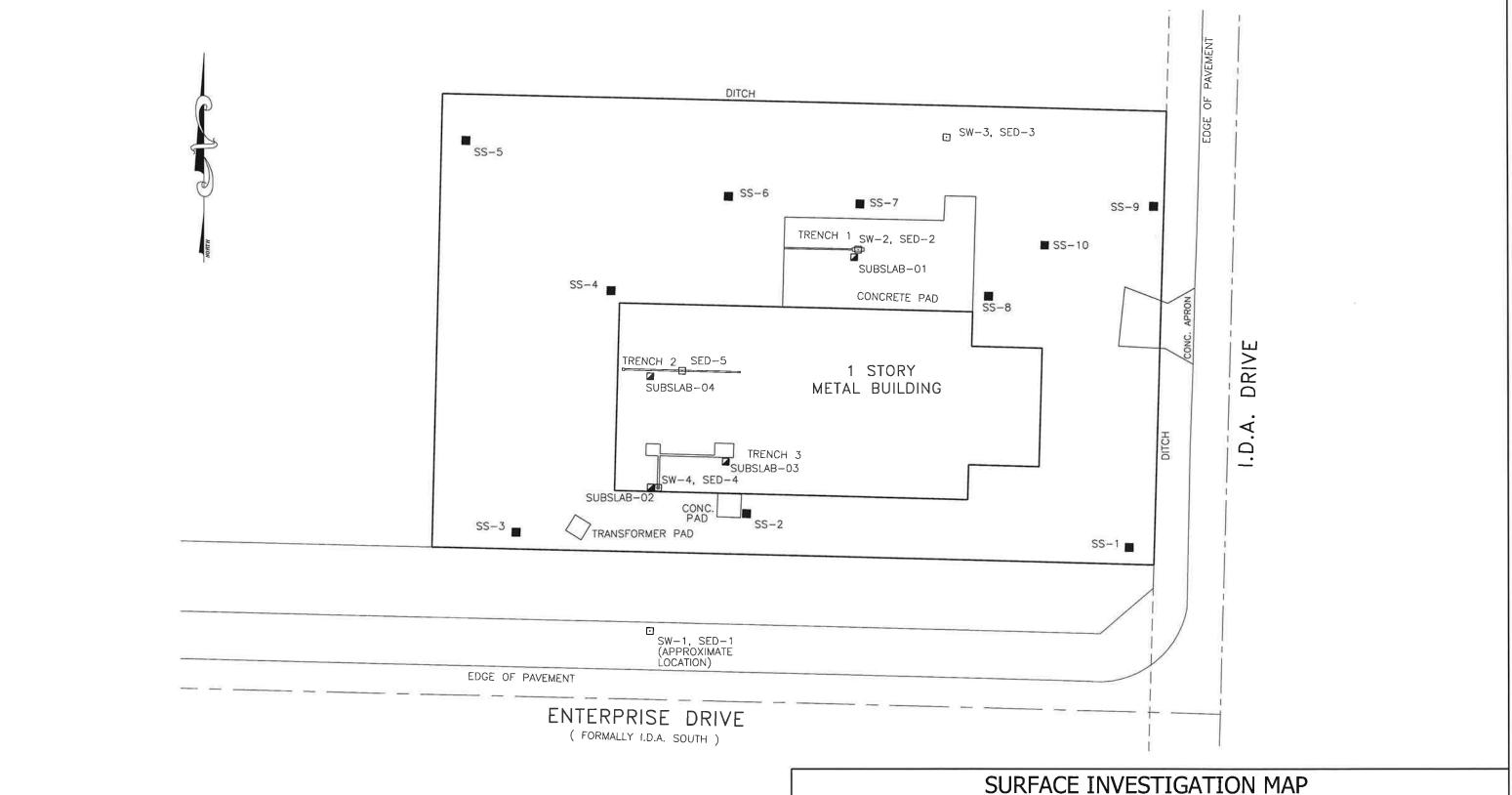
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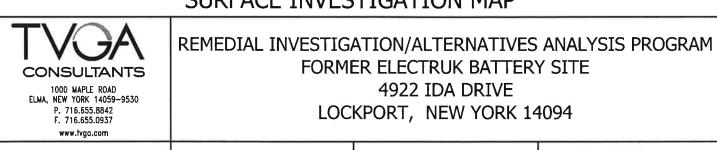
SCALE: 1" = 40'

DATE: JAN. 2009



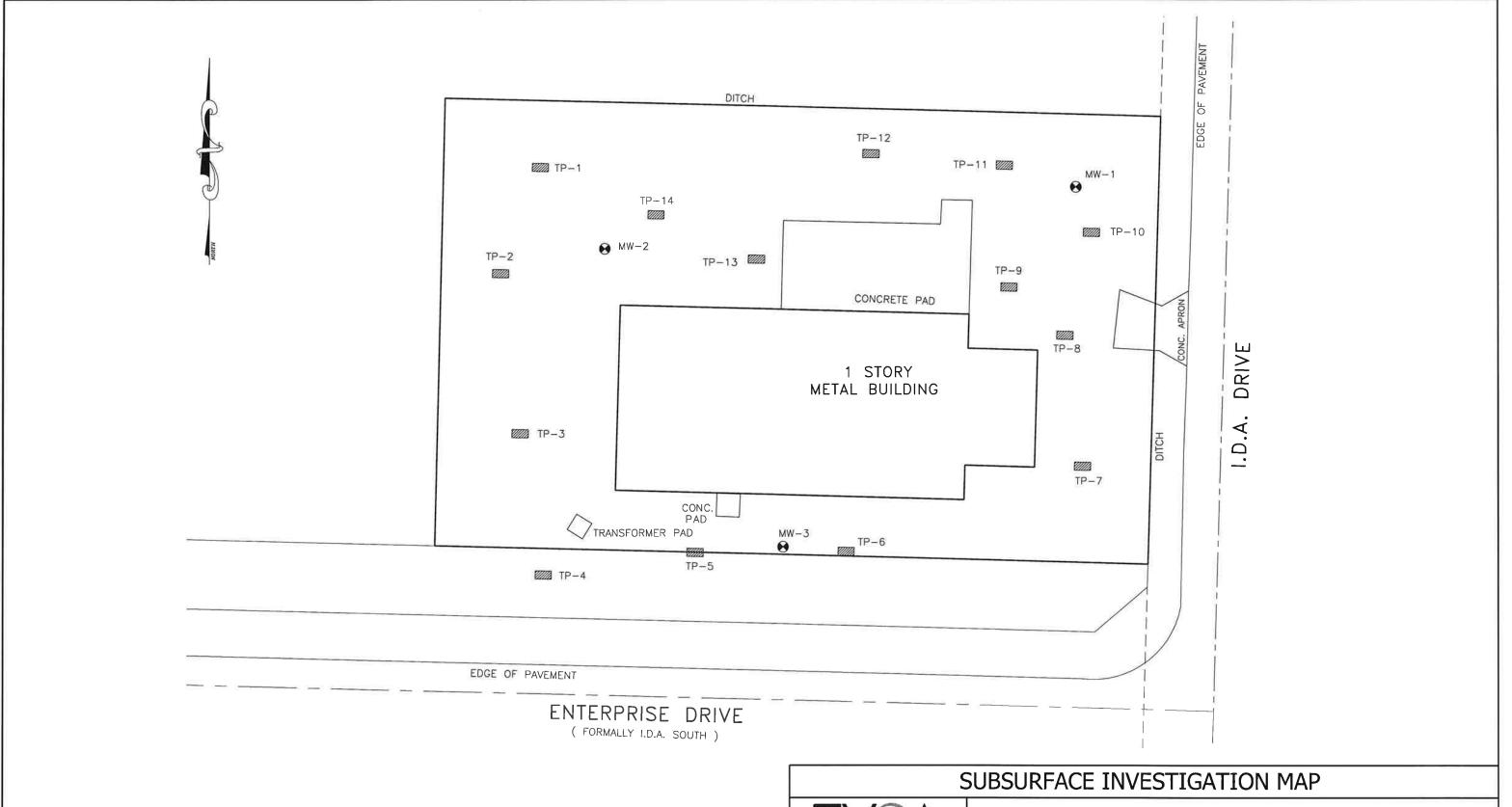
<u>LEGEND</u>

- SURFACE SOIL (SS) LOCATION
- SURFACE WATER (SW) / SEDIMENT (SED) LOCATION
- SUBSLAB SOIL (SUBSLAB) LOCATION



PROJECT NO. 2007.0262.00 SCALE: 1" = 40'

DATE: JAN. 2009



LEGEND

- TEST PIT (TP) LOCATION
- MONITORING WELL (MW) LOCATION



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FORMER ELECTRUK BATTERY SITE
4922 IDA DRIVE
LOCKPORT, NEW YORK 14094

PROJECT NO. 2007.0262.00

SCALE: 1" = 40'

DATE: JAN. 2009

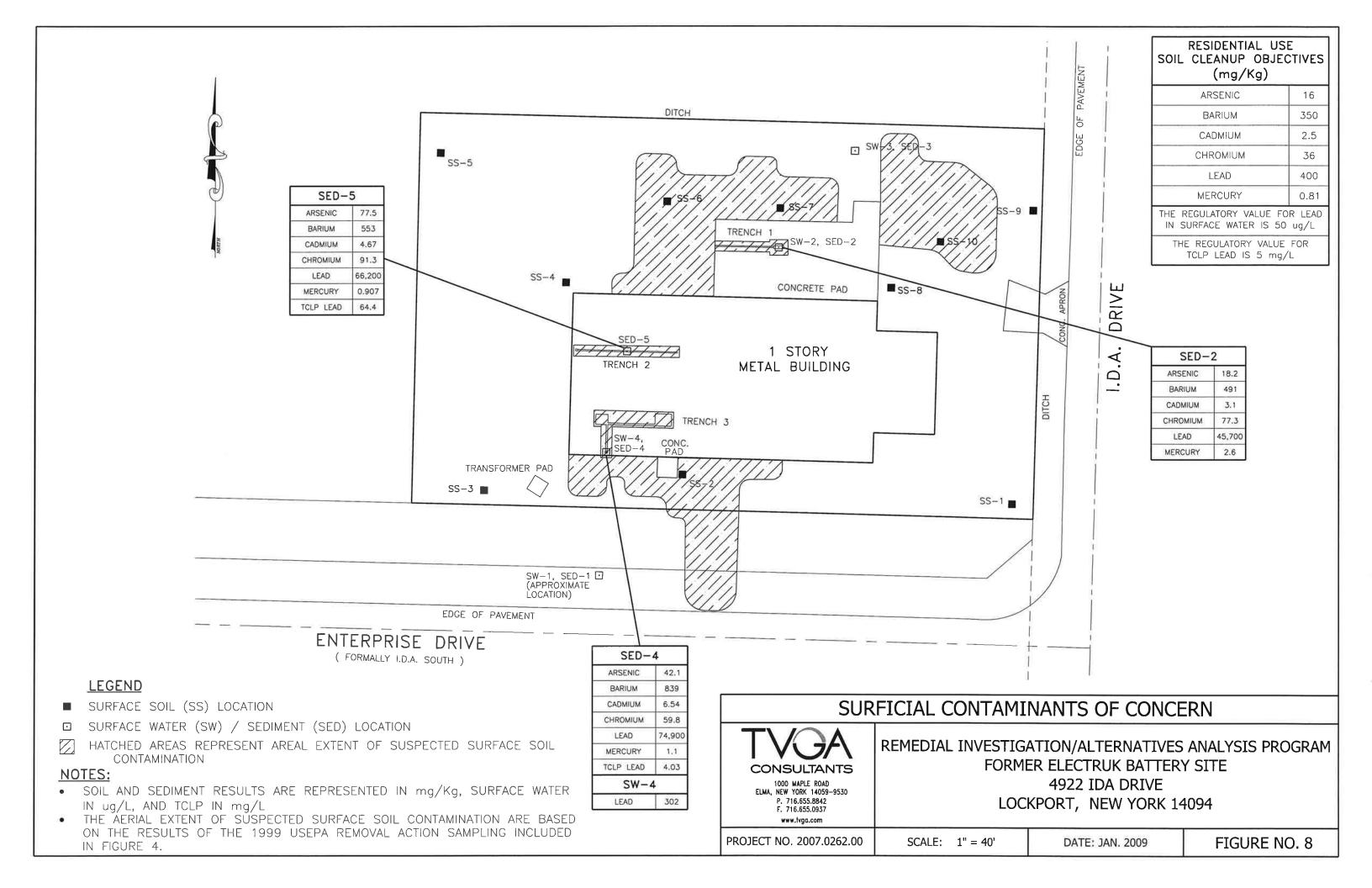




Table 1 Former Electruk Battery Site

Sampling/Analysis Summary

				Depth			Δ	nalys	sis				
,	Sample l	dentifier	Source	Sampled/Screened	ASP00 - TCL VOCs	ASP00 - TCL SVOCs	ASP00- TCL Pesticides	ASP00 - TCL PCBs	ASP00 - RCRA Metals	Hd	Lead	Date Sampled	Comments
Surfac	e Soil/Fi		Control of the Contro		Tarres.	10000	1000		-		-	disease de la company	
FEB-	SS	1	Surface Soil Location 1	0.5'		1	T			X	X	4/10/2008	
FEB-	SS	2	Surface Soil Location 2	0.5'	-		-	-	-	X	x	4/10/2008	
FEB-	SS	3	Surface Soil Location 3	0.5'	_		_	_	-	X	X	4/10/2008	
FEB-	SS	4	Surface Soil Location 4	0.5'		1	_			X	X	4/10/2008	
FEB-	SS	5	Surface Soil Location 5	0.5'			_		-	x	x	4/10/2008	
FEB-	SS	6	Surface Soil Location 6	0.5'			_			x	x	4/10/2008	
FEB-	SS	7	Surface Soil Location 7	0.5		_	1			x	x	4/10/2008	
FEB-	SS	8	Surface Soil Location 8	0.5					_	X	X	4/10/2008	
FEB-	SS	9			_	_	_	_	-	X	x	4/10/2008	
FEB-	SS	9 MS/MSD	Surface Soil Location 9	0,5'	-		_			x	x	4/10/2008	
FEB-	SS	10	Surface Soil Location 10	0.75 to 1			-	-		 ^	x	9/30/2008	
		and Sediment		0.75 10 1	0							9/30/2006	THE STATE OF THE PARTY OF THE P
FEB-	SW	1	Ditch along Enterprise Drive	TO STOCK SHOW OF THE	X	1 1/	I v	LV	- V	T 1/		4/40/0000	
			Ditch along Litterprise Drive	•	<u> </u>	X	X	X	X	X		4/10/2008	
FEB-	SED	1				X	X	X	X	X		4/10/2008	
FEB-	SW	2	Trench in concrete pad along		X	X	X	X	X	X	_	4/10/2008	
FEB-	SW	2 MS/MSD			X	X	X	X	X	X	_	4/10/2008	
FEB-	SED	2	the north side of the building		X	X	X	X	X	X	_	4/16/2008	Area is mostly full of cattails and roots
FEB-	SW	3	Run off from concrete pad to		X	X	X	X	X	X		4/10/2008	Small flowing area towards ditch
FEB-	SED	3	the northern property boundary			X	X	X	X	X		4/10/2008	
FEB-	SW	4	Sump located near the		X	X	X	Х	X	X		4/10/2008	Most of sediment was collected for sample
FEB-	SED	4	southwestern portion inside the building		X	X	х	х	Х	Х		4/30/2008	*
FEB-	SED	5	Trench in the northwestern portion inside the building		X	х	х	х	Х	Х		4/10/2008	Most of sediment was collected for sample
Subsu	rface So.	W Fill				200		V.	Hito	Unit:	115		
FEB-	TP	2	Test Pit 2	5'	X	Х			X	X		4/16/2008	
FEB-	TP	3	Test Pit 3	3'	X	Х	X	Х	X	Х		4/16/2008	
FEB-	TP	6	Test Pit 6	1'	X	Х			X	Х		4/16/2008	
FEB-	TP	8	Test Pit 8	3'	Х	Х	Х	Х	X	Х		4/16/2008	
	dwater				-31	301	U G	991		STISH	This		
FEB-	MW	1	MW-1		X	X	X	Х	X	X		4/30/2008	Duplicate Sample Collected
FEB-	MW	2	MW-2		X	Х	Х		X	Х		4/30/2008	
FEB-	MW	3	MW-3		X	X			X	X		4/30/2008	
Sub-S	lab Soil	Service Miles					217	mil	Carry .	44	E-Ve	TO SHALL SHOW	
FEB-	SubSlab	1	South of Trench 1	0.83							X	8/19/2008	Samples were collected immediately below
FEB-	SubSlab	2	West of Trench 3	0.83							Х	8/19/2008	the concrete floor and underlying subbase
	SubSlab	3	South of Trench 3	0.83							Х	8/19/2008	stone and generally consisted of a brown
	SubSlab	4	South of Trench 2	0.83'	_	_	_	-	_		Х	8/19/2008	silty-clay

Table 2 Former Electruk Battery Site

Summary of Groundwater Elevation Summary

		Well D	epth	ater Depth	
Monitoring Well I.D.	Top of PVC Casing (TOC) Elevation	Depth to Bottom from TOC	Bottom Elevation	Depth to Groundwater from TOC	Groundwater Elevation
MW-1	629.46	7.94	621.52	3.38	626.08
MW-2	629.85	8.80	621.05	4.44	625.41
MW-3	627.28	7.33	619.95	2.4	624.88

- 1. All measurements and elevations are in feet
- 2. TOC = Top of PVC casing
- 3. Elevations are based on NAVD88 Datum from the benchmark identified on Figure 2
- 4. Groundwater measurements recorded on April 30, 2008

Table 3 Former Electruk Battery Site

Summary of Analytical Results Surface Soil Samples

	SOIL CLEANUP OBJECTIVE RESIDENTIAL USE		Su	urface Soil Samples		
Sample Location		SS-1	SS-2	SS-3	SS-4	SS-5
Date Collected:		4/10/2008	4/10/2008	4/10/2008	4/10/2008	4/10/2008
pH	- 50 No. 10 10 10 10 10 10 10 10 10 10 10 10 10	7.3	7.4	7.6	7.3	7.7
Lead (mg/Kg)	400	19.4 J	31.0 J	167 J	23.9 J	25.4 J

Sample Location:		SS-6	SS-7	SS-8	SS-9	SS-10
Date Collected:		4/10/2008	4/10/2008	4/10/2008	4/10/2008	9/30/2008
		THE PARTY OF THE PARTY		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CONTACT CONTACT
pH		7.5	7.2	6.8	7.4	NA
Lead (mg/Kg)	400	296 J	73.2 J	129 J	48.4 J	48.4 J

- 1. Source for Soil Cleanup Objectives is from 6NYCRR Part 375 Environmental Remediation Programs December 2006 Edition
- 2. mg/Kg = milligrams per Kilogram (equivalent to parts per million or ppm)
- 3. A Summary of Data Qualifiers are listed in Table 9
- 4. The sample collected at SS-10 was collected from 9 inches to 12 inches below the ground surface
- 5. NA = parameter not analyzed
- "-" No regulatory value is associated with this parameter

Table 4 Former Electruk Battery Site

Summary of Analytical Results Subsurface Soil Samples

	SOIL CLEANUP OBJECTIVE		Subsurface S	Soil Samples	
	RESIDENTIAL USE	TP-2	TP-3	TP-6	TP-8
Interval Sampled (feet bgs):		5	3	1	3
Date Collected:		4/16/2008	4/16/2008	4/16/2008	4/16/2008
pH		8	7.8	7.2	7.6
Volatile Organic Compounds (ug/Kg)	STATE OF STATE		AND HEILEN BOND		NA SEAL PHASE
Carbon Disulfide	100,000*	13	Ĭ		
TICs				41	
Total VOCS		13		41	
Semi-Volatile Organic Compounds (ug/	Kg)		MANA SERVICE		SUPERINTED S
TICs	-	160		770	
Total SVOCs	4	160		770	
Metals (mg/Kg)				nievelyziú za 🗼	
Arsenic	16	3.6 U	4.1 U	3.1 U	4.2 U
Barium	350	78.9	161	100	137
Chromium	36	9.3 U	27.4	18.7	14.8
Lead	400	9.4	11	12.9	7.8
Mercury	0.81	0.014	0.019	0.039	0.015
Selenium	36		3.1	1.9	1.5

- 1, Source for Soil Cleanup Objectives is from 6NYCRR Part 375 Environmental Remediation Programs December 2006 Edition
- 2. ug/Kg = micrograms per Kilogram (equivalent to parts per billion or ppb)
- 3. mg/Kg = milligrams per Kilogram (equivalent to parts per million or ppm)
- 4. Blank space indicates parameter not detected
- 5. Pesticides and PCBs were not detected in TP-3 or in TP-8 and were not analyzed in TP-2 and TP-6
- 6. Only analytes detected in one or more samples are shown.
- 7. A Summary of Data Qualifiers are listed in Table 9
- "-" No regulatory value is associated with this parameter
- * Cleanup Objective not specified therefore maximum individual VOC concentration is utilized, 100,000 ppb for residential use

Table 5 Former Electruk Battery Site

Summary of Analytical Results Sediment Samples

	SOIL CLEANUP OBJECTIVE COMMERCIAL	SOIL CLEANUP OBJECTIVE			Sediment Samples		Y
	USE	RESIDENTIAL USE	SED-1	SED-2	SED-3	SED-4	SED-5
Date Collected:			4/10/2008	4/16/2008	4/10/2008	4/10/2008	4/10/2008
pH			8.4	6.5	7.3	8.8	6.9
Volatile Organic Compounds (ug/Kg)	KIND HOLDING		HENDEN AS THE		FARE COLUMN		Memories -
Carbon Disulfide	500,000°	100,000*	NA.	13	NA		
Methylene Chloride	500,000	51,000	NA		NA		32
TICs	- 2		NA	46	NA		
Total VOCS				59			32
Semi-Volatile Organic Compounds (ug/Kg)							Value of the same
Acetophenone	500,000*	100,000*		210 J			
Benzaldehyde	500,000*	100,000*		230 J			320
bis(2-ethylhexyl)phthalate	500,000*	100,000°		3,000 UJ		15,000	4,900
Dimethylphthalate	500,000*	100,000°		160 J			560
Fluoranthene	500,000	100,000		180 J			
Phenol	500,000	100,000		140 UJ			
Pyrene	500,000	100,000		140 J			
TICs			390	10,820	440	2,500	1,090
Total SVOCs	*		390	14,880	440	17,500	6,870
Metals (mg/kg)			Seat of the last	and the state of t			
Arsenic	16	16	3	18.2 J	4.94	42.1	77.5
Barium	400	350	90.5	491 J	149	839	553
Cadmium	9.3	2.5	0.614	3.1 J	0.948	6.54	4.67
Chromium	1,500	36	14.8 J	77.3 J	19.7 J	59.8 J	91.3 J
Lead	1,000	400	52.9 J	45,700 J	39.5 J	74,900 J	66,200 J
Mercury	2.8	0.81	0.022	2.6 J	0.019	1.1	0.907
Selenium	1,500	36	- Alder	12.8 J	-5.60014050		
Silver	1,500	36				3.23	11.7
TCLP Lead (mg/L)	-		NA	NA I	NA	4.03**	64.40**

- Notes:

 1. Source for Soil Cleanup Objectives is from 6NYCRR Part 375 Environmental Remediation Programs December 2006 Edition

 2. ug/Kg = militorgrams per Klogram (equivalent to parts per billion or ppb)

 3. mg/Kg = militorgrams per Klogram (equivalent to parts per million or ppm)

 4. Elank space indicates parameter not detacted

 5. NA = parameter not analyzed

 6. Only analytes detected in one or more samples are shown

 7. Pesticides and PCBs were not detacted in any of the sediment samples

 8. A summany of Data Qualifiers are fisted in Table 9

 6. Cleanup Objective not specified therefore maximum Individual VOC and SVOC concentration is utilized. 500,000 ppb for commercial use and 100,000 ppb for unrestricted use

 7. Regulatory value for TCLP lead is 6 mg/L, 40 CRF Part 281,24 is the source of the regulatory value, which lists the maximum contaminant levels for the toxicity characteristic for determining if a solid waste is defined as a hazardous waste.

 7. No regulatory value is essociated with this parameter

** No regulatory value is associated with this parameter

Shaded represents exceedences over the Residential Use Cleanup Objectives

Shaded and Outlined represents exceedences over the Commercial Use Cleanup Objectives

Table 6 Former Electruk Battery Site

Summary of Analytical Results Surface Water Samples

	REGULATORY		Surface Wa	ter Samples	
	VALUE	SW-1	SW-2	SW-3	SW-4
Date C	ollected:	4/10/2008	4/10/2008	4/10/2008	4/30/2008
рН		8.24	7.32	8.22	6,88
Semi-Volatile Organic Compou	nds (ug/L)		MITTER SHELLING THE STATE OF TH		
TiCs	-	20.4	23.6	15.3	
Total SVOCs	*	28.9	52.3	32.8	
Metals (ug/L)	Annual Seal Englanding Co.	Section Company (section)			Part Part San
Barium	1,000	31.4	24.7	26.8	15.1
Chromium	50	1.6	1.4	1.5	4.22
Lead	50	7.4	12.3	10.1	302
Silver	50				8.26

- 1. Regulatory values for surface water are derived from NYS Amblent Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, surface water), June 1998 1. Regulatory values for surface water are derived from NYS Amblent Water Quality Standards' 2. ug/L = micrograms per Liter (equivalent to parts per billion or ppb)
 3. Blank space indicates parameter not detected
 4. Only analytes detected in one or more samples are shown
 5. VOCs, Pesticides and PCBs were not detected in any of the surface water or sump samples
 6. A Summary of Data Qualifiers are bitset in Table 9
 - No regulatory value is associated with this parameter
 Shaded represents sample exceeding the Regulatory Value

Table 7 Former Electruk Battery Site

Summary of Analytical Results Groundwater Samples

	NYSDEC CLASS GA GROUNDWATER STANDARD OR		Groundwater Samples	
	GUIDANCE VALUE	MW-1	MW-2	MW-3
Date Col	lected:	4/30/2008	4/30/2008	4/30/2008
рН	6.5-8.5	7.11	7.58	7.97
Volatile Organic Compounds (ug	VL)	ALCOHOLD A		33,000
Acetone	50	7.1	22	
Benzene	1		4.2	0.93
Bromodichloromethane	50			0.75
Chloroform	7		4.8	6.1
2-Butanone	50		4.2	
Cyclohexane	7:		1.8	
Toluene	5		6 A H 140	2
m/p-Xylenes	5		3.2	1.8
o-Xylene	5		1.4	0.77
Total VOCs	Ц.	7.1	47.6	12.35
Semi-Volatile Organic Compound	ds (ug/L)			
3+4-Methylphenols	1	2.5		
bis(2-ethylhexyl)phthalate	5			4.1
TICs		23		17
Total SVOCs		25		21
Metals (ug/L)				
Barium	1000	47.3	87	66.2
Chromium	50	2.87	2.56	2.86
Lead	25		6.74	
Silver	50		1.78	2.42

- 1. Class GA regulatory values are derived from NYS Ambient Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, groundwater)
- 2. ug/L = micrograms per Liter (equivalent to parts per billion or ppb)
- 3. Blank space indicates parameter not detected
- 4. Only analytes detected in one or more samples are shown
- 5. Pesticides were not detected in MW-1 and MW-2 and were not analyzed in MW-3, therefore pesticides are not listed on this table
- 6. PCBs were not detected in MW-1 and were not analyzed in MW-2 and MW-3, therefore PCBs are not listed on this table
- 7. A Summary of Data Qualifiers are listed in Table 9
- "-" No regulatory value is associated with this parameter
- Shaded represents sample exceeding the Regulatory Value

Table 8 Former Electruk Battery Site

Summary of Analytical Results Sub-Slab Soil Samples

	SOIL CLEANUP OBJECTIVE RESIDENTIAL USE		Sub-Slab S	oil Samples	
Sample Location		SubSlab-01	SubSlab-02	SubSlab-03	SubSlab-04
Date Collected:		8/19/2008	8/19/2008	8/19/2008	8/19/2008
Lead (mg/Kg)	400	37.4	32.5	174	12.1

- 1. Source for Soil Cleanup Objectives is from 6NYCRR Part 375 Environmental Remediation Programs December 2006 Edition
- 2. mg/Kg = milligrams per Kllogram (equivalent to parts per million or ppm)
- 3. A Summary of Data Qualifiers are listed in Table 9
- "-" No regulatory value is associated with this parameter

Table 9 Former Electruk Battery Site

Summary of Data Qualifiers

DATA QUALIFIER	DEFINITION
Organics	
U	Not Detected. This compound was analyzed-for but not detected.
J	For both organics and inorganic analysis, this flag indicates an estimated value and the associated numerical value is an approximate concentration of the analyte in the sample.
В	This flag is used when the analyte is found in the associated blank, as well as in the sample.
D	For Organics analysis, this flag indicates the compound concentration was obtained from a diluted analysis.
E	For Organics analysis, this flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
N	For Organics analysis, this flag indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification. For Inorganics analysis, the N flag indicates the matrix spike recovery falls outside of the control limit.
*	For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Table 10 Former Electruk Battery Site

General Response Actions and Site-Wide Alternatives

				ite	site
		Surface Water	No action	Removal and off-site disposal	Removal and off-site disposal
	Areas of Concern	Sediment	No action	Removal and off-site disposal	Removal and off-site disposal
Site-Wide Alternatives		Surface Soil	No action	Environmental Easement and Development of Site Management Plan	Removal and off-site disposal
Sit	Description		Project site remains in current condition	Removal of all contaminated sediment to Residential Use SCOs	Removal of all contaminated soil and sediment to Residential Use SCOs
	Name		"No Action"	"Removal of Contaminated Trench Sediment/Water"	"Removal of Contaminated Surface Soil and Trench Sediment/Water"
	Alternative	Identifier	∢	В	O

Table 11 Former Electruck Battery Site Cost Estimate - Alternative B

Removal of Contaminated Trench Sediment/Water

nstitutional Controls Environmental Easement Site Management Plan		la					
Site Management Plan		In.					
	Plan preparation	Legal and filing fees Is 1 \$ 5,		5,000.00	\$5,000		
	i ian proparation	ls	1	\$	2,000.00	\$2,000	
Removal of Contaminated Sump Sed	iments						
Clean Sumps and Close in-place	Two man crew (one laborer and a Forman) plus equipment rental	day	1	\$	900.00	\$900	
Disposal Container	55-gallon Drum	each	4	\$	50.00	\$200	
Transportation of Sediment	Transportation each 1		\$				
Disposal of Sediment	Off-site disposal	drum			84.00	\$340 \$336	
Removal of Water In Trenches							
Removal of Water	Two man crew (one laborer and a Forman) plus equipment rental	day	1	\$	900.00	\$900	
Disposal Container	55-gallon Drum	each	11	\$	50.00	\$550	
Transportation of Water		each	1		\$680.00	\$680	
Disposal of Water	Off-site disposal	drum	11	\$	162.40	\$1,786	
Backfilling	Flowable Fill	ls	1	\$	3,390.00	\$3,390	
Subtotal						\$16,082	
Additional Capital Costs			1100	,			
lob/Demob/Decon	5% of Subtotal					\$804	
Contingencies	15% of Subtotal					\$2,412	
ngineering/Oversight	20% of Subtotal					\$3,216	
Subtotal	1					\$6,433	
Annual Easement Certification							
Easement Certification		event	11	\$	500.00	\$500	
Capital Cost Subtotal						\$22,515	
resent Worth - Annual Cover Monitorin	g (30 years)					\$7,686	
otal Project Cost						\$30,202	

Notes:

Sources include:

2005 RS Means Heavy Construction Cost Data 19th Addition (unit prices include a 9% markup for inflation).
2004 Cost Estimate from Waste Technology Services Inc. (prices include a 12% markup for inflation)
Engineer's Estimate.

Present Worth is the amount of money that must be invested today to cover future costs and is calculated by applying a present worth factor which is based on a 5% interest rate over the given time period.

Is = lump sum cy = cubic yard ton = 2,000 pounds

Table 12 Former Electruck Battery Site Cost Estimate - Alternative C

Removal of Contaminated Surface Soil and Trench Sediment/Water

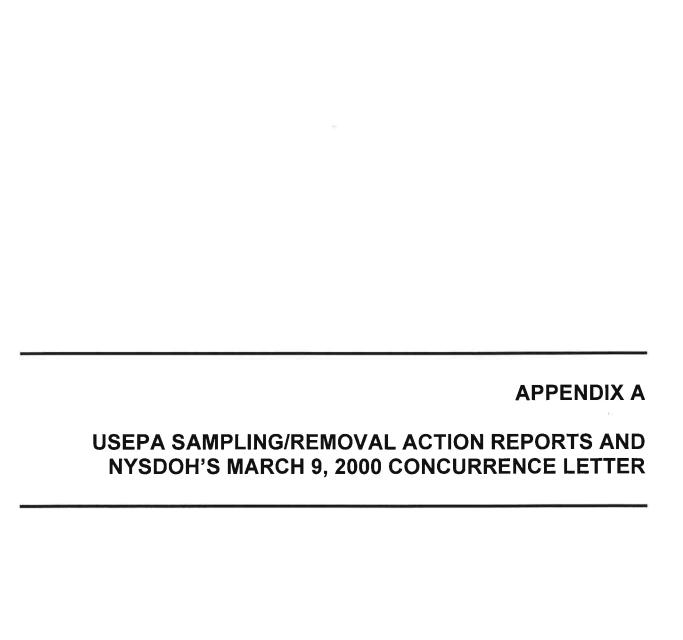
Item	Note	Unit	Quantity		ost/Unit	Cost	
Pre-Design Investigation							
Scoping/Sample Collection	Labor/Equipment	event	1	\$	5,850.00	\$5,850 \$1,550	
	40 Soil Samples for Lead						
Analytical	Analysis	event	1	\$	1,550.00		
Evaluation	Reporting	event	1	\$	2,350.00	\$2,350	
Excavation of Contaminated Surface	Soil/Fill		·				
Surface Soil/Fill Excavation		су	570	\$	4.00	\$2,280	
0 (0 3/53/0)	Transportation and off-site		σ, σ				
Surface Soil/Fill Disposal	disposal	tons 912 \$		34.00	\$31,008		
Verification Sampling	Total Lead analysis	sample	43	\$	35.00	\$1,505	
Backfilling							
	Unclassified fill - 4"	су	445	\$	18.00	\$8,010	
Imported Topsoil		cy	125	\$	25.00	\$3,125	
Site restoration	Turf establishment	acre	0.23	\$	4,950.00	\$1,139	
Removal of Contaminated Sump Sed							
Clean Sumps and Close in-place	Two man crew (one laborer and a						
place	Forman) plus equipment rental	day	1	\$	900.00	\$900	
Disposal Container	55-gallon Drum	each	4	\$	50.00	\$200	
Transportation of Sediment		each	1	\$	340.00	\$340	
Disposal of Sediment		drum	4	\$	84.00	\$336	
Removal of Water In Trenches			1				
Removal of Water	Two man crew (one laborer and a						
riomoral of riator	Forman) plus equipment rental		1	\$	900.00	\$900	
Disposal Container	55-gallon Drum	day each	11	\$	50.00	\$550	
Transportation of Water		each	1	Ť	\$680.0	\$680	
Disposal of Water		drum	11	\$	162.40	\$1,786	
Backfilling	Flowable Fill	Is	1	\$	3,390.00	\$3,390	
Subtotal		,,,		-	0,000.00	\$65,899	
Additional Capital Costs						φοσισσο	
Mob/Demob/Decon	5% of Subtotal					\$3,295	
Contingencies	15% of Subtotal			_		\$9,885	
Engineering/Oversight	20% of Subtotal					\$13,180	
Subtotal						\$26,360	

Notes:

Sources include:

The Unit Bid Tabulation Sheet from the Removal and Disposal of Contaminated soil at One Bristol Avenue January 2008. The Unit Bid Tabulation Sheet for the 2007 Franczyk Park Environmental Remediation & Park Reconstruction Project 2005 RS Means Heavy Construction Cost Data 19th Addition (unit prices include a 9% markup for inflation). 2004 Cost Estimate from Waste Technology Services Inc. (prices include a 12% markup for inflation) Engineer's Estimate.

Is = lump sum cy = cubic yard ton = 2,000 pounds





584 Delaware Avenue, Buffalo, New York 14202

Antonia C. Novello, M.D., M.P.H. Commissioner of Health

Dennis P. Whalen Executive Deputy Commissioner

March 9, 2000

RECEIVED

NYSDEC REG. 9
_REL UNDER

Mr. Dan King, P.E. Div. of Environmental Remediation NYS Department of Environmental Conservation Region 9 Office 270 Michigan Avenue Buffalo, NY 14203

> Re: EPA Removal Action Final Report **Electruk Battery Site** NYS DOH #932845N

Lockport (T), Niagara County

Dear Mr. King:

I reviewed the 1999 Final Report of the EPA Removal Action at the above-referenced site. EPA used a cleanup level of 750 ppm of lead based upon their guidance of 750 ppm to 1000 ppm for industrial sites. Lead levels remaining on this unoccupied site are below 750 ppm, with 70 percent of confirmatory samples below the upper background number obtained at the site (227 ppm). The highest levels remaining are found against the building foundation and the concrete storage pad. These levels should not pose any exposure problems so long as the site remains in its current intended use (commercial/industrial), and the areas remain undisturbed.

Since lead remains on the site above residential cleanup guidelines, it is recommended that the site be deed restricted to prevent the unlikely use of it for residential or day care purposes.

If you have any questions, please feel free to contact me at 847-4502.

Sincerely,

Matthew J. Forcucci Public Health Specialist

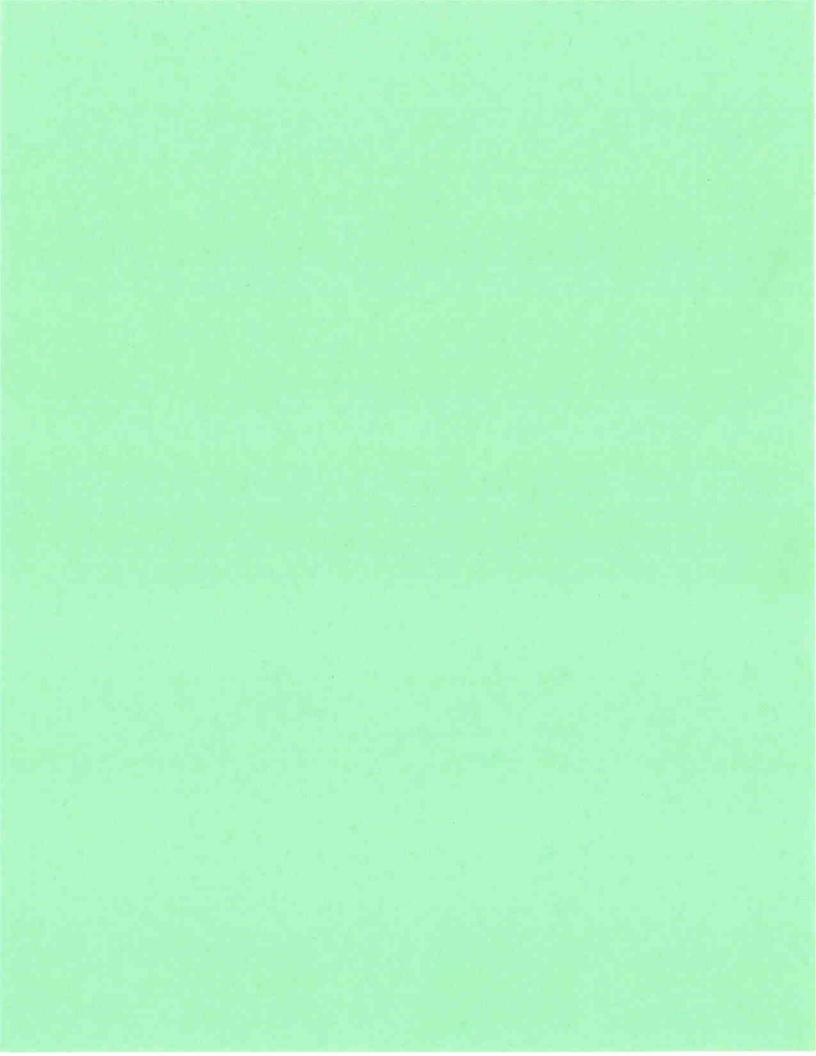
Mathlew J. L.

cc: C. O'Connor, WRO

Dr. G. A. Carlson, Ph.D./Mr. M. VanValkenburg

Mr. Paul Dicky, NCHD

Mr. Ed Belmore, DEC Albany





Roy F. Weston, Inc. Federal Programs Division Suite 201 1090 King Georges Post Road Edison, New Jersey 08837-3703 732-225-6116 • Fax 732-225-7037

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT 68-W5-0019

July 22, 1999

Mr. Jeff M. Bechtel U.S. Environmental Protection Agency 2890 Woodbridge Avenue Edison, NJ 08837

RE: DELINEATION OF LEAD CONTAMINATION BY X-RAY FLUORESCENCE

Electruk Battery Site, Lockport, NY

TDD No:

02-98-09-0001

DCN:

START-02-F-3695

Dear Mr. Bechtel:

Attached is the report detailing the results of the XRF analysis of samples from the Electruk Battery site in Lockport, NY obtained 12 May through 10 June 1999. It includes the results of the confirmation analysis done by an independent lab subsequent to the site visit.

If you have any questions, please call me at 732-225-6116.

Sincerely,

John F. Brennan

START

cc: TDD File

J. Soroka

ANALYSIS OF LEAD BY X-RAY FLUORESCENCE

ELECTRUK BATTERY SITE LOCKPORT, NEW YORK

Prepared by:

Superfund Technical Assessment and Response Team Roy F. Weston, Inc. Federal Programs Division Edison, New Jersey

Prepared for:

U.S. Environmental Protection Agency Region II Edison, New Jersey

DCN #: START-02-F-03695 TDD #: 02-98-09-0001 EPA Contract No.: 68-W5-0019

Approved by:	
START	
John F. Brennan, Project Manager	Date: 7/22/99
Joseph M. Soroka, Quality Assurance Officer	Date: 7/27/94
EPA //Mr. Man	Date: 8/26/99
Jeff M. Bechtel, On-Scene Coordinator	2 1

TABLE OF CONTENTS

1.0 INTRODUCTION)N	C	CTI	U	D	0	Γ R	INT	.0	1
------------------	----	---	-----	---	---	---	------------	-----	----	---

2.0 METHODS

- 2.1 Sample Preparation Prepared Cup
- 2.2 XRF Analysis
- 2.3 Detection and Quantitation Limits
- 2.4 Application Model Verification
- 2.5 XRF Confirmation by ICP

3.0 QUALITY ASSURANCE/QUALITY CONTROL

4.0 RESULTS AND DISCUSSION

- 4.1 Sample Results
- 4.2 NIST Results
- 4.3 Replicate and Duplicate Results
- 4.4 Application Model Verification

5.0 CONCLUSIONS

LIST OF FIGURES

Figure 1: Soil Contamination Levels 0-6" (Lead)

LIST OF TABLES

Table 1: XRF Analysis of Electruk Battery Samples for Lead XRF Analysis of The Low NIST Standard (NIST 2709) Table 3.1: Comparison of Replicate Samples Table 3.2: Comparison of Duplicate Samples Application Model Verification (NIST 2710) Table 4.2: Application Model Verification (NIST 2711) Table 5: Confirmation Analysis: ICP vs XRF

LIST OF APPENDICES

APPENDIX A - Chain of Custody Forms
APPENDIX B- Daily Instrument Calibration Worksheets

1.0 Introduction

The Region II Superfund Technical Assessment and Response Team (START) provided on-site analytical services for X-Ray Fluorescence (XRF) of soil samples at the Electruk Battery Site from 12 May 1999 through 10 June 1999 under TDD number 02-98-09-0001. The samples were analyzed using field laboratory techniques (i.e., using prepared XRF sample cups).

The objective of the project was to screen site samples for lead in order to assess the extent of contamination at the site. START screened a total of 308 soil samples during the course of the project. A Spectrace Model 9000 field portable XRF spectrometer (S/N Q44) was used for this project. A subset of the samples was sent to an independent laboratory to confirm the XRF results and qualify the XRF data as Quality Assurance Level 2 (QA-2) data.

2.0 Methods

Region II START collected 308 soil samples during the course of this investigation. Areas of concern were chosen based on historical data generated by Chopra-Lee, Inc., a private consultant hired by the Lockport Industrial Development Agency (LIDA), from START's August 19, 1998, sampling event and a physical walk of the site. A 10' X 10' grid was set up around the facility which was designed to cover all of the areas of concern. Sample locations were identified using site references and documented in site logbooks. Samples are identified by their locations on the grid site. The prefix A, B, C... denotes where the sample is located on the East/West axis, while the suffix 0, 1, 2...denotes where the sample is located on the North/South axis.

2.1 Sample Preparation - Prepared cup

After the surface vegetation was removed, the soil in a 12" x 12" area was mixed and placed into Ziplock bags for transportation back to the site laboratory. The samples were homogenized and a small aliquot (approximately 10 grams) of the sample was dried. Most samples were dried using a convection oven at 100°C, while other samples were air dried. Samples were then sieved through a 10 mesh stainless steel sieve and loaded into a XRF cup prior to sealing with 0.2 mil Mylar film. Duplicate samples were obtained by filling a second Ziplock bag from the sample location. The suffix DUP was added to the sample name for the second sample.

2.2 XRF Analysis

A Spectrace Model 9000 (S/N Q-44) was used for the lead analysis. The instrument is equipped with three radioactive isotope sources; Fe-55, Cd-109 and Am-241. Because the analyte of

concern at the site was lead, the counting time for the Cd-109 source was set at 15 seconds, with the counting times for the other two sources at 15 seconds. A counting time of 15 seconds was expected to provide a minimum detection level (MDL) for the lead below the site specified action level of 750 ppm.

At the start of each day, an energy calibration check, resolution check and zero check were performed to assure that the instrument was operating within specifications. Additionally, three NIST standards and a sample of Ottawa sand (used as a blank to confirm that there was no cross-contamination) were analyzed periodically as detailed in the following sections.

Duplicate samples were collected for at least 10% of the sample locations. Duplicate samples were samples from the same sample location with unique sample numbers and were used to estimate sample soil homogeneity.

In addition to sample duplicates, replicate analysis of the same sample cup were also analyzed at a frequency >10%. The suffix REP was add to the sample name for the second analysis. Replicate samples were used to estimate instrument precision.

XRF analysis was conducted in accordance with EPA/ERT SOP #1713, Spectrace 9000 Field Portable X-Ray Fluorescence Operating Procedures, as well as, the instrument instruction manuals.

2.3 Detection and Quantitation limits

A low-concentration standard, NIST #2709 (lead = 18.9 ppm), was analyzed periodically at the beginning and end of each day and after every 10 samples. The standard deviation (SD) of the non-consecutive analysis was used to calculate the method detection limit (MDL) and method quantitation limits (MQL) for the analytes. The MDL is defined as three times the SD of the analyses in ppm, while the MQL is defined as 10 times the SD in ppm.

2.4 Application Model Verification

The Spectrace 9000 fundamental parameters model was verified by the analysis of a midconcentration standard, NIST #2711 (lead = 1,162 ppm) and a high-concentration standard, NIST #2710 (lead = 5,555 ppm), consecutive to the analysis of the NIST #2709 standards. The results of these standards are used to estimate the precision and accuracy of the Spectrace 9000.

2.5 XRF Confirmation by ICP

In order for the XRF data to qualify as QA-2 level data, at least 10% of the samples were sent to a laboratory for analysis by inductively coupled plasma emission spectrometry (ICPES). A

regression analysis of the ICPES and XRF data must yield a coefficient of determination, r², greater than 0.7 (ERT/EPA Quality Assurance Technical Bulletin on Field Portable X-ray Fluorescence, May 1991). The model obtained by the regression is used to validate or adjust the Spectrace 9000 results.

3.0 Quality Assurance/Quality Control

The following Quality Assurance (QA) protocols were used to insure the integrity of the data collected by the Spectrace 9000:

- 1. The use of chain of custody forms and field logs.
- 2. Daily instrument checks (Energy Calibration Check, Resolution Check, and Zero Check).
- 3. Initial and continuing analysis of NIST standards and a sand blank.
- 4. Field duplicate samples were collected and analyzed for at least 10% of the sample locations.
- 5. Replicate XRF analysis were obtained on at least 10% of the samples.
- 6. Confirmation of at least 10% of the samples by ICP.
- 7. Minimum MDL and MQL were calculated for all analytes of interest.

4.0 Results and Discussion

4.1 Sample Results

Table 1 contains a summary of the results of the site soil samples analyzed by XRF for lead. Including the replicate and duplicate samples, 380 samples were analyzed by XRF using prepared cup methods for the site. Concentrations ranged from non-detect to 93,700 ppm lead. All samples are identified by their grid location. All results are qualified with the following flags: J for data between the MDL and MQL, (92 - 277 ppm), and U for non-detect at 92 ppm.

4.2 NIST Results

Table 2 details the analysis of the NIST #2709 standard for Spectrace Model Q-044. MDL and MQL for Q-44 were 92 and 277 ppm, respectively. These MDL and MQL are consistent with previously obtained statistics for lead using XRF at the 15 second analysis time used.

Tables 4.1 and 4.2 detail the results of the non-consecutive analysis of standards NIST #2710 and NIST #2711. The NIST certified lead concentration in standard #2710 is 5,532 ppm. The average results for the XRF analysis was 4,565 ppm. For standard #2711, the NIST certified value for lead is 1,162 ppm. The average XRF results was 1,036 ppm. The lower results obtained by the XRF are as expected and are due to particle size effects. They are consistent with previous XRF results. Relative standard deviations ranged from 8.3% (NIST 2711) to 14.8% (NIST 2710) and are indicative of the precision of the XRF analysis.

4.3 Replicate and Duplicate Results

Table 3.2 contains a summary of the duplicate samples analyzed by the Spectrace. Thirty eight samples were analyzed in duplicate. As detailed in the table, the relative percent differences between samples and duplicates ranged from 1.6% to 43.4% for non-qualified (i.e., not flagged with "U" or "J" designations) samples. The duplicate samples were relatively homogenous and the sampling methods were consistent.

Table 3.1 contains a summary of the replicate samples analyzed by the Spectrace using XRF cup methods. Thirty eight samples were analyzed in replicate. As detailed in the table, the relative percent differences between the samples and duplicates ranged from 1.3% to 35.2% for non-qualified samples. These results are representative of the relative precision of the XRF analysis.

4.4 Application Model Verification

Table 5 details the results of the confirmation analysis. Thirty six samples were analyzed by Inductively Coupled Plasma Emission Spectroscopy (ICP) analysis. The results were subjected to a regression analysis to compare the XRF vs the ICP results.

The initial regression equation from the analysis included all of the data points (36 observations) and was as follows:

$$XRF = 0.5 ICP + 1547;$$
 $r^2 = 0.72$

Including all of the data in the regression equation skewed the regression line upward (y intercept $\neq 0$) and produced a low slope (0.5). Despite this, the coefficient of determination (r^2) was still acceptable (>.7). To improve the calculations, two data points were eliminated (A5 and B5). These two points were excessively high compared to the EPA action level (750 ppm) and the majority of the data points. Therefore, eliminating these two points would shift the focus of the regression line toward the majority of the data points.

The second regression equation from the analysis included all of the data points <40,000 ppm (leaving 34 observations) and was as follows:

$$XRF = 1.46 ICP + 145.74$$
 $r^2 = 0.82$

The y intercept and coefficient of determination (r^2) are improved. If, however, all of the XRF data points >4,000 ppm are eliminated (leaving 30 observations), the following regression equation is generated:

$$XRF = 1.15 ICP - 15.17$$
; $r^2 = 0.85$

The slope, y intercept and coefficient of determination (r²) of this final regression equation are dramatically improved when compared to the initial equation. The y intercept is very close to 0 (-15), the slope is closer to 1 (1.15) and the coefficient of determination (r²) is greater than 0.7 (0.85). While the data for all of the models qualifies as QA-2 data, eliminating the six data points allows the regression equation to focus on the data that is closest to the EPA removal action level of 750 ppm and provides a more accurate depiction of the application model. The figure in Table 5 illustrates the final regression model for the data (<4000ppm).

5.0 Conclusions

Samples collected from various grid points at the Electruk Battery site were sampled and screened for lead by XRF using prepared cup methods. Concentrations ranged from non-detect at a MDL of 92 ppm to 93,700 ppm. Figure 1 details the results on a grid map A total of 380 samples were screened and analyzed, including replicate and duplicates the month long project. All of the data satisfied QA-2 level criteria as confirmed by ICP analysis.

The data generated from this sampling event illustrated that the majority of the contamination was located within 20 feet of the facility, specifically along the concrete pad on the north side of the facility. Significant contamination was also found in the soil adjacent to the north side of the

facility, in the parking lot on the northeast side of the facility, in the area surrounding the lead oxide silo on the south side of the facility, and in a debris pile (sample M7) located on the north side of the facility. A drainage ditch (Transects 8, 9, 10) which ran parallel to the north side of the facility was also examined. The slope of the ditch started about 83 feet north of the facility. Samples were collected from each side of the ditch and from the trough. Only one sample (A9) exceeded the EPA removal action level.

Once the initial six inches were excavated from the contaminated areas, post excavation samples were collected and analyzed. This process continued until lead levels in the soil fell below 750 ppm for all of the areas of concern. The areas that required the deepest excavation included:

- Soil along the northeast edge of the concrete pad A5, D4 (12"below grade) and A7 (15" below grade);
- Soil along west end of the concrete pad I1, J1 (12" below grade);
- •Soil surrounding the silo R1, T1, V0 (12" below grade);
- Soil beneath the "southwest" gutter drain (12" below grade); and
- •The parking lot AA4, CC3, DD3 (12" below grade)

Several surficial (0-6") soil samples were collected which were not 'located on the sample grid. None of the samples exceeded the EPA removal action level:

- Six background samples (Bck 1-6) were collected along the east and southeast sides of the facility;
- Five samples were collected from the soil berm located on the west side of the property (Test 1-5);
- •Five samples were collected from the soil stockpile located on the adjacent (west) property (Test 6-10). This soil was used as clean-fill for the excavated areas; and
- •One sample was collected from beneath the trailer parked at the loading dock located on the east side of the facility (Trailer 1);

Several surficial (0-6") soil samples were collected beneath the three drainage gutters located on the south side of the facility (SouthWest, SouthCentral, and SouthEast). All three areas required excavation.

FIGURE 1:

SOIL CONTAMINATION LEVELS (LEAD) 0-6"

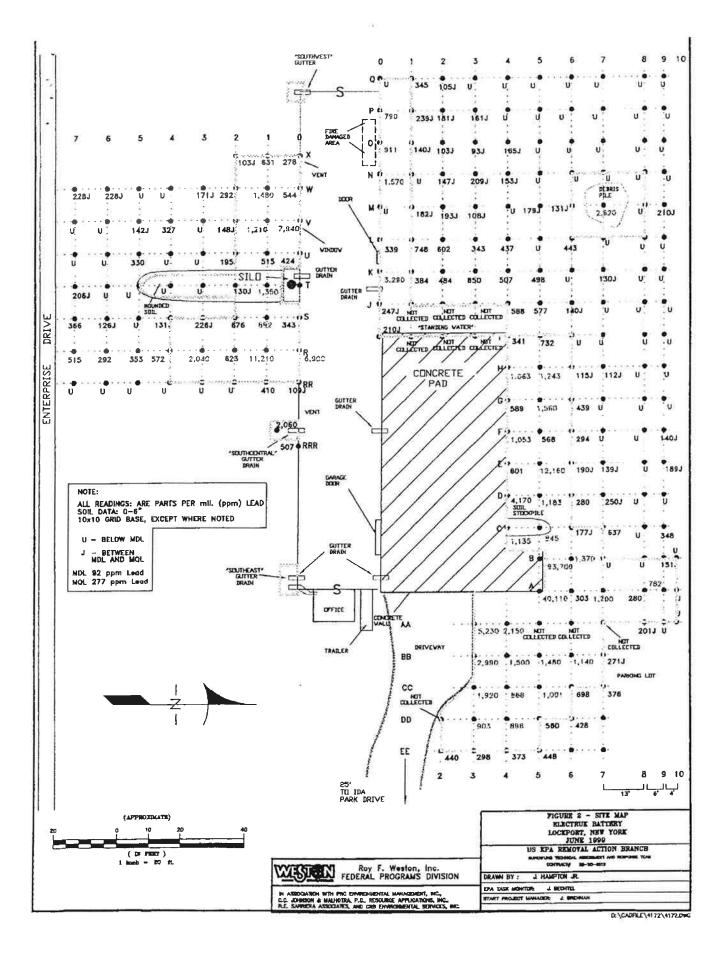


TABLE 2:

XRF ANALYSIS OF THE LOW NIST STANDARD NIST 2709

SAMPLE ID		DATE	LEAD
"TRAILOR1"	0-6"	06/07/99	121J
"TEST1"	0-6"	06/02/99	150J
"TEST2"	0-6"	06/02/99	U
"TEST3"	0-6"	06/02/99	130J
"TEST4"	0-6"	06/02/99	U
"TEST5"	0-6"	06/02/99	U
"TEST6"	0-6"	06/10/99	U
"TEST7"	0-6"	06/10/99	U
"TEST8"	0-6"	06/10/99	U'
"TEST9"	0-6"	06/10/99	U
"TEST10"	0-6"	06/10/99	U

J- estimated, between detection limit and quantitation limit U- below detection limit

TABLE 1 XRF RESULTS

SAMPLE	D	DATE	LEAD
"BB5"	6-12"	06/09/99	258J
"BB6"	0-6"	06/08/99	1140
"BB6"	6-12"	06/09/99	113J
"BB7"	0-6"	06/08/99	271J
"BB7DUP"	0-6"	06/08/99	203J
"BB7REP"	0-6"	06/08/99	221J
"CC3"	0-6"	06/08/99	1920
"CC3"	6-12"	06/09/99	2130
"CC3"	9-12"	06/09/99	1180
"CC4"	0-6"	06/08/99	868
"CC4"	6-12"	06/09/99	408
"CC5"	0-6"	06/08/99	1000
"CC5"	6-12"	06/09/99	247J
"CC5DUP"	6-12"	06/09/99	142J
"CC5REP"	6-12"	06/09/99	112J
"CC6"	0-6"	06/08/99	698
"CC7"	0-6"	06/08/99	376
"DD2"	9-12"	06/09/99	852
"DD2DUP"	9-12"	06/09/99	881
"DD2REP"	9-12"	06/09/99	952
"DD3"	0-6"	06/08/99	903
"DD3"	6-12"	06/09/99	754
"DD3"	9-12"	06/09/99	1070
"DD4"	0-6"	06/08/99	896
'DD4"	6-12"	06/09/99	358
'DD5"	0-6"	06/08/99	560
'DD6"	0-6"	06/08/99	428
'EE2"	0-6"	06/08/99	440
'EE2DUP"	0-6"	06/08/99	390
'EE2REP"	0-6"	06/08/99	334
'EE3"	0-6"	06/08/99	298
'EE4"	0-6"	06/08/99	373
'EE5"	0-6"	06/08/99	448
'BCK1"	0-6"	06/09/99	U
'BCK2"	0-6"	06/09/99	U
BCK3"	0-6"	06/09/99	U
BCK3DUP"	0-6"	06/09/99	U
BCK3REP"	0-6"	06/09/99	U
BCK4"	0-6"	06/09/99	U
BCK5"	0-6"	06/09/99	U

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SAMPLE ID		DATE	LEAD
"W1"	0-6"	05/27/99	1480
"W1"	6-12"	06/08/99	291
"W2"	0-6"	05/27/99	292
"W3"	0-6"	05/27/99	171J
"W4"	0-6"	05/27/99	U
"W5"	0-6"	05/27/99	U
"W6"	0-6"	05/27/99	228J
"W7"	0-6"	05/27/99	228J
"X0"	0-6"	05/27/99	278
"X1"	0-6"	05/27/99	631
"X2"	0-6"	05/27/99	103J
"SCDRAIN"	6-12"	06/10/99	568
"SEDRAIN"	6-12"	06/10/99	224J
"SEDRAINDUP"	6-12"	06/10/99	256J
"SEDRAINREP"	6-12"	06/10/99	316
"SWDRAIN"	12-15"	06/10/99	637
"SWDRAIN"	6-12"	06/10/99	8940
"DRAINO"	0-6"	05/27/99	2060
"AA3"	0-6"	06/08/99	5230
"AA3"	6-12"	06/09/99	U
"AA4"	0-6"	06/08/99	2150
"AA4"	6-12"	06/09/99	2050
"AA4"	9-12"	06/09/99	1040
'AA4"	12"	06/09/99	853
'AA4"	12-15"	06/09/99	U
'AA5"	0-6"	06/08/99	2190
'AA5"	9-12"	06/09/99	495
'AA6"	6-12"	06/08/99	449
'AA6DUP"	6-12"	06/08/99	506
'AA6REP"	6-12"	06/08/99	502
'AA7"	6-12"	06/08/99	715
'AA8"	0-6"	06/02/99	201J
'AA9"	0-6"	06/02/99	U
'AA10"	0-6"	06/02/99	Ú
'AA10DUP"	0-6"	06/02/99	U
'AA10REP"	0-6"	06/02/99	U
'BB3"	0-6"	06/08/99	2990
'BB3"	6-12"	06/09/99	337
'BB4"	0-6"	06/08/99	1510
'BB4"	6-12"	06/09/99	655
'BB5"	0-6"	06/08/99	1480

SAMPLE ID		DATE	LEAD
"S4"	0-6"	05/25/99	131J
"S5"	0-6"	05/25/99	U
"S6"	0-6"	05/25/99	124J
"S7"	0-6"	05/25/99	366
"T1"	0-6"	05/25/99	1350
"T1DUP"	0-6"	05/25/99	1380
"T1REP"	0-6"	05/25/99	1270
"T1"	6-12"	06/08/99	2900
'T1"	12-15"	06/08/99	U
"T2"	0-6"	05/25/99	130J
"T3"	0-6"	05/25/99	U
"T4"	0-6"	05/25/99	U
"T5"	0-6"	05/25/99	U
"T6"	0-6"	05/25/99	U
"17"	0-6"	05/25/99	206J
"U0"	0-6"	05/25/99	424
"U0DUP"	0-6"	05/25/99	386
"U0REP"	0-6"	05/25/99	341
"U1"	0-6"	05/25/99	515
"U2"	0-6"	05/25/99	195J
"U3"	0-6"	05/25/99	U
"U4"	0-6"	05/25/99	U
"U5"	0-6"	05/25/99	330
"U6"	0-6"	05/25/99	U
'U7"	0-6"	05/25/99	U
'V0"	0-6"	05/25/99	7940
"V0DUP"	0-6"	05/25/99	7010
'VOREP"	0-6"	05/25/99	7580
' V0''	6-12"	06/08/99	3280
'V0"	12-15"	06/08/99	259J
'V1"	0-6"	05/27/99	1220
'V1"	6-12"	06/08/99	U
'V2"	0-6"	05/27/99	148J
'V3''	0-6"	05/27/99	U
'V4"	0-6"	05/27/99	327
'V5"	0-6"	05/27/99	142J
'V6"	0-6"	05/27/99	U
'V7"	0-6"	05/27/99	285
'W0"	0-6"	05/27/99	624
WODUP"	0-6"	05/27/99	716
WOREP"	0-6"	05/27/99	544

TABLE 1 XRF RESULTS

SAMPLE II		DATE	LEAD
"Q8"	0-6 ^M	05/27/99	U
"Q9"	0-6"	05/27/99	U
"R0"	0-6"	05/25/99	6900
"RODUP"	0-6"	05/25/99	7110
"ROREP"	0-6"	05/25/99	6670
"R0"	6-12"	06/08/99	126J
"R1"	0-6"	05/25/99	11210
"R1"	6-12"	06/08/99	837
"R1"	12-15"	06/08/99	132J
"R1DUP"	12-15"	06/08/99	U
"R1REP"	12-15"	06/08/99	211J
"R2"	0-6"	05/25/99	623
"R3"	0-6"	05/25/99	2040
"R3"	6-12"	06/08/99	U
"R4"	0-6"	05/25/99	572
"R5"	0-6"	05/25/99	353
"R6"	0-6"	05/25/99	292
"R7"	0-6"	05/25/99	515
"RR0"	0-6"	05/27/99	109J
"RR0DUP"	0-6"	05/27/99	183J
"RR0REP"	0-6"	05/27/99	U
"RR1"	0-6"	05/27/99	410
"RR2"	0-6"	05/27/99	U
"RR3"	0-6"	05/27/99	U
"RR4"	0-6"	05/27/99	U
"RR5"	0-6"	05/27/99	U
"RR6"	0-6"	05/27/99	U
"RR7"	0-6"	05/27/99	U
"RRR0"	0-6"	05/27/99	507
"RRRR0"	0-6"	05/27/99	264J
"RRRRODUP"	0-6"	05/27/99	306
"RRRROREP"	0-6"	05/27/99	252J
"S0"	0-6"	05/25/99	343
"SODUP"	0-6"	05/25/99	228J
"SOREP"	0-6"	05/25/99	259J
"S1"	0-6"	05/25/99	892
"S1DUP"	6-12"	06/08/99	207J
"S1REP"	6-12"	06/08/99	163J
"S1"	6-12"	06/08/99	117J
"S2"	0-6"	05/25/99	676
"S3"	0-6"	05/25/99	226J

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SAMPLE	ID	DATE	LEAD
"N9"	0-6"	05/27/99	U
"O0"	0-6"	05/25/99	911
"OODUP"	0-6"	05/25/99	717
"OOREP"	0-6"	05/25/99	863
"O0"	6-12"	06/07/99	U
"01"	0-6"	05/25/99	140J
"02"	0-6"	05/25/99	103J
"O3"	0-6"	05/25/99	93J
"O4" s	0-6"	05/25/99	165
"O5"	0-6"	05/25/99	U
"O6"	0-6"	05/25/99	U
"07"	0-6"	05/25/99	U
"O8"	0-6"	05/27/99	U
"O9"	0-6"	05/27/99	U
"P0"	0-6"	05/25/99	790
"P0DUP"	0-6"	05/25/99	685
"POREP"	0-6"	05/25/99	924
"P0"	6-12"	06/07/99	196J
"P1"	0-6"	05/25/99	239J
"P2"	0-6"	05/25/99	181J
"P3"	0-6"	05/25/99	161J
"P4"	0-6"	05/25/99	U
"P5"	0-6"	05/25/99	U
"P6"	0-6"	05/25/99	U
"P7"	0-6"	05/25/99	U
"P8"	0-6"	05/27/99	U
"P9"	0-6"	05/27/99	U
"P9DUP"	0-6"	05/27/99	U
"P9REP"	0-6"	05/27/99	U
"Q0"	0-6"	05/27/99	U
"Q0DUP"	0-6"	05/27/99	93J
"QOREP"	0-6"	05/27/99	101J
"Q1"	0-6"	05/27/99	345
"Q2"	0-6"	05/27/99	105J
"Q3"	0-6"	05/27/99	U
"Q4"	0-6"	05/27/99	U
"Q5"	0-6"	05/27/99	U
"Q6"	0-6"	05/27/99	U
"Q7"	0-6"	05/27/99	U
"Q7DUP"	0-6"	05/27/99	U
"Q7REP"	0-6"	05/27/99	Ų

SAMPLE ID		DATE	LEAD
"LO"	0-6"	05/25/99	339
"LODUP"	0-6"	05/25/99	302
"LOREP"	0-6"	05/25/99	484
"L1"	0-6"	05/25/99	748
"L2"	0-6"	05/25/99	602
"L3"	0-6"	05/25/99	343
"L4"	0-6"	05/25/99	437
"L5"	0-6"	05/25/99	U
"L6"	0-6"	05/25/99	443
"L7"	0-6"	05/25/99	U
"L8"	0-6"	05/27/99	U
"L9"	0-6"	05/27/99	U
"L9DUP"	0-6"	05/27/99	U
"L9REP"	0-6"	05/27/99	118J
"L9REPREP"	0-6"	05/27/99	U
"MO"	0-6"	05/25/99	452
"MODUP"	0-6"	05/25/99	375
"MOREP"	0-6"	05/25/99	385
"MOREPREP"	0-6"	05/25/99	501
"M1"	0-6"	05/25/99	182J
"M2"	0-6"	05/25/99	193J
"M3"	0-6"	05/25/99	108J
"M4"	0-6"	05/25/99	U
"M5"	0-6"	05/25/99	179J
"M6"	0-6"	05/25/99	131J
"M7"	0-6"	05/25/99	2620
"M7"	6-12"	06/07/99	135J
"M8"	0-6"	05/27/99	U
"M9"	0-6"	05/27/99	210J
"N0"	0-6"	05/25/99	1570
"NODUP"	0-6"	05/25/99	1010
"NOREP"	0-6"	05/25/99	1190
"NO"	6-12"	06/07/99	U
"N1"	0-6"	05/25/99	U
"N2"	0-6"	05/25/99	147J
"N3"	0-6"	05/25/99	209J
"N4"	0-6"	05/25/99	153J
"N5"	0-6"	05/25/99	U
"N6"	0-6"	05/25/99	U
"N7"	0-6"	05/25/99	U
'N8"	0-6"	05/27/99	U

SAMPLE	ID	DATE	LEAD
"H7"	0-6"	05/25/99	112J
"H8"	0-6"	05/27/99	U
"H9"	0-6"	05/27/99	U
"H9DUP"	0-6"	05/27/99	211J
"H9REP"	0-6"	05/27/99	94J
"10"	0-6"	05/25/99	210J
"[1"	6-12"	06/07/99	5420
11177	12-15"	06/08/99	112J
"12"	6-12"	06/07/99	U
"13"	6-12"	06/07/99	111J
"I3DUP"	6-12"	06/07/99	143J
"I3REP"	6-12"	06/07/99	U
" 4"	0-6"	05/25/99	341
"15"	0-6"	05/25/99	732
"16"	0-6"	05/25/99	U
"I6DUP"	0-6"	05/25/99	U
"I6REP"	0-6"	05/25/99	Ü
"17"	0-6"	05/25/99	U
"18"	0-6"	05/27/99	U
"19"	0-6"	05/27/99	U
"J0"	0-6"	05/25/99	247J
"J1"	12-15"	06/08/99	175J
'J4"	0-6"	05/25/99	588
'J5"	0-6"	05/25/99	577
'J6"	0-6"	05/25/99	140J
'J7"	0-6"	05/25/99	Ű
'J8"	0-6"	05/27/99	U
'J9"	0-6"	05/27/99	U
'K0"	0-6"	05/25/99	3290
'K0"	6-12"	06/07/99	707
'K1"	0-6"	05/25/99	384
'K1DUP"	0-6"	05/25/99	280
'K1REP"	0-6"	05/25/99	432
'K2"	0-6"	05/25/99	484
'K3"	0-6"	05/25/99	650
'K4"	0-6"	05/25/99	507
'K5"	0-6"	05/25/99	498
'K6"	0-6"	05/25/99	U
'K7"	0-6"	05/25/99	131J
'K8"	0-6"	05/27/99	U
'K9"	0-6"	05/27/99	U

SAMPLE ID		DATE	LEAD
"D9"	0-6"	05/27/99	U
"D9DUP"	0-6"	05/27/99	U
"D9REP"	0-6"	05/27/99	U
"E4"	0-6"	05/25/99	601
"E5"	0-6"	05/25/99	12200
"E5DUP"	0-6"	05/25/99	12400
"E5REP"	0-6"	05/25/99	11900
"E5"	6-12"	06/03/99	U
"E6"	0-6"	05/25/99	190J
"E7"	0-6"	05/25/99	139J
"E8"	0-6"	05/27/99	U
"E9"	0-6"	05/27/99	189J
"F4"	0-6"	05/25/99	1053
"F4"	6-12"	06/05/99	U
"F5"	0-6"	05/25/99	568
"F6"	0-6"	05/25/99	294
"F7"	0-6"	05/25/99	U
"F8"	0-6"	05/27/99	U
"F9"	0-6"	05/27/99	140J
"G4"	0-6"	05/25/99	589
"G5"	0-6"	05/25/99	1560
"G5"	6-12"	06/03/99	U
"G6"	0-6"	05/25/99	439
"G7"	0-6"	05/25/99	U
"G7DUP"	0-6"	05/25/99	U
"G7REP"	0-6"	05/25/99	Ú
'G8"	0-6"	05/27/99	U
'G9"	0-6"	05/27/99	U
'H4"	0-6"	05/25/99	1060
"H4INTER"	0-6"	06/07/99	U
"H4INTERDUP"	0-6"	06/07/99	U
'H4INTERREP"	0-6"	06/07/99	122J
'H4"	6-12"	06/05/99	1050
'H4DUP"	6-12"	06/05/99	1200
'H4REP"	6-12"	06/05/99	1210
'H4"	12-15"	06/07/99	U
'H5"	0-6"	05/25/99	1240
'H5"	6-12"	06/03/99	U
'H5DUP"	6-12"	06/03/99	U
'H5REP"	6-12"	06/03/99	U
'H6"	0-6"	05/25/99	115J

SAMPLE II	D	DATE	LEAD
"A5"	0-6"	05/25/99	40100
"A5INTER"	0-6"	06/07/99	U
"A5"	6-12"	06/05/99	2890
"A5"	12-15"	06/07/99	Ų
"A6"	0-6"	05/25/99	303
"A7"	0-6"	05/25/99	1700
"A7"	6-12"	06/05/99	969
"A7"	12-15"	06/07/99	862
"A7"	15-18"	06/07/99	U «
"A8"	0-6"	05/27/99	280
"A9"	0-6"	05/27/99	782
"A9"	6-12"	06/05/99	Ü
"A10"	0-6"	05/27/99	U
"B5"	0-6"	05/25/99	93700
"B5"	6-12"	06/05/99	273J
"B6"	0-6"	05/25/99	1370
"B6"	6-12"	06/05/99	U
"B7"	0-6"	05/25/99	U
"B8"	0-6"	05/27/99	U
"B9"	0-6"	05/27/99	151J
"B10"	0-6"	05/27/99	U
"C4"	0-6"	05/25/99	1140
"C4"	6-12"	06/05/99	228J
"C5"	0-6"	05/25/99	845
"C5DUP"	0-6"	05/25/99	1010
"C5REP"	0-6"	05/25/99	1140
"C5REPREP"	0-6"	05/25/99	1160
"C5"	6-12"	06/05/99	Ü
"C6"	0-6"	05/25/99	177J
"C7"	0-6"	05/25/99	637
"C8"	0-6"	05/27/99	U
"C9"	0-6"	05/27/99	348
"D4"	0-6"	05/25/99	4170
"D4INTER"	0-6"	06/07/99	115J
"D4"	6-12"	06/05/99	3110
"D4"	12-15"	06/07/99	410
"D5"	0-6"	05/25/99	1180
"D5"	6-12"	06/03/99	308
"D6"	0-6"	05/25/99	280
"D7"	0-6"	05/25/99	250J
'D8"	0-6"	05/27/99	U

TABLE 1: XRF ANALYSIS OF ELECTRUK BATTERY SAMPLES FOR LEAD

TABLE 2 XRF ANALYSIS OF THE LOW NIST STANDARD (NIST 2709) (RAW DATA)

ID	DATE	LEAD
"2709"	05/25/99	-25
"2709"	05/25/99	-76
"2709"	05/25/99	10
"2709"	05/25/99	-20
"2709"	05/25/99	-6
"2709"	05/25/99	-14
"2709"	05/25/99	-63
"2709"	05/25/99	-31
"2709"	05/25/99	-59
"2709"	05/25/99	-7
"2709"	05/25/99	4
"2709"	05/25/99	31
"2709"	05/25/99	2
"2709"	05/25/99	10
"2709"	05/25/99	8
"2709"	05/25/99	-24
"2709"	05/25/99	68
"2709"	05/27/99	-5
"2709"	05/27/99	33
"2709"	05/27/99	-16
"2709"	05/27/99	24
"2709"	05/27/99	7
"2709"	05/27/99	54
"2709"	05/27/99	-23
"2709"	05/27/99	38
"2709"	05/27/99	-2
"2709"	05/27/99	6
"2709"	06/02/99	-12
"2709"	06/02/99	18
"2709"	06/03/99	48
"2709"	06/03/99	-25
"2709"	06/05/99	-22
"2709"	06/05/99	19
"2709"	06/05/99	-1
"2709"	06/07/99	-8.5
"2709"	06/07/99	5
"2709"	06/07/99	-38
"2709"	06/07/99	67
"2709"	06/07/99	-2
"2709"	06/08/99	5

TABLE 2 XRF ANALYSIS OF THE LOW NIST STANDARD (NIST 2709) (RAW DATA)

ID	DATE	LEAD
"2709"	06/08/99	-28
"2709"	06/08/99	16
"2709"	06/08/99	63
"2709"	06/08/99	-4.9
"2709"	06/08/99	34
"2709"	06/09/99	-25
"2709"	06/09/99	-48
"2709"	06/09/99	3
"2709"	06/09/99	-6
"2709"	06/09/99	30
"2709"	06/10/99	29
2709"	06/10/99	39

AVERAGE: 1.97

STD: 30.8 **MDL:** 92.3

MQL: 277

NIST VALUE: 18.9

TABLE 3.1:

COMPARISON OF REPLICATE SAMPLES

TABLE 3.1 COMPARISON OF REPLICATE SAMPLES

SAMPLE ID		DATE	LEAD	RPD*
"C5"	0-6"	05/25/99	845	19.4
"C5REP"	0-6"	05/25/99	1140	8.7
"C5REPREP"	0-6"	05/25/99	1160	10.6
"D9"	0-6"	05/27/99	U	-
"D9REP"	0-6"	05/27/99	U	-
"E5"	0-6"	05/25/99	12200	
"E5REP"	0-6"	05/25/99	11900	2.5
"G7"	0-6"	05/25/99	U	-
"G7REP"	0-6"	05/25/99	U	
"H4INTER"	0-6"	06/07/99	U	-
"H4INTERREP"	0-6"	06/07/99	122J	-
"H4"	6-12"	06/05/99	1050	
"H4REP"	6-12"	06/05/99	1210	14.2
"H5"	6-12"	06/03/99	U	
"H5REP"	6-12"	06/03/99	Ü	-
"H9"	0-6"	05/27/99	U	
"H9REP"	0-6"	05/27/99	94J	-
" 3"	6-12"	06/07/99	111J	-
"I3REP"	6-12"	06/07/99	U	
"16"	0-6"	05/25/99	U	_
"16REP"	0-6"	05/25/99	U	-
"K1"	0-6"	05/25/99	384	
"K1REP"	0-6"	05/25/99	432	11.8
"L0"	0-6"	05/25/99	339	
"LOREP"	0-6"	05/25/99	484	35.2
"L9"	0-6"	05/27/99	U	-
"L9REP"	0-6"	05/27/99	118J	-
"L9REPREP"	0-6"	05/27/99	U	-

TABLE 3.1 COMPARISON OF REPLICATE SAMPLES

SAMPLE II)	DATE	LEAD	RPD*
"MO"	0-6"	05/25/99	452	1.3
"MOREP"	0-6"	05/25/99	385	13.7
"MOREPREP"	0-6"	05/25/99	501	12.4
"N0"	0-6"	05/25/99	1570	
"NOREP"	0-6"	05/25/99	1190	27.5
"O0"	0-6"	05/25/99	911	
"OOREP"	0-6"	05/25/99	863	5.4
"P0"	0-6"	05/25/99	790	-
"POREP"	0-6"	05/25/99	924	15.6
"P9"	0-6"	05/27/99	U	
"P9REP"	0-6"	05/27/99	U	
"Q0"	0-6"	05/27/99	Ü	-
"QOREP"	0-6"	05/27/99	101J	
"Q7"	0-6"	05/27/99	U	
"Q7REP"	0-6"	05/27/99	Ú	-
"R0"	0-6"	05/25/99	6900	
"ROREP"	0-6"	05/25/99	6670 3.4	304
"R1"	12-15"	06/08/99	132J	
"R1REP"	12-15"	06/08/99	211J	46.2
"RR0"	0-6"	05/27/99	109J	-
"RROREP"	0-6"	05/27/99	U	
"RRRRO"	0-6"	05/27/99	264J	
"RRRROREP"	0-6"	05/27/99	252J	4.7
"S0"	0-6"	05/25/99	343	
"SOREP"	0-6"	05/25/99	259J	28.1
"S1"	6-12"	06/08/99	117J	
"S1REP"	6-12"	06/08/99	163	33.1

B

TABLE 3.1 COMPARISON OF REPLICATE SAMPLES

SAMPLE II)	DATE	LEAD	RPD*
"T1"	0-6"	05/25/99	1350	
"T1REP"	0-6"	05/25/99	1270	6.1
"U0"	0-6"	05/25/99	424	
"UOREP"	0-6"	05/25/99	341	21.5
"V0"	0-6"	05/25/99	7940	1
"VOREP"	0-6"	05/25/99	7580	4.6
"W0"	0-6"	05/27/99	624	
"WOREP"	0-6"	05/27/99	544	13.6
"SEDRAIN"	6-12"	06/10/99	224J	
"SEDRAINREP"	" 6-12"	06/10/99	316	34.4
"AA6"	6-12"	06/08/99	449	
"AA6REP"	6-12"	06/08/99	502	11.1
"AA10"	0-6"	06/02/99	U	-
"AA10REP"	0-6"	06/02/99	Ű	-
"BB7"	0-6"	06/08/99	271J	
"BB7REP"	0-6"	06/08/99	221J	20.4
"CC5"	6-12"	06/09/99	247J	
"CC5REP"	6-12"	06/09/99	112J	75
"DD2"	9-12"	06/09/99	852	
"DD2REP"	9-12"	06/09/99	952	11.1
"EE2"	0-6"	06/08/99	440	
"EE2REP"	0-6"	06/08/99	334	27.4
'BCK3"	0-6"	06/09/99	U	-
"BCK3REP"	0-6"	06/09/99	Ų	

J- estimated, between detection limit and quantitation limit

U- below detection limit

TABLE 3.2:

COMPARISON OF DUPLICATE SAMPLES

TABLE 3.2 COMPARISON OF DUPLICATE DATA

SAMPLE ID		DATE	LEAD	RPD*
"C5"	0-6"	05/25/99	845	
"C5DUP"	0-6"	05/25/99	1010	17.8
"D9"	0-6"	05/27/99	U	
"D9DUP"	0-6"	05/27/99	U	<u> </u>
"E5"	0-6"	05/25/99	12200	
"E5DUP"	0-6"	05/25/99	12400	1.6
"G7"	0-6"	05/25/99	Ü	-
"G7DUP"	0-6"	05/25/99	Ū	
"H4INTER"	0-6"	06/07/99	Ü	-
"H4INTERDUP"	0-6"	06/07/99	Ü	-
"H4"	6-12"	06/05/99	1050	
"H4DUP"	6-12"	06/05/99	1200	13.3
"H5"	6-12"	06/03/99	U	_
"H5DUP"	6-12"	06/03/99	Ü	
"H9"	0-6"	05/27/99	U	
"H9DUP"	0-6"	05/27/99	211J	-
"[3"	6-12"	06/07/99	111J	
"I3DUP"	6-12"	06/07/99	143J	25
" 6"	0-6"	05/25/99	U	
"I6DUP"	0-6"	05/25/99	Ū	-
"K1"	0-6"	05/25/99	384	
"K1DUP"	0-6"	05/25/99	280	31.5
"L0"	0-6"	05/25/99	339	
"LODUP"	0-6"	05/25/99	302	11.5
"L9"	0-6"	05/27/99	U	-
L9DUP"	0-6"	05/27/99	U	
'M0"	0-6"	05/25/99	452	
'MODUP"	0-6"	05/25/99	375	18.5

TABLE 3.2 COMPARISON OF DUPLICATE DATA

SAMPLE	D	DATE	LEAD	RPD*
"NO"	0-6"	05/25/99	1570	
"NODUP"	0-6"	05/25/99	1010	43.4
		0.510.510.0		
"O0"	0-6"	05/25/99	911	20.0
"OODUP"	0-6"	05/25/99	717	23.9
"P0"	0-6"	05/25/99	790	
"PODUP"	0-6"	05/25/99	685	14.2
"DO!	0-6"	05/27/99	U	
"P9"				
"P9DUP"	0-6"	05/27/99	U	
"Q0"	0-6"	05/27/99	U	-
"Q0DUP"	0-6"	05/27/99	93J	
110311	0.011	05/07/00		
"Q7"	0-6"	05/27/99	U	
"Q7DUP"	0-6"	05/27/99	U	-
"R0"	0-6"	05/25/99	6900	
"RODUP"	0-6"	05/25/99	7110	3
"R1"	12-15"	06/08/99	132J	-
"R1DUP"	12-15"	06/08/99	U	-
KIDOI		00,00,00		
"RR0"	0-6"	05/27/99	109J	
"RRODUP"	0-6"	05/27/99	183J	50.2
"RRRRO"	0-6"	05/27/99	264J	
"RRRRODUP"	0-6"	05/27/99	306	14.5
KKKKODOF	0-0	GGIZITOO	- 000	14.0
"S0"	0-6"	05/25/99	343	
"S0DUP"	0-6"	05/25/99	228J	40.3
'S1"	6-12"	06/08/99	117J	
'S1DUP"	6-12"	06/08/99	207J	55.6
OIDOI	0-12	30/00/00	2010	50.5
'T1"	0-6"	05/25/99	1350	
T1DUP"	0-6"	05/25/99	1380	2.2
'U0"	0-6"	05/25/99	424	
				0.2
U0DUP"	0-6"	05/25/99	386	9.3

TABLE 3.2 COMPARISON OF DUPLICATE DATA

SAMPLE ID		DATE	LEAD	RPD*
			4.00	
"V0"	0-6"	05/25/99	7940	
"V0DUP"	0-6"	05/25/99	7010	12.4
"W0"	0-6"	05/27/99	624	
"W0DUP"	0-6"	05/27/99	716	13.7
"SEDRAIN"	6-12"	06/10/99	224J	
"SEDRAINDUP"	6-12"	06/10/99	256J	13.4
"AA6"	6-12"	06/08/99	449	
"AA6DUP"	6-12"	06/08/99	506	11.9
"AA10"	0-6"	06/02/99	U	
"AA10DUP"	0-6"	06/02/99	Ü	-
"BB7"	0-6"	06/08/99	271J	
"BB7DUP"	0-6"	06/08/99	203J	28.7
"CC5"	6-12"	06/09/99	247J	
"CC5DUP"	6-12"	06/09/99	142J	54.2
"DD2"	9-12"	06/09/99	852	
"DD2DUP"	9-12"	06/09/99	881	3.4
"EE2"	0-6"	06/08/99	440	
"EE2DUP"	0-6"	06/08/99	390	12
"BCK3"	0-6"	06/09/99	U	-
"BCK3DUP"	0-6"	06/09/99	Ü	•

J- estimated, between detection limit and quantitation limit

U- below detection limit

TABLE 4.1:

APPLICATION MODEL VERIFICATION NIST 2710

TABLE 4.1 APPLICATION MODEL VERIFICATION (NIST 2710) (RAW DATA)

ID	DATE	LEAD
"2710"	05/25/99	4552
"2710"	05/25/99	4669
"2710"	05/25/99	4353
"2710"	05/25/99	4363
"2710"	05/25/99	4769
"2710"	05/25/99	4764
"2710"		4767
"2710"	05/25/99	4476
"2710"	05/25/99	4600
"2710"	05/25/99	4470
"2710"	05/25/99	4458
"2710"	05/25/99	4506
"2710"	05/25/99	4782
"2710"	05/25/99	4716
"2710"	05/25/99	4639
"2710"	05/25/99	4562
"2710"	05/27/99	4794
"2710"	05/27/99	4951
"2710"	05/27/99	4665
"2710"	05/27/99	4324
"2710"	05/27/99	4897
"2710"	05/27/99	4370
"2710"	05/27/99	4426
"2710"	05/27/99	4974
"2710"	05/27/99	4576
"2710"	05/27/99	4986
"2710"	06/02/99	4644
"2710"	06/02/99	4235
"2710"	06/03/99	4765
"2710"	06/03/99	4782
"2710"	06/05/99	4329
"2710"	06/05/99	4722
"2710"	06/05/99	4726
"2710"	06/07/99	4456
"2710"	06/07/99	4754
"2710"	06/07/99	4667
"2710"	06/07/99	4824
"2710"	06/07/99	4921
"2710"	06/08/99	4230
"2710"	06/08/99	5065

TABLE 4.1 APPLICATION MODEL VERIFICATION (NIST 2710) (RAW DATA)

ID	DATE	LEAD
"2710"	06/08/99	4944
"2710"	06/08/99	4698
"2710"	06/08/99	4708
"2710"	06/08/99	5015
"2710"	06/09/99	4400
"2710"	06/09/99	4718
"2710"	06/09/99	4589
"2710"	06/09/99	4369
"2710"	06/09/99	4756
"2710"	06/10/99	39
"2710"	06/10/99	4845
"2710"	06/10/99	4760

AVERAGE: 4565

STD: 674

RSD(%): 14.8 **NIST VALUE:** 5532

RPD(%): 17.5

TABLE 4.2:

APPLICATION MODEL VERIFICATION NIST 2711

TABLE 4.2 APPLICATION MODEL VERIFICATION (NIST 2711) (RAW DATA)

ID	DATE	LEAD
"2711"	05/25/99	1174
"2711"	06/05/99	1036
"2711"	06/09/99	1077
"2711"	06/02/99	937
"2711"	06/09/99	1047
"2711"	05/25/99	923
"2711"	05/25/99	1003
"2711"	05/27/99	1124
"2711"	06/09/99	917
"2711"	06/05/99	938
"2711"	05/25/99	953
"2711"	06/10/99	1010
"2711"	06/05/99	1039
"2711"	05/25/99	1119
"2711"	05/25/99	1066
"2711"	06/03/99	1013
"2711"	06/10/99	1162
"2711"	06/09/99	1234
"2711"	05/27/99	1105
"2711"	06/02/99	997
"2711"	06/08/99	1218
"2711"	06/07/99	911
"2711"	05/27/99	936
"2711"	06/08/99	1009
"2711"	05/27/99	945
"2711"	06/07/99	892
"2711"	05/27/99	1095
"2711"	06/07/99	911
"2711"	06/08/99	1071
"2711"	05/27/99	1137
"2711"	06/09/99	1049
"2711"	06/08/99	949
"2711"	06/07/99	953
"2711"	06/07/99	886
"2711"	06/08/99	975
"2711"	05/27/99	1033
"2711"	06/08/99	1154
"2711"	05/27/99	1058
"2711"	05/27/99	1102
"2711"	06/03/99	1101

TABLE 4.2 APPLICATION MODEL VERIFICATION (NIST 2711) (RAW DATA)

1D	DATE	LEAD
"2711"	05/27/99	943
"2711"	05/25/99	1063
"2711"	05/25/99	983
"2711"	05/25/99	1007
"2711"	05/25/99	1103
"2711"	05/25/99	1067
"2711"	05/25/99	1129
"2711"	05/25/99	1084
"2711"	05/25/99	1085
"2711"	05/25/99	1086
"2711"	05/25/99	1023

AVERAGE: 1036

STD: 86

RSD(%): 8.3

NIST VALUE: 1162 RPD(%): 10.8 TABLE 5:

XRF RESULTS v. ICP DATA

ELECTRUK BATTERY SITE LOCKPORT, NEW YORK

TABLE 5 'XRF RESULTS V. ICP DATA

0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6	0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6	0-6' 92 U 0-6' 93 U 0-6' 9	0-6' 92 U 0-6' 93 U 0-6' 94 U 0-6' 94 U 0-6' 94 U 0-6' 94 U 0-6' 95 U 0-6' 96 U 0-6' 96 U 0-6' 96 U 0-6' 97 U 0-6' 9	SAMPLE A10 F7	Sec.	92 U	_ _ _
0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6 0-6	0-6' 92 U 0-6' 93 U 0-6' 911 0-6' 911 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 1670 0-6' 1670 0-6' 1670 0-6' 1670	0-6' 92 U 0-6' 32 U	0-6' 92 U 0-6' 91 U 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1720 0-6' 1720	WS	0-6	92 U	
0-6" 92 U 0-6" 105 J 0-6" 105 J 0-6" 105 J 0-6" 105 J 0-6" 376 0-6" 376 0-6" 376 0-6" 376 0-6" 376 0-6" 376 0-6" 377 0-6" 911 0-6" 911 0-6" 1480 0-6" 1480 0-6" 1570 0-6" 1570	0-6' 92 U 0-6' 105 J 0-6' 105 J 0-6' 195 J 0-6' 376 0-6' 376 0-6' 376 0-6' 370 0-6' 1480 0-6' 1480 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 106 U	0-6' 92 U 0-6' 105 J 0-6' 105 J 0-6' 327 0-6' 327 0-6' 327 0-6' 327 0-6' 1480 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 5230	0-6' 92 U 0-6' 92 U 12-15' 92 U 0-6' 92 U 0-6' 92 U 0-6' 92 U 0-6' 92 U 0-6' 92 U 0-6' 32 U 0-6' 105 J 0-6' 1480 0-6' 1480 0-6' 1480 0-6' 1520 0-6' 1520 0-6' 160 J 0-6' 1720 0-6' 1720 0-6' 1720 0-6' 1720 0-6' 1720		.9	92 U	
0-6' 92 U 0-6' 105 J 0-6' 195 J 0-6' 195 J 0-6' 376 0-6' 376 0-6' 637 0-6' 637 0-6' 1480 0-6' 1480 0-6' 1570 0-6' 1570 0-6' 1570	0-6' 92 U 0-6' 105 J 0-6' 105 J 0-6' 376 0-6' 376 0-6' 376 0-6' 376 0-6' 376 0-6' 1480 0-6' 1480 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 2040 0-6' 2040	0-6' 92 U 0-6' 32 U 0-6' 32 U 0-6' 376 0-6' 376 0-6' 376 0-6' 410 0-6' 376 0-6' 410 0-6' 1220 0-6' 1570 0-6' 1570 0-6' 1570 0-6' 5230 0-6' 1570 0-6' 5230	0-6' 92 U 0-6' 32 U 0-6' 376 0-6' 376 0-6' 410 0-6' 631 0-6' 631 0-6' 631 0-6' 1780 0-6' 1780 0-6' 5230 0-6' 1780 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631 0-6' 631		, ₉ -0	92 U	
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782 892 891 1120 1480 1570 2040	0-6' 782 0-6' 892 0-6' 1220 0-6' 1220 0-6' 1570 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230	0-6' 782 0-6' 892 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-6' 5230	0-6' 782 0-6' 892 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6' 5230 0-6' 71200 0-6' 71200		.9-0	637	813
892 911 1220 1480 1570 2040	0-6' 892 0-6' 911 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230	0-6' 892 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-6' 71200	0-6' 892 0-6' 1220 0-6' 1270 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-6' 71200 0-6' 71200		.9-0	782	799
911 1220 1480 1570 2040 3280	0-6' 911 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230	0-6' 911 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-6" 5230	0-6' 911 0-6' 1220 0-6' 1480 0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-6' 71200 0-6' 40110		.9-0	892	2440
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1570 2040 3280	0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230	0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-8' 11200	0-6' 1570 0-6' 2040 6-12" 3280 0-6" 5230 0-6' 11200 0-6' 40110		.9-0	1480	_
2040	6-12" 3280 0-6" 5230	0-6' 2040 6-12" 3280 0-6" 5230 0-8' 11200	0-6' 2040 6-12" 3280 0-6" 5230 0-6' 11200 0-6' 40110		,9-0	1570	879
3280	6-12" 3280 0-6" 5230	6-12" 3280 0-6" 5230 0-6' 11200	6-12" 3280 0-6" 5230 0-6' 11200 0-6' 40110		.9-0	2040	_
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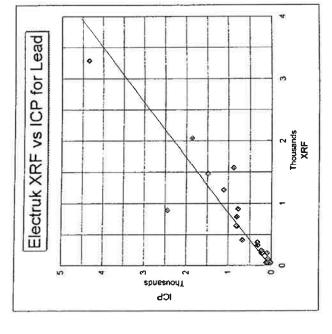
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Constant (Y intercept)
X Coefficient(s)
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No. of Observations
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APPENDIX A - CHAIN OF CUSTODY FORMS

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,0021	ii.	. 5	A CONTR	ACT 68	-w <u>z</u> -o	019			6. Oil			6. Ica Only
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										= (Specify	7)	See Comments
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l		Phone 904-225-	5116 Fam	904-225-	7007			7. Was		E-A	- 1	Comments
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Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION

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APPENDIX B - DAILY INSTRUMENT CALIBRATION WORKSHEETS

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET

	DATE: MAY 25, 1999 SPECTRACE SERIAL NO: QOYY
	SITE: ELECTRUX BATTERY SITE TDD=
L	ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE)
	Source: Cd 109 Range Source: Fe55 Range Pb Lα 10.555 KeV (10.50 - 10.58) S Kα 2.3026 KeV (2.29 - 2.33) Pb Lβ 12.633 KeV (12.57 - 12.65) Source Line 5.8901 KeV (5.37 - 5.91) Pb Lγ 14.736 KeV (14.72 - 14.80) Source Line 22.089 KeV (22.06 - 22.14)
	Source: Am 241 Range Pb Lα 10.524 KeV (10.49 - 10.59) Pb Lβ 12.620 KeV (12.56 - 12.66) Source Line 59.525 KeV (59.3 - 59.7)
Ĺ	2007 2007 200
chk	IRON Kα RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE)
ľ	Iron at maximum peak height (MPH) = 11.326 counts (MPH > 1000 at 6.40 +/- 0.02 KeV) 1/2 MPH = 5663 counts
	right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH 605.3 counts at 6.27 KeV 6211 counts at 6.5300 KeV 516.7 counts at 6.2569 KeV 5324 counts at 6.5470 KeV Calculated FWHM = 0.2609 KeV (<0.300)
-	OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)
	Cd 109 Intensity Check Criteria ☐ Pass ☐ Fail: Counts 1/2 MPH at 6.25 KeV Fe
_	BLANK CHECK SAMPLE RESULTS 60/60/60
ì	Check One: Quartz Teflon Sand Other (Specify) 9.5 ppn Lead 94 ppn Lead 9.76 57 0EV 14.2 57 0EV Pass Sand Sand Other (Specify) Pass Fail: All target elements Cr (z=24) and higher are within +/- 3 std. deviations of zero
I	Pass Fail: All non target elements Cr (z=24) and higher are within +/- 5 std. deviations of zero
•	Comments: Teflo: Calcium fail (25 x ST DEV.)
1	NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application) Initials 15

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET
DATE: May 27, 1999 SPECTRACE SERIAL NO: QOYY
SITE: ELECTRUM BATTERY SITE TDD= 200/200/200
ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE)
Source: Cd 109 Range Source: Fe55 Range Pb Lα 10.550 KeV (10.50 - 10.58) S Kα 2.30/6 KeV (2.29 - 2.33) Pb Lβ 12.627 KeV (12.57 - 12.65) Source Line 5.9078 KeV (5.37 - 5.91) Pb Lγ 18 10.765 KeV (14.72 - 14.80) Source Line 22.112 KeV (22.06 - 22.14)
Source: Am 241 Range Pb Lα 10.519 KeV (10.49 - 10.59) Pb Lβ 12.615 KeV (12.56 - 12.66) Source Line 59.538 KeV (59.3 - 59.7)
IRON Kα RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE) τω/τω/τοο
Iron at maximum peak height (MPH) = $\frac{11.763}{1/2}$ counts (MPH > 1000 at 6.40 +/- 0.02 KeV) $1/2$ MPH = $\frac{6.961}{1/2}$ resiscounts
right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH 6/14 counts at 6.5 30/ KeV 6.530/ 5/30 2 counts at 6.5462 KeV 5/62 counts at 6.256/ KeV 0-2579
Calculated FWHM = 0.2579 KeV (<0.300)
OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)
Cd 109 Intensity Check Criteria Pass ☐ Fail: Counts ■ 1/2 MPH at 6.25 KeV Fe 0.963652 (>0.96 and <1.02) Mn 0.003 4 (<+/-0.003) Pass ☐ Fail: Counts ■ 1/2 MPH at 6.55 KeV Co -0.000479/35(<+/-0.003)
BLANK CHECK SAMPLE RESULTS W/6-160
Check One: Quartz Teflon Sand Other (Specify) Pass Fail: All target elements Cr (z=24) and higher are within +/- 3 std. deviations of zero Pass Fail: All non target elements Cr (z=24) and higher are within +/- 5 std. deviations of zero Comments:
NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application) Initials JB

'	SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET	
* I	DATE: 6-2-99 SPECTRACE SERIAL NO: OOY4	200/200/200
ł	SITE: Electrica Battery TDD#	. 20 9 2007 200
(L)	ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE)	
	Source: Cd 109 Range Source: Fe55 Range	
l	Pb Lα 10-54 KeV (10.50 - 10.58) S Kα 2.3029 KeV (2.29 - 2.33) Pb Lβ 13-619 KeV (12.57 - 12.65) Source Line 5-9032 KeV (5.37 - 5.91)	(*)
•	Ph Ly 14.762 KeV (14.72 - 14.80)	
l	Source Line <u>22.093</u> KeV (22.06 - 22.14)	
	Source: Am 241 Range	
	Pb Lα /0. 525 KeV (10.49 - 10.59) Pb Lβ /2. 622 KeV (12.56 - 12.66)	
1	Source Line 59-535 KeV (59.3 - 59.7)	
3 ret	IRON Ka RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE)	200/200/200
4	Iron at maximum peak height (MPH) = $11,457$ counts (MPH > 1000 at 6.40 +/- 0.02 KeV)	20922720
1	$\frac{1}{2} \text{ MPH} = \frac{5.729}{\text{counts}} \text{ counts}$	()
	right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH	ATB
•	6183 counts at 6.5277 KeV 5906 counts at 6.2699 KeV	5277
		2578
	Calculated FWHM = 0.2578 KeV (<0.300)	2370
-	OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)	
ı	Cd 109 Intensity Check Cr	iteria
l	Pass Fail: Counts > 1/2 MPH at 6.25 KeV Fe 0. 961049 (>0.96 and <1.02)
1	Mn 0.0025 2209 (<+/-0.00 Pass Fail: Counts > 1/2 MPH at 6.55 KeV Co 0.00 222100 (<+/-0.003)	13)
ı		
_	BLANK CHECK SAMPLE RESULTS 60/60/	60
ı	Check One:	
	Pass Fail: All target elements Cr (z=24) and higher are within +/- 3 std. deviations	s of zero ,
	Pass \square Fail: All non target elements Cr (z=24) and higher are within +/- 5 std. devia	tions of zero
•	Comments: # Cakerom tals for Tether TB VIND	
	NOTE: All acquisition times > 60 seconds each source	itials 🔀
•	NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application)	77

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET

	DATE: 6-3-99	SPECTRACE SERIAL NO: 044	
		N	
AL	TNEDGY CALIBRATION CHECK	RESULTS (SAFETY SHIELD IN PLACE)
'/ 	Source: Cd 109 Range Pb Lα 10.544 KeV (10.50 - 10.58) S Kα Pb Lβ 12.623 KeV (12.57 - 12.65) Source: Pb Lγ 14.76.7 KeV (14.72 - 14.80) Source Line 22.100 KeV (22.06 - 22.14)	Source: Fe55 Range 2.2996 KeV (2.29 - 2.33) Line 5.8970 KeV (5.37 - 5.91)	200/200/200
	Source: Am 241 Range Pb Lα 10.529 KeV (10.49 - 1) Pb Lβ 13.626 KeV (12.56 - 1) Source Line 59.554 KeV (59.3 - 59.7)	12.66)	
CHY	IRON Kα RESOLUTION CALCUL Iron at maximum peak height (MPH) = 11,436 c 1/2 MPH = 5,7,8 counts	ATION RESULTS (Cd 109, IRON PURE 26.4004 ounts (MPH ≥ 1000 at 6.40 +/- 0.02 KeV)) Zoc/zw/zoc
98 88	right (high energy) side of 1/2 MPH 1/2	counts at <u>6.2554</u> KeV 6.2 counts at <u>6.2554</u> KeV	5293 215
-	OPTIONAL: RESOLUTION C	CHECK (MPH AT 6.40 +/- 0.02 KeV)	
	 ✓ Pass ☐ Fail: Counts ≥ 1/2 MPH at 6.25 KeV ✓ Pass ☐ Fail: Counts ≥ 1/2 MPH at 6.55 KeV 	Fe <u>0-966519</u> (>0.96 and <1. Mn <u>0.00236569</u> (<+/-0	Criteria 02) .003)
	BLANK CHEC	K SAMPLE RESULTS	willie
l	Check One: ☐ Quartz ☐ Teflon ☐ Sand	d Other (Specify)	
	Pass Fail: All non target elements Cr	24) and higher are within \pm /- 3 std. deviation (z=24) and higher are within \pm /- 5 std. deviation	viations of zero
}	Comments: # Colcium mos +/-5 Deviano	ons of 2000 540/108 FOR TEFLO	<u>~</u>
	NOTE: All acquisition times ≥ 60 seconds each so (All checks with Soil Samples Application)	ource	Initials

	SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET	
35	DATE: 6-599 SPECTRACE SERIAL NO: QOYY	
	SITE: Electruk Sattery TDD#	
/	ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE)	zacjradzac
/	Source: Cd 109 Range Source: Fe55 Range Pb Lα 10.552 KeV (10.50 - 10.58) S Kα 2.3026 KeV (2.29 - 2.33) Pb Lβ 12.636 KeV (12.57 - 12.65) Source Line 5.8925 KeV (5.37 - 5.91) Pb Lγ 14.72 KeV (14.72 - 14.80) Source Line 22.683 KeV (22.06 - 22.14)	200/200
	Source: Am 241 Range Pb Lα /0.521 KeV (10.49 - 10.59) Pb Lβ /2.617 KeV (12.56 - 12.66) Source Line 59.548 KeV (59.3 - 59.7)	
4	IRON Kα RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE)	za/ra/ra
/	Iron at maximum peak height (MPH) = $\frac{11.468}{1200}$ counts (MPH > 1000 at 6.40 +/- 0.02 KeV) 1/2 MPH = $\frac{5.734}{1200}$ counts	
	right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH 6.527 6.527 6.527 KeV 6.527 Side of 1/2 MPH counts at 6.2717 KeV 5048 counts at 6.2556 KeV	6
	Calculated FWHM = 0.2579 KeV (<0.300)	. / / . 50
_	OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)	affelle JB
	Cd 109 Intensity Check Cr. Pass Fail: Counts > 1/2 MPH at 6.25 KeV Fe)
	Pass ☐ Fail: Counts ≥ 1/2 MPH at 6.55 KeV Co <u>- 6-000/05386</u> (< +/- 0.003)	
	BLANK CHECK SAMPLE RESULTS	60/60/60
	Check One: ☐ Quartz ☐ Teflon ☐ Sand ☐ Other (Specify)	
	Pass Fail: All target elements Cr (z=24) and higher are within +/- 3 std. deviations Pass Fail: All non target elements Cr (z=24) and higher are within +/- 5 std. devia Comments:	
	NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application)	itials

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET	
DATE: 6/7/99 SPECTRACE SERIAL NO: QOYY	
SITE: Electric Battery TDD#	
ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE)	
Source: Cd 109 Range Source: Fe55 Range Zud νω/ νος Pb Lα 10.55 KeV (10.50 - 10.58) S Kα 2.3033 KeV (2.29 - 2.33) Pb Lβ 12.637 KeV (12.57 - 12.65) Source Line 5.860 KeV (5.37 - 5.91) Pb Lγ 1ν-760 KeV (14.72 - 14.80) Source Line 22.697 KeV (22.06 - 22.14)	
Source: Am 241 Range Pb Lα 10.527 KeV (10.49 - 10.59) Pb Lβ 12.624 KeV (12.56 - 12.66) Source Line 57.584 KeV (59.3 - 59.7)	
IRON Ka RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE) $\mathcal{D}_{6.40}$ Iron at maximum peak height (MPH) = $\frac{11.576}{1/2}$ counts (MPH > 1000 at 6.40 +/- 0.02 KeV) $1/2$ MPH = $\frac{5.788}{1/2}$ counts	
right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH 6268 counts at 6.5257 KeV 5787 counts at 6.2719 KeV 7887 counts at 6.2719 KeV 6-2719 Calculated FWHM = 0.2578 KeV (<0.300)	
OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)	
Cd 109 Intensity Check Criteria Pass □ Fail: Counts ≥ 1/2 MPH at 6.25 KeV Fe 0.9682E9 (>0.96 and <1.02) Mn 0.002008yy (<+/-0.003) Pass □ Fail: Counts ≥ 1/2 MPH at 6.55 KeV Co - 0.00091405 (<+/-0.003)	
BLANK CHECK SAMPLE RESULTS 60-/60/60	
Check One: Quartz	
NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application) Initials [Solution Times ≥ 60 seconds each source]	

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET SPECTRACE SERIAL NO: (VOYY SITE: Electrick Futters 200/200/24 ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE) Source: Cd 109 Range Source: Range Pb La 16.546 KeV (10.50 - 10.58) S Ka 2. 3028 ____KeV (2.29 - 2.33) Pb Lβ 12.618 KeV (12.57 - 12.65) Source Line 5.87e4 KeV (5.37 - 5.91) Pb Ly /4.777 KeV (14.72 - 14.80) Source Line 22.091 KeV (22.06 - 22.14) Am 241 Source: Range 16-524 Pb La_ KeV (10.49 - 10.59) 12.621 Pb Lβ_ KeV (12.56 - 12.66) Source Line KeV (59.3 - 59.7) IRON Ka RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE) P6.3994 Iron at maximum peak height (MPH) = 11,321 counts (MPH≥ 1000 at 6.40 +/- 0.02 KeV) 200/200/200 1/2 MPH = 5.667 counts right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH 5,824 counts at 6.2705 KeV 4074 counts at 6.5283 KeV 6.5283 5069 counts at 6.54VY KeV 5,069 counts at 6.2544 0.2571 0.2578 _ KeV (< 0.300) Calculated FWHM = OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV) Intensity Oheck Cd 109 Criteria Pass | Fail: Counts > 1/2 MPH at 6.25 KeV Fe 0. 46 3543 (> 0.96 and < 1.02) Mn 0.001/3043 (<+/-0.003) ☐ Pass ☐ Fail: Counts ≥ 1/2 MPH at 6.55 KeV Co 0.000 341718 (<+/-0.003) BLANK CHECK SAMPLE RESULTS 60/60/60 Ouartz Teflon Check One: ☐ Sand ☐ Other (Specify)_ Pass \Box Fail: All target elements Cr (z=24) and higher are within +/- 3 std. deviations of zero \Box Fail: All non target elements Cr (z=24) and higher are within +/- 5 std. deviations of zero

NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application)

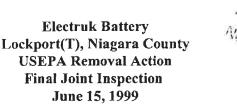
Comments:

Initials \(\square\)

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEET
DATE: 6 9 99 SPECTRACE SERIAL NO: QOYY
SITE: Clector Buttery TDD#
ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE) 200/200/200
Source: Cd 109 Range Source: Fe55 Range Pb Lα 10.5 Y 2 KeV (10.50 - 10.58) S Kα 2.3033 KeV (2.29 - 2.33) Pb Lβ 12.637 KeV (12.57 - 12.65) Source Line 5.8460 KeV (5.37 - 5.91) Pb Lγ 14.760 KeV (14.72 - 14.80) Source Line 22.096 KeV (22.06 - 22.14)
Source: Am 241 Range Pb Lα /0.527 KeV (10.49 - 10.59) Pb Lβ /2.62Ψ KeV (12.56 - 12.66)
Source Line 59.583 KeV (59.3 - 59.7)
IRON Ka RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE) $z \propto /20c / 20c
Calculated FWHM = 0.2579 KeV (<0.300)
OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)
Cd 109 Intensity Check Criteria Pass Fail: Counts > 1/2 MPH at 6.25 KeV Fe
BLANK CHECK SAMPLE RESULTS 60/60/60
Check One: ☐ Quartz ☐ Teflon ☐ Sand ☐ Other (Specify)
Pass
NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application) Initials Total

SPECTRACE 9000 FPXRF DAILY INSTRUMENT CHECKOUT WORKSHEE	Γ
DATE: 6 10 99 SPECTRACE SERIAL NO: 0044	
SITE: Electric Battery TDD#	7
ENERGY CALIBRATION CHECK RESULTS (SAFETY SHIELD IN PLACE)	200/200/200
Source: Cd 109 Range Source: Fe55 Range Pb Lα /6.5 γο KeV (10.50 - 10.58) S Kα 2.39 γγ KeV (2.29 - 2.33) Pb Lβ /2.4 /8 KeV (12.57 - 12.65) Source Line 5.89 γε KeV (5.37 - 5.91) Pb Lγ /4.76/ KeV (14.72 - 14.80) Source Line 2.2.168 KeV (22.06 - 22.14)	
Source: Am 241 Range Pb Lα 10.525 KeV (10.49 - 10.59) Pb Lβ 12.622 KeV (12.56 - 12.66) Source Line 59.571 KeV (59.3 - 59.7)	
IRON Kα RESOLUTION CALCULATION RESULTS (Cd 109, IRON PURE)	rayroc/200
Iron at maximum peak height (MPH) = $\frac{11.56!}{1.56!}$ counts (MPH > 1000 at 6.40 +/- 0.02 KeV) $\frac{1}{2}$ MPH = $\frac{5.78!}{1.56!}$ counts	
right (high energy) side of 1/2 MPH left (low energy) side of 1/2 MPH 6027 counts at 6.5247 KeV 5889 counts at 6.2718 KeV 6.275 counts at 6.5458 KeV 4919 counts at 6.2557 KeV	2718
Calculated FWHM = 0.2579 KeV (<0.300)	
OPTIONAL: RESOLUTION CHECK (MPH AT 6.40 +/- 0.02 KeV)	
Cd 109 Intensity Check Co Pass ☐ Fail: Counts ≥ 1/2 MPH at 6.25 KeV Fe 0.964826 (>0.96 and <1.00 Mn 0.00087/324 (<+/-0.00 Pass ☐ Fail: Counts ≥ 1/2 MPH at 6.55 KeV Co 0.004 (6367 (<+/-0.003)	,
BLANK CHECK SAMPLE RESULTS	6:/60/60
Check One: ☐ Quartz ☐ Teflon ☐ Sand ☐ Other (Specify)	7-70-
Pass	
NOTE: All acquisition times ≥ 60 seconds each source (All checks with Soil Samples Application)	nitials <u>TB</u>

FILE VIA PIB





Attendees:

Jeff Bechtel, USEPA Matt Forcucci, NYSDOH Dan King, NYSDEC

Background/Purpose

At the request of NYSDEC, the USEPA conducted an emergency removal action at the former Electruk Battery manufacturing facility located in the Lockport(T) Industrial Park. This action was prompted by plant site conditions that potentially posed an immediate threat to public health and the environment. These site conditions included 1) the abandoned an unsecured state of the site, 2) the significant presence of lead, lead dust, lead waste and lead contaminated soil at the facility, and 3) the presence and spill of approximately 1000-2000 gallons of sulfuric acid within the building in 1998.

The USEPA removal action included:

- decontamination of the building interior, primarily lead dust and acid spill cleanup,
- decontamination of the concrete staging pad located outside the building,
- decontamination or disposal of plant equipment, waste and raw materials,
- removal of lead contaminated soils exterior to the building, and
- cleaning and sampling of building sumps and drains.

The emergency removal action has been completed by USEPA and site demobilization is expected to be completed on June 16, 1999. The purpose of the June 15, 1999 inspection was to provide both NYSDEC and NYSDOH the opportunity to review and discuss the cleanup efforts with USEPA and determine if further action at the State level was needed.

Inspection Findings

The joint inspection revealed the following:

• The entire plant interior including the manufacturing area, office, change room and lunch room has been cleaned. Major elements of this action include;

ceiling and wall insulation and office carpeting were removed and disposed as lead contaminated,

steel roof beams and floors were vacuumed and washed with lead removal reagents,

the majority of manufacturing equipment was found to be lead contaminated and therefore disposed as hazardous waste, a few larger equipment pieces were decontaminated and remain on site,

raw materials (primarily lead ingots) were sold as scrap,

acids and miscellaneous low-volume chemicals were disposed as hazardous wastes,

sumps and drains were cleaned of sediment and liquids,

the furnace providing building heating was scrapped due to lead contamination (heating duct work was removed or cleaned in place) and

pre- and post-remediation sampling was conducted

Remedial actions on the exterior of the building included;

excavation and disposal of 6"-12" of lead contaminated soils from areas north and south of the building and roof drain down spouts (areas backfilled with clean soil, seeded and mulched),

removal and disposal of all lead waste, scrap metal and unused material located on the exterior concrete staging pad and wash down of the pad with lead removal reagents and

pre- and post-remediation sampling

Post-remedial wipe samples of the plant interior indicates that the horizontal areas of the roof beams and floor still contain elevated levels of lead that has apparently bonded to these surfaces.

This is despite repeated attempts by USEPA to remove the material utilizing various reagents. USEPA will recommend to the Town IDA that the beams and floor be painted to encapsulate the residual lead.

For soil removal, a USEPA cleanup goal of 750 ppm was utilized. However, given the tight soils in the area, it is anticipated that the removal action will result in residuals much less than this guideline.

Two floor drains are located within the building and one is located in the exterior concrete staging pad. USEPA's investigation of these drains show that they are not connected to exterior sewers, but are simply blind sumps without outflow/discharge piping. Presumably the sumps were unused or emptied through sump pump and surface discharge. Such a sump pump operation was utilized to control groundwater and rainwater collecting in the loading ramp area at the plant. USEPA had dewatered the sumps only to have them refill with shallow perched groundwater. Based on this information, significant groundwater contamination is not expected at this site.

Next Steps

The USEPA will prepare a final report on the site remediation that delineates the actions taken, summarizes the site sampling data and provides recommendations to the IDA relative to the floor and roof beams discussed above.

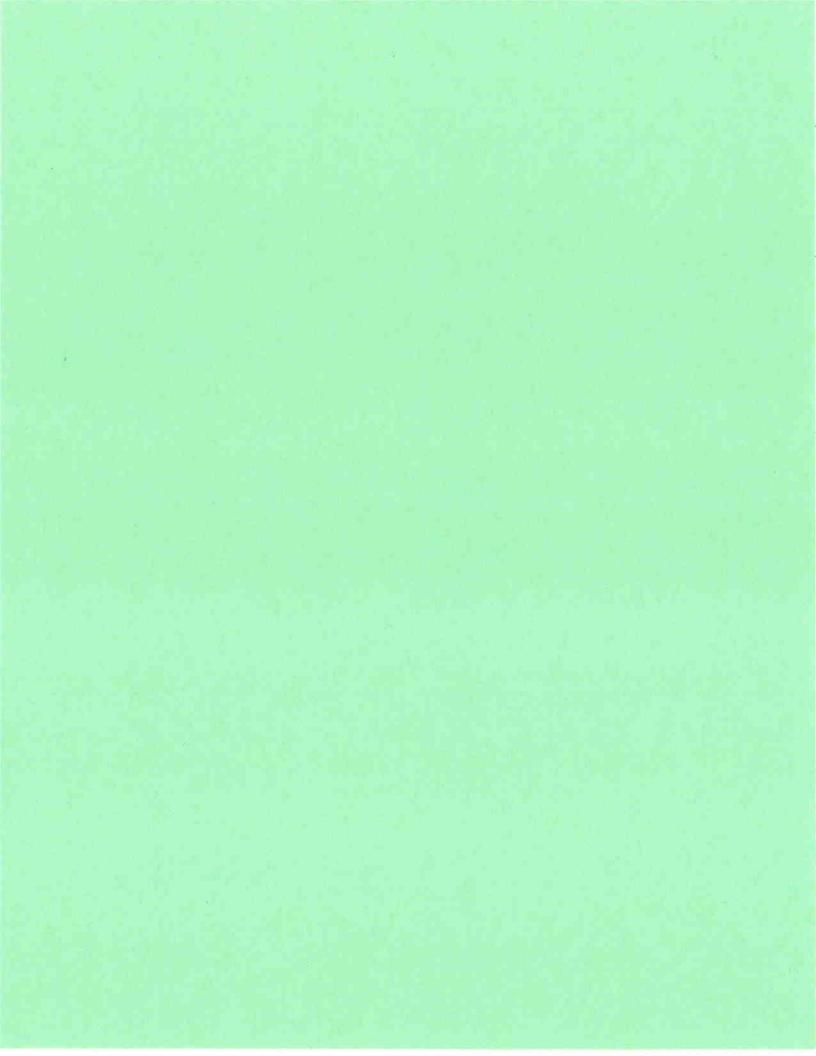
Conclusions

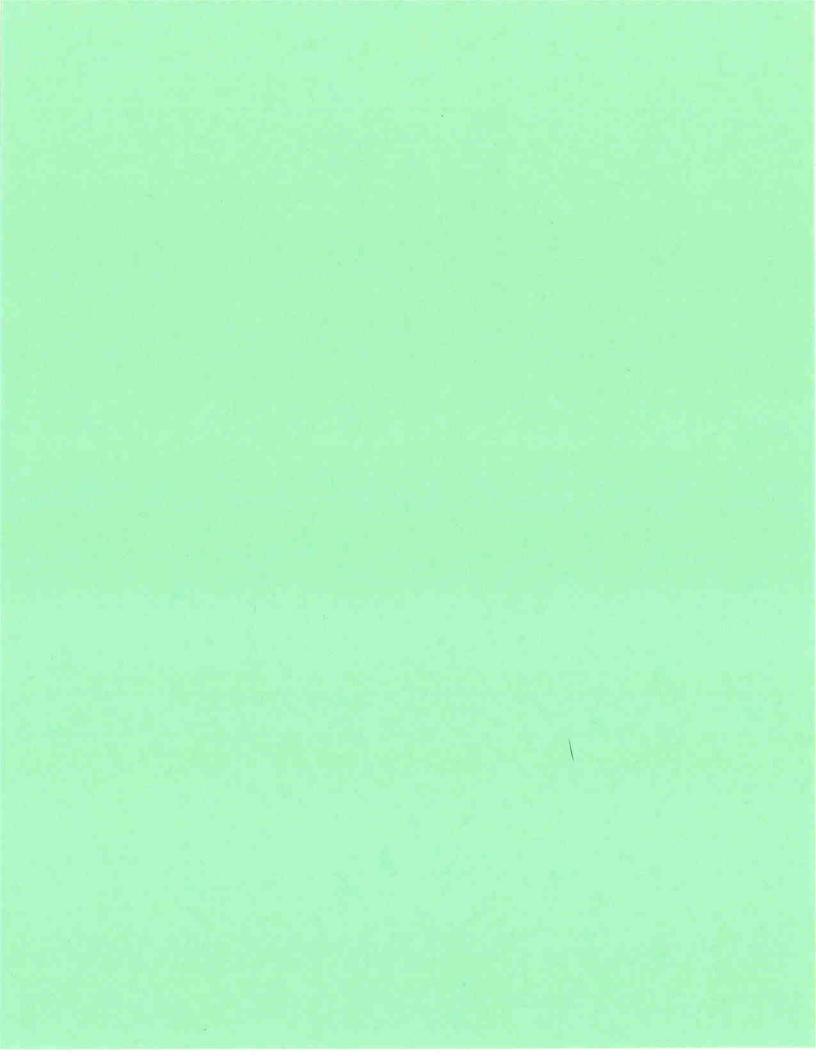
The USEPA cleanup action was found to be extensive and most effective in eliminating potentially significant threats to public health and the environment. Based on the information presented and the observations made during this inspection, the site does not warrant further NYSDEC involvement in regards to follow-up investigation and possible listing as an inactive hazardous waste site. The final remedial action report and sampling data to be submitted by USEPA will be reviewed to insure confirmation of the inspection findings and support of this conclusion.

Dan King

June 15, 1999

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	3	2			







Roy F. Weston, Inc. Federal Programs Division Suite 201 1090 King Georges Post Road Edison, New Jersey 08837-3703 732-225-6116 • Fax 732-225-7037 Post cleaning interior Wipe sample results

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

EPA CONTRACT 68-W5-0019

June 29, 1999

Mr. Jeff Bechtel, Task Monitor USEPA Region II Response and Prevention Branch 2890 Woodbridge Avenue Edison, NJ 08837

RECEIVED

EPA CONTRACT NO: 68-W5-0019

TDD NO: 02-98-09-0001

DOCUMENT CONTROL NO: START-02-F-03528

SUBJECT: WIPE SAMPLING TRIP REPORT - ELECTRUK BATTERY SITE

Dear Mr. Bechtel:

Enclosed please find the Sampling Trip Report for the May 11, 21, and 24, 1999, wipe sampling events at the Electruk Battery Site located in Lockport, Niagara County, New York.

If you have any questions, please do not hesitate to call me at (732) 225-6116.

Very truly yours,

ROY F. WESTON, INC.

John Brennan

START

Enclosure

TDD File CC:

SAMPLING TRIP REPORT

SITE NAME:

•

.

Electruk Battery Site

DCN #: START-02-F-03528

TDD #: 02-98-09-0001

EPA I.D. NO.:

LU

SAMPLING DATES:

May 11, 21, 24, 1999

1. Site Location:

4922 IDA Park Drive, Lockport, NY 14094

(Refer to Figure 1)

- 2. Sample Locations: Refer to Table 1
- 3. Sample Descriptions and Preliminary Results (Refer to Table 1):

A total of 37 wipe samples were collected in addition to three blind replicate samples. Two field blanks were supplied to the laboratory as well. All samples collected were analyzed for total lead. Refer to Table 1 for specific sampling information.

- 4. Preliminary Results: Refer to Table 1.
- 5. Laboratory Receiving Samples:

Sample Type

Name and Address of Laboratory

Wipe

Scilab Albany, Inc. 15 Century Hill Drive Latham, NY 12110 (518)786-8100

6. Sample Dispatch Data:

The samples were shipped to Scilab Albany, Inc., via Federal Express airbill numbers 810158220866 (5/11/99) and 81015822099 (5/24/99). The samples collected on 5/21/99 were shipped with those collected on 5/24/99. Attachment A contains the Federal Express Forms and chain of custody forms. The analytical turnaround time that was requested by the TM was one week verbal and two weeks for written results.

On-Site Personnel:

Name

Organization

Duties on Site

John F. Brennan

Region II START

Sampler/Documentation

Weather Conditions: 8.

Partly sunny skies with temperatures in the low 70's to high 60's on all three sampling days.

9. Additional Comments:

Samples were collected to illustrate the total lead contamination level remaining on the I-Beams and the concrete floors. The I-Beams and floor surfaces had previously been cleaned with a HEPA-vacuum and wiped with tri-sodium phosphate (TSP) solution by the ERRS contractor. More heavily contaminated portions of the floor were also cleaned with TechX-Tract® solution.

The I-Beams were numbered 1-7, with No. 1 being the westernmost I-Beam and No. 7 being the easternmost I-Beam (Figure 4).

The interior concrete floor surface was divided into 20' X 20' sections, except for the eastern most sections, which were divided into 10' X 10' sections (Figure 3). A wipe sample was collected from the approximate middle of each section. Wipe samples 73 and 74 were not collected as the entire floor area of that section was covered by the 2nd floor break room.

All samples were collected using a one foot square (1 ft²) template.

Report Prepared by: _ 10. John F. Brennan

TABLE 1

WIPE SAMPLE LOCATIONS

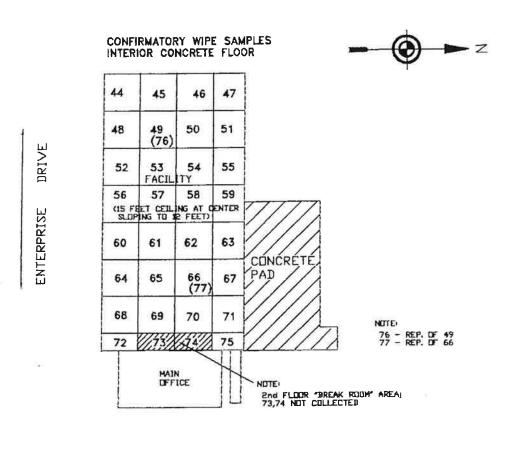
TABLE 1 WIPE SAMPLE LOCATIONS ELECTRUK BATTERY SITE LOCKPORT, NEW YORK

SAMPLE ID	AMPLE ID DATE		SAMPLE DESCRIPTION					
Wipe-36	5/11/99	1325	East side of the I-Beam No.1					
Wipe-37	5/11/99	1330	East side of the I-Beam No. 2					
Wipe-38	5/11/99	1335	West side of the I-Beam No. 3					
Wipe-39	5/11/99	1345	West side of the I-Beam No. 4					
Wipe-40	5/11/99	1355	Replicate sample of Wipe-39					
Wipe-41	5/11/99	1400	East side of the I-Beam No. 5					
Wipe-42	5/11/99	1410	West side of the I-Beam No. 6					
Wipe-43	5/11/99	1420	West side of the I-Beam No. 7					
Wipe-44	5/21/99	0925	Concrete floor surface					
Wipe-45	5/21/99	0930	Concrete floor surface					
Wipe-46	5/21/99	0935	Concrete floor surface					
Wipe-47	5/21/99	0940	Concrete floor surface					
Wipe-48	5/21/99	0945	Concrete floor surface					
Wipe-49	5/21/99	0950	Concrete floor surface					
Wipe-50	5/21/99	0955	Concrete floor surface					
Wipe-51	5/21/99	1000	Concrete floor surface					
Wipe-52	5/21/99	1005	Concrete floor surface					
Wipe-53	5/21/99	1010	Concrete floor surface					
Wipe-54	5/21/99	1015	Concrete floor surface					
Wipe-55	5/21/99	1020	Concrete floor surface					
Wipe-56	5/21/99	1025	Concrete floor surface					
Wipe-57	5/21/99	1030	Concrete floor surface					
Wipe-58	5/21/99	1035	Concrete floor surface					
Wipe-59	5/21/99.	1040	Concrete floor surface					
Wipe-60	5/21/99	1045	Concrete floor surface					

Wipe-61	5/21/99	1050	Concrete floor surface
Wipe-62	5/21/99	1055	Concrete floor surface
Wipe-63	5/21/99	1100	Concrete floor surface
Wipe-64	5/24/99	1650	Concrete floor surface
Wipe-65	5/24/99	1655	Concrete floor surface
Wipe-66	5/24/99	1700	Concrete floor surface
Wipe-67	5/24/99	1705	Concrete floor surface
Wipe-68	5/24/99	1710	Concrete floor surface
Wipe-69	5/24/99	1715	Concrete floor surface
Wipe-70	5/24/99	1720	Concrete floor surface
Wipe-71	5/24/99	1725	Concrete floor surface
Wipe-72	5/24/99	1730	Concrete floor surface
Wipe-73	N/A	N/A	Not collected (floor surface was covered by 2nd floor cafeteria)
Wipe-74	N/A	N/A	Not collected (floor surface was covered by 2nd floor cafeteria)
Wipe-75	5/24/99	1735	Concrete floor surface
Wipe-76	5/21/99	0950	Replicate of Wipe-49
Wipe-77	5/24/99	1740	Replicate of Wipe-66
FB 05 1199	5/11/99	1315	Field Blank for 5/11/99
FB052199	5/21/99	0920	Field Blank for 5/21/99

FIGURE 3

SAMPLE LOCATION PLAN CONCRETE FLOOR WIPE SAMPLES



IDA PARK DRIVE

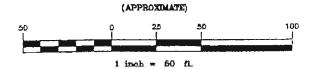


FIGURE 3 - FACILITY WIPE SAMPLE LOCATIONS
ELECTRUK RATTERY
LOCKPORT, NEW YORK
JUNE 1999

US RPA REMOVAL ACTION BRANCH
SUPERIAM REMOVAL ASSESSMENT AND RESPONSE TRAN
CONTRACTAL SE-MS-GOTS

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Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION

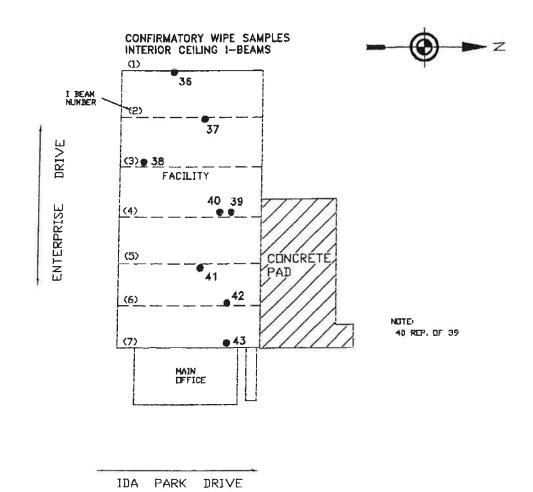
IN ASSOCIATION WITH PRC ENVIRONMENTAL MANAGEMENT, INC., C.C. JOHNSON & MALHOTRA, P.C., RESOURCE APPLICATIONS, INC., R.E. SARMERA ASSOCIATES, AND ORB ENVIRONMENTAL SERVICES, INC. DRAWN BY: J. HAMPTON JR.

EPA TASK MONITOR: J. BECHTEL

TART PROJECT MANAGER: J. BRENNAN

FIGURE 4

SAMPLE LOCATION PLAN I-BEAM WIPE SAMPLES



- DRAWING NOT TO SCALE -

FIGURE 4 - FACILITY WIPE SAMPLE LOCATIONS ELECTRUK BATTERY LOCKPORT, NEW YORK JUNE 1999

US EPA REMOVAL ACTION BRANCH
SUPERIOR TECHNICAL ASSESSMENT AND RESPONSE TEAM
CONTRACTS 40—45—0018

WESTER

Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION

IN ASSOCIATION WITH PRC ENVIRONMENTAL MANAGEMENT, INC., C.C. JOHNSON & MALHOTRA, P.C., RESOURCE APPLICATIONS, INC., R.E. SARRIERA ASSOCIATES, AND ORB ENVIRONMENTAL SERVICES, INC. DRAWN BY: J. HAMPTON JR.

EPA TASK MONITOR: J. BECHTEL

TART PROJECT MANAGER: J. BREWNAN

ATTACHMENT A

FEDERAL EXPRESS FORMS &
CHAIN OF CUSTODY FORMS

PUDNO	HAIN OF	USTODY	RECORD	M r Box No.:	Preservative Box No
VCE.TAC.				1. Surface Water	1. HQ
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PUROL	www	Se Charactering		4. Rinusta	4. H2SO4
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101366		CONTRACT 62-WY-001	6. Oī	6. ica Only	
		CS-275-5116 Fiz 908-275-7		7. Wante	N. Not Preserved
	•		8	3 Other (Specify)	See Comments

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhorra, P.C., and Grill Environmental Services, Inc.

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	Proces 904-725-5116 Fact 904-725-7257	7. Wasse 8. Other (Specify)	N. Not Preserved See Comments

end verbui and written results to:

Roy F. Westen, inc., USEPA Region II START

Strite 201, 1090 King Georges Post Road. Edison, New Jersey 08837-5703

Attention: Smita Suminary, START Analytical Coordinator

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C., Johnson & Malhotta, P.C., and GRB Environmental Services, Inc.

FPNo	HAIN OF C JSTODY RECORD	Ma. Box No.
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and verbal and with	rest results to: Roy F. Weston, Inc., USEPA Region II S	

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1. Surface Water	1. HC
2. Ground Water	2_ HN03
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4. Rinseto	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ic= Only
7. Waste	N. Not Preserved
8. Other (Specify)	See Comments

L New Jersey 08857-5703

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

4579 2010-1101366

CHAIN OF USTODY RECORD



SUFERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-WS-0019

Phone 904-225-5116 Fazz 904-225-7037

M x Box No.:	Preservative Box No.:
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1. Ground Water	2. HN03
3. Leachete	3. Na2504
4. Rinsets	4. H2SO4
5. Soil/Sodiment	5. Other (Specify)
6, Oil	6. Ica Only
7. Waste	N. Not Preserved
8. Other (Specify)	See Comments

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Roy F. Westen, Inc., USEPA Region II START

Strite 201, 1090 King Georges Post Rosel, Estison, New Jersey 08837-5703

Attention: Smita Sumbaly, START Analytical Coordinator

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Serriera Associates, PRC Environmental

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CHAIN OF USTODY RECORD	h or Box No.	Proscryative Box No.
4579 WESTERN. 40F4	Surface Water Ground Water Leachets Rinsete	1. HCl 2. HN03 3. N±23O4 4. H25O4
201366 SUFERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EFA CONTRACT 68-WS-0019 From 804-725-5116 File 804-725-7017	5. Soil/Sodiment 6. Oil 7. Waste 8. Other (Specify)	5. Other (Specify) 6. Ice Only N. Not Preserved See Comments
Send verbal and written results to: Roy F. Westen, Inc., USEPA Region II S. Strite 201, 1090 King Georges Fost Road. Attention: Smita Sumbaly, START Analy	TART Edison, New Jersey 088	<u> </u>
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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

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RETAIN THIS COPY FOR YOUR RECORDS

P002/003

(518) 786-7700

p. 2

May 17 38 08:53a

SCILAR Albany, Inc.



SCILAP ALBANY, INC.

15 CENTURY HILL DRIVE - PO BOX 787 LATHAM, NY 12110

TEL: (518) 788-8100 + FAX: (518) 785-7700

Scillab Job Humber: 99-06-3136

Date Received: 5/12/99

Date Analysed 5/15/99

Post decon ripes

Load Analysis Results DUST WIDES EPA Nethod 3050/7420

Roy F. Weston, Inc. Edison, NJ

Job Sita: RFP 4800

10 - 11 - ab- di	Client		Sample			(R2)	(Hg/R2)
\$68.26 # 98.05-2138	Number		Location			1	8.910
01	Wipe 35	1326				1	1,810
02	Wipe 37	1330		50		1.,	7,970
03	Wipe 38	1335				1	808
D4	Wipe 39	1345				1	1,370
05	Wipe 40	1355				1	700
00	Wipe 41	1400				1	18,500
07	Wipe 42	1410				1	1,660
08	Wipe 43	1420				1	<25
OB.	FB 051199	1315			- 1		

800 up/12 for interior window waits. SCNAS reporting Smit is 28 ug/12.

Laboratory Director

ELAP No: 10358

Page 1 of 1

NEW YORK - LOS ANGELES - BOSTON - ALSIANY - RICHMOND

Jun Q1 88 11:56a

SCILAR Albany, Inc.

(518) 788-7700

THE PROPERTY OF THE PARTY OF TH

34,000



SCILAT ALBANY, INC.

15 CENTURY HILL DRIVE - PO BOX 787 LATHAM, NY12110 TEL: (519) 784-9100 - FAX: (516) 798-7700

Date Received: 5/25/00 Date Analysed 6/1/99

Post decor

Load Analysis Results **Dust Wipes** EPA Nethod 3050/7420

Ray F. Weston, Inc. Edleon, NJ Job Site: RFP 4579

Scil.sb 8 99-06-3270	Client Number	2000	Pample Lecation			Area (N2)	Lead (Hg/ft2)
D1	WIPE-44	0925			7	1	61,700
02	WIPE-45	0830				1	78.900
03	WIPE-46	0935				1	122,000
· 04	. WIPE-47	0940				1	2,420
05	WIPE-48	0945				5 1	48.400
00	WIPE-49	0960				1	3,410
07	WIPE-50	0956				1	32,700
08	WIPE-51	1900				1	11,400
09	WIPE-62	1005				-1	160,000
10	WIPE-83	1010				1	- 10,000
41	WIPE-54	1015	*			1	7,060
12	WIPE-55	1020				1	8,990
13	WIPE-66	1025				1	57,000
14	WIPE-57	1030	W.			1	7,040
15	WIPE-68	1035	× 1			. 1	9,020
16	WIPE-69	1040 -				1	32,400
17	WIPE-60	1045				1.1	12,000
18	WIPE-61	1050				1	8,530
19	WIPE-62	1055				1	6,160
20	WIPE-63	1100				1	134,000
21	WIPE-84	1650				9 1	8.970
22	WIPE-86	1665				1	17.800
23	WIPE-00	1700				1	12,100
		To be a series of					

100 ug/h2 for floors. 800 ug/h2 for interior window elfis. 800 ug/h2 for interior window wats.

WIPE-87

1705

Laboratory Director

10358

Page 1 of 2

NEW YORK - LOS ANGELES - SOSTON - ALEANY - PROHIBOND

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P003

Jun 01 99 11:56a

SCILAB Albany, Inc.

(518) 786-7700



SCILAT ALBANY, INC.

15 CENTURY HILL DRIVE . PO BOX 787

LATHAM, NY12110

TEL: (518) 786-9100 + FAX: (\$18) 788-7700

Data Received: 8/25/99

Date Analyzed 6/1/99

Leed Analysis Results DUST WIPES EPA Method 3050/7420

Roy P. Weston, Inc. Edleon, NJ

Job Site: RFP 4579

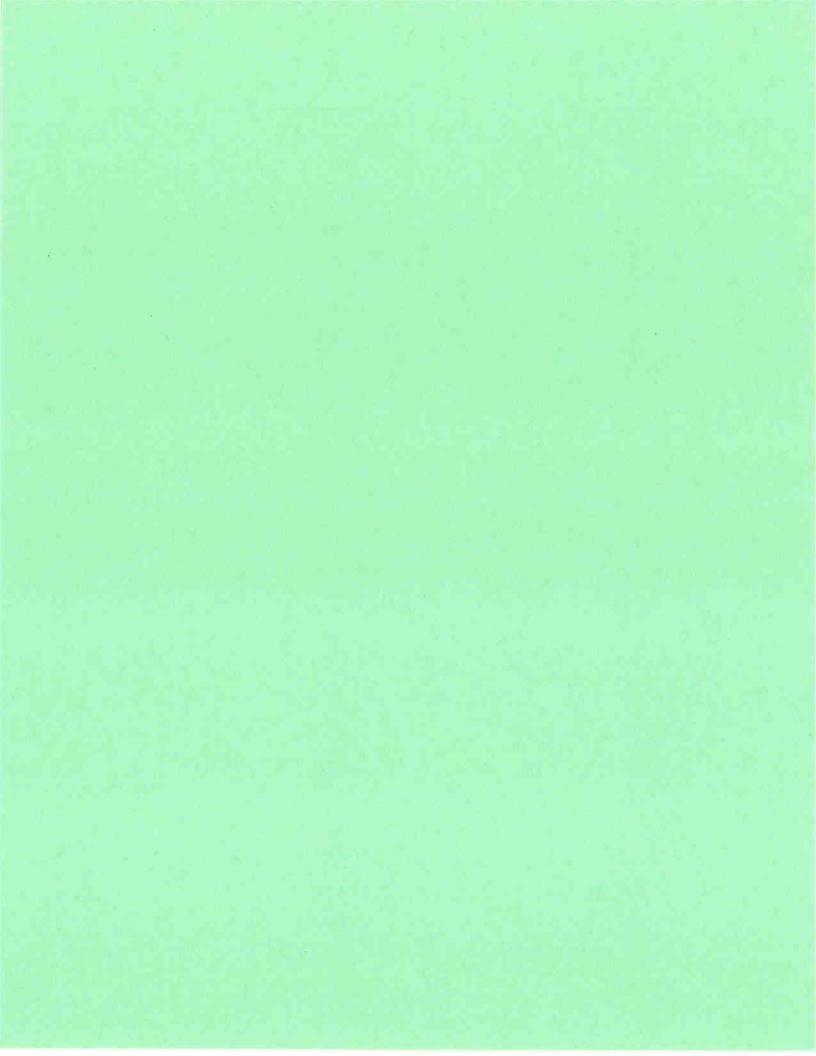
Sell.ab # 30-05-3278	Client		Barnple Location	·				Area (ft2)	(ug/R2)
28	WIFE-68	1710						1	32,100
26	WIP6-69	1715						1	15,100
27	WIPE-70	1720						1	5,930
-	W/PS-71	1725						1	3,630
28								- 1	15,100
29	WIPE72	1730			= 1		200		7,950
30	WIPE-75	1738						•	4,310
31	WIPE-76	0950				1.0		1	
32	WIPE-77	1740						3	13,300
33	FB052199	0920						1	<25

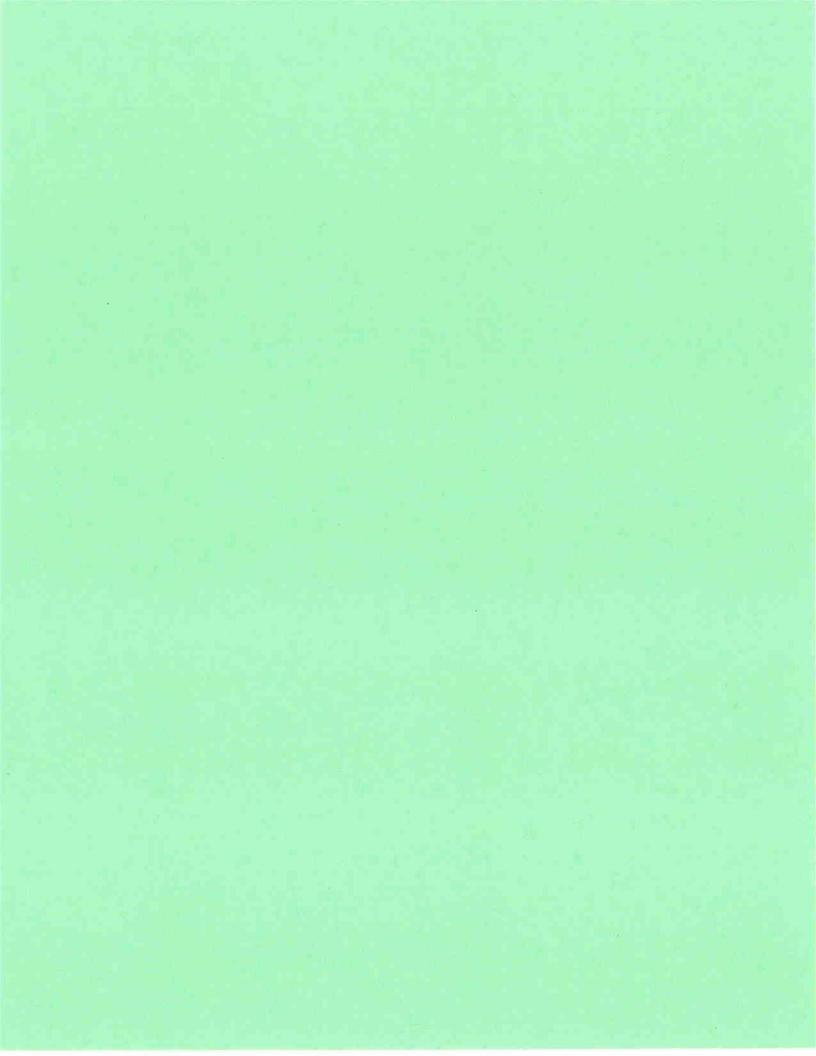
HUO ducidatings for dust wipne are: 100 up/R2 for fleore, 500 up/R2 for literator window at 500 ub/R2 for literator window at SCILAS reporting first for 25 up/R2.

Laboratory Director

10550 ELAP No

(2)	2		20	





RECEIVED

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION REPORT

111. 1 9 1999

NYSDEC REG. 9

I. **HEADING**

Date:

June 29, 1999

From:

Jeff M. Bechtel, OSC

Response and Prevention Branch

To:

B. Sprague, 2ERRD-RPB

B. Bellow, 2CD

R. Cahill, 2CD-PAT

R. Bymes, EPA, 20IG J. LaPadula, 2ERRD-NYRB

M. Basile, 2CD-POB M. O'Toole, NYSDEC

D. King, NYSDEC

D. Mugleston, EPA CID

J. Daloia, 2ERRD-RPB

Mr. Man

T. Johnson, 5202G

J. Witkowski, 2ERRD-RAB P. Simon, 2ORC-NYSFB

D. Solomon, 20RC-NYSFB

B. Dease, 2ERRD-RAB

T. Vickerson, NYSDEC M. Forcucci, NYSDOH

START

Subject:

Electruk Battery Site

Lockport, Niagara County, New York

E-FILED

POLREP NO.: Eight (8) and Final

BACKGROUND II

Site No:

LU

Delivery Order No:

2001-02-173 Response Authority: CERCLA

NPL Status:

N/A

State Notification:

NYSDEC

Action Memorandum Status:

Verbal on August 19, 1998

December 7, 1998

Start Date:

August 19, 1998

Completion Date: RCRA ID:

June 30, 1999

NYD002464410

Ш SITE INFORMATION

The Electruk Battery Enterprises site is located at 4922 IDA Park Drive in the Lockport Industrial Park in Lockport, Niagara County, New York. The site was used as a lead/acid battery manufacturing facility from 1990 until 1996 at which time the company entered into Chapter 7 bankruptcy. The site was abandoned and numerous drums of acids, lead compounds and solvents were left behind.

A preliminary investigation was conducted in June of 1997 by a contractor retained by the Lockport Industrial Park. Approximately twenty 55 gallon drums and two vats containing identified lead sludge were observed outside the building open to the elements along with four 30 gallon drums of sulfuric acid, one of which was cracked and only half full.

Inside the building were more drums of methyl ethyl ketone, sulfuric acid and xylene along with many smaller containers of paint related materials. Two bulk acid storage tanks were present and full.

The site resides in the custody of the bankruptcy court. The court had awarded Key Bank the opportunity to sell any assets present on the property to offset their lost investment in the company.

The interior of the building was covered with lead dust at concentrations exceeding state and federal guidelines. Several areas of surficial soil lead contamination were also identified in the 1997 investigation.

IV RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the state nor local agencies had the ability to perform a response mitigation. EPA initiated a CERCLA Removal Action.

2. Removal activities to date

During the period of June 1 thru June 16, 1999 ETI completed excavation of surface soil in those areas where lead levels exceeded 750 ppm.

The following shipments of lead contaminated soil were shipped via Freehold Cartage to the CWM Chemical Services landfill in Model City, NY for disposal: 21.5 tons and 18 tons on June 3, 2 loads of 22 tons each on June 7, and 2 loads of 21 tons each on June 8.

On June 8, 1999 two 30 cubic yard rolloff containers of contaminated debris from the dismantling of the lead oxide tower were shipped via Freehold Cartage to the CWM Chemical Services landfill in Model City, NY.

START collected a total to date of 308 surficial soil samples, ran XRF analyses for lead to facilitate excavation activities and shipped 36 soil samples out for laboratory analysis to confirm the XRF results.

The 32 confirmation wipe samples from the floor showed final surface lead levels ranging from 2,420 to 169,000 ug/square ft. The eight confirmation wipe samples from the ceiling beams showed final surface lead levels ranging from <25 to 18,500 ug/square ft.

Backfilling operations were completed using soil from a construction project on a neighboring property. As a precaution, the backfill was sampled and tested for lead with the XRF. No lead was present in the fill. The filled areas were then seeded with a contractor grade grass seed and mulched with straw.

Two fifty-five gallon drums of lead oxide powder were shipped via Freehold Cartage to the Environmental Enterprises facility in Cincinnati, Ohio.

On June 15, 1999 EPA gave representatives from the NYSDEC and Niagara County DOH a final site tour. The Niagara Falls EPA PIO was notified of the removal action completion.

Site security was discontinued and all equipment and personnel were demobed. The bankruptcy trustee was notified of the completion of the removal action and the site keys were sent to him.

This concluded the on-site activities associated with the completion of this removal action.

3. Enforcement

A 104(e) letter is being drafted for the PRP. A petition was filed by ORC with the bankruptcy court for cost recovery from the estate.

B. Planned removal activities

Identification, sampling, and disposal of all hazardous materials.

C. Next Steps

The site was referred back to the NYSDEC to investigate any soil or groundwater contamination.

D. Key Issues

While lead remains present on the floor and ceiling beams, the loose dust and residues were removed during the decon process. The lead concentrations remaining are indicative of lead bonded to these surfaces in such a manner as to require extensive, repetitive cleaning to remove it. It is recommended that prior to reutilization of the building, the beam surfaces be encapsulated by the application of paint and/or insulation while the floor may be painted or covered with a fresh layer of concrete.

V. COST INFORMATION

The following table contains information on estimated costs for the response investigation.

J

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	\$ 50,000	\$ 50,000	\$ 0
ERRS*	\$ 500,000	\$ 447,852	\$ 52,148
START**	\$ 80,000	\$ 80,000	\$ 0
EPA	\$ 110,000	\$ 99,200	\$ 10,800
TOTAL.	\$ 740,000	\$ 677.052	\$ 62.948

- * Costs as of June 11, 1999
- ** Costs as of June 11, 1999

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep: X Further Polreps Forthcoming:

Load No.	Date	Manifest #	Waste Stream	Quantity	Total Quan.	Wt. Unit	Transporter	Designated Facility	Treatment
1	10/21/98	NYG0564057	RQ Waste Sulfuric Acid, Solution 8, UN2796, II (D002)	(Tanker)	868	gallons	Envirite of Ohio, Inc.	Envirite of Ohio, Inc. Canton, Ohio	
2	10/22/98	MI7092547	RQ Hazardous Waste, Solid, N.O.3. (D008) 9, NA3077, III	(Roll Off)	20	cu.yds.	Tonawanda Tank Transport	Envotech Mgmt. Services Belleville, MI	LandfilV Treatment
3	10/22/98	NJA2991585	RQ Waste Sulfuric Acid (D002) 8, UN2796, II	(Drums)	2,440	gailons	Environmental Tranport Group	Cycle Chem Elizabeth, NJ	
3	10/22/98	same	RQ Hazardous Waste Solid, N.O.S. (D008) 9, NA3077, III	13 (Drums)	13,000	lbs.	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
3	10/22/98	same	RQ Hazardous Waste Solid, N.O.S. (D008) 9, NA3077, III	(Drums)	3000	lbs.	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
3	10/22/98		RQ Hazardous Waste Solid, N.O.S. (D008) 9, NA3077, III	(1 yd Box)	1200	lbs.	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
4	10/22/98		RQ Waste Flammable Liquid, N.O.S. (D001, F003) 3, UN1993, II	(Drum)	275	gallons	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
4	10/22/98	20000	Petroleum Mixture Liquid Non RCRA, Non DOT	(Drum)	5	gallons	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
5	10/22/98		RQ Waste Paint Related Material (D001, F003) 3, UN1263, II	(Drum)	700	lbs.	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
5	10/22/98	6.50007969	RQ Waste Aerosol (D001, F002, F003) 2.1, UN1950	(Drum)	50	lbs.	Environmental Transport Group	Cycle Chem Eliza'veth, NJ	
5	10/22/98	1700-175	RQ Hazardous Waste, Solid, N.O.S. (D008) 9, NA3077, III	(Drum)	20	lbs.	Environmental Transport Group	Cycle Chem Elizabeth, NJ	
5	Total			86 Drums			the second secon		
				3 (1) yd Bo	tes				
				1 (20) yd Ro	No-ik				
				1 Tanker Tr	uck				

Rolloff Containers

Load No.	Date	Manifest #	Waste Stream	Quantity	Total Quan.	Wt. Unit	Transporter	Designated Facility	Treatment
1	03/02/99	NYG1108188	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
2	03/02/99	NYG1108197	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
3	03/03/99	NYG1108206	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	25	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
4	03/04/99	NYG1108215	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWNi Chemical Services, LLC, Model City, NY	Landfill/ Trealment
5	03/04/99		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
6	03/05/99	NYG1111482	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu,yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
7	03/09/99	NYG1108899	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Mode, City, NY	LandfilV Treatment
8	03/09/99		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	25	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
9	03/12/99	1000 Decartificate 1-1-1-1-	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
10	03/12/99		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
11	03/19/99		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
12	03/25/99	NECOSPOLICE CONTROL	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
13	03/25/99		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
14	05/11/99		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
15	05/11/99	CONTRACTOR OF THE PARTY OF	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	•	25	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Modei City, NY	LandfilV Treatment

16	05/19/99	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	. 1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	Landfil/ Treatment
-		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Environmental Group	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
20	05/27/99	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Hazmat Enviromental Group	CWM Chemical Services, LLC, Model City, NY	Landfil/ Treatment
-00		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
		RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC, Model City, NY	LandfilV Treatment
12	06/11/99	RQ Hazardous Waste, solid, n.o.s. (D008), 9, NA3077, III	1	30	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC, Model City, NY	Landfill/ Treatment
	Total		23	675	cu.yds.			

Drummed Waste

Load No.	Date	Manifest #	Waste Stream	Quantity	Total Quan.	Wt. Unit	Transporter	Designated Facility	Treatment
1	03/23/99		RQ, Waste Corrosive Liquid, n.o.s., 8, UN1760, JII (D002, D008)	5 Drums	2500	lbs.	Tri-State Motor Transit, Co.	City Environmental, Inc.	Stabilization/ WW Treatment
1	03/23/99	1701 TAN 170	RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, III (D008)	2 Drums	620	lbs.	Tri-State Motor Transit, Co.	City Environmental, Inc.	Nuetralization/
1	03/23/99		Waste Corrosive Solid, n.o.s., 8, UN1759, III (Soda Ash)	5 Drums	1950	lbs.	Tri-State Motor Transit, Co.	City Environmental, Inc.	Stabilization/ Landfill
13	06/11/99		RQ, Hazardous Waste Solid, n.o.s. (Lead) 9, NA 3077, III (D008)	2 Drums	1000	lbs.	Freehold Cartage, Inc.	Environmental Enterprises Cincinnati, Ohio	
	Total			14 Drums	6070	lbs.			

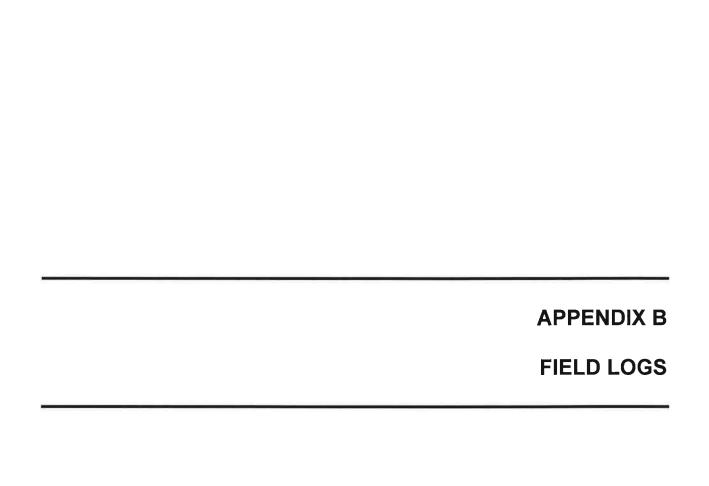
Bulk Liquids

Load No.	Date	Manifest #	Waste Stream	Quantity	Total Quan.	Wt.	Transporter	Designated Facility	Treatment
1	03/25/99	DOMESTIC STATE	RQ Hazardous Waste, Liquid, n.o.1. (D008), 9, NA3082, III	1 Tanker	3,766	gal.	Hazmat Environmental Group	CECOS International, Inc. Niagara Falls, NY	W/W Treatment
2	05/26/99	0227.096	RQ Hazardous Waste, Liquid, n.o.s. (D008), 9, NA3082, III	1 Tanker	4,000	gal.	Hazmat Environmental Group	CECOS International, Inc. Niagara Falls, NY	W/W Treatment
	Total			2 Tankers	7,766	gal.			

) Contaminated Soil

	Date	Manifest #	Waste Stream	Quantity	Total	Wt.	Transporter	Designated Facility	Treatment
lo.				+1810 (SU2)		Unit	1.09411E40.27E	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10	martine (1949)
1	06/03/99		RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (18 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	Landfill
			9, NA3077, III		-			Model City, NY	Treatment
2	06/03/99	NYB7628382	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (22 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	Landfill
			9, NA3077, III					Model City, NY	Treatment
3	06/07/99	NYB7628463	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (22 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	LandfilV
			9, NA3077, III	TI.		~		Model City, NY	Treatment
4	06/07/99	NYB7628454	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (22 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	Landfill/
			9, NA3077, III					Model City, NY	Treatment
5	06/08/99	NYB7628427	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (21 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	LandfilV
			9, NA3077, III					Model City, NY	Treatment
6	06/08/99	NYB7628436	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (21 lons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	Landfill/
Ţ., .			9, NA3077, NI					Model City, NY	Treatment
9	06/09/99	NYB7628418	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (21 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	Landfill/
			9, NA3077, III					Model City, NY	Treatment
10	06/09/99	NYB7628445	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (21 tons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	Landfill/
			9, NA3077, III					Model City, NY	Treatment
11	06/10/99	NYB7628472	RQ Hazardous Waste, Solid, n.o.s. (D008),	1 (21 lons)	20	cu.yds.	Freehold Cartage, Inc.	CWM Chemical Services, LLC,	LandfilV
			9, NA3077, III		1 2	J 55.765.	o processor	Model City, NY	Treatment
	Total			9 (189 tons)	180	cu.yds			

	Date	Manifest #	Waste Stream	Quantity	175.5.1	WL.	Transporter	Designated Facility	Treatment
1	03/16/99		Battery, Electric Storage Wet (Filled With Acid), Corrosive Material 8, UN2794, III	4 pallets	12,940	100	J&M Schaefer, Inc.	J&M Schaefer, Inc. Lancaster, NY	Recycling
2	03/16/99		Battery, Electric Storage Wet (Fifled With Acid), Corrosive Material 8, UN2794, III	3 pallets	7,550	lbs.	J&M Schaefer, Inc.	J&M Schaefer, Inc. Lancaster, NY	Recycling
3	05/12/99	gevensummer =	Non-Regulated Oxidized Lead Plates for Recycling	2 pallets			Hazmat Environmental Group	East Penn Manufacturing Lyon Station, PA	Recycling
4	05/27/99	Bill of Lading	Lead (Waffle Plates)	12 pallets	34,425	lbs	Steel City Recycling	Steel City Recycling, Inc. Lackawanna, NY	Recycling
	Total			21 pallets	54,915	lbs.			



Weather Conditions: 22 And 36 Project Site: Electruck Project No: 2007 0262.00 Date: 4 10 30 Date: 4 10 Date: 4	TVGA			URFACE SOI	L SAMPLING LOG	
Sampling Location Time Analysis Comments SS-1 1800 ph. Location for Second Sec	CONSULTANTS Weather Conditions				Project Site: Electruck	
SS-7 1000 1 1000 1 1000 1000 1000 1000 100						
SS-2 INTO INCLUDE A STANDARD TO A STANDARD T		Time	Analysis		14.	
SS-2 INTO 11 Rich on the proof dayself,	5.50 \$	1000	phlica	1 ich / (g) L	brown too seil moist	
SS-3 1070 1 Diamhadish sell their we see 1 1035 1 Milliam deeth bicam along colonia we see 1 100 11 deeth bicam sell day met see 1 100 11 deeth bicam laysed, met cross see 1 100 11 deeth bicam laysed, met cross see 1 100 11 deeth bicam laysed, met cross see 1 100 11 deeth bicam clay searched crot hail and constructed crot hail and constructed crot hail and constructed see 1 100 11 deeth bicam clay searched crot hail and constructe	45-2	1010	P.	Rich Jak		7254
SS-6 1100 11 desk beam seet, day met some water of state after water of seed to the seed of the seed o	55-3	1020	t r	bloom/		Ê
SS-5 1045 (1 Month of Second S	55-4	10 35	- Company	Midle deck	beam clay, colorine wet	
SS-F 1115 11 days become key - solvented and tail about the state of t	55-5	1045	1	LA DONA MARKET STALL OF	A47/1	
Sampling Info: Sampling Info:	45-6	HOD	1.1	deilelen m	Lessel wet very even	
Sampling Info: Sampling Info:	55-7	IIIS	(4	11		241
Sampling Info: Comments M.K. H. Alm - NY See Specific and Sounds Touchers A. H. F. Eld	55-8	1175	1.7	deal los so		1 10
Enterprise Drive Comments: Miki Histon - NY Suze preapped Sample Touchons In the field		111-2	1		1	
in the field			(SS-2	osd F	A P a r k D	
ogged By. A Alkainski	Comments: 100 f	The second of th	D) - //}	Sues pero	pped Sample lacetors	
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	Logged By	Keiser.				

				
TVOA		Sl	JRFACE SOI	L SAMPLING LOG
Weather Conditions	: Sunt	\ <u>-</u>		Project Site: Electruck
-				Project No: 2007.0262.00
				Date: 4-10-09
Sampling Location	Time	Analysis	Comments	
55-9	1135	or, led	MS/MSDA	
			Near ditch.	Lots of gravel from
			porkinger	rea theleselycly
			brownw	
			4	Hy-clay in Chassy even
			damp-7mi	6
			4:	
Sampling Info:	bot	c		36stles
Er	nterpris	e Drive		D r

Logged By:

Africants:

-	١.	11	-	A
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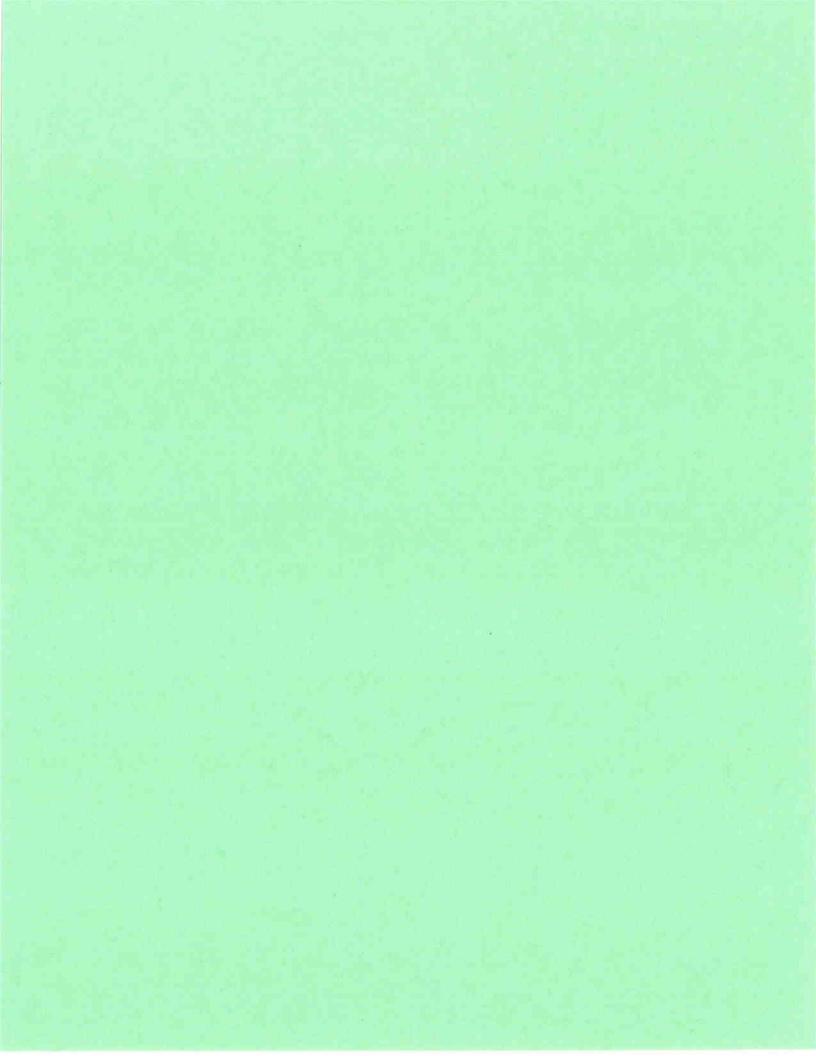
SURFACE SOIL SAMPLING LOG

CONSULTANTS		SE	DINENT	1 to 3
Weather Conditions	: Sugar	(e.t 52	10	Project Site: Electruck
	- 0			Project No: <u>2007.0262.00</u>
				Date: 4-10-68
Sampling Location	Time	Analysis	Comments	
SEDI	1345	PCB-18-	ditch a	Long entropiese town with
		Svas	Somesta	ivel from road. Sohvattel
5800		tx		Ecclleckdyst Brokeshard
			Treacher	a concrete prid of catholisis it
5503	1400	1.0	brown wid	4 red tige of color chy
			and sol	history
			T.	
SEU-2	1470	open comment	mostly on	Hailroots wice law if Las
			Cardon	1 clyples
Sampling Info: Concrete pad D A P a r k D r				
Comments: W.	ho. Fi	es		ingamenter during fast

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SURFACE SOIL SAMPLING LOG

I VGA\	8		EDIMENT	4 b 5
Weather Conditions	: <u>-5</u> un	ny teel	50°	Project Site: Electruck FEB SED Project No: 2007.0262.00 Date: 4 10 0 3
Sampling Location	Time	Analysis	Comments	
560-4	1410	5 Hables	& Little 5/2	well, very much, darkfrown
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\$20-5	1445	11	Glowellan	ed griffy sand. Brewn, light you
			and black	epieces of sectionent. Collected
			From Saux	op area hear south side of
			buildingno	entwill.
		SEI Colecki	from 10 . Isw	D A P a r k
E	nterpris	e Drive		4
Comments: 1974	Ke Has	D CZ	<u> </u>	The to sample 312 is
Collection	1 6071	be d	one with	Grandwite Franzis
Commentation (Fed. 4164)			And the second s	
Logged By	Kar	441 A 3 E	4	



Test Pit,#			TVGA	
TP/	TEST PIT	TEST PIT LOG CONSULTA		
Project Name: Test F Project Location: For	Pit Investigation mer Electruk Battery Site	Project No: Date 4-16-	2007.0262.00	
Description				
Depth			P//	
AND THE PERSON OF THE PERSON O	맛집 하는 것이 나는 맛이 없는 그리는 그리나 없는 그리고 있는데 되어 그리어야 되었다.	alty de so teres	long 1 Street	
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3 5/07	un siftyclay	AHleprices	Land o	
4 1020	Cilm binon Will	ard of the	selfyda,	
5 000	m sillyday >	albute F	ed hove sometan	
7 mott	led silly day	biom, long.	ed, grey salvete	
Comments:	Trace whole rocks	2' dionete.		
Location Sketch	1000 31Mg 10100	Cross Section:	5hel	
El Tra-1	[]	CIUSS SECTION.	231	
	concerts I D A			
	Pa	(e ==	ork be made soil 25	
	r k	nw.	Silly Class	
Enterprise D	rrive D	1 200	Silly clay J.	
7P.10	(7)	Geo	drock	
315	ĥ			
Geologist: Janette L.	Kaminski	Operator: Town of Lo	ockport Tim Stranges	

1-3' to skirt 850

Test Pit #		TEST PIT LOG			ANTS
Project Nan Project Loca	ne: Test Pit Investigation ation: Former Electruk Battery Site		Project No. 2 Date: 4-16-2	2007 0262.00 2008	
Description					
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Location Sk	etch	Cross	Section:	· ·	
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-		k	Lan		
E	interprise Drive	D r	Moth	dela.	
P-Z P	(5) 830		Moth	de	
Geologist	Janette I Kaminski	Operat	or Town of Lo	cknort	

	Test Pit#	TES	Γ PIT LOG		TVGA	
	Project Name: Test Pit Project Location: Form	Investigation er Electruk Battery Site	9	Project No: 2 Date: 4-16-2	2007.0262.00 2008	
	Description					
ictions.	Depth	,				PIZ
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	il Sume	+ more con	pact/ Colum	ve. cont	and peices apart	
		um silly cl			************************	
	5 17 5	one graves	(230/11/e s.	mol. Se	ono green recorded Be	e se i
	3 Dry	H. Speet	10 ,000	7		
	Comments:	Analyze	TP3 "	(3)	Forgeneral's	17/2
	Location Sketch	850	A / Cross &	Section:	info	
		contride pad			Ĭ.	
	219	L	A			
	1.13		3	10	charges H	
			- K		ckeyez = 1/7	
	Enterprise Dri	ve	T D		<u> </u>	
				1		
	Geologist: Janette L. K.			or: Town of Lo	America	

W 65

Test Pit	#4		AM PIT L	OG	TVGA	
	ame: <u>Test Pit</u> cation: <u>Form</u>	Investigation er Electruk Battery Site		Project No Date: 4-16	: 2007.0262.00 3-2008	
Description	on					
Depth						
0	Surface:	Cark bion	: S	rigery silt	Gussy/Mistle	
1	+1847	5 packed Si	Hy de	y browns	something mais	
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	brown is the red how some red little law mottling.					
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	- Glay	gravel				
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	Enterprise Dri	ve	D			
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			A.			

Operator: Town of Lockport

Geologist: Janette L. Kaminski

1	Test Pit#	TEST PI	LOG	TVGA
	Project Name: <u>Test Pit</u> Project Location: <u>Form</u>	Investigation er Electruk Battery Site	Project No: Date: <u>4-16-</u>	2007.0262.00
	Description			
	Depth			ρ
164 J-109	1 red his	on SIlty cky	Large paices Large paices deloris	of grand, &a.
	3 3/0 / 1/	y g and the course of the cour	No grand.	
	4 All red	brown clay. 11	ny paires of lo	(ds)= > < 2"me.34
	456, 11 6 45	Small grevel 14 large codes 5 rock	< 1 foot mon	st od/wan 11
-	7) feet		
	Comments:			
	Enterprise Dri	tonerde D A P a r k	Cross Section:	Tak 1 14.5
	Geologist: Janette L. K	aminski	Operator: Town of L	ockeat

Test Pit #	TEST PI	ГLOG	CONSULTANTS
Project Name: <u>Test Pit</u> Project Location: <u>Form</u>	Investigation		2007.0262.00
Description			
Depth			
0 Surface:	derk brown by	soil in gies	by over lower mussy
\$ 1 TP-6	(1) 1010 Am f	ill over der	le brosnszil and
2 red be	on littlegram si	Hidan Son	e large smootheod
< 0.5'		Lesice	The same of the sa
3 I/ <	Thurt		
4 mutileo	clay redbion	some arrage	Somogray, Maist
5 11 Mar	e grey than red b	INA	
18 5 NEC	brown siltyday !	illésand si	meethigierel vosing
Comments:	5,5 +00	of Finis	110251-41
Location Sketch		Cross Section:	6/04
	sonanthi pad DA	2	152
Enterprise Dri	ve Missy D		
Geologist: Janette L. K	aminski	Operator: Town of L	ockport

Mygh

1045 Finish

Test Pit	#	TEST DI	F1.00	TVGA	
Project Na	ame: Test Pit	TEST PIT Investigation er Electruk Battery Site		CONSULTANTS 2007.0262.00 2008	
Description	on	THE PARTY OF THE P			
Depth	give ton				
0	Surface: 9	lives y even nearly	Front of building	J. 10 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Paculi 6	roman top soil d	anger 5117, mis	+	
1,5- 2	mother to for	redbornalitheo		ithy clay	
3	11 / wd				
4	£ 1/	moist	Song long lear		
5	Screle tro		weeless grey.	red brom-stray word box	
6,	2	3.6			
Con	nments:				
Location S	ketch		Cross Section:		
	Enterprise Dri	concrete prid DA Park Dr		epocit chaysoit	
Geologist	Janette L. K	aminski	Operator: Town of Loc	ckport	

Project Name: Test Pit Investigation Project Location: Former Electruk Battery Site Description Depth: O Surface low year on count of building the Colory of the Colory	TF	P	5	TEST PIT LOG		CONSULTANTS					
Depth. O Surface. Ion aver on corre! of building. Glayer Silt derk brown to Soil recket core 1 2 des gravel 22 research silt where she was I food down I filled in flath 2 gravel and silty clay gray and red brown fill type material mixed wall-ned clay-silt red brown 3 regular 1 25th some Sandy Light color 4 gray reduced perices. Follows Seef tall of water 5 Comments: Location Sketch Cross Section: Extensive Dates D Cross Section:	Pro Pro	oject Name oject Locati	: Test Pit Investigation: Former Electruk	on Battery Site				-			
Surface. Jon area on correl of building Slanger sitt derk brown to soil reckotern 1. 2 les agreered 2" reme sond sitt watership of a I look down Ptilled within 2 stand and sitty clay group and red brown fill type material mixed waterial clay-sitt red brown 3 year dist grotter some sandy light color 4 grey water of percent 5 pt. 50005, VOCs, PCBs, LLRA motolog fest 6 Comments: Location Sketch Cross Section:		escription									
Stanger Silt Clerk Brown legs of rocks team 1 2 105 degreed 22 rose soud silt where ships at a I foot down Ptilled with the 2 stand and silty clery group and red brown 4 11 type material mixed with partire brown grey distribute. Some Sandy light color 4 grey wall of peices. Rock and Steet tall of water 5 Comments: Location Sketch Cross Section: Estancia Dibles D Comments: Location Sketch Cross Section:		pth:			F2 - 0000 - 1						
Discrete Bobs Description Debis Discrete Bobs Di			Clayer "	silt der	K br	7	dis	reckoten	× 42		
2 stand and gilly clay group and red brown 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1-2		curel < <	2 () i	1 - 5 /	17-2-177	-		
Comments: Location Sketch Cross Section: A 11 type interval mixed malerial clay-sitt roof brown spreng histograms samely light color 4 grey malerial prices. Comments: Location Sketch Cross Section: Cross Section:	ļ		whitensh	7 -11	1		1	(Fe wi Fig.	40		
District Dis		2	(100 11 1 10 10 10 10 10 10 10 10 10 10 1								
Drawn grey distributes Some Sandy light colors 4 grey new of peices. 5 PL SVOCS, VOCS, PCBe, LCRA motally Pest 6 Comments: Location Sketch Cross Section: P a parties private of the parties of the	120 8	3 7	12 2 2 1 1			2	D relea	4-5/H NO.	7		
Comments: Location Sketch Cross Section: Cross Section: Construction Debter TP St D A P a structure of the structure of t	17		bloom 350	1 67	7.85 67 7		77	1 1 1	- 6		
Comments: Location Sketch Cross Section: Cross Section: Cross Section: Cross Section:		4	a consumation of the contract		-			2			
Comments: Location Sketch Cross Section: Cross Section: Cross Section: Cross Section:			Rockle	X Stept	- Ten	llohum	ter				
Comments: Location Sketch Cross Section: Experite part TP 2 D A P a		5				U					
Comments: Location Sketch Cross Section: D A P a Cross Section: Cross Section:			04,50	0C5 VOCS	PO	3º UR	A mostal	S. Fest	The state of the s		
Location Sketch Cross Section: D A P Shipe truncal block A Location Sketch Cross Section:		6	£ 1		, ,	- f	Dress Extremeliation in the				
Location Sketch Cross Section: D A P Shipe truncal block A Location Sketch Cross Section:	_										
Enterprise Debia		Comments:									
P a bypeil + sheet black D	Loc	cation Sket	ch - ·		Cross S	Section:			1		
		Ent	ped .	P a r k			Epsel (+ Three true (hatters	- to war	The second secon		
Geologist: Janette L. Kaminski Operator: Town of Lockport	Geo	ologist Jar	nette L. Kaminski		Operato	or: Town of Loc	okport				

Test Pit		TEST	PIT LO	3	TVGA	
Project Na Project Lo	ame: Test Pit ecation: Form	Investigation er Electruk Battery Site		Project No: 2007.0262.00 Date: 4-16-2008		
Description Depth	оп					
0,5 -	he	5-0,5 deckb.	wert d	swering		
1		signatily da			meist to a poices.	
2	71	1	STATE OF THE SAME AND ASSESSED.	A. Series and the Series		
3	400 L F. B	y mottled tayer	5 red bi	continu	30 - JAY, Rold Neilbir	
4		1 1 0	the los	sking		
5	Linger	sitt to ayour	0 -	a per Pi	sixy mist-chy	
6	Bed.	rode (a) us	2			
	Nos	angle	Finish	1130		
	nments:					
Location S	Enterprise Dri	occurate D A A P a r k		Section:		
Geologist	Janette L. K	aminski	Opera	tor: Town of Lo	ckport	

				The state of the s
Test Pit	<u>#</u> 0_	Start 11 TEST PIT		TVA
Project Na Project Loc	me: <u>Test Pit</u> cation: <u>Form</u>	Investigation er Electruk Battery Site		Project No: 2007.0262.00 Date: 4-16-2008
Description	on			
Depth				
0	Surface: (rivel sizes from	er pex	sking in more some ware
0-1	Grand	(mixed with (it))e	10 010	rked pedblownely + gray
2				
1-3	brewe woods large	of Down & F	77	the sand, salvated is idea some Syncha welpinTP
5-	4.5	5-rock som	is law	geralos 2.5' Wide
6	(de	of non-li	u-ch	
Com	nments:			
Location S	ketch		Cross S	Section:
	Enterprise Dri	controls ped DA P a r k		
Geologist	Janette L. Ka	aminski	Operato	or: Town of Lockport

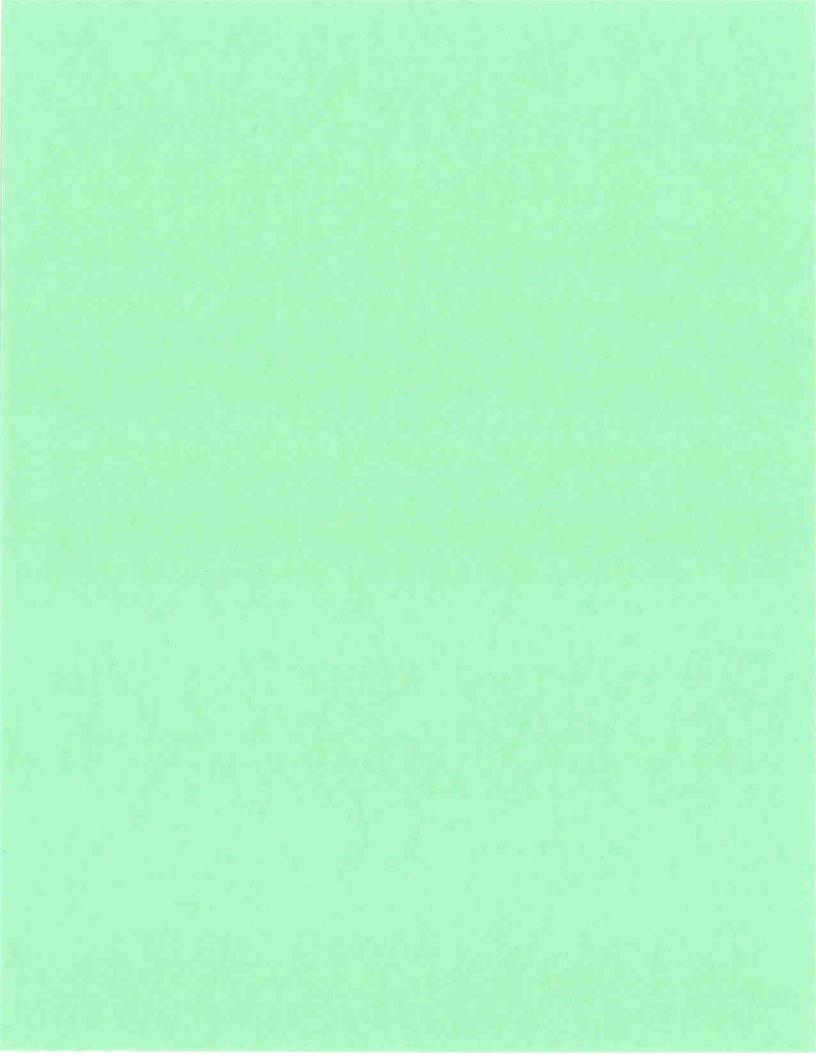
		production and the same and the		
Test Pit	#	TECTO	T 1 00	TVGA
		TEST PI		CONSULTANTS
Project Na Project Lo	me: <u>Test Pit</u> cation: Form	Investigation er Electruk Battery Site	Project Date:	et No: <u>2007,0262,00</u> _4-16-2008
				THE REPORT OF THE PARTY OF THE
Description	on			
Depth			# 4. 1	
0	Surface:	imay area Orm	T A sign	esill dock box on my
1	hed bo	rom silly day	Misst 1	Tistellemony sizes + deb
		ordares !	Postfie d	ctris nails plashe, PVC
2,	2 redb	ionen little ton	1 action	Fore angules grovel
3	nad 1	1019	14 . 1 -	lan moist
3	I VOEN WAY	and sarry ST	II and C	lay morst
4	cec (D)	and mottling	w/crowse A	amoudsney, maist
			- <u>/</u> +	7101
5	260	with 1	11/6 5/54	rel al
6				
Con	nments:			
Location S	Enterprise Drin	oonsriate pad A P a r k	Cross Section:	
Codorist	lanette i Kr	anínobí	Operator Town	a of Looknowt

					empen \ / A			
Test Pit	#				1/1/2			
TP/	2	TES"	T PIT LO	3	CONSULTANTS			
		Investigation er Electruk Battery Site		Project No: 2007.0262.00 Date: 4-16-2008				
Descripti	on							
Depth								
0-	Surface: (cropy acres de	v.Kbi.ami	block lesse	il Cayeysitt. Doe			
1	red bi	one and be	lock lysoi	Silty	lang			
2	+ ger	swilling sed b	Nom - 51	ey little o	come 5. Hy clay Me			
3	(-21Cin	willsome pp	dboom	2 m -18 red	molling Silhar			
)	1 5000 10	ocks .		7 7			
4	_moHle	& blocking to	los redi	brown to	Morrige Silly clayed			
5	Sany	with some	- 74 -dy	114 m	×1			
3	7,500-6	WITH JOM	14000	2111	ofty grey colos			
6	grey	Silty Clary	in this	m4 500	ed. congraces			
		1.5 40 SMES	le grave	(EZ"				
Location S	nments:							
	F-13	tonereds prod	I D A P a r k D r	Section:				
Geologist	Janette L. Ki	aminskí	Opera	tor: Town of Lo	ckport			

Test Pit#				TVAA
TP13	TEST PIT	LOG		CONSULTANTS
Project Name: Test Pit Project Location: Form	Investigation er Electruk Battery Site	-	Project No: 2 Date: 4-16-	2007,0262.00 2008
Description				
Depth				
0 Surface:	7-0.5 Angules	1. Vey 513	mel	12 : 4 / h (2 : 4 = 2 : 1 : 1 / 1 : 1 / 1 : 1 / 1 / 1 / 1 / 1
06-2255	fillsupTt' to al	× 51	Hy clay	water is grey
Z-57 Notes	tills up Th' to a 1	toot be	7	s Peri TO L
2 9500 A	25 bgs.	71117 0	lay him	textilling TP by
	rocks- till langer	2111	Scark V	ed brom dry
3				····
Į. Į.	1154/340		************	
4				W. Martin VIII.
	The same of the sa	Appropriate the second second second second	The state of the s	
5				
6		W		
Comments:				
Location Sketch		Cross S	ection:	
Enterprise Dri	pad P a r k			
Geologist: Janette L. K.	aminski	Operato	r: Town of Lo	ckport

	T					The second second
Test Pit#						I VC 7A
TP- / - /			EST PIT	LOG		CONSULTANTS
Project Name: Project Locatio			ry Site		Project No: 2 Date: 4-16-2	2007.0262.00 2008
Description						
Depth		0 ()	1.1	7	1 1.	77
11 - 12 5 411 32 5 71	face: 0	-0.5 de	61000	10050	1 clayes	half is list gray l
ďž S	harris from the co	long . Tith				of the state of th
7	ld root	A Company of the	esthray			
2	. A .		1.85			T
······································	ed fice	A .	y clay v	with s	and a	nd smallageder
(c) lo	grave	4 1 1	-9185 Heller	marele	e-ci	
A 16	لتخليك	J	van lore	essection.	y	
- 6						

- 6						
Commer	nts.					
Location Sketcl				Cross S	ection:	
1 N	TI-IY ED	consists pad	I DA Park Dr		edbor	(Charles)
Geologist: Jan	ette L. Kar	ninski		Operato	r: Town of Lo	ockport

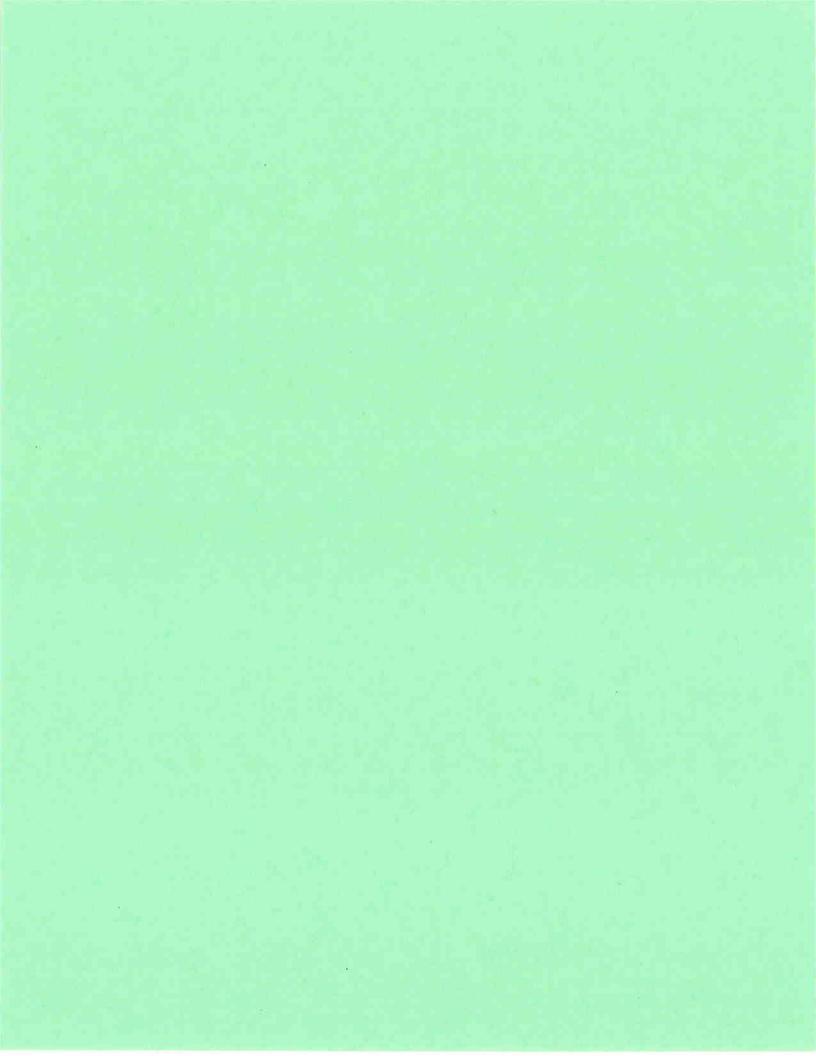


-		11	1	Â
1	1	K	7	Α
- 1	- 17		1	
0	ON	SUI	TAI	VTS

SURFACE WATER SAMPLING LOG

Weather Conditions: 2-14/3 25 F Project No. 2007. 020208 Sampling Location Su-1 Su-2 Su-3 Time 1230 1245 1500 pH 8.24 732 822 Cond. (MS/CM) Turb. (NTU) D.O. (mg/l) Temp. (°C) S. 7 8.7 8.2 Salinity (%) Sampling Info: 2005 Sampling Location 2005 Sampling Locati	CONSULTANTS			500	1 to	500.	3		
Sampling Location Sw-1 Sw-2 Sw-3 Time 1230 1245 1500 pH 8.24 732 822 Cond. (MS/CM) Turb. (NTU) D.O. (mg/1) Temp. (*C) 15.7 8.7 8.2 Salinity (*k) Sampling Info: DVCCS 1 RCES ments 1 PEB 1831 G herthograph Enterprise Drive Comments: For Sw-3 a hole was day for SED-3 in order to be able to collect water and fine was given and an inch or two clarge. Time was given and and inch or two clarge. Time was given and and sectioned to all on sections.			arty So	5"F		Project Sit	e: Elec	Khonk	
Time 1230 1245 1500 pH 3.24 732 822 Cond. (MS/CM) Turb. (NTU) D.O. (mg/l) Temp. (°C) 15.7 8.7 8.2 Salinity (%) Sampling Info: 2000 5 1 800 6 1985 0 1885			0			Project No Date:	2007	026	5.08
pH 3.24 732 822 Cond. (MS/CM) Turb. (NTU) D.O. (mg/l) Temp. (°C) S. 7 8.7 8.2 Salinity (%) Detail controls of the control of the contr	Sampling Location	Soul	54-2	56-3					
pH 3.24 732 822 Cond. (MS/CM) Turb. (NTU) D.O. (mg/l) Temp. (°C) S. 7 8.7 8.2 Salinity (%) Detail controls of the control of the contr	Time	12.30	1245	1500					
D.O. (mg/l) D.O. (mg/l) Temp. (°C) S. 7 8 7 8 2 Sallinity (%) Sampling Info: DVCCS I RCCS words I RCCS word	рН	8.24	7.32						
D.O. (mg/l) Temp. (°C) Salinity (%) Salinity (%) Define and so so terms I Rich and his directly I Rich and his directly I Rich and his directly I Rich and his directly I Rich and his directly I Rich and his directly I DA Rich and his directly I DA Rich and his directly I DA Rich and his directly I DA Rich and his directly I DA Rich and his directly I DA Rich and and his directly I DA Rich and hi	Cond. (MS/CM)	Marie Park	-						
Sampling Info: 2 VCX s Sampling Info: 2 VCX s (Turb. (NTU)	upper services	A CONTRACTOR OF THE PARTY OF TH						
Sampling Info: 2 VCX's Chitch Rear ments Chitch 1 Sect ments 1 Sect ments 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 2 Pe B 1 Pe B 2 Pe B 1 Pe B 3 Pe B 1 Pe B 4 Pe B 5 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B 1 Pe B 1 Pe B 2 Pe B 3 Pe B 4 Pe B 5 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B 1 Pe B 1 Pe B 2 Pe B 3 Pe B 4 Pe B 5 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B 1 Pe B 1 Pe B 1 Pe B 2 Pe B 3 Pe B 4 Pe B 5 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 2 Pe B 3 Pe B 4 Pe B 5 Pe B 5 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B 9 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 2 Pe B 3 Pe B 4 Pe B 5 Pe B 6 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 1 Pe B 2 Pe B 3 Pe B 4 Pe B 5 Pe B 5 Pe B 6 Pe B 6 Pe B 7 Pe B 8 Pe B 9 Pe B	D.O. (mg/l)	_		No. of State					
Sampling Info: 20005 I ROBA mends I ROBA m	Temp. (°C)	15.7	27	8.2					
Sampling Info: DVCCS I RCEX ments distrib 1 Sweet 1 PCB I REST I	Salinity (%)	_		, souther					
Comments: For Sw-3 a hole wasdus for SED-3 in order to be able to collect water cutable was ensimiled and an inchor two days. Time was given to allow sediment to fall out prior to sw-3 collect.		DHih							
to be able to collect water. Cutfall was original only an inches two deeps. Time was given to allow sediment to fall out prior to sw-3 collect	4 he	d'es one	Sh Z	3	LDA Park D	SW-Z on box pad	Lusies Co	elected on the	From omerety
	to be al	an i	collection	t in	seter Les	Pad Pa Tin	facell ne cox	12391V	en
		7. 1.			0100	14 6000	f ski	W. 30 30 40	J. L. IVELLY

CONSULTANTS Weather Condition	20.	ny, brea	24,60	ol	Project Site: Former Elecktruk Battery Site Project No: 2007.0262.00 Date: 4-20 08				
Sampling Location	1504								
Time	945								
рН	6.89								
Cond. (MS/CM)	1.237								
Turb. (NTU)	6,5								
D.O. (mg/l)									
Temp. (°C)	9.1								
Salinity (%)									
ORPIEN	26								
Sampling Info:		RC/	15- 21 13- 24 1	#15-	- 510 TCC 6	-0 00 ₂₁	762	SURS,	
	Typrise Drive	concrete pad	10 D	D	- 510 TC (1	-0 00: ₃₁	762	SURS, RCBS	
	Tprise Drive	concrete pad	15- Di	D A P a r k D	- 510 TC (1	- O	762	SURS,	



TV	JA ILTANTS					TE	BORING LOG	HOLE NO. MW-			
			truk Batte	ery Sit	e			Project No.	2007.026	2.00	
	Town		kport					GS Elev			
Contractor:								WS Ref Elev			
	undwate				<u> </u>		Equipment Data	N-S Coord			
Date	Time		pth E	lev	_	-	Casing Sampler Core	E-W Coord	diales		
1 446	9/2	vt				Туре		Start Date 4/17/08			
- , -						neter		Finish Date	CID		
l					**	eight Fall		Driller Geologist		ĸ	
Well	Depth			T	<u> </u>	T CIT	Field Description	Ocologist	Rem		
Construction		0	ō	Ē			Field Description			1	
Construction	(leet)	No	Der						PID Re		
		l de	S/S	8		ed ed			(pp		
		Sample	Blows per	Recovery	Log	Unified			Direct	Head	
			6	1			Braker OStoot		. 5		
	_		10	12"			0,000	74/1/2	(-)		
	2.2		5	110			AS-7 red brown	las			
	-		6				0.72	. 0 -	770		
	5		7				Gravel O.Stoot 0.5-Z' red brown? Z-3 red browns!	1/2 clay moist			
) ⁵ —		11				[4-5]	11 1			
	-		14	1811			3-3.5 red biomand la	4 51 7 Cmy			
	=		18	İ			and sittismay	2111 -			
	-						35-4 red 61 m 5ills	cky of			
	10		5		4"		4-49 red brongelow	4 covered			
	-		05	10			179 rey worder, 50	Wadey			
	-		50/3	0	2"		Till-Gravel peices with	Scandy Silf			
			. /				Till-Gravel peices with	69. by clony			
	(=	2		200				J. J.	•		
	15										
	-										
	(i=						Rebuil 5,3 feet				
							Reman, s teel				
	-						war in the state of the state o				
	20						Corra				
	20 —							1			
	1-						bottom 5. sfeet	in 30-0	~		
							and Applications (")	A IU JUM	' (
							bottom 5.5 tee started roller bit drilli	"	0.0	1300	
	_						used about 200 gallons	of HzUdur	175	· · ·	
	25						Card Will	Ü	·	-	
							1				
	2-						6.5 feet depth				
							,				
	30										

new boring log\Sheet1

Ron Brown Dan DeLude > 553

TVOA		WELL INSTALLATIO	N REPORT
Project Name Former Ele Project Number 2007.0262. Contractor SJB Date of Installation 4 17/0 Project Location	8	Geologist TVGA-JLK Driller SJB Well No. MW-I Boring No. MW-I Sheet of 3	- - -
Lock No Survey Datum		Elevation/Stick up Above/Below Ground Surfae of Casing Elevation/Stick up Above/Below Ground Surfae of Bisor Bisor	2.51
Ground Elevation		Ground Surfae of Riser Pipe Thickness of Surface Seal Type of Surface Seal	1 Food Cement
		Type of Protective Casing Inside Diamater of Protective	Hack lovel
Growl		Casing Elevation/Depth of Bottom of Protective Casing	4'
Top of Seal		Inside Diamter of Riser Pipe Type of Backfill Around Riser	Z" Bentanite Chips
2 <u>.5</u> Top of Sand		— Diamter of Bore Hole Within Test Section	1 11 0
	•	Type of Coupling Elevation/Depth of Top of Screen	box thread
		Type of Well Screen	# PUC
		—Screen Slot Size Diameter of Well Screen	Z"
- i sond		Type of Backfill Around Well Screen	NJ#0H#1)
3 inches sand bottom Instead obstip		Elevation/Depth of Bottom of Well Screen	6.5
instead obstig	screen bottom	Elevation/Depth of Bottom of Bore Hole	6.5

TV	JA			Т	ES	T E	BORING LOG	HOLE NO.	Mh	1-2
			truk Batte	ery Sit	е			Project No.		
Client: Contractor:	Town	of Loc	kport					GS Elev WS Ref Elev		- 1
	undwate	er Dat	a (feet)				Equipment Data	N-S Coord		
Date	Time	De		lev			Casing Sampler Core	E-W Coord	alal	
113	55tz	srt			1	Type neter		Start Date Finish Date	4/11/	58
171	(5 en	0			100	eight		Driller	SJB	
			,	,		Fall		Geologist		
Well	Depth	·	<u>ئ</u>	(in.)			Field Description			arks
Construction	(leet)	e No.	Blows per	ery		_				eading om)
		Sample	W.S	Recovery		Unified			Direct	Head
		Sa	읦	ag.	Log	5				
			2	21			Jewel stack in sho No other recovery	0 214		
			200	1			grower shee will			
			KANY				No other recovery			
)							
	5	,	G	_	71	6	Clavel-gray ongular ory 2-4 brown silty clay in Some smooth graced	(backfull?		
	-				-	10	dry		_	
	_		16	12"			2-4 clara m silty clay in	1015+	0	
	_		17	110	10		Some smoth grand	< 0.5		
	-		, ,							
	10	-	5	(.)			Red Gray Siltyclay. We some smooth scare	1-isduited		
	-		27	0			gore/smooths covel	20.5"		
	-		40	198			thread marks see follow	DRU		
	-		50/5	10%			Wiethered Mock. & Gray			
	15		10				Bedirocks'11"			
							P COLLAS 12PI	\sim		
	٦						BOSAN COLLAS 12 PI			
							Shoped at Tfeet			
	20									
							Used about 100 go	O of voler		
							Used about 100 g	0,7		
							and recirculate	dit.		
							una	* *		
	25						1 on Rill	12416		
	_						set well-frished	1(4)		
	4						10.1.			
	-						shoped for lunch			
	30						1250			
	50									

TV	JA.			Т	ES	TE	BORING LOG	HOLE NO.	Mh	1-3	
Project:	Forme	r Elec	truk Batte					Project No.			
	Town	of Loc	kport					GS Elev			
Contractor:	undwate	er Dat	a (feet)		Ι		Equipment Data	WS Ref Elev N-S Coord			
Date	Time	De		lev			Casing Sampler Core	E-W Coord	11/10	12	
start						Туре		E-W Coord 4/17/08			
2/21	N. C. C. C. C. C. C. C. C. C. C. C. C. C.				1	neter		Finish Date			
ind	142	J 			VV	eight Fall		Driller Geologist		K	
Well	Depth		9	(in.)			Field Description			arks	
Construction	(feet)	S.	er 6							eading	
		l de	S,	o ve		Pa			(bt		
		Sample	Blows per	Recovery	Log	Unified			Direct	Head	
	10	S	425 4824 504	Z' IO' Zd'		5-7	derestron topsoil, si damp ledborn siltschywi spangiavel 20,5°, 19 2-3.5 pedbrom clayer 3.5-4 " Santra Microrey. Microrey. Coller drill dozmto 5.5' by 14 Second 5) 13 truck arrive With more water.	20	Ostorgina		
	30						56A5				

TVGA		WELL INSTALLATIO	N REPORT
Project Name Former For Project Number 2007,026	•	Geologist TVGA- JLK	_
Contractor SJB ,	7	Driller <u>SJB</u> Well No. <u>MW - Z</u>	-
Date of InstallationU 7	0.0	Boring No	-
Project Location Lock	<i>t</i>	Sheet Zof 3	_
Lock No Survey Datum	\Box	—— Elevation/Stick up Above/Below Ground Surfae of Casing	2.5'
		Elevation/Stick up Above/Below Ground Surfae of Riser Pipe	2'
Ground Elevation		Thickness of Surface Seal	1,5'
k:		Type of Surface Seal	Alamoun-Silver
		Type of Protective Casing	Alamoun-Silver
	3	Inside Diamater of Protective Casing	
	15	Elevation/Depth of Bottom of Protective Casing	6
1.6140	→	Inside Diamter of Riser Pipe	Z
Top of Seal	· [2]	—— Type of Backfill Around Riser	Bentonitechips
Ada 41	12	 Diamter of Bore Hole Within Test Section 	376
Top of Sand	0.26	Type of Coupling	box Huread
	4	Elevation/Depth of Top of Screen	4 feed bys
	-	Type of Well Screen	<u>PUC</u>
	h	——Screen Slot Size	10
gi 985		Diameter of Well Screen	7
		Type of Backfill Around Well Screen	M#0
Sould 2"		Elevation/Depth of Bottom of — Well Screen	7
Somu	<i>↑</i>	Elevation/Depth of Bottom of Bore Hole	

TVOA	WELL INSTALLATION	N REPORT
Project Name Former Electruk Battery Project Number 2007.0262.00 Contractor SJB Date of Installation Project Location	Geologist TVGA- JLK Driller SJB Well No. MU - 3 Boring No. Sheet Jof	-
Lock No	Elevation/Stick up Above/Below Ground Surfae of Casing Elevation/Stick up Above/Below	Z.5
Ground Elevation	Ground Surfae of Riser Pipe Thickness of Surface Seal Type of Surface Seal	(livent
	Type of Protective Casing Inside Diamater of Protective	shekround
	CasingElevation/Depth of Bottom of Protective Casing	4'
Top of Seal	——— Inside Diamter of Riser Pipe ——— Type of Backfill Around Riser	bendenote chips
Z_Top of Sand	——— Diamter of Bore Hole Within Test Section Type of Coupling	bix thread
	Elevation/Depth of Top of Screen	3655 PVC
	Type of Well Screen Screen Slot Size	10
3-f2c t	Diameter of Well Screen Type of Backfill Around Well Screen	W #0
slip cap	Elevation/Depth of Bottom of Well Screen	6
eap	Elevation/Depth of Bottom of Bore Hole	6

4/940	_		1/	1	٨	
	00	V	SUL	JA	MTS	
Pro	ecl	N	an	ie:	For	

WELL DEVELOPMENT LOG HOLE NO: MW-1

Project Name: For	mer Electruk	Battery Sit	e		Project No: Date: April	2007.026	2.00	
Project Location: IDA Drive, Lockport, NY					Screen Ler	igth:)	
Purge Information: (1) Depth to Bottom (from TOC) (3) Column of Wate (#1 - #2) (5) Volume Converse	er:	;5(c) gal/f	(4) Ca	epth to Wate rom TOC) asing Diame	eter:		3-38 ft in gal
Method of Purging:	Peristaltic/B	ailer						
Volume Conversion								
2" = 0.163	An :	= 0.653	6" = 1	1.469	8" = 2.6	11	10" = 4.08	}
Field Analysis:	CRH A-	fabri, T	CLIEFE	BYDC	, Sicks	PC 55/1	かっナ	
Vol Purged (gal)	0	1,5	2.25	3.00	3.75	4,5	5 25	6.00
Time	1020	1122	1024	1030	1040	loss	1050	655
ORP/EH (MV)	5	14	g	6	3	-4	-6	-3
pH	771	765	7.75	7.82	7.82	7.74	7.74	777
Cond. (MS/CM)	903	1.855	1.164	1,246	1,233	1.275	1,768	1316
Turb. (NTU)	2500	7200	7260	200	7200	720	7200	105
D.O. (mg/l)	And Marie		_	+				
Salinity (%)	(werene)	men-vegetil.	all and colored to the colored to th		+===		_	
Temp. (°C)	10.9	11.	11. 2		11 9	10,8	10.8	10.4
Total Volume Purge	∋d: <u>Ç</u> ,	7/5		_gal	Total Purge	Time:/	105	
Development Info: Development Meth	od:							
Comments: 5	tarta	S. 1		ists he al	desse	les,	E Clu-	ing.
July bear	Solver		englest	untend	Ce. 16,	.,,,,,(les	Shill	
3440	lin-ie	clarso	A 4 3 1	aisid	orthy.			
Logged By:	Long	de	110.	16-1				

TVQA	WE	LL DI	EVELO	PMEN	IT LOG	HOLEN):/ ^[] []	-2
Project Name: For Project Location: I	Project No: 2 Date: April 3 Screen Lengt	0, 2008	and the second s	[pafolds]				
Purge Information:						- 10.00,000		
(1) Depth to Botton (from TOC	n of Well:	8,30		(2) [epth to Water: (from TOC)	944/		ft
(3) Column of Wate (#1 - #2)	er:	4.36		_ (4) C	Casing Diamete	r:	2	in
(5) Volume Conver	rsion:	163	gal/f	t (6) 1	Vol. of Well: _	0.71		gal
Method of Purging	Peristaltiè/E	Bailer:						
Volume Conversion	n:							
2" = 0.163	4"	= 0.653	6" =	1.469	8" = 2.611	10'	' = 4.08	
Field Analysis:								
Vol Purged (gal)	0	075	1,40	lile	,			
Time	1120	1130	1138	1215				
ORP/EH (MV)	-16	and the	American Services	15				
pH	812	8.01	8.35	910	T y			
Cond. (MS/CM)	0.702	1002	0913	0943	12			
Turb. (NTU)	7200	7200	7355		X			
D.O. (mg/l)		-						
Salinity (%)		-			(
Temp. (°C)	9.4	100	de de la constantina del constantina del constantina de la constantina del constantina	11.0				
Total Volume Purg	ed: <u>/</u>	<u>65</u>		gal	Total Purge Ti	me:		
Development Info: Development Meth	od:			Month of Mills and Secretary				-
Comments: Pug	& dy of	er Dudi	amer tok	telle	Police	Proged	dia	
. Muchrate	ty dla	16 4	lut,	Again	al historia	44- 10.	nin to	600

Logged By:

T	1	1.	1	Δ
1		//	11	/
C	NC	SU	TAI	NTS

CONSULTANTS Project Name: Forn Project Location: ID		: Battery Si	e	PIVIEN	Project No: 2007.0262.0 Date: April 30, 2008 Screen Length:	10: MW-3
Purge Information: (1) Depth to Bottom (from TOC) (3) Column of Water (#1 - #2) (5) Volume Convers		1.93	epth to Water:from TOC) asing Diameter:	in		
Method of Purging(Peristaltic/B	ailer:	gal/f			
Volume Conversion:						
2" = 0.163	4"	= 0.653	6" =	1.469	8" = 2.611 11	0" = 4.08
Field Analysis:			1 ;	T a		
Vol Purged (gal)	12	18	1.6			
Time	1220	1222	1235	.3		
ORP/EH (MV)	-31	-32	-36	32		
pH	8.00	3/12	9 30	7.94		
Cond. (MS/CM)	2-437	Ch. 73	0.400	0.763		
Turb. (NTU)	720	7200	7200	7200		
D.O. (mg/l)	The same of the sa		2011-01	:==		
Salinity (%)	normal made let the	2010		_		
Temp. (°C)	1.7	0.0	9.3	9.3		
Total Volume Purge	d:l	. 4		gal	Total Purge Time:	
Development Info: Development Metho	d:					
Comments: Pwi	ulti-j	3104	James Lander Land	e w.	og 5th voterney	ementes.
Logged By:	leurs	in /	JU	M		



WELL SAMPLING LOG

HOLE NO: MW-1, MW-2 and MW-3

Project Name: Former Elecktruk Battery Site (FEB) Project Location: Lection たい	Project No. 2007.0262.00 Date: April 30, 2008 Screen Length:
--	--

Method of Sampling and comments.

MW-1 Collected all samples with a bailer Duplicate Sample from this location FEB-MW1-Gw-O FEB-MW-BD

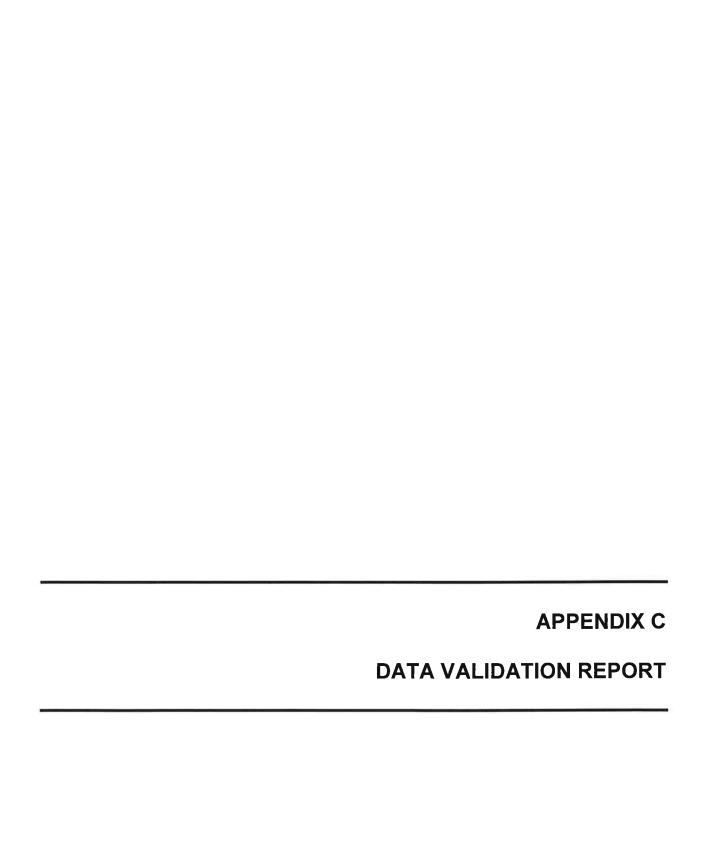
MW-2 Collected VOCs, RCRA metals samples with a bailer. And was able to collect SVOC and a partially filled Pesticide container was collected with the peristattic pump. FEB MW2-GW-O.

Arw-3 Collector VOCs, 19 GA metals samples with a belief. Only able to collect purificility life I container for SVOCs with a bailer. Unside to collect any volume for Pec V/CB analysis. FEB-MW3-GW-O.

Field Analysis: TCL VOCs, RCRA metals, SVOCs, Pesticides, PCBs

Location	MW-1	MW-2	MW-3	Duplicate	(MW-1)			
Sample Time	1425	1500	1520	1440				
ORP/EH (MV)	-6	-7	-24					
pН	7.11	7.58	7.97					
Cond. (MS/CM)	1.175	1.112	Not enough volume					
Turb. (NTU)	7.9	15.7		Viscolly	lesstly	-,507	OF MEKID	Sorrale
Temp. (°C)	11.5	10.2	13.3					
Comments								
bottles	6	5	4	6				

Alkamiski J CM



Data Validation Services

120 Cobble Creek Road P.O. Box 208 North Creek, NY 12853

> Phone 518-251-4429 Facsimile 518-251-4428

June 30, 2008

Dan Riker TVGA Engineering P. O. Box H Elma, NY 14059

RE:

Data Usability Summary Report for the Former Electruk Battery site

Chemtech SDG Nos. Z2363, Z2438, Z2643, and Z2784

Dear Mr. Riker:

Review has been completed for the data packages generated by Chemtech Laboratories that pertain to samples collected between 4/10/08 and 4/30/08 at the Former Electruk Battery site. Five soil samples, six aqueous samples, and an aqueous field duplicate were processed for TCL volatiles, TCL semivolatiles, TCL pesticides, and RCRA metals. All but one of those aqueous samples was also analyzed for TCL PCBs. Two soil samples were processed for TCL semivolatiles, TCL pesticides, TCL PCBs, and RCRA metals. Five soil samples and one aqueous sample were analyzed for TCL volatiles, TCL semivolatiles, and RCRA metals. Two of the sediment samples were also processed for TCLP lead. Nine soil samples were analyzed for total lead. Methodologies utilized were the USEPA SW846 5000/6000/7000/8000, with some additional QC requirements of the NYSDEC ASP. Sample matrix spikes, and rinse and trip blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Preparation/Calibration Blanks
- * Field Duplicate Correlations
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes and IDLs
- * Calibration/CRI/CRA Standards

pg. 3/6

One of the jars for SED-4 was mislabeled as SED-3. The client was contacted, and identification was resolved by observing the texture of the two samples.

TCL Volatiles by USEPA 8260B

FEB-SED-2 and FEB-TP6(1) show low responses for one or more internal standard, indicating a matrix effect on target analyte results in those samples. Results for the affected compounds associated with the outlying internal standards have been qualified on the attached sample result forms as being estimated in value (the reanalyses are preferred). All results for the former sample are qualified as estimated due to low solids content.

Recoveries for Laboratory Control Samples (LCSs) are within required ranges, with the exceptions of the following, results for which are qualified as estimated in the associated samples:

- o carbon tetrachloride (55%) in the Rinse Blank and Trip Blank of SDG Z2438
- o vinyl chloride (65%) in FEB-SED-2
- o chloromethane and vinyl chloride in all soils reported in SDG 2438 except FEB-SED-2

All calibrations standards show responses within validation guidelines, with the following exceptions, results for which are qualified as estimated in the associated samples:

- o 1,2,4-trichlorobenzene (34%RSD) in soils reported in SDG Z2438
- o dichlorodifluoromethane (40%RSD) in aqueous samples reported in SDG Z2438
- o carbon tetrachloride (25%D) in FEB-SW4-SW-0, FEB-MW1-GW-0, and FEB-MW2-GW-0
- o methylcyclohexane 29%RSD) in FEB-MW3-GW-0, FEB-MW-BD, and associated Trip Blank

The reanalysis of FEB-TB2(5) can be used without qualification.

Aqueous matrix spikes of SW-2 show acceptable accuracy and precision. No soil matrix spike evaluation is provided.

NYSDEC ASP holding times were met, surrogate recoveries were acceptable for the analyses utilized, and blanks show no contamination.

Tentatively Identified Compounds (TICs) flagged as "B" by the laboratory are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

The TICs reported with CAS numbers should also have been flagged as "N" by the laboratory to indicate that they are tentative identified.

Semivolatile Analyses by USEPA 8270C

Results for analytes initially reported with the "E" flag are to be derived from the dilution analysis. Other results for those samples can be used from the initial analyses.

The pesticide matrix spikes of SW-2 show slightly low recoveries for d-BHC, and results for that compound in the parent sample are therefore qualified as estimated in value. The pesticide matrix spikes of FEB-TP3(3) show low recoveries for endrin ketone (68% in both). The result for that compound has been qualified as estimated in the parent sample.

The results for d-BHC in the samples reported in SDG Z2643 are qualified as estimated in value, with a possible low bias, due to low recovery (34%) in the associated LCS.

4,4'-DDT shows initial calibration linearity on both column that is outside validation criteria (27%RSD and 44%RSD). Results for that analyte in the samples reported in SDG Z2363 are qualified as estimated in value, with a possible low bias.

NYSDEC ASP holding times were met and blanks show no contamination.

The pesticide chromatograms were not scaled to NYSDEC ASP requirements, and the area integration output reflects analyst review. Therefore, it is not possible to independently verify the reported non-detected results in certain of the samples.

TAL Metals/CN and TCLP Lead by 6010B and 7470/7471

Results for elements that are flagged by the laboratory as "OR" are derived from dilution analyses of those samples.

The Rinseate Blank of 4/16/08 shows detection above CRDL of three analytes also found in the associated samples. The following results are therefore considered external contamination, and have been edited to reflect non-detection:

- o arsenic in FEB-TP3(3), TP8(3), TP2(5), and TP6(1)
- o chromium in TP2(5)

The matrix spike/duplicates of FEB-SS-9, SW-2, soil batch QC, and the TCLP lead batch QC show acceptable accuracy and precision, with the exception of an elevated recovery for selenium (134%). Sample results show no detection of that element, and are therefore not affected.

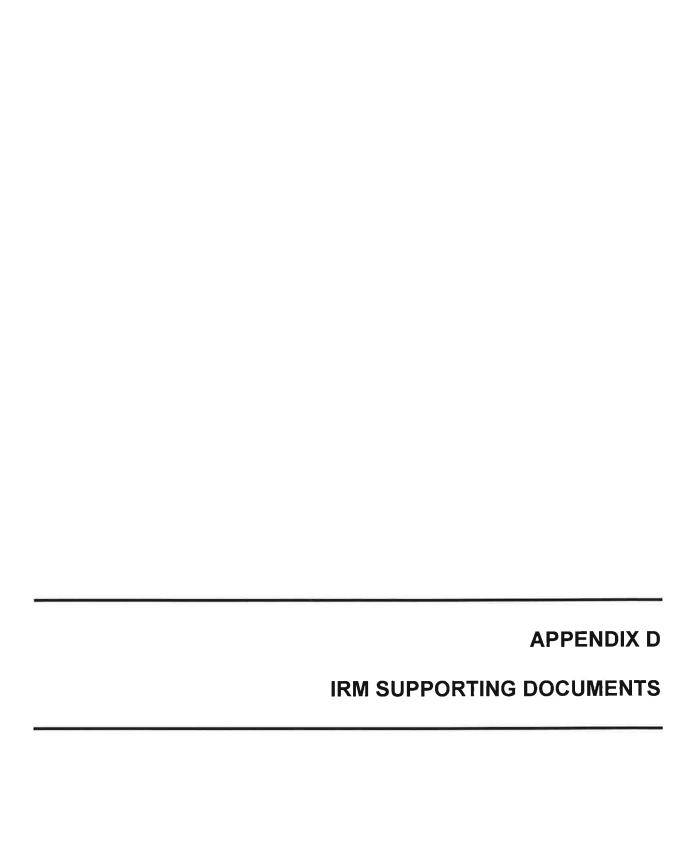
The ICP serial dilution evaluation of FEB-SS-9 shows outlying correlations for lead (16.6%D) and chromium (10.6%D). Therefore, results for those two elements in the soil samples reported in SDG Z2363 are qualified as estimated.

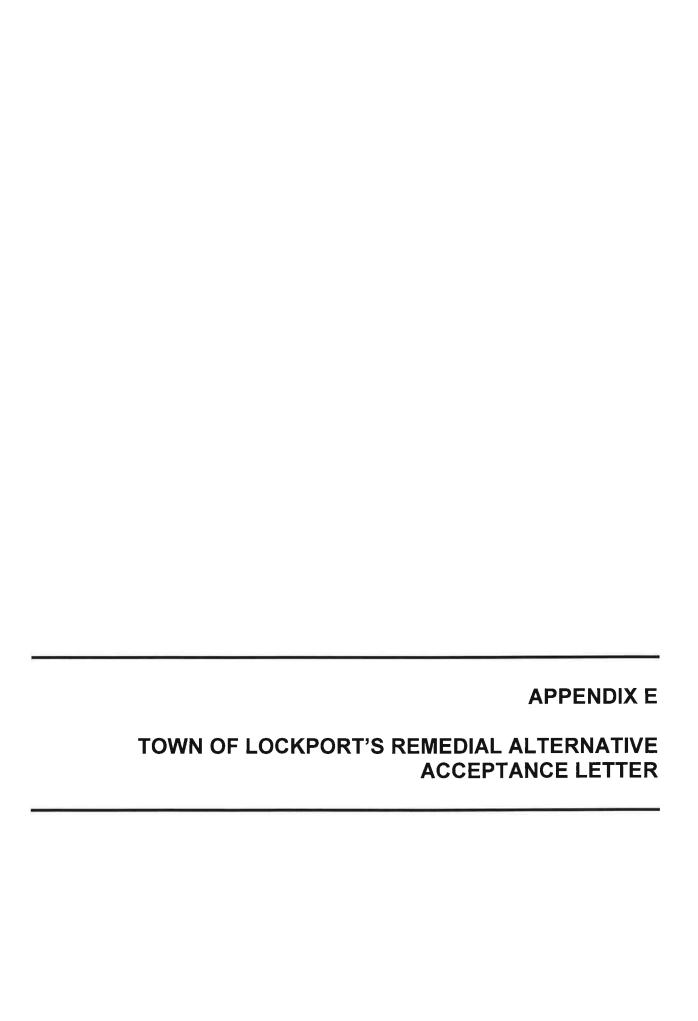
Lead shows an outlying ICP serial dilution correlation in the soil batch QC for Z2438 (76%D). Results for lead in those samples have been qualified as estimated ("J").

The ICP serial dilution evaluations of SW-2 show acceptable correlations. The TCLP lead batch QC shows an elevated correlation, but project TCLP sample results are unaffected.

The QC Summary Form 10 showing IDLs does not show the dates that those instrument parameters were determined.

VALIDATION QUALIFIER DEFINITIONS

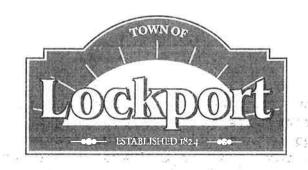




SUPERVISOR
MARC R. SMITH

TOWN CLERK
NANCY A. BROOKS

SUPERINTENDENT OF HIGHWAYS LEWIS J. HAGEN, JR.



COUNCIL MEMBERS
CHERYL A. ANTKOWIAK
MARK C. CROCKER
PAUL H. PETTIT
PAUL W. SIEJAK

TOWN ATTORNEY
DANIEL E SEAMAN
(716) 433-5907

October 31, 2008

James C. Manzella, CHMM TVGA Consultants 1000 Maple Road Elma, New York 14059

RE: Former Electruk Batter Site RI/AA

Dear Mr. Manzella:

The Town of Lockport (Town) has been presented with the remedial alternatives outlined in the Remedial Investigation/ Alternative Analysis (RI/AA) report to address the contaminated media identified during the RT of the project site. Based upon the intended future use of the project site for commercial or light manufacturing uses, the Town agrees with the recommendation to select Alternative B as the remedial alternative for implementation at the project site. The Town understands that by selecting Alternative B, future use restrictions would be applied to the project site including an Environmental Easement (EE) to restrict the site's future use to commercial and/or light manufacturing purposes and the development and implementation of a soil management plan to address the handling of contaminated soil that would remain on-site. Additionally, to demonstrate that requirements of the EE are in place and effective an annual certification to the New York State Department or Environmental Conservation would be required. Lastly, the Town also understands that these future use restrictions would apply to all future owners of the site.

Very truly yours,

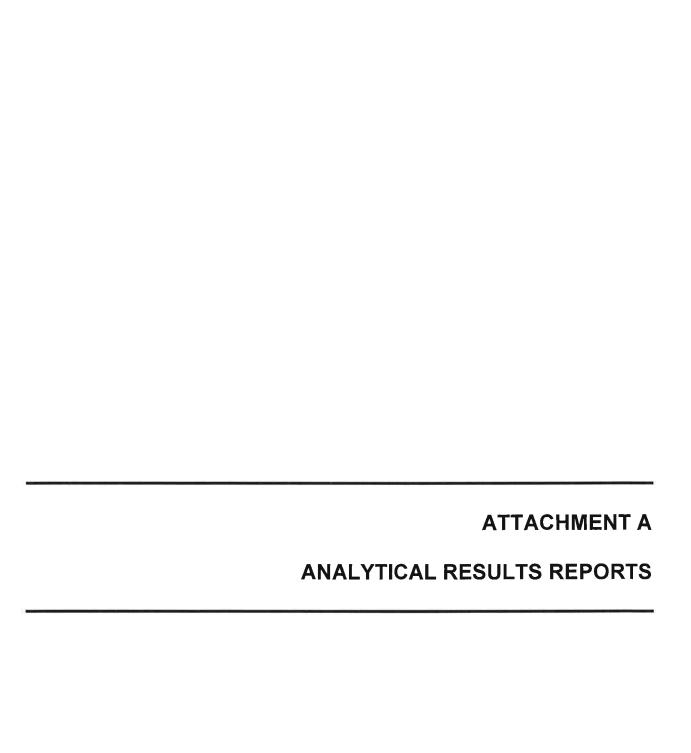
Marc R. Smith, Town Supervisor

by:

Paniel E. Seaman, Town Attorney

DES:cr

6560 Dysinger Road • Lockport, New York 14094-7970 Tel (716) 439-9520 • Fax (716) 439-0528 www.elockport.com



CLIENT and LABORATORY SAMPLE IDs



ProjectID: RI AA Former Electruk Batte

OrderID: Z2363

CustomerName:

TVGA Consultants

LAB SAMPLE NO.	CLIENT SAMPLE NO
Z2363-01	FEB-SS-1
Z2363-02	FEB-SS-2
Z2363-03	FEB-SS-3
Z2363-04	FEB-SS-4
Z2363-05	FEB-SS-5
Z2363-06	FEB-SS-6
Z2363-07	FEB-SS-7
Z2363-08	FEB-SS-8
Z2363-09	FEB-SS-9
Z2363-10	FEB-SS-9-MS
Z2363-11	FEB-SS-9-MSD
Z2363-12	SED-1
Z2363-14	SED-3
Z2363-15	SED-4
Z2363-16	SED-5
Z2363-17	SW-1
Z2363-18	SW-2
Z2363-19	SW-2-MS
Z2363-20	SW-2-MSD
Z2363-21	SW-3
Z2363-22	TRIPBLANK

I certify that the 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 has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Wildeld	Ulleys	Name: Milolup V	leys
Date: 5/1/08	d	Title: (0A/10C	

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO. 20012



ProjectID: RI AA Former Electruk Batte

OrderID: Z2438

CustomerName:

TVGA Consultants

LAB SAMPLE NO.	CLIENT SAMPLE NO	
Z2438-01	FEB-SED-2	
Z2438-02	FEB-TP3 (3)	Ġ
Z2438-03	FEB-TP8 (3)	
Z2438-04	FEB-TP6 (1)	
Z2438-05	FEB-TP2 (5)	
Z2438-06	FEB-TP2 (7)	
Z2438-07	RINSEATE-BLANK	
Z2438-08	TRIP BLANK	

I certify that the 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 has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature:_	Wilched	Villy Name: Il il Ol no O Ville	10
	5/5/08	Title: OH/UC	



ProjectID: RI AA Former Electruk Batte

OrderID: Z2643

CustomerName:

TVGA Consultants

LAB SAMPLE NO.	CLIENT SAMPLE NO
Z2643-01	FEB-SW4-SW-0
Z2643-02	FEB-MW1-GW-0
Z2643-03	FEB-MW2-GW-0
Z2643-04	FEB-MW3-GW-0
Z2643-05	FEB-MW-BD
Z2643-06	TRIPBLANK

I certify that the 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 has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Wilde o Villey	Name: Wildred Vle	ye
Date: 5/22/08	Title: (DA /(0C	<i>'</i>

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO. 20012



ProjectiD: RI AA Former Electruk Batte

OrderID: Z2784

CustomerName:

TVGA Consultants

LAB SAMPLE NO.

CLIENT SAMPLE NO

Z2784-01

SED-4

Z2784-02

SED-5

I certify that the 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 has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature:	Ragglotha. K.L.	Name: Raythatha, Foolpana
Date:	5/27/18	Title: 64 1 Be

QUALIFIED SAMPLE REPORT FORMS



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client: TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/11/2008

Client Sample ID:

SW-3

SDG No.:

Z2363

Lab Sample ID:

Z2363-21

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

File ID:

иL

Dilution:

VG013115.D 1

4/15/2008

Date Analyzed

Analytical Batch ID

VG041508

V G013113	. <i>D</i> 1	4/15/2008		V G041508)	
CAS Number	Parameter	Conc.	Qualifier	(RL)	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Soil Extract Vol:

uL

Report of Analysis

Client: TVGA Consultants Date Collected: 4/10/2008

Project: RI AA Former Electruk Battery site Date Received: 4/11/2008

Project: RI AA Former Electruk Battery site Date Received: 4/11/2008

Client Sample ID: SW-3 SDG No.: Z2363

Lab Sample ID: Z2363-21 Matrix: WATER

Analytical Method: 8260 % Moisture: 100

Sample Wt/Wol: 5.0 Units: mL
Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed Analytical Batch ID

VG013115.D 1 4/15/2008 VG041508

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.83	102 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	50.52	101 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	50.06	100 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	51.63	103 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	340048	3.84			
540-36-3	1,4-Difluorobenzene	631819	4.63			
3114-55-4	Chlorobenzene-d5	556322	9.60			
3855-82-1	1,4-Dichlorobenzene-d4	255610	13.33			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Soil Extract Vol:

uL

Report of Analysis

Client: **TVGA** Consultants Date Collected: 4/10/2008

Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample ID: TRIPBLANK SDG No.: Z2363

Lab Sample ID: Z2363-22 Matrix: WATER

Analytical Method: % Moisture: 8260 100 Sample Wt/Wol: 5.0 Units: mL

Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed **Analytical Batch ID** VG013120.D 1 4/15/2008 VG041508

CAS Number	Parameter	Conc.	Qualifier	(RL)	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

uL

Report of Analysis

Client: TVGA Consultants Date Collected: 4/10/2008

Project: RI AA Former Electruk Battery site Date Received: 4/11/2008

Client Sample ID: TRIPBLANK SDG No.: Z2363

Lab Sample ID: Z2363-22 Matrix: WATER

Analytical Method: 8260 % Moisture: 100
Sample Wt/Wol: 5.0 Units: mL Soil Extract Vol:

Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed Analytical Batch ID

VG013120.D 1 4/15/2008 VG041508

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.58	117 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	53.87	108 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	50.65	101 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	51.47	103 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	387475	3.84			
540-36-3	1,4-Difluorobenzene	766792	4.63			
3114-55-4	Chlorobenzene-d5	684937	9.60			
3855-82-1	1,4-Dichlorobenzene-d4	291408	13.34			

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-1	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-12	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	28
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyz	zed A	Analytical Batch ID		
BE048195.D	1	4/14/2008	4/19/2008	F	BE041508		j
CAS Number	Parameter		Conc.	Qualifie	er/RL	MDL	Units
TARGETS							
100-52-7	Benzaldehy	de	15	U	460	15	ug/Kg
108-95-2	Phenol		13	U	460	13	ug/Kg
111-44-4	bis(2-Chlore	oethyl)ether	6.0	U	460	6.0	ug/Kg
95-57-8	2-Chlorophe	enol	12	U	460	12	ug/Kg
95-48-7	2-Methylph	enol	12	U	460	12	ug/Kg
108-60-1	2,2-oxybis(1	-Chloropropane)	19	U	460	19	ug/Kg
98-86-2	Acetopheno	ne	14	U	460	14	ug/Kg
106-44-5	3+4-Methyl	phenols	14	U	460	14	ug/Kg
621-64-7	N-Nitroso-d	i-n-propylamine	17	U	460	17	ug/Kg
67-72-1	Hexachloroe	ethane	15	U	460	15	ug/Kg
98-95-3	Nitrobenzen	e	11	U	460	11	ug/Kg
78-59-1	Isophorone		15	U	460	15	ug/Kg
88-75-5	2-Nitrophen	ol	17	U	460	17	ug/Kg
105-67-9	2,4-Dimethy	lphenol	14	U	460	14	ug/Kg
111-91-1	bis(2-Chloro	ethoxy)methane	11	U	460	11	ug/Kg
120-83-2	2,4-Dichloro	phenol	11	U	460	11	ug/Kg
91-20-3	Naphthalene		11	U	460	11	ug/Kg
106-47-8	4-Chloroani	line	30	U	460	30	ug/Kg
87-68-3	Hexachlorob	outadiene	19	U	460	19	ug/Kg
105-60-2	Caprolactam	ı	55	U	460	55	ug/Kg
59-50-7	4-Chloro-3-i	nethylphenol	13	U	460	13	ug/Kg
91-57-6	2-Methylnap	hthalene	13	U	460	13	ug/Kg
77-47-4	Hexachloroc	yclopentadiene	23	U	460	23	ug/Kg
88-06-2	2,4,6-Trichle	orophenol	11	U	460	11	ug/Kg
95-95-4	2,4,5-Trichlo	prophenol	14	U	1100	14	ug/Kg
92-52-4	1,1-Bipheny	l	14	U	460	14	ug/Kg
91-58-7	2-Chloronap	hthalene	11	U	460	11	ug/Kg
88-74-4	2-Nitroanilir	ie	21	U	1100	21	ug/Kg
131-11-3	Dimethylpht	halate	13	U	460	13	ug/Kg
208-96-8	Acenaphthyl	ene	6.7	U	460	6.7	ug/Kg
606-20-2	2,6-Dinitroto	luene	16	U	460	16	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample ID: SED-4 SDG No.: Z2363 Lab Sample ID: Z2363-15 Matrix: SOIL Analytical Method: 8260 % Moisture: 59 Sample Wt/Wol: 1.0 Units: g Soil Extract Vol: uL

Soil Aliquot Vol: иL

File ID: Dilution: Date Analyzed **Analytical Batch ID** VI018062.D 1 4/18/2008 VI041808

CAS Number	Parameter	Conc.	Qualifier	(RL)	MD	L Units
TARGETS				<u></u>		
75-71-8	Dichlorodifluoromethane	22	υV	J 58	22	ug/Kg
74-87-3	Chloromethane	15	U I	58	15	ug/Kg
75-01-4	Vinyl chloride	16	U	58	16	ug/Kg
74-83-9	Bromomethane	24	U	58	24	ug/Kg
75-00-3	Chloroethane	21	U	58	21	ug/Kg
75-69-4	Trichlorofluoromethane	14	U	58	14	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20	U	58	20	ug/Kg
75-35-4	1,1-Dichloroethene	12	U	58	12	ug/Kg
67-64-1	Acetone	200	U.	290	200	ug/Kg
75-15-0	Carbon disulfide	13	U	58	13	ug/Kg
1634-04-4	Methyl tert-butyl Ether	10	U	58	10	ug/Kg
79-20-9	Methyl Acetate	20	U	58	20	ug/Kg
75-09-2	Methylene Chloride	28	U	58	28	ug/Kg
156-60-5	trans-1,2-Dichloroethene	14	U	58	14	ug/Kg
75-34-3	1,1-Dichloroethane	13	U	58	13	ug/Kg
110-82-7	Cyclohexane	12	U	58	12	ug/Kg
78-93-3	2-Butanone	58	U	290	58	ug/Kg
56-23-5	Carbon Tetrachloride	6.9	U	58	6.9	ug/Kg
156-59-2	cis-1,2-Dichloroethene	15	U	58	15	ug/Kg
67-66-3	Chloroform	10	U	58	10	ug/Kg
71-55-6	1,1,1-Trichloroethane	11	U	58	11	ug/Kg
108-87-2	Methylcyclohexane	9.6	U	58	9.6	ug/Kg
71-43-2	Benzene	8.4	U	58	8.4	ug/Kg
107-06-2	1,2-Dichloroethane	9.5	U	58	9.5	ug/Kg
79-01-6	Trichloroethene	8.5	U	58	8.5	ug/Kg
78-87-5	1,2-Dichloropropane	11	U	58	11	ug/Kg
75-27-4	Bromodichloromethane	8.1	U	58	8.1	ug/Kg
108-10-1	4-Methyl-2-Pentanone	44	U	290	44	ug/Kg
108-88-3	Toluene	10	บ	58	10	ug/Kg
10061-02-6	t-1,3-Dichloropropene	9.8	U	58	9.8	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	7.8	U ,	58	7.8	ug/Kg
79-00-5	1,1,2-Trichloroethane	7.1	U V	58	7.1	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/11/2008

Client Sample ID:

SED-4

SDG No.:

Z2363

Lab Sample ID:

Z2363-15

Matrix:

SOIL

Analytical Method:

59

Sample Wt/Wol:

8260 1.0

% Moisture: Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID: VI018062.D Dilution:

1

Units: g

Date Analyzed

Analytical Batch ID

4/18/2008

VI041808

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	51	UUS	290	51	ug/Kg
124-48-1	Dibromochloromethane	7.7	T U	58	7.7	ug/Kg
106-93-4	1,2-Dibromoethane	9.5	U	58	9.5	ug/Kg
127-18-4	Tetrachloroethene	14	U	58	14	ug/Kg
108-90-7	Chlorobenzene	8.8	U	58	8.8	ug/Kg
100-41-4	Ethyl Benzene	9.3	U	58	9.3	ug/Kg
126777-61-2	m/p-Xylenes	22	U	120	22	ug/Kg
95-47-6	o-Xylene	8.8	U	58	8.8	ug/Kg
100-42-5	Styrene	7.2	U	58	7.2	ug/Kg
75-25-2	Bromoform	9.4	U	58	9.4	ug/Kg
98-82-8	Isopropylbenzene	9.5	U	58	9.5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	10	U	58	10	ug/Kg
541-73-1	1,3-Dichlorobenzene	7.8	U	58	7.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	8.9	U	58	8.9	ug/K.g
95-50-1	1,2-Dichlorobenzene	10	U	58	10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	58	12	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	7.7	υV	58	7.7	ug/Kg
SURROGATES	1					
17060-07-0	1,2-Dichloroethane-d4	55.09	110 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	51.41	103 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	49.96	100 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	46.79	94 %	50 - 133		SPK: 50
INTERNAL ST	ANDARDS					
363-72-4	Pentafluorobenzene	597635	8.26			
540-36-3	1,4-Difluorobenzene	1179105	8.85			
3114-55-4	Chlorobenzene-d5	1172068	11.75			
3855-82-1	1,4-Dichlorobenzene-d4	443915	14.07			

U = Not Detected

RL = Reporting Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample ID: SED-5 SDG No.: Z2363 Lab Sample ID: Z2363-16 Matrix: SOIL Analytical Method: 8260 % Moisture: 42 1.0 Units: g Sample Wt/Wol: Soil Extract Vol: цL Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed Analytical Batch ID
VI018063.D 1 4/18/2008 VI041808

CAS Number	Parameter	Conc.	Qualifie	r (RL)	MDI	_ Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16	U	43	16	ug/Kg
74-87-3	Chloromethane	11	U	43	11	ug/Kg
75-01-4	Vinyl chloride	12	U	43	12	ug/Kg
74-83-9	Bromomethane	17	U	43	17	ug/Kg
75-00-3	Chloroethane	16	U	43	16	ug/Kg
75-69-4	Trichlorofluoromethane	10	U	43	10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	14	U	43	14	ug/Kg
75-35-4	1,1-Dichloroethene	8.5	U	43	8.5	ug/Kg
67-64-1	Acetone	150	U	210	150	ug/Kg
75-15-0	Carbon disulfide	9.2	U	43	9.2	ug/Kg
1634-04-4	Methyl tert-butyl Ether	7.6	U	43	7.6	ug/Kg
79-20-9	Methyl Acetate	14	U	43	14	ug/Kg
75-09-2	Methylene Chloride	32	J	43	21	ug/Kg
156-60-5	trans-1,2-Dichloroethene	10	U	43	10	ug/Kg
75-34-3	1,1-Dichloroethane	9.6	U	43	9.6	ug/Kg
110-82-7	Cyclohexane	8.7	U	43	8.7	ug/Kg
78-93-3	2-Butanone	43	U	210	43	ug/Kg
56-23-5	Carbon Tetrachloride	5.0	U	43	5.0	ug/Kg
156-59-2	cis-1,2-Dichloroethene	11	U	43	11	ug/Kg
67-66-3	Chloroform	7.6	U	43	7.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	8.1	U	43	8.1	ug/Kg
108-87-2	Methylcyclohexane	7.1	U	43	7.1	ug/Kg
71-43-2	Benzene	6.1	U	43	6.1	ug/Kg
107-06-2	1,2-Dichloroethane	7.0	U	43	7.0	ug/Kg
79-01-6	Trichloroethene	6.2	U	43	6.2	ug/Kg
78-87-5	1,2-Dichloropropane	8.0	U	43	8.0	ug/Kg
75-27-4	Bromodichloromethane	6.0	U	43	6.0	ug/Kg
108-10-1	4-Methyl-2-Pentanone	33	U	210	33	ug/Kg
108-88-3	Toluene	7.5	Ū	43	7.5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	7.2	U	43	7.2	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.7	U	43	5.7	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.2	U	43	5.2	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

uL

Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008

Client Sample ID: SED-5 SDG No.: Z2363 Lab Sample ID: Matrix: Z2363-16 SOIL Analytical Method: % Moisture: 8260 42

Sample Wt/Wol: 1.0 Units: g Soil Extract Vol:

Soil Aliquot Vol: иL

File ID:	Dilution:	Date Analyzed	Analytical Batch ID	
VI018063.D	1	4/18/2008	VI041808	

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	37	U	210	37	ug/Kg
124-48-1	Dibromochloromethane	5.6	U	43	5.6	ug/Kg
106-93-4	1,2-Dibromoethane	7.0	U	43	7.0	ug/Kg
127-18-4	Tetrachloroethene	11	U	43	11	ug/Kg
108-90-7	Chlorobenzene	6.5	U	43	6.5	ug/Kg
100-41-4	Ethyl Benzene	6.8	U	43	6.8	ug/Kg
126777-61-2	m/p-Xylenes	16	U	85	16	ug/Kg
95-47-6	o-Xylene	6.5	U	43	6.5	ug/Kg
100-42-5	Styrene	5.3	U	43	5.3	ug/Kg
75-25-2	Bromoform	6.9	U	43	6.9	ug/Kg
98-82-8	Isopropylbenzene	7.0	U	43	7.0	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	7.6	U	43	7.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.7	U	43	5.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	6.6	U	43	6.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	7.3	U	43	7.3	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	8.7	U	43	8.7	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.6	U	43	5.6	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.89	116 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	54.48	109 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	48.33	97 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	41.49	83 %	50 - 133		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	571042	8.27			
540-36-3	1,4-Difluorobenzene	1117224	8.85			
3114-55-4	Chlorobenzene-d5	1063937	11.75			
3855-82-1	1,4-Dichlorobenzene-d4	347163	14.07			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Soil Aliquot Vol:

CHETTLECT 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

TVGA Consultants Date Collected: Client: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample ID: SDG No.: Z2363 Lab Sample ID: Matrix: Z2363-17 WATER Analytical Method: % Moisture: 8260 100 Sample Wt/Wol: 5.0 Units: mL Soil Extract Vol: uL

File ID: Dilution: **Date Analyzed Analytical Batch ID** VG013113.D 1 4/15/2008 VG041508

иL

CAS Number	Parameter	Conc.	Qualifier	(RL)	MDL	Units
TARGETS				0		
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0,20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/11/2008

Client Sample ID:

SW-1

SDG No.:

Z2363

Lab Sample ID:

Z2363-17

Matrix:

WATER

Analytical Method:

% Moisture:

100

Sample Wt/Wol:

8260 5.0

Soil Extract Vol:

uL

Soil Aliquot Vol:

VG013113.D

uL

Units: mL

File ID:

Dilution:

1

Date Analyzed

Analytical Batch ID

4/15/2008

VG041508

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.35	97 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	50.32	101 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	49.55	99 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	50.29	101 %	74 - 123		SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	483334	3.84			
540-36-3	1,4-Difluorobenzene	911858	4.63			
3114-55-4	Chlorobenzene-d5	800570	9.61			
3855-82-1	1,4-Dichlorobenzene-d4	358431	13.33			

U = Not Detected

RL = Reporting Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

TVGA Consultants Client: **Date Collected:** 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample ID: SW-2 SDG No.: Z2363 Lab Sample ID: Matrix: Z2363-18 WATER Analytical Method: 8260 % Moisture: 100 Sample Wt/Wol: 5.0 Units: mL Soil Extract Vol: uL

Soil Aliquot Vol:

				-
File ID:	Dilution:	Date Analyzed	Analytical Batch ID	1
VG013114.D	1	4/15/2008	VG041508	1

CAS Number	Parameter	Conc.	Qualifier	(RL)	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	Ū	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected:

4/10/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/11/2008

Client Sample ID:

SW-2

Z2363

Lab Sample ID:

Z2363-18

SDG No.: Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VG013114.D	1	4/15/2008	VG041508

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.23	100 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	51.34	103 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	49.56	99 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	50.98	102 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	421793	3.84			
540-36-3	1,4-Difluorobenzene	812646	4.63			
3114-55-4	Chlorobenzene-d5	691177	9.60			
3855-82-1	1,4-Dichlorobenzene-d4	306421	13.34			

U = Not Detected

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-1	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-12	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	28
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyze	ed Analytical Batch ID			
BE048195.D	1	4/14/2008	4/19/2008	BE	041508		
CAS Number	Parameter		Conc.	Qualifier	RL)	MDL	Units
TARGETS							
99-09-2	3-Nitroaniline		30	U	1100	30	ug/Kg
83-32-9	Acenaphthen		9.9	U	1100 800	9.9	ug/Kg
51-28-5	2,4-Dinitroph		24	Ulej	1100-016	24	ug/Kg
100-02-7	4-Nitropheno		27	U	1100	27	ug/Kg
132-64-9	Dibenzofuran		14	U	460	14	ug/Kg
121-14-2	2,4-Dinitrotol	uene	15	U	460	15	ug/Kg
84-66-2	Diethylphthal	ate	16	U	460	16	ug/Kg
7005-72-3	4-Chlorophen	yl-phenylether	17	U	460	17	ug/Kg
86-73-7	Fluorene		12	U	460	12	ug/Kg
100-01-6	4-Nitroaniline	;	36	U	1100	36	ug/Kg
534-52-1	4,6-Dinitro-2-	methylphenol	62	U	1100	62	ug/Kg
86-30-6	N-Nitrosodipl	nenylamine	34	U	460	34	ug/Kg
101-55-3	4-Bromophen	yl-phenylether	21	U	460	21	ug/Kg
118-74-1	Hexachlorobe	Hexachlorobenzene		U	460	14	ug/Kg
1912-24-9	Atrazine		32	U	460	32	ug/Kg
87-86-5	Pentachloroph	ienol	52	U	1100	52	ug/Kg
85-01-8	Phenanthrene		14	U	460	14	ug/Kg
120-12-7	Anthracene		15	U	460	15	ug/Kg
86-74-8	Carbazole		35	U	460	35	ug/Kg
84-74-2	Di-n-butylpht	halate	22	U	460	22	ug/Kg
206-44-0	Fluoranthene		11	U	460	11	ug/Kg
129-00-0	Pyrene		10	U	460	10	ug/Kg
85-68-7	Butylbenzylpl	ıthalate	29	U	460	29	ug/Kg
91-94-1	3,3-Dichlorob		35	U	460	35	ug/Kg
56-55-3	Benzo(a)anthr		11	U	460	11	ug/Kg
218-01-9	Chrysene		8.5	U	460	8.5	ug/Kg
117-81-7	bis(2-Ethylhe)	vl)nhthalate	18	U	460	18	ug/Kg
117-84-0	Di-n-octyl pht		16	U	460	16	ug/Kg
205-99-2	Benzo(b)fluor		33	U	460	33	ug/Kg ug/Kg
207-08-9	Benzo(k)fluor		21	U	460	21	
50-32-8	Benzo(a)pyrer		14	U		14	ug/Kg
50 52-0	Belizo(a)pytei		14	U	460	14	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-1	SDG No.:	Z2363
Lab Sample ID:	Z2363-12	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	28
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID BE048195.D	Dilution 1	Date Extracted			Analytical Batch ID BE041508		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,3	3-cd)pyrene	12	U	460	12	ug/Kg
53-70-3	Dibenz(a,h)	anthracene	34	U	460	34	ug/Kg
191-24-2	Benzo(g,h,i)	perylene	33	U	460	33	ug/Kg
SURROGATES							
367-12-4	2-Fluorophe	nol	136.83	91 %	23 - 104		SPK: 15
13127-88-3	Phenol-d5		136.8	91 %	29 - 104		SPK: 15
4165-60-0	Nitrobenzen	e-d5	84.88	85 %	28 - 110		SPK: 10
321-60-8	2-Fluorobipl	henyl	77.99	78 %	32 - 109		SPK: 10
118-79-6	2,4,6-Tribro	mophenol	113.58	76 %	24 - 112		SPK: 15
1718-51-0	Terphenyl-d	14	98.55	99 %	30 - 150		SPK: 10
INTERNAL STAND	ARDS						
3855-82-1	1,4-Dichloro	benzene-d4	123606	5.30			
1146-65-2	Naphthalene	-d8	457504	7.16			
15067-26-2	Acenaphther	ne-d10	242935	9.93			
1517-22-2	Phenanthren	e-d10	355753	12.30			
1719-03-5	Chrysene-d1	2	27.9065	16.56			
1520-96-3	Perylene-d12	2	261666	18.70			
TENTITIVE IDENT	THED COM	POUNDS				^	
	-ACP3.27		760	A	3.27	K	ug/Kg
111-06-8	Hexadecano	ic acid, butyl ester	230	. NJ	14.80		ug/Kg
646-13-9		c acid, 2-methylpropyl	160	√ ₁	15.95		ug/Kg

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-3	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-14	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	25
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyz	ed A	ed Analytical Batch ID		
BE048193.D	1 4/14/2008		4/19/2008	/19/2008 BE041508			j
CAS Number	Parameter		Conc.	Qualific	er (RL)	MDL	Units
TARGETS							
100-52-7	Benzaldehyd	е	15	U	440	15	ug/Kg
108-95-2	Phenol		12	U	440	12	ug/Kg
111-44-4	bis(2-Chloro	ethyl)ether	5.8	U	440	5.8	ug/Kg
95-57-8	2-Chlorophe	nol	12	U	440	12	ug/Kg
95-48-7	2-Methylphe	nol	12	U	440	12	ug/Kg
108-60-1	2,2-oxybis(1-	-Chloropropane)	18	U	440	18	ug/Kg
98-86-2	Acetophenon	e	13	U	440	13	ug/Kg
106-44-5	3+4-Methylp	henols	13	U	440	13	ug/Kg
621-64-7	N-Nitroso-di	n-propylamine	16	U	440	16	ug/Kg
67-72-1	Hexachloroe	hane	14	U	440	14	ug/Kg
98-95-3	Nitrobenzene		10	U	440	10	ug/Kg
78-59-1	Isophorone		14	U	440	14	ug/Kg
88-75-5	2-Nitropheno	1	16	U	440	16	ug/Kg
105-67-9	2,4-Dimethyl	phenol	13	U	440	13	ug/Kg
111-91-1	bis(2-Chloroe	ethoxy)methane	10	U	440	10	ug/Kg
120-83-2	2,4-Dichlorop	ohenol	10	U	440	10	ug/Kg
91-20-3	Naphthalene		11	U	440	11	ug/Kg
106-47-8	4-Chloroanili	ne	29	U	440	29	ug/Kg
87-68-3	Hexachlorobi	ıtadiene	18	U	440	18	ug/Kg
105-60-2	Caprolactam		53	U	440	53	ug/Kg
59-50-7	4-Chloro-3-m	ethylphenol	13	U	440	13	ug/Kg
91-57-6	2-Methylnapl	ithalene	12	U	440	12	ug/Kg
77-47-4	Hexachlorocy	clopentadiene	23	U	440	23	ug/Kg
88-06-2	2,4,6-Trichlor	ophenol	10	U	440	10	ug/Kg
95-95-4	2,4,5-Trichlor	ophenol	13	U	1100	13	ug/Kg
92-52-4	1,1-Biphenyl		13	U	440	13	ug/Kg
91-58-7	2-Chloronaph	thalene	11	U	440	11	ug/Kg
88-74-4	2-Nitroaniline		21	U	1100	21	ug/Kg
131-11-3	Dimethylphth	alate	13	U	440	13	ug/Kg
208-96-8	Acenaphthyle		6.4	U	440	6.4	ug/Kg
606-20-2	2,6-Dinitrotol		16	U	440	16	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-3	SDG No.:	Z2363
Lab Sample ID:	Z2363-14	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	25
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution Date Extracted		Date Analyze		alytical Ba	tch ID	ch ID	
BE048193.D	1 4/14/2008		4/19/2008	BE	2041508			
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units	
TARGETS								
99-09-2	3-Nitroanilii		29	U	1100	29	ug/Kg	
83-32-9	Acenaphthe		9.5	U	-440 2800	9.5	ug/Kg	
51-28-5	2,4-Dinitrop		23	UW	1100	23	ug/Kg	
100-02-7	4-Nitrophen		26	U	1100	26	ug/Kg	
132-64-9	Dibenzofura		14	U	440	14	ug/Kg	
121-14-2	2,4-Dinitrot	oluene	15	U	440	15	ug/Kg	
84-66-2	Diethylphtha	alate	15	U	440	15	ug/Kg	
7005-72-3	4-Chlorophe	nyl-phenylether	17	U	440	17	ug/Kg	
86-73-7	Fluorene		12	U	440	12	ug/Kg	
100-01-6	4-Nitroanilir	ie	35	U	1100	35	ug/K.g	
534-52-1	4,6-Dinitro-2	2-methylphenol	59	U	1100	59	ug/Kg	
86-30-6	N-Nitrosodi	phenylamine	33	U	440	33	ug/Kg	
101-55-3	4-Bromophe	nyl-phenylether	20	U	440	20	ug/Kg	
118-74-1	Hexachlorob	enzene	13	U	440	13	ug/Kg	
1912-24-9	Atrazine		31	U	440	31	ug/Kg	
87-86-5	Pentachlorop	henol	50	U	1100	50	ug/Kg	
85-01-8	Phenanthren	e	14	U	440	14	ug/Kg	
120-12-7	Anthracene		15	U	440	15	ug/Kg	
86-74-8	Carbazole		34	U	440	34	ug/Kg	
84-74-2	Di-n-butylph	thalate	21	U	440	21	ug/Kg	
206-44-0	Fluoranthene	2	11	U	440	11	ug/Kg	
129-00-0	Pyrene		9.6	U	440	9.6	ug/K.g	
85-68-7	Butylbenzylj	ohthalate	28	U	440	28	ug/Kg	
91-94-1	3,3-Dichloro	benzidine	33	U	440	33	ug/Kg	
56-55-3	Benzo(a)antl	nracene	11	U	440	11	ug/Kg	
218-01-9	Chrysene		8.2	U	440	8.2	ug/Kg	
117-81-7		exyl)phthalate	17	U	440	17	ug/Kg	
117-84-0	Di-n-octyl pl		15	U	440	15	ug/Kg	
205-99-2	Benzo(b)fluo		32	U	440	32	ug/Kg	
207-08-9	Benzo(k)fluo		20	U	440	20	ug/Kg	
50-32-8	Benzo(a)pyro		13	U	440	13	ug/Kg	

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Co	onsultants	Date Collected:	4/10/2008	
Project:	RI AA Former Electruk Battery site		Date Received:	4/11/2008	
Client Sample	SED-3		SDG No.:	Z2363	
ID: Lab Sample ID:	Z2363-14		Matrix:	SOIL	
Analytical Method:	8270		% Moisture:	25	
Sample Wt/Wol:	30.0	g	Extract Vol:	1000 ul	Ĺ

File ID	Dilution Date Ext	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		alytical Ba	atch ID	
BE048193.D	1 4/14/200	8 4/19/2008	BE	041508		
CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS	F.					
193-39-5	Indeno(1,2,3-cd)pyrene	11	U	440	11	ug/Kg
53-70-3	Dibenz(a,h)anthracene	32	U	440	32	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32	U	440	32	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	136	91 %	23 - 104		SPK: 15
13127-88-3	Phenol-d5	139.66	93 %	29 - 104		SPK: 15
4165-60-0	Nitrobenzene-d5	83.17	83 %	28 - 110		SPK: 10
321-60-8	2-Fluorobiphenyl	68.52	69 %	32 - 109		SPK: 10
118-79-6	2,4,6-Tribromophenol	112.01	75 %	24 - 112		SPK: 15
1718-51-0	Terphenyl-d14	91.75	92 %	30 - 150		SPK: 10
INTERNAL STAND	ARDS					
3855-82-1	1,4-Dichlorobenzene-d4	116972	5.30			
1146-65-2	Naphthalene-d8	438819	7.16			
15067-26-2	Acenaphthene-d10	236428	9.93			
1517-22-2	Phenanthrene-d10	339453	12.30			
1719-03-5	Chrysene-d12	260750	16.56			
1520-96-3	Perylene-d12	251630	18.70			
TENTITIVE IDENT	TIFIED COMPOUNDS			4	2.	
	AC P3.27	760	A	3.27		ug/Kg
7785-70-8	1RalphaPinene	150	√ J	4.39		ug/Kg
3387-41-5	Bicyclo[3.1.0]hexane, 4-	methylene 290	√ 1	4.84		ug/Kg

B = Analyte Found In Associated Method Blank

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample SED-4 SDG No.: Z2363 ID: Lab Sample ID: Z2363-15 Matrix: SOIL Analytical Method: 8270 % Moisture: 59 Sample Wt/Wol: 30.0 Extract Vol: 1000 g uL

File ID	Dilution	Date Extracted	Date Analyzed	l 2	Analytical Ba	itch ID	
BE048197.D	1	4/14/2008	4/19/2008]	BE041508		W. B. C. C. C. C. C. C. C. C. C. C. C. C. C.
CAS Number	Parameter		Conc.	Qualific	er (RL)	MDL	Units
TARGETS					<u> </u>		
100-52-7	Benzaldehyd	e	27	UUS		27	ug/Kg
108-95-2	Phenol		22	U	800	22	ug/Kg
111-44-4	bis(2-Chloro	• /	11	U	800	11	ug/Kg
95-57-8	2-Chlorophe		22	U	800	22	ug/Kg
95-48-7	2-Methylphe		21	U	800	21	ug/Kg
108-60-1	2,2-oxybis(1	-Chloropropane)	33	U	800	33	ug/Kg
98-86-2	Acetophenor	e	24	U	800	24	ug/Kg
106-44-5	3+4-Methylp	henols	24	U	800	24	ug/Kg
621-64-7	N-Nitroso-di	-n-propylamine	29	U	800	29	ug/Kg
67-72-1	Hexachloroe	thane	26	U	800	26	ug/Kg
98-95-3	Nitrobenzene	:	19	U	800	19	ug/Kg
78-59-1	Isophorone		26	U	800	26	ug/Kg
88-75-5	2-Nitropheno	l	30	U	800	30	ug/Kg
105-67-9	2,4-Dimethyl	phenol	24	U	800	24	ug/Kg
111-91-1	bis(2-Chloroe	ethoxy)methane	19	U	800	19	ug/Kg
120-83-2	2,4-Dichloro	henol	19	U	800	19	ug/Kg
91-20-3	Naphthalene		19	U	800	19	ug/Kg
106-47-8	4-Chloroanili	ne	53	U	800	53	ug/Kg
87-68-3	Hexachlorob	ıtadiene	33	U	800	33	ug/Kg
105-60-2	Caprolactam		97	υľ	800	97	ug/Kg
59-50-7	4-Chloro-3-m	ethylphenol	24	U	800	24	ug/Kg
91-57-6	2-Methylnapl	nthalene	23	U	800	23	ug/Kg
77-47-4	Hexachlorocy	clopentadiene	41	U	800	41	ug/Kg
88-06-2	2,4,6-Trichlo	rophenol	19	U	800	19	ug/Kg
95-95-4	2,4,5-Trichlo	-	24	U	2000	24	ug/Kg
92-52-4	1,1-Biphenyl	•	24	U	800	24	ug/Kg
91-58-7	2-Chloronaph	thalene	20	U	800	20	ug/Kg
88-74-4	2-Nitroaniline		38	U	2000	38	ug/Kg
131-11-3	Dimethylphth		24	U	800	24	ug/Kg
208-96-8	Acenaphthyle		12	U	, 800	12	ug/Kg
606-20-2	2,6-Dinitrotol		29	υΨ	800	29	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

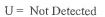
N = Presumptive Evidence of a Compound



Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-4	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-15	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	59
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	An	alytical	Batch ID	
BE048197.D	1	4/14/2008	4/19/2008	BE	041508		
CAS Number	D					2 500 5	

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	53	U NJ	2000	53	ug/Kg
83-32-9	Acenaphthene	17	U 🖡	800	17	ug/Kg
51-28-5	2,4-Dinitrophenol	43	U	2000	43	ug/Kg
100-02-7	4-Nitrophenol	48	U	2000	48	ug/Kg
132-64-9	Dibenzofuran	25	U	800	25	ug/Kg
121-14-2	2,4-Dinitrotoluene	27	U	800	27	ug/Kg
84-66-2	Diethylphthalate	27	ប	800	27	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31	U	800	31	ug/Kg
86-73-7	Fluorene	22	U	800	22	ug/Kg
100-01-6	4-Nitroaniline	63	U	2000	63	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	2000	110	ug/Kg
86-30-6	N-Nitrosodiphenylamine	61	U	800	61	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37	U	800	37	ug/Kg
118-74-1	Hexachlorobenzene	24	U	800	24	ug/Kg
1912-24-9	Atrazine	57	U	800	57	ug/Kg
87-86-5	Pentachlorophenol	91	U	2000	91	ug/Kg
85-01-8	Phenanthrene	25	U	800	25	ug/Kg
120-12-7	Anthracene	27	U	800	27	ug/Kg
86-74-8	Carbazole	62	U	800	62	ug/Kg
84-74-2	Di-n-butylphthalate	38	U	800	38	ug/Kg
206-44-0	Fluoranthene	20	U	800	20	ug/Kg
129-00-0	Pyrene	18	U	800	18	ug/Kg
85-68-7	Butylbenzylphthalate	51	U	800	51	ug/Kg
91-94-1	3,3-Dichlorobenzidine	61	U	800	61	ug/Kg
56-55-3	Benzo(a)anthracene	19	U,	800	19	ug/Kg
218-01-9	Chrysene	15	υΨ	800	15	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	15000	PE .	800	31	ug/Kg
117-84-0	Di-n-octyl phthalate	28	uus	800	28	ug/Kg
205-99-2	Benzo(b)fluoranthene	58	U \	800	58	ug/Kg
207-08-9	Benzo(k)fluoranthene	37	U	800	37	ug/Kg
50-32-8	Benzo(a)pyrene	24	U $$	800	24	ug/Kg



RL = Reporting Limit



MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-4	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-15	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	59
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID Dilution		Date Extracted	Date Analy	zed An	Analytical Batch ID			
BE048197.D	1	4/14/2008	4/19/2008	BE	041508		J	
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units	
TARGETS				. 6				
193-39-5	Indeno(1,2,	3-cd)pyrene	20	UUJ	800	20	ug/Kg	
53-70-3	Dibenz(a,h)	anthracene	59	U	800	59	ug/Kg	
191-24-2	Benzo(g,h,i)perylene	58	U V	800	58	ug/Kg	
SURROGATES								
367-12-4	2-Fluorophe	enol	129.84	87 %	23 - 104		SPK: 15	
13127-88-3	Phenol-d5		132.25	88 %	29 - 104		SPK: 15	
4165-60-0	Nitrobenzer	ne-d5	78.31	78 %	28 - 110		SPK: 10	
321-60-8	2-Fluorobip	henyl	54.28	54 %	32 - 109		SPK: 10	
118-79-6	2,4,6-Tribro	mophenol	113.62	76 %	24 - 112		SPK: 15	
1718-51-0	Terphenyl-d	114	43.56	44 %	30 - 150		SPK: 10	
INTERNAL STAND	DARDS							
3855-82-1	1,4-Dichloro	obenzene-d4	132800	5.30				
1146-65-2	Naphthalene	e-d8	503388	7.16				
15067-26-2	Acenaphthe	ne-d10	260898	9.93				
1517-22-2	Phenanthren	ie-d10	380648	12.30				
1719-03-5	Chrysene-dl	12	299127	16.56				
1520-96-3	Perylene-d1	2	298964	18.70				
TENTITIVE IDENT	TIFIED COM	POUNDS				^		
	ACP3.27		₹300	A	3.27	R	ug/Kg	
57-10-3	n-Hexadecai	noic acid	400	NJ	13.38		ug/Kg	
629-97-0	Docosane		1200	1 J	18.53		ug/Kg	
601-53-6	Cholestan-3	one, (5.beta.)-	900	1	20.00		ug/Kg	

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: Project:	TVGA Consultants RI AA Former Electruk Battery site	Date Collected: Date Received:	4/10/2008 4/11/2008
Client Sample	SED-5	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-16	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	42
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyz	ed A	Analytical Bat		
BE048196.D	1	4/14/2008	4/19/2008	E	BE041508		
CAS Number	Parameter		Conc.	Qualifie	er (RL)	MDL	Units
TARGETS							
100-52-7	Benzaldehyde		320	J	570	19	ug/Kg
108-95-2	Phenol		16	U	570	16	ug/Kg
111-44-4	bis(2-Chloroe	thyl)ether	7.4	U	570	7.4	ug/Kg
95-57-8	2-Chlorophen	ol	15	U	570	15	ug/K.g
95-48-7	2-Methylphen		15	U	570	15	ug/Kg
108-60-1	2,2-oxybis(1-0	Chloropropane)	23	U	570	23	ug/Kg
98-86-2	Acetophenone		17	U	570	17	ug/Kg
106-44-5	3+4-Methylph	enols	17	U	570	17	ug/Kg
621-64-7	N-Nitroso-di-	n-propylamine	21	U	570	21	ug/Kg
67-72-1	Hexachloroeth	nane	19	U	570	19	ug/Kg
98-95-3	Nitrobenzene		13	U	570	13	ug/Kg
78-59-1	Isophorone		19	U	570	19	ug/Kg
88-75-5	2-Nitrophenol		21	U	570	21	ug/Kg
105-67-9	2,4-Dimethylp	henol	17	U	570	17	ug/Kg
111-91-1	bis(2-Chloroe	thoxy)methane	13	U	570	13	ug/Kg
120-83-2	2,4-Dichlorop	henol	14	U	570	14	ug/Kg
91-20-3	Naphthalene		14	U	570	14	ug/Kg
106-47-8	4-Chloroanilir	ne	37	U	570	37	ug/Kg
87-68-3	Hexachlorobu	tadiene	23	U	570	23	ug/Kg
105-60-2	Caprolactam		68	U	570	68	ug/Kg
59-50-7	4-Chloro-3-m	ethylphenol	17	U	570	17	ug/Kg
91-57-6	2-Methylnaph	thalene	16	U	570	16	ug/Kg
77-47-4	Hexachlorocy	clopentadiene	29	U	570	29	ug/Kg
88-06-2	2,4,6-Trichlor	ophenol	13	U	570	13	ug/Kg
95-95-4	2,4,5-Trichlor	ophenol	17	U	1400	17	ug/Kg
92-52-4	1,1-Biphenyl		17	U	570	17	ug/Kg
91-58-7	2-Chloronaph	thalene	14	U	570	14	ug/Kg
88-74-4	2-Nitroaniline		27	U	1400	27	ug/Kg
131-11-3	Dimethylphtha	alate	560	J	570	17	ug/Kg
208-96-8	Acenaphthyle	ne	8.3	U	570	8.3	ug/Kg
606-20-2	2,6-Dinitrotol	uene	20	U	570	20	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-5	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-16	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	42
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

1	File ID	Dilution	Date Extracted	Date Analyzed	d Ana	Analytical Bat		
	BE048196.D	1	4/14/2008	4/19/2008	BE	041508		J
(CAS Number	Parameter		Сопс.	Qualifier	RI.	MDI.	Units

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	38	U	1400	38	ug/Kg
83-32-9	Acenaphthene	12	U	570 3500	12	ug/Kg
51-28-5	2,4-Dinitrophenol	30	UUS	1400	30	ug/Kg
100-02-7	4-Nitrophenol	34	U	1400	34	ug/Kg
132-64-9	Dibenzofuran	18	U	570	18	ug/Kg
121-14-2	2,4-Dinitrotoluene	19	U	570	19	ug/Kg
84-66-2	Diethylphthalate	19	U	570	19	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	22	U	570	22	ug/Kg
86-73-7	Fluorene	. 15	U	570	15	ug/Kg
100-01-6	4-Nitroaniline	45	U	1400	45	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	77	U	1400	77	ug/Kg
86-30-6	N-Nitrosodiphenylamine	43	U	570	43	ug/Kg
101-55-3	4-Bromophenyl-phenylether	26	U	570	26	ug/Kg
118-74-1	Hexachlorobenzene	17	U	570	17	ug/Kg
1912-24-9	Atrazine	40	U	570	40	ug/Kg
87-86-5	Pentachlorophenol	64	U	1400	64	ug/Kg
85-01-8	Phenanthrene	18	U	570	18	ug/Kg
120-12-7	Anthracene	19	U	570	19	ug/Kg
86-74-8	Carbazole	43	U	570	43	ug/Kg
84-74-2	Di-n-butylphthalate	27	U	570	27	ug/Kg
206-44-0	Fluoranthene	14	U	570	14	ug/Kg
129-00-0	Pyrene	12	U	570	12	ug/Kg
85-68-7	Butylbenzylphthalate	36	U	570	36	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43	U	570	43	ug/Kg
56-55-3	Benzo(a)anthracene	14	U	570	14	ug/Kg
218-01-9	Chrysene	11	U	570	11	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate 40	00 5200	E	570	22	ug/Kg
117-84-0	Di-n-octyl phthalate	20	U	570	20	ug/Kg
205-99-2	Benzo(b)fluoranthene	41	U	570	41	ug/Kg
207-08-9	Benzo(k)fluoranthene	26	U	570	26	ug/Kg
50-32-8	Benzo(a)pyrene	17	U	570	17	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

HP31M3+D

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Client:	TVGA Consultants	Date Collected:	4/10/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
Client Sample	SED-5	SDG No.:	Z2363
ID: Lab Sample ID:	Z2363-16	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	42
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Anal	yzed An	ed Analytical Batch ID		
BE048196.D	1	4/14/2008	4/19/2008	BE	041508		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,3	-cd)pyrene	14	U	570	14	ug/Kg
53-70-3	Dibenz(a,h)a	nthracene	42	U	570	42	ug/Kg
191-24-2	Benzo(g,h,i)	perylene	41	U	570	41	ug/Kg
SURROGATES							
367-12-4	2-Fluoropher	nol	131.07	87 %	23 - 104	4	SPK: 15
13127-88-3	Phenol-d5		131.46	88 %	29 - 104	4	SPK: 15
4165-60-0	Nitrobenzene	:-d5	78.95	79 %	28 - 110)	SPK: 10
321-60-8	2-Fluorobiph	enyl	54.89	55 %	32 - 109)	SPK: 10
118-79-6	2,4,6-Tribron	nophenol	103.79	69 %	24 - 112	2	SPK: 15
1718-51-0	Terphenyl-d1	4	43.98	44 %	30 - 150)	SPK: 10
INTERNAL STAND	OARDS						
3855-82-1	1,4-Dichlorol	penzene-d4	130909	5.30			
1146-65-2	Naphthalene-	d8	491969	7.16			
15067-26-2	Acenaphthen	e-d10	253768	9.93			
1517-22-2	Phenanthrene	-d10	371392	12.30			
1719-03-5	Chrysene-d12	2	291459	16.56			
1520-96-3	Perylene-d12		284493	18.70			
TENTITIVE IDENT	TIFIED COMP	OUNDS					
	ACP3.27		-970	A	3.27	R	ug/Kg
57-10-3	n-Hexadecan	oic acid	220	N_1	13.38		ug/Kg
111-06-8	Hexadecanoid	acid, butyl ester	270	1 1	14.80		ug/Kg
123-95-5	Octadecanoic	acid, butyl ester	200	J	15.95		ug/Kg
6533-00-2	Norgestrel		220	, J	17.15		ug/Kg
55320-06-4	Heneicosane,	11-decyl-	180	Å ¹	17.58		ug/Kg

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA** Consultants Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample **SW-1** SDG No.: Z2363 ID: Lab Sample ID: Z2363-17 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000.0 **Extract Vol:** 1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	ed Analytical Batch ID			
BB043612.D	1	4/14/2008	4/21/2008	BB	042008		J
CAS Number	Parameter		Conc.	Qualifier	(RL)	MDL	Units
TARGETS				(
100-52-7	Benzaldehyde	>	0.270	U	10	0.270	ug/L
108-95-2	Phenol		0.550	U	10	0.550	ug/L
111-44-4	bis(2-Chloroe	thyl)ether	0.280	U	10	0.280	ug/L
95-57-8	2-Chlorophen	ol	0.330	U	10	0.330	ug/L
95-48-7	2-Methylpher	ıol	0.360	U	10	0.360	ug/L
108-60-1	2,2-oxybis(1-	Chloropropane)	0.270	U	10	0.270	ug/L
98-86-2	Acetophenone	2	0.370	U	10	0.370	ug/L
106-44-5	3+4-Methylph	nenols	0.390	U	10	0.390	ug/L
621-64-7	N-Nitroso-di-	n-propylamine	0.340	U	10	0.340	ug/L
67-72-1	Hexachloroet	hane	0.230	U	10	0.230	ug/L
98-95-3	Nitrobenzene		0.330	U	10	0.330	ug/L
78-59-1	Isophorone		0.260	U	10	0.260	ug/L
88-75-5	2-Nitrophenol	l	0.280	U	10	0.280	ug/L
105-67-9	2,4-Dimethylj	phenol	0.760	U	10	0.760	ug/L
111-91-1	bis(2-Chloroe	thoxy)methane	0.330	U	10	0.330	ug/L
120-83-2	2,4-Dichlorop	henol	0.340	U	10	0.340	ug/L
91-20-3	Naphthalene		0.280	U	10	0.280	ug/L
106-47-8	4-Chloroanilii	ne	0.920	U	10	0.920	ug/L
87-68-3	Hexachlorobu	tadiene	0.390	U	10	0.390	ug/L
105-60-2	Caprolactam		1.5	U	10	1.5	ug/L
59-50-7	4-Chloro-3-m	ethylphenol	0.220	U	10	0.220	ug/L
91-57-6	2-Methylnaph	thalene	0.370	U	10	0.370	ug/L
77-47-4	Hexachlorocy	clopentadiene	0.560	U	10	0.560	ug/L
88-06-2	2,4,6-Trichlor	ophenol	0.350	U	10	0.350	ug/L
95-95-4	2,4,5-Trichlor	ophenol	0.380	U	10	0.380	ug/L
92-52-4	1,1-Biphenyl		0.320	U	10	0.320	ug/L
91-58-7	2-Chloronaphi	thalene	0.230	U	10	0.230	ug/L
88-74-4	2-Nitroaniline		0.250	U	10	0.250	ug/L
131-11-3	Dimethylphtha		0.270	U	10	0.270	ug/L
208-96-8	Acenaphthyle		0.350	U	10	0.350	ug/L
606-20-2	2,6-Dinitrotoli		0.350	U	10	0.350	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected: 4/10/2008 Date Received: Project: RI AA Former Electruk Battery site 4/11/2008 Client Sample SW-1 SDG No.: Z2363 ID: Lab Sample ID: Z2363-17 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000.0 **Extract Vol:** 1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	l An	alytical B	atch ID	***********
BB043612.D	1	4/14/2008	4/21/2008	ВВ	042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
99-09-2	3-Nitroanilin	-	0.350	U	10	0.350	ug/L
83-32-9	Acenaphthen		0.320	U	10	0.320	ug/L
51-28-5	2,4-Dinitroph		0.640	U	10	0.640	ug/L
100-02-7	4-Nitropheno		1.7	U	10	1.7	ug/L
132-64-9	Dibenzofuran	Į.	0.310	U	10	0.310	ug/L
121-14-2	2,4-Dinitroto	uene	0.340	U	10	0.340	ug/L
84-66-2	Diethylphthal	ate	0.320	U	10	0.320	ug/L
7005-72-3	4-Chloropher	yl-phenylether	0.290	U	10	0.290	ug/L
86-73-7	Fluorene		0.280	U	10	0.280	ug/L
100-01-6	4-Nitroaniline	>	0.360	U	10	0.360	ug/L
534-52-1	4,6-Dinitro-2	methylphenol	0.290	U	10	0.290	ug/L
86-30-6	N-Nitrosodipl	nenylamine	0.350	U	10	0.350	ug/L
101-55-3	4-Bromophen	yl-phenylether	1.4	U	10	1.4	ug/L
118-74-1	Hexachlorobe	enzene	0.270	U	10	0.270	ug/L
1912-24-9	Atrazine		0.370	U	10	0.370	ug/L
87-86-5	Pentachloropl	nenol	0.520	U	10	0.520	ug/L
85-01-8	Phenanthrene		1.4	U	10	1.4	ug/L
120-12-7	Anthracene		1.4	U	10	1.4	ug/L
86-74-8	Carbazole		0.240	U	10	0.240	ug/L
84-74-2	Di-n-butylpht	halate	5.9	Ü	10	5.9	ug/L
206-44-0	Fluoranthene		0.200	U	10	0.200	ug/L
129-00-0	Pyrene		1.4	U	10	1.4	ug/L
85-68-7	Butylbenzylpl	nthalate	0.420	U	10	0.420	ug/L
91-94-1	3,3-Dichlorob	enzidine	1.1	U	10	1.1	ug/L
56-55-3	Benzo(a)anthr	acene	1.3	U	10	1.3	ug/L
218-01-9	Chrysene		0.260	U	10	0.260	ug/L
117-81-7	bis(2-Ethylhe)	xyl)phthalate	1.3	U	10	1.3	ug/L
117-84-0	Di-n-octyl pht		0.260	U	10	0.260	ug/L
205-99-2	Benzo(b)fluor		0.430	U	10	0.430	ug/L
207-08-9	Benzo(k)fluor		0.300	U	10	0.300	ug/L ug/L
50-32-8	Benzo(a)pyren		0.220	U	10	0.220	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: Date Received: 4/11/2008 RI AA Former Electruk Battery site Client Sample **SW-1** SDG No.: Z2363 Lab Sample ID: Z2363-17 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000 1000.0 Extract Vol: mL uL

File ID	Dilution	Date Extracted	Date Extracted Date Analyzed Analytical Batch ID				
BB043612.D	1	4/14/2008	4/21/2008	BB	042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	0.660	U	10	0.660	ug/L
53-70-3	Dibenz(a,h)	anthracene	0.540	U	10	0.540	ug/L
191-24-2	Benzo(g,h,i)perylene	0.390	U	10	0.390	ug/L
SURROGATES							
367-12-4	2-Fluoroph	enol	69.97	47 %	30 - 78		SPK: 1:
13127-88-3	Phenol-d5		48.72	32 %	30 - 77		SPK: 1:
4165-60-0	Nitrobenzer	ne-d5	76.22	76 %	30 - 120		SPK: 10
321-60-8	2-Fluorobip	henyl	75.57	76 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribro	omophenol	104.1	69 %	27 - 118		SPK: 15
1718-51-0	Terphenyl-o	114	80.96	81 %	26 - 135		SPK: 10
INTERNAL STAND	DARDS						
3855-82-1	1,4-Dichlor	obenzene-d4	189665	6.95			
1146-65-2	Naphthalen	e-d8	764871	9.29			
15067-26-2	Acenaphthe	ne-d10	431418	12.79			
1517-22-2	Phenanthrer	ne-d10	667108	15.80			
1719-03-5	Chrysene-d	12	632679	21.17			
1520-96-3	Perylene-d1	2	604082	24.81			
TENTITIVE IDENT	TIFIED COM	POUNDS					
	ACP4.41		<8.5	A	4.41	3	ug/L
31158-91-5	Hexadecano	ic acid, 1,1-dimethyle		N J	18.74	(2)	ug/L
123-95-5		ic acid, butyl ester	8.4	1	20.17		ug/L

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

File ID

Dilution

Date Analyzed

Analytical Batch ID

Report of Analysis

Client: Date Collected: **TVGA Consultants** 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample SW-2 SDG No.: Z2363 ID: Lab Sample ID: Z2363-18 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000.0 **Extract Vol:** 1000 uL

Date Extracted

BB043610.D	1 4/14/2008	4/21/2008	BB042	2008	16
CAS Number	Parameter	Conc.	Qualifier (1	RL) MDL	Units
TARGETS					
100-52-7	Benzaldehyde	0.270	U U Z 10		ug/L
108-95-2	Phenol	0.550	U 10	0.550	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.280	U 10	0.280	ug/L
95-57-8	2-Chlorophenol	0.330	U 10	0.330	ug/L
95-48-7	2-Methylphenol	0.360	U 10	0.360	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	0.270	U 10	0.270	ug/L
98-86-2	Acetophenone	0.370	U 10	0.370	ug/L
106-44-5	3+4-Methylphenols	0.390	U 10	0.390	ug/L
621-64-7	N-Nitroso-di-n-propylamine	0.340	U 10	0.340	ug/L
67-72-1	Hexachloroethane	0.230	U 10	0.230	ug/L
98-95-3	Nitrobenzene	0.330	U 10	0.330	ug/L
78-59-1	Isophorone	0.260	U 10	0.260	ug/L
88-75-5	2-Nitrophenol	0.280	U _10	0.280	ug/L
105-67-9	2,4-Dimethylphenol	0.760	U (LJ 10	0.760	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.330	U 10	0.330	ug/L
120-83-2	2,4-Dichlorophenol	0.340	U 10	0.340	ug/L
91-20-3	Naphthalene	0.280	U 10	0.280	ug/L
106-47-8	4-Chloroaniline	0.920	-U-R 10	0.920	ug/L
87-68-3	Hexachlorobutadiene	0.390	U 10	0.390	ug/L
105-60-2	Caprolactam	1.5	U 10	1.5	ug/L
59-50-7	4-Chloro-3-methylphenol	0.220	U 10	0.220	ug/L
91-57-6	2-Methylnaphthalene	0.370	U 10	0.370	ug/L
77-47-4	Hexachlorocyclopentadiene	0.560	U 10	0.560	ug/L
88-06-2	2,4,6-Trichlorophenol	0.350	U 10	0.350	ug/L
95-95-4	2,4,5-Trichlorophenol	0.380	U 10	0.380	ug/L
92-52-4	1,1-Biphenyl	0.320	U 10	0.320	ug/L
91-58-7	2-Chloronaphthalene	0.230	U 10	0.230	ug/L
88-74-4	2-Nitroaniline	0.250	U 10		ug/L
131-11-3	Dimethylphthalate	0.270	U 10		ug/L
208-96-8	Acenaphthylene	0.350	U 10		ug/L
606-20-2	2,6-Dinitrotoluene	0.350	U 10		ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

	Client:	TVGA Consultants	Date Collected:	4/10/2008
	Project:	RI AA Former Electruk Battery site	Date Received:	4/11/2008
	Client Sample	SW-2	SDG No.:	Z2363
	ID: Lab Sample ID:	Z2363-18	Matrix:	WATER
	Analytical Method:	8270	% Moisture:	100
-	Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	d Analytical Batch ID			
BB043610.D	1	4/14/2008	4/21/2008	ВВ	042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS			SV-87810	0			
99-09-2	3-Nitroaniline		0.350	UK	10	0.350	ug/L
83-32-9	Acenaphthene		0.320	U	10 200	0.320	ug/L
51-28-5	2,4-Dinitrophe	nol	0.640	U	10 25	0.640	ug/L
100-02-7	4-Nitrophenol		1.7	U	10	1.7	ug/L
132-64-9	Dibenzofuran		0.310	U	10	0.310	ug/L
121-14-2	2,4-Dinitrotolu		0.340	U	10	0.340	ug/L
84-66-2	Diethylphthala		0.320	UUS	10	0.320	ug/L
7005-72-3	4-Chloropheny	l-phenylether	0.290	U	10	0.290	ug/L
86-73-7	Fluorene		0.280	U	10	0.280	ug/L
100-01-6	4-Nitroaniline		0.360	U	10	0.360	ug/L
534-52-1	4,6-Dinitro-2-r	nethylphenol	0.290	U	10	0.290	ug/L
86-30-6	N-Nitrosodiph	enylamine	0.350	uuJ	10	0.350	ug/L
101-55-3	4-Bromopheny	l-phenylether	1.4	U	10	1.4	ug/L
118-74-1	Hexachlorober	zene	0.270	U	10	0.270	ug/L
1912-24-9	Atrazine		0.370	U	10	0.370	ug/L
87-86-5	Pentachlorophe	enol	0.520	U	10	0.520	ug/L
85-01-8	Phenanthrene		1.4	U	10	1.4	ug/L
120-12-7	Anthracene		1.4	U	10	1.4	ug/L
86-74-8	Carbazole		0.240	U	10	0.240	ug/L
84-74-2	Di-n-butylphth	alate	5.9	U	10	5.9	ug/L
206-44-0	Fluoranthene		0.200	U	10	0.200	ug/L
129-00-0	Pyrene		1.4	U	10	1.4	ug/L
85-68-7	Butylbenzylphi	halate	0.420	U	10	0.420	ug/L
91-94-1	3,3-Dichlorobe		1.1	A-U-	10	1.1	ug/L
56-55-3	Benzo(a)anthra		1.3	U	10	1.3	ug/L
218-01-9	Chrysene		0.260	Ū	10	0.260	ug/L
117-81-7	bis(2-Ethylhex)	vl)phthalate	1.3	U	10	1.3	ug/L
117-84-0	Di-n-octyl phth	-	0.260	U	10	0.260	ug/L
205-99-2	Benzo(b)fluora		0.430	U	10	0.430	ug/L
207-08-9	Benzo(k)fluora		0.300	U	10	0.300	ug/L
50-32-8	Benzo(a)pyrene		0.220	U	10	0.220	ug/L ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample SW-2 SDG No.: Z2363 ID: Lab Sample ID: Z2363-18 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000.0 mLExtract Vol: 1000 uL

File ID BB043610.D	Dilution 1	Date Extracted 4/14/2008	Date Analyz 4/21/2008		Analytical Batch ID BB042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,3	3-cd)pyrene	0.660	U	10	0.660	ug/L
53-70-3	Dibenz(a,h)a	anthracene	0.540	U	10	0.540	ug/L
191-24-2	Benzo(g,h,i)	perylene	0.390	U	10	0.390	ug/L
SURROGATES							
367-12-4	2-Fluorophe	nol	59.31	40 %	30 - 78		SPK: 15
13127-88-3	Phenol-d5		38	25 %	30 - 77		SPK: 15
4165-60-0	Nitrobenzen	Nitrobenzene-d5		84 %	30 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl		80.63	81 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribromophenol		102.83	69 %	27 - 118		SPK: 15
1718-51-0	Terphenyl-d14		90.52	91 %	26 - 135		SPK: 10
INTERNAL STAND	ARDS						
3855-82-1	1,4-Dichloro	benzene-d4	197479	6.95			
1146-65-2	Naphthalene	-d8	751336	9.29			
15067-26-2	Acenaphther	ie-d10	454449	12.79			
1517-22-2	Phenanthren	e-d10	725016	15.80			
1719-03-5	Chrysene-d1	2	684815	21.17			
1520-96-3	Perylene-d12	2	681587	24.81			
TENTITIVE IDENT	TIFIED COM	POUNDS				^	
141-79-7		ne, 4-methyl-	23		3.83	R	ug/L
	ACP4.41		5.7	A	4.41	2	ug/L
111-06-8	Hexadecanoi	c acid, butyl ester		N J	18.74		ug/L
123-95-5		c acid, butyl ester	9.6	$\sqrt{1}$	20.18		ug/L

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 **Client Sample** SW-3 SDG No.: Z2363 ID: Lab Sample ID: Z2363-21 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000.0 **Extract Vol:** 1000 mLuL

File ID	Dilution	Date Extracted	Date Analyz	nalyzed Analytical Batch ID			
BB043601.D	1	4/14/2008	4/21/2008	BB	042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS				,			
100-52-7	Benzaldehy	de	0.270	U	10	0.270	ug/L
108-95-2	Phenol	Phenol		U	10	0.550	ug/L
111-44-4	bis(2-Chlore	oethyl)ether	0.280	U	10	0.280	ug/L
95-57-8	2-Chloroph	enol	0.330	U	10	0.330	ug/L
95-48-7	2-Methylph	enol	0.360	U	10	0.360	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	0.270	U	10	0.270	ug/L
98-86-2	Acetopheno	ne	0.370	U	10	0.370	ug/L
106-44-5	3+4-Methyl	phenols	0.390	U	10	0.390	ug/L
621-64-7	N-Nitroso-d	li-n-propylamine	0.340	U	10	0.340	ug/L
67-72-1	Hexachloro	ethane	0.230	U	10	0.230	ug/L
98-95-3	Nitrobenzer	ie	0.330	U	10	0.330	ug/L
78-59-1	Isophorone		0.260	U	10	0.260	ug/L
88-75-5	2-Nitrophenol		0.280	U	10	0.280	ug/L
105-67-9	2,4-Dimethylphenol		0.760	U	10	0.760	ug/L
111-91-1	bis(2-Chlore	oethoxy)methane	0.330	U	10	0.330	ug/L
120-83-2	2,4-Dichloro	ophenol	0.340	U	10	0.340	ug/L
91-20-3	Naphthalene	2	0.280	U	10	0.280	ug/L
106-47-8	4-Chloroani	line	0.920	U	10	0.920	ug/L
87-68-3	Hexachlorol	outadiene	0.390	U	10	0.390	ug/L
105-60-2	Caprolactan	1	1.5	U	10	1.5	ug/L
59-50-7	4-Chloro-3-	methylphenol	0.220	U	10	0.220	ug/L
91-57-6	2-Methylnap	ohthalene	0.370	U	10	0.370	ug/L
77-47-4	Hexachloro	cyclopentadiene	0.560	U	10	0.560	ug/L
88-06-2	2,4,6-Trichle	orophenol	0.350	U	10	0.350	ug/L
95-95-4	2,4,5-Trichle	orophenol	0.380	U	10	0.380	ug/L
92-52-4	1,1-Bipheny	1	0.320	U	10	0.320	ug/L
91-58-7	2-Chloronap	hthalene	0.230	U	10	0.230	ug/L
88-74-4	2-Nitroanilir	ne	0.250	U	10	0.250	ug/L
131-11-3	Dimethylpht	halate	0.270	U	10	0.270	ug/L
208-96-8	Acenaphthyl		0.350	U	10	0.350	ug/L
606-20-2	2,6-Dinitroto		0.350	U	10	0.350	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample **SW-3** SDG No.: Z2363 Lab Sample ID: Z2363-21 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 1000.0 mL**Extract Vol:** 1000 uL

File ID	Dilution	Date Extracted	Date Analyzo	ed An	alytical	Batch ID	
BB043601.D	1	4/14/2008	4/21/2008	BE	042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
99-09-2	3-Nitroaniline		0.350	U	10	0.350	ug/L
83-32-9	Acenaphthen		0.320	U	10	0.320	ug/L
51-28-5	2,4-Dinitroph		0.640	U	10	0.640	ug/L
100-02-7	4-Nitropheno		1.7	U	10	1.7	ug/L
132-64-9	Dibenzofuran		0.310	U	10	0.310	ug/L
121-14-2	2,4-Dinitrotol	uene	0.340	U	10	0.340	ug/L
84-66-2	Diethylphthal	ate	0.320	U	10	0.320	ug/L
7005-72-3	4-Chlorophen	yl-phenylether	0.290	U	10	0.290	ug/L
86-73-7	Fluorene		0.280	U	10	0.280	ug/L
100-01-6	4-Nitroaniline	:	0.360	U	10	0.360	ug/L
534-52-1	4,6-Dinitro-2-	methylphenol	0.290	U	10	0.290	ug/L
86-30-6	N-Nitrosodiphenylamine		0.350	U	10	0.350	ug/L
101-55-3	4-Bromophen	yl-phenylether	1.4	U	10	1.4	ug/L
118-74-1	Hexachlorobe	nzene	0.270	U	10	0.270	ug/L
1912-24-9	Atrazine		0.370	U	10	0.370	ug/L
87-86-5	Pentachloropl	ienol	0.520	U	10	0.520	ug/L
85-01-8	Phenanthrene		1.4	U	10	1.4	ug/L
120-12-7	Anthracene		1.4	U	10	1.4	ug/L
86-74-8	Carbazole		0.240	U	10	0.240	ug/L
84-74-2	Di-n-butylpht	halate	5.9	U	10	5.9	ug/L
206-44-0	Fluoranthene		0.200	U	10	0.200	ug/L
129-00-0	Pyrene		1.4	U	10	1.4	ug/L
85-68-7	Butylbenzylpl	thalate	0.420	U	10	0.420	ug/L
91-94-1	3,3-Dichlorob		1.1	U	10	1.1	ug/L
56-55-3	Benzo(a)anthr		1.3	U	10	1.3	ug/L
218-01-9	Chrysene		0.260	Ū	10	0.260	ug/L
117-81-7	bis(2-Ethylhez	(vl)nhthalate	1.3	U	10	1.3	ug/L
117-84-0	Di-n-octyl pht	-	0.260	U	10	0.260	ug/L
205-99-2	Benzo(b)fluor		0.430	U	10	0.430	ug/L ug/L
207-08-9	Benzo(k)fluor		0.300	U	10	0.300	ug/L ug/L
50-32-8	Benzo(a)pyrer		0.220	U	10	0.220	ug/L ug/L
	-						

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

TVGA Consultants Date Collected: Client: 4/10/2008 Date Received: 4/11/2008 Project: RI AA Former Electruk Battery site Client Sample SW-3 SDG No.: Z2363 Lab Sample ID: Z2363-21 WATER Matrix: Analytical Method: 8270 100 % Moisture: Sample Wt/Wol: 1000.0 **Extract Vol:** 1000 uLmL

File ID	Dilution	Date Extracted	Date Analyze	ed An	alytical Ba	atch ID	
BB043601.D	1	4/14/2008	4/21/2008	BE	3042008		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS					*		
193-39-5	Indeno(1,2,	3-cd)pyrene	0.660	U	10	0.660	ug/L
53-70-3	Dibenz(a,h)	anthracene	0.540	U	10	0.540	ug/L
191-24-2	Benzo(g,h,i)perylene	0.390	U	10	0.390	ug/L
SURROGATES							
367-12-4	2-Fluorophe	enol	98.95	66 %	30 - 78		SPK: 15
13127-88-3	Phenol-d5		70.85	47 %	30 - 77		SPK: 15
4165-60-0	Nitrobenzer	ie-d5	95.71	96 %	30 - 120		SPK: 10
321-60-8	2-Fluorobip	henyl	100.13	100 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribro	mophenol	150	100 %	27 - 118		SPK: 15
1718-51-0	Terphenyl-d	14	100.44	100 %	26 - 135		SPK: 10
INTERNAL STANI	DARDS						
3855-82-1	1,4-Dichloro	obenzene-d4	191317	6.95			
1146-65-2	Naphthalene	e-d8	733307	9.29			
15067-26-2	Acenaphthe	ne-d10	417151	12.79			
1517-22-2	Phenanthren	e-d10	687493	15.80			
1719-03-5	Chrysene-d	.2	689046	21.17			
1520-96-3	Perylene-d1	2	709016	24.82			
TENTITIVE IDENT	TIFIED COM	POUNDS					
141-79-7	3-Penten-2-	one, 4-methyl-	6.5	_	3.83	R	ug/L
	ACP4,42		11	A	4.42	K	ug/L
31158-91-5	Hexadecano	ic acid, 1,1-dimethyle	9.3	√. J	18.75		ug/L
123-95-5		c acid, butyl ester	6.0	1	20.17		ug/L

E = Value Exceeds Calibration Range

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



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Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/10/2008 Project: RI AA Former Electruk Battery site 4/11/2008 Date Received: Client Sample ID: SED-1 SDG No.: Z2363 Lab Sample ID: Z2363-12 Matrix: SOIL

Analytical Method: 8081 % Moisture: 28

Sample Wt/Vol: 30 g Extract Vol: 10000

File ID:	Dilution:	Date Prep	Date Analyz	ed Ar	ıalytical Batc	h ID
P7021342.D	1	4/14/2008	4/15/2008	P7	P7040108	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.19	U	2.4	0.19	ug/Kg
319-85-7	beta-BHC	0.25	U	2.4	0.25	ug/Kg
319-86-8	delta-BHC	0.25	U	2.4	0.25	ug/Kg
58-89-9	gamma-BHC (Lindane	0.22	U	2.4	0.22	ug/Kg
76-44-8	Heptachlor	0.21	U	2.4	0.21	ug/Kg
309-00-2	Aldrin	0.22	U	2.4	0.22	ug/Kg
1024-57-3	Heptachlor epoxide	0.26	Ū	2.4	0.26	ug/Kg
959-98-8	Endosulfan I	0.26	U	2.4	0.26	ug/Kg
60-57-1	Dieldrin	0.26	U	2.4	0.26	ug/Kg
72-55-9	4,4'-DDE	0.26	U	2.4	0.26	ug/Kg
72-20-8	Endrin	0.79	U	2.4	0.79	ug/Kg
33213-65-9	Endosulfan II	0.28	U	2.4	0.28	ug/Kg
72-54-8	4,4'-DDD	0.37	U	2.4	0.37	ug/Kg
1031-07-8	Endosulfan sulfate	0.32	U ,	2.4	0.32	ug/Kg
50-29-3	4,4'-DDT	0.22	Ull	2.4	0.22	ug/Kg
72-43-5	Methoxychlor	0.29	U	2.4	0.29	ug/Kg
53494-70-5	Endrin ketone	0.65	U	2.4	0.65	ug/Kg
7421-93-4	Endrin aldehyde	0.28	U	2.4	0.28	ug/Kg
5103-71-9	alpha-Chlordane	0.26	U	2.4	0.26	ug/Kg
5103-74-2	gamma-Chlordane	0.25	U	2.4	0.25	ug/Kg
8001-35-2	Toxaphene	5.0	U	24	5.0	ug/Kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.47	62 %	30 - 161		SPK: 20
877-09-8	Tetrachloro-m-xylene	14.13	71 %	30 - 158		SPK: 20

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Date Collected: 4/10/2008 Client: **TVGA Consultants** 4/11/2008 Project: RI AA Former Electruk Battery site Date Received: Client Sample ID: SED-3 SDG No.: Z2363 Z2363-14 Matrix: SOIL Lab Sample ID: % Moisture: 25 **Analytical Method:** 8081 Sample Wt/Vol: 30 Extract Vol: 10000 uLg

File ID:	Dilution:	Date Prep	Date Analy	zed A	nalytical Batc	h ID
P7021343.D	1	4/14/2008	4/15/2008	P	7040108	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.19	U	2.3	0.19	ug/Kg
319-85-7	beta-BHC	0.24	U	2.3	0.24	ug/Kg
319-86-8	delta-BHC	0.24	U	2.3	0.24	ug/Kg
58-89-9	gamma-BHC (Lindane	0.21	U	2.3	0.21	ug/Kg
76-44-8	Heptachlor	0.20	U	2.3	0.20	ug/Kg
309-00-2	Aldrin	0.21	U	2.3	0.21	ug/Kg
1024-57-3	Heptachlor epoxide	0.25	U	2.3	0.25	ug/Kg
959-98-8	Endosulfan I	0.25	U	2.3	0.25	ug/Kg
60-57-1	Dieldrin	0.25	U	2.3	0.25	ug/Kg
72-55-9	4,4'-DDE	0.25	U	2.3	0.25	ug/Kg
72-20-8	Endrin	0.76	U	2.3	0.76	ug/Kg
33213-65-9	Endosulfan II	0.27	U	2.3	0.27	ug/Kg
72-54-8	4,4'-DDD	0.36	U	2.3	0.36	ug/Kg
1031-07-8	Endosulfan sulfate	0.31	U	2.3	0.31	ug/Kg
50-29-3	4,4'-DDT	0.21	UUS	2.3	0.21	ug/Kg
72-43-5	Methoxychlor	0.28	U	2.3	0.28	ug/Kg
53494-70-5	Endrin ketone	0.63	U	2.3	0.63	ug/Kg
7421-93-4	Endrin aldehyde	0.27	U	2.3	0.27	ug/Kg
5103-71-9	alpha-Chlordane	0.25	U	2.3	0.25	ug/Kg
5103-74-2	gamma-Chlordane	0.24	U	2.3	0.24	ug/Kg
8001-35-2	Toxaphene	4.8	U	23	4.8	ug/Kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.03	50 %	30 - 161		SPK: 20
877-09-8	Tetrachloro-m-xylene	11.6	58 %	30 - 158	}	SPK: 20

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

RI AA Former Electruk Battery site

Date Collected:

4/10/2008

Project:

Date Received:

4/11/2008

Client Sample ID:

SED-4

SDG No.:

Z2363

Lab Sample ID:

Z2363-15

Matrix:

SOIL

Analytical Method:

8081

% Moisture:

59

Sample Wt/Vol:

30

Extract Vol:

10000 uL

File ID: P7021351.D Dilution:

Date Prep 4/14/2008

g

Date Analyzed 4/15/2009

Analytical Batch ID D7040108

P7021351.	D 1 4/14/	4/2008 4/15/20		P7	P7040108	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS				_		
319-84-6	alpha-BHC	0.34	UUJ	4.1	0.34	ug/Kg
319-85-7	beta-BHC	0.44	U	4.1	0.44	ug/Kg
319-86-8	delta-BHC	0.44	U	4.1	0.44	ug/Kg
58-89-9	gamma-BHC (Lindane)	0.39	U	4.1	0.39	ug/Kg
76-44-8	Heptachlor	0.37	U	4.1	0.37	ug/Kg
309-00-2	Aldrin	0.39	U	4.1	0.39	ug/Kg
1024-57-3	Heptachlor epoxide	0.46	U	4.1	0.46	ug/Kg
959-98-8	Endosulfan I	0.46	U	4.1	0.46	ug/Kg
60-57-1	Dieldrin	0.46	U	4.1	0.46	ug/Kg
72-55-9	4,4'-DDE	0.46	U	4.1	0.46	ug/Kg
72-20-8	Endrin	1.4	U	4.1	1.4	ug/Kg
33213-65-9	Endosulfan II	0.49	U	4.1	0.49	ug/Kg
72-54-8	4,4'-DDD	0.66	U	4.1	0.66	ug/Kg
1031-07-8	Endosulfan sulfate	0.56	U	4.1	0.56	ug/Kg
50-29-3	4,4'-DDT	0.39	U	4.1	0.39	ug/Kg
72-43-5	Methoxychlor	0.51	U	4.1	0.51	ug/Kg
53494-70-5	Endrin ketone	1.1	U	4.1	1.1	ug/Kg
7421-93-4	Endrin aldehyde	0.49	U	4.1	0.49	ug/Kg
5103-71-9	alpha-Chlordane	0.46	U	4.1	0.46	ug/Kg
5103-74-2	gamma-Chlordane	0.44	U	4.1	0.44	ug/Kg
8001-35-2	Toxaphene	8.7	u V	41	8.7	ug/Kg
SURROGATES			•			0' *-0
2051-24-3	Decachlorobiphenyl	2.5	13 %	30 - 161		SPK: 20
377-09-8	Tetrachloro-m-xylene	196.4	982 %	30 - 158		SPK: 20
	-					

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Client Sample ID:

Sample Wt/Vol:

SED-5

30

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

SDG No.:

Extract Vol:

Z2363

10000

uL

Report of Analysis

4/10/2008 Client: **TVGA** Consultants Date Collected: Project: RI AA Former Electruk Battery site Date Received: 4/11/2008

Z2363-16 Matrix: **SOIL** Lab Sample ID:

% Moisture: 42 Analytical Method: 8081

g

Analytical Batch ID Dilution: **Date Analyzed** File ID: **Date Prep**

P7021344.D	1	4/14/2008	4/15/2008	P7040108		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.24	U	2.9	0.24	ug/Kg
319-85-7	beta-BHC	0.31	U	2.9	0.31	ug/Kg
319-86-8	delta-BHC	0.31	U	2.9	0.31	ug/Kg
58-89-9	gamına-BHC (Lindano	e) 0.28	U	2.9	0.28	ug/Kg
76-44-8	Heptachlor	0.26	U	2.9	0.26	ug/Kg
309-00-2	Aldrin	0.28	U	2.9	0.28	ug/Kg
1024-57-3	Heptachlor epoxide	0.33	U	2.9	0.33	ug/Kg
959-98-8	Endosulfan I	0.33	U	2.9	0.33	ug/Kg
60-57-1	Dieldrin	0.33	U	2.9	0.33	ug/Kg
72-55-9	4,4'-DDE	0.33	U	2.9	0.33	ug/Kg
72-20-8	Endrin	0.98	U	2.9	0.98	ug/Kg
33213-65-9	Endosulfan II	0.34	U	2.9	0.34	ug/Kg
72-54-8	4,4'-DDD	0.46	U	2.9	0.46	ug/Kg
1031-07-8	Endosulfan sulfate	0.40	U	2.9	0.40	ug/Kg
50-29-3	4,4'-DDT	0.28	UNJ	2.9	0.28	ug/Kg
72-43-5	Methoxychlor	0.36	U	2.9	0.36	ug/Kg
53494-70-5	Endrin ketone	0.81	U	2.9	0.81	ug/Kg
7421-93-4	Endrin aldehyde	0.34	U	2.9	0.34	ug/Kg
5103-71-9	alpha-Chlordane	0.33	U	2.9	0.33	ug/Kg
5103-74-2	gamma-Chlordane	0.31	U	2.9	0.31	ug/Kg
8001-35-2	Toxaphene	6.2	U	29	6.2	ug/Kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	6.93	35 %	30 - 161		SPK: 20
877-09-8	Tetrachloro-m-xylene	11.86	59 %	30 - 158		SPK: 20

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/11/2008

Client Sample ID:

SW-1

SDG No.:

Z2363

Lab Sample ID:

Z2363-17

Matrix:

WATER

Analytical Method:

8081

% Moisture:

100

Sample Wt/Vol:

970

TD -4 ---

Extract Vol:

10000 uL

File ID: P7021379.D

Dilution:

1

Date Prep 4/14/2008

mL

4/15/2008

Date Analyzed

Analytical Batch ID

P7040108

CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.0065	U US	0.052	0.0065	ug/L
319-85-7	beta-BHC	0.0072	U	0.052	0.0072	ug/L
319-86-8	delta-BHC	0.0516	U	0.052	0.0516	ug/L
58-89-9	gamma-BHC (Lindane)	0.0073	U	0.052	0.0073	ug/L
76-44-8	Heptachlor	0.0234	U	0.052	0.0234	ug/L
309-00-2	Aldrin	0.0308	U	0.052	0.0308	ug/L
1024-57-3	Heptachlor epoxide	0.0125	U	0.052	0.0125	ug/L
959 - 98-8	Endosulfan I	0.0078	U	0.052	0.0078	ug/L
60-57-1	Dieldrin	0.0076	U	0.052	0.0076	ug/L
72-55-9	4,4'-DDE	0.0074	U	0.052	0.0074	ug/L
72-20-8	Endrin	0.0071	U	0.052	0.0071	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.052	0.0075	ug/L
72-54-8	4,4'-DDD	0.0072	U	0.052	0.0072	ug/L
1031-07-8	Endosulfan sulfate	0.0089	U	0.052	0.0089	ug/L
50-29-3	4,4'-DDT	0.0066	U	0.052	0.0066	ug/L
72-43-5	Methoxychlor	0.0074	U	0.052	0.0074	ug/L
53494-70-5	Endrin ketone	0.0080	U	0.052	0.0080	ug/L
7421-93-4	Endrin aldehyde	0.0091	U	0.052	0.0091	ug/L
5103-71-9	alpha-Chlordane	0.0078	U	0.052	0.0078	ug/L
5103-74-2	gamma-Chlordane	0.0080	U	0.052	0.0080	ug/L
8001-35-2	Toxaphene	0.0928	U 🎷	0.52	0.0928	ug/L
SURROGATES			[7.
2051-24-3	Decachlorobiphenyl	8.13	41 %	45 - 131		SPK: 20
377-09-8	Tetrachloro-m-xylene	8.27	41 %	30 - 151		SPK: 20

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



File ID:

Dilution:

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 SW-2 Z2363 Client Sample ID: SDG No.: Z2363-18 Matrix: WATER Lab Sample ID: % Moisture: 100 Analytical Method: 8081 Sample Wt/Vol: 940 mL Extract Vol: 10000 uL

Date Analyzed

Date Prep

P7040108 P7021380.D 1 4/14/2008 4/15/2008 RL MDL **CAS Number** Parameter Conc Qualifier Units **TARGETS** 319-84-6 alpha-BHC 0.0067 U 0.053 0.0067 ug/L U 0.053 0.0075 ug/L 319-85-7 beta-BHC 0.0075 ひはづ delta-BHC 0.053 319-86-8 0.0532 0.0532 ug/L 58-89-9 U 0.053 0.0076 ug/L gamma-BHC (Lindane) 0.0076 76-44-8 Heptachlor 0.0241 U 0.053 0.0241 ug/L 309-00-2 Aldrin 0.0318 U 0.053 0.0318 ug/L 1024-57-3 Heptachlor epoxide 0.0129 U 0.053 0.0129 ug/L 959-98-8 Endosulfan I 0.0081 IJ 0.053 0.0081 ug/L 0.0078 60-57-1 Dieldrin 0.0078 U 0.053 ug/L 72-55-9 4,4'-DDE 0.0076 U 0.053 0.0076 ug/L 72-20-8 U 0.0074 ug/L Endrin 0.0074 0.053 33213-65-9 U 0.0077 ug/L Endosulfan II 0.0077 0.053 72-54-8 4,4'-DDD U 0.053 0.0075 ug/L 0.0075 1031-07-8 Endosulfan sulfate U 0.053 0.0092 ug/L 0.0092 W.J 50-29-3 4,4'-DDT 0.0068 U 0.053 0.0068 ug/L 72-43-5 0.0076 U 0.053 0.0076 ug/L Methoxychlor 53494-70-5 0.0083 ug/L Endrin ketone 0.0083 IJ 0.053 7421-93-4 0.0094 ug/L Endrin aldehyde 0.0094 U 0.053 5103-71-9 alpha-Chlordane 0.0081 U 0.053 0.0081 ug/L 5103-74-2 gamma-Chlordane 0.0083 U 0.053 0.0083 ug/L 8001-35-2 Toxaphene 0.0957 U 0.53 0.0957 ug/L **SURROGATES** 2051-24-3 Decachlorobiphenyl 89 % 45 - 131 SPK: 20 17.82 877-09-8 Tetrachloro-m-xylene 84 % 30 - 151 SPK: 20 16.71

Analytical Batch ID

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: TVGA Consultants

Date Collected: 4

4/10/2008

Project:

RI AA Former Electruk Battery site

mL

Date Received:

4/11/2008

Client Sample ID:

SW-3

SDG No.:

Z2363

Lab Sample ID:

Z2363-21

Matrix:

WATER

Analytical Method:

8081

% Moisture:

100

Sample Wt/Vol:

1000

Extract Vol:

10000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P7021381.D	1	4/14/2008	4/15/2008	P7040108

P7021381.	D 1 4/1	14/2008	4/15/2008	P7	P7040108		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units	
TARGETS							
319-84-6	alpha-BHC	0.0063	U	0.050	0.0063	ug/L	
319-85-7	beta-BHC	0.0070	U	0.050	0.0070	ug/L	
319-86-8	delta-BHC	0.0500	U	0.050	0.0500	ug/L	
58-89-9	gamma-BHC (Lindane)	0.0071	U	0.050	0.0071	ug/L	
76-44-8	Heptachlor	0.0227	U	0.050	0.0227	ug/L	
309-00-2	Aldrin	0.0299	U	0.050	0.0299	ug/L	
1024-57-3	Heptachlor epoxide	0.0121	U	0.050	0.0121	ug/L	
959-98-8	Endosulfan I	0.0076	U	0.050	0.0076	ug/L	
60-57-1	Dieldrin	0.0073	U	0.050	0.0073	ug/L	
72-55-9	4,4'-DDE	0.0072	U	0.050	0.0072	ug/L	
72-20-8	Endrin	0.0069	U	0.050	0.0069	ug/L	
33213-65-9	Endosulfan II	0.0073	U	0.050	0.0073	ug/L	
72-54-8	4,4'-DDD	0.0070	U	0.050	0.0070	ug/L	
1031-07-8	Endosulfan sulfate	0.0086	U ,	0.050	0.0086	ug/L	
50-29-3	4,4'-DDT	0.0064	UUJ	0.050	0.0064	ug/L	
72-43-5	Methoxychlor	0.0072	U	0.050	0.0072	ug/L	
53494-70-5	Endrin ketone	0.0078	U	0.050	0.0078	ug/L	
7421-93-4	Endrin aldehyde	0.0088	U	0.050	0.0088	ug/L	
5103-71-9	alpha-Chlordane	0.0076	U	0.050	0.0076	ug/L	
5103-74-2	gamma-Chlordane	0.0078	U	0.050	0.0078	ug/L	
8001-35-2	Toxaphene	0.0900	Ū	0.50	0.0900	ug/L	
SURROGATES	}						
2051-24-3	Decachlorobiphenyl	20.67	103 %	45 - 131		SPK: 20	
877-09-8	Tetrachloro-m-xylene	23.29	116 %	30 - 151		SPK: 20	

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/10/2008 Project: RI AA Former Electruk Battery site Date Received: 4/11/2008 Client Sample ID: SED-1 SDG No.: Z2363 Lab Sample ID: Z2363-12 Matrix: SOIL % Moisture: **Analytical Method:** 8082 28 Sample Wt/Vol: **30 Extract Vol:** 10000 g uL

File ID: Dilution: P4013067.D 1		Date Prep 4/14/2008	Date Analyzed 4/15/2008		Analytical Batch ID P4041108		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units	
TARGETS							
12674-11-2	AROCLOR 1016	5.2	U	24	5.2	ug/Kg	
11104-28-2	AROCLOR 1221	6.3	U	24	6.3	ug/Kg	
11141-16-5	AROCLOR 1232	6.6	U	24	6.6	ug/Kg	
53469-21-9	AROCLOR 1242	2.9	U	24	2.9	ug/Kg	
12672 - 29-6	AROCLOR 1248	6.4	U	24	6.4	ug/Kg	
11097-69-1	AROCLOR 1254	6.5	U	24	6.5	ug/Kg	
11096-82-5	AROCLOR 1260	5.2	U	24	5.2	ug/Kg	
SURROGATES							
877-09-8	Tetrachloro-m-xylene	12.86	64 %	44 - 141		SPK: 20	
2051-24-3	Decachlorobiphenyl	10.47	52 %	34 - 145		SPK: 20	



Report of Analysis

Client: TVGA Consultants

RI AA Former Electruk Battery site

g

Date Collected: 4

Date Received: 4

4/10/2008

Project:

SED-3

SDG No.:

4/11/2008

Client Sample ID:

DED U

SDO M.

Z2363

Lab Sample ID:

Z2363-14

Matrix:

SOIL

Analytical Method:

8082

% Moisture:

25

Sample Wt/Vol:

30

Extract Vol:

10000 uL

File ID: Dilution: P4013068.D 1		Date Prep 4/14/2008	Date Analyze		Analytical Batch ID R4041108		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units	
TARGETS				0			
12674-11-2	AROCLOR 1016	5.0	U	23	5.0	ug/Kg	
11104-28-2	AROCLOR 1221	6.1	U	23	6.1	ug/Kg	
11141-16-5	AROCLOR 1232	6.4	U	23	6.4	ug/Kg	
53469-21-9	AROCLOR 1242	2.8	U	23	2.8	ug/Kg	
12672-29-6	AROCLOR 1248	6.1	U	23	6.1	ug/Kg	
11097-69-1	AROCLOR 1254	6.2	U	23	6.2	ug/Kg	
11096-82-5	AROCLOR 1260	5.0	U	23	5.0	ug/Kg	
SURROGATES							
877-09-8	Tetrachloro-m-xylene	11.11	56 %	44 - 141		SPK: 20	
2051-24-3	Decachlorobiphenyl	7.7	39 %	34 - 145		SPK: 20	



Report of Analysis

4/10/2008 Client: Date Collected: **TVGA Consultants** 4/11/2008 Project: RI AA Former Electruk Battery site Date Received: SDG No.: Z2363 Client Sample ID: SED-4 SOIL Lab Sample ID: Z2363-15 Matrix: % Moisture: 59 Analytical Method: 8082 **Extract Vol:** 10000 Sample Wt/Vol: 30 uLg

File ID: P4013069.D	Dilution:	Date Prep 4/14/2008	Date Analyzed 4/15/2008		Analytical Bate P4041108	th ID
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
12674-11-2	AROCLOR 1016	9.1	U UJ	41	9.1	ug/Kg
11104-28-2	AROCLOR 1221	11	U	41	11	ug/Kg
11141-16-5	AROCLOR 1232	12	U	41	12	ug/Kg
53469-21-9	AROCLOR 1242	5.1	U	41	5.1	ug/Kg
12672-29-6	AROCLOR 1248	11	U	41	11	ug/Kg
11097-69-1	AROCLOR 1254	11	U /	41	11	ug/Kg
11096-82-5	AROCLOR 1260	9.1	UV	41	9.1	ug/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	7.65	38 %	44 - 1	41	SPK: 20
2051-24-3	Decachlorobiphenyl	2.75	14 %	34 - 1	45	SPK: 20



4/10/2008

Report of Analysis

Client: **TVGA Consultants Date Collected:** Project:

RI AA Former Electruk Battery site Date Received: 4/11/2008

Client Sample ID: SED-5 SDG No.: Z2363 Lab Sample ID: Z2363-16 SOIL Matrix:

Analytical Method: % Moisture: 42 8082

Sample Wt/Vol: 30 **Extract Vol:** 10000 uL g

File ID:	Dilution:	Date Prep	Date Analyzed	A	nalytical Bate	h ID
P4013070.D	1	4/14/2008	4/15/2008	P		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
12674-11-2	AROCLOR 1016	6.4	U (L)	29	6.4	ug/Kg
11104-28-2	AROCLOR 1221	7.9	U	29	7.9	ug/K.g
11141-16-5	AROCLOR 1232	8.2	บ	29	8.2	ug/Kg
53469-21-9	AROCLOR 1242	3.6	U	29	3.6	ug/Kg
12672-29-6	AROCLOR 1248	7.9	U	29	7.9	ug/Kg
11097-69-1	AROCLOR 1254	8.1	U /	29	8.1	ug/Kg
11096-82-5	AROCLOR 1260	6.4	U V	29	6.4	ug/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.3	52 %	44 - 141		SPK: 20
2051-24-3	Decachlorobiphenyl	5.15	26 %	34 - 145		SPK: 20



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/11/2008

Client Sample ID:

SW-1

SDG No.:

Z2363

Lab Sample ID:

Z2363-17

Matrix: % Moisture: WATER 100

Analytical Method: Sample Wt/Vol:

8082 1000

Extract Vol:

10000 uL

File ID;
P4013104.D

Dilution:

Date Prep 4/14/2008

mL

Date Analyzed 4/15/2008

Analytical Batch ID

P4041108

1 4015104.	<i>D</i> 1	14/2000	4/13/2000	01	041100	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
12674-11-2	AROCLOR 1016	0.142	U	0.50	0.142	ug/L
11104-28-2	AROCLOR 1221	0.113	U	0.50	0.113	ug/L
11141-16-5	AROCLOR 1232	0.115	U	0.50	0.115	ug/L
53469-21-9	AROCLOR 1242	0.073	U	0.50	0.073	ug/L
12672-29-6	AROCLOR 1248	0.101	U	0.50	0.101	ug/L
11097-69-1	AROCLOR 1254	0.139	U	0.50	0.139	ug/L
11096-82-5	AROCLOR 1260	0.0890	U	0.50	0.0890	ug/L
SURROGATES	S					
877-09-8	Tetrachloro-m-xylene	13.89	69 %	42 - 133		SPK: 20
2051-24-3	Decachlorobiphenyl	8.51	43 %	30 - 141		SPK: 20



Analytical Method:

8082

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

% Moisture:

100

Report of Analysis

Client: TVGA Consultants Date Collected: 4/10/2008

Project: RI AA Former Electruk Battery site Date Received: 4/11/2008

Client Sample ID: SW-2 SDG No.: Z2363

Lab Sample ID: Z2363-18 Matrix: WATER

Sample Wt/Vol: 1000 mL Extract Vol: 10000 uL

File ID: Dilution: **Date Prep Date Analyzed Analytical Batch ID** P4013105.D 1 4/14/2008 4/15/2008 P4041108 **CAS Number** Parameter Conc Oualifier RL MDL Units **TARGETS** UJ 12674-11-2 AROCLOR 1016 0.142 0.50 0.142 ug/L 11104-28-2 AROCLOR 1221 0.113 U 0.50 0.113 ug/L 11141-16-5 AROCLOR 1232 0.115 U 0.50 0.115 ug/L 53469-21-9 AROCLOR 1242 0.073 U 0.50 0.073 ug/L 12672-29-6 AROCLOR 1248 0.101 U 0.50 0.101 ug/L 11097-69-1 AROCLOR 1254 0.139 U 0.50 0.139 ug/L 11096-82-5 AROCLOR 1260 0.0890 U 0.50 0.0890 ug/L **SURROGATES** 877-09-8 Tetrachloro-m-xylene 5.4 27 % 42 - 133 SPK: 20 2051-24-3 Decachlorobiphenyl 9.58 48 % 30 - 141 SPK: 20

for this sample: The Aroelor data are not usable from the PCB 8082 Analysis, but are usable From the Pesticide 8081 Analysis.



Report of Analysis

Client: **TVGA Consultants** Project:

Date Received: 4/11/2008

RI AA Former Electruk Battery site SW-3

Client Sample ID: Lab Sample ID: Z2363-21

Matrix: WATER

Analytical Method:

SDG No.:

Z2363

4/10/2008

8082 1000 % Moisture:

Date Collected:

100

Sample Wt/Vol:

mL

Extract Vol:

10000 uL

File ID: Dilution:		Date Prep	Date Analyzed	Analytical Batch ID		
P4013106.1) 1	4/14/2008	4/15/2008	P4041108		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS				7		
12674-11-2	AROCLOR 1016	0.142	UUJ	0.50	0.142	ug/L
11104-28-2	AROCLOR 1221	0.113	U	0.50	0.113	ug/L
11141-16-5	AROCLOR 1232	0.115	U	0.50	0.115	ug/L
53469-21-9	AROCLOR 1242	0.073	U	0.50	0.073	ug/L
12672-29-6	AROCLOR 1248	0.101	U	0.50	0.101	ug/L
11097-69-1	AROCLOR 1254	0.139	Ū	0.50	0.139	ug/L
11096-82-5	AROCLOR 1260	0.0890	υ √	0.50	0.0890	ug/L
SURROGATES						
377-09-8	Tetrachloro-m-xylene	5.78	29 %	42 - 133		SPK: 20
2051-24-3	Decachlorobiphenyl	14.78	74 %	30 - 141		SPK: 20

The Aroclor data for this sample are not usable from the PCB 8082 analysis, but are isable from the Perticide 8081 dinalysis,

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

RI AA Former Electr

SDG No.:

4/10/2008

Project:

Date Collected: Date Received:

4/11/2008

Client Sample ID: FEB-SS-1

Z2363

Lab Sample ID:

Z2363-01

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	19.4	J	mg/Kg	0.367	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

Comments:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: FEB-SS-2

SDG No.:

Z2363

Lab Sample ID:

Z2363-02

Matrix: % Solids: SOIL 76.20

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	31.0	5	mg/Kg	0.382	1	4/14/2008	4/15/2008	EPA SW-846 6010



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: FEB-SS-3

SDG No.:

Z2363

Lab Sample ID:

Z2363-03

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	167	J	mg/Kg	0.353	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: FEB-SS-4

SDG No.:

Z2363

Lab Sample ID:

Z2363-04

Matrix: % Solids: SOIL 74.90

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	23.9	J	mg/Kg	0.392	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

SDG No.:

Z2363

Client Sample ID: FEB-SS-5

Matrix:

SOIL

Lab Sample ID:

Z2363-05

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	25.4	1	mg/Kg	0.354	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client: **TVGA Consultants** **Date Collected:**

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: FEB-SS-6

SDG No.:

Z2363

Lab Sample ID:

Matrix:

SOIL

Z2363-06

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	296	Í	mg/Kg	0.392	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: FEB-SS-7

SDG No.:

Z2363

Lab Sample ID:

Z2363-07

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	73.2	I	mg/Kg	0.384	I	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: FEB-SS-8

SDG No.:

Z2363

Lab Sample ID:

Z2363-08

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439 - 92-1	Lead	129	2	mg/Kg	0.492	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/10/2008 RI AA Former Electr Date Received: 4/11/2008 Project: SDG No.: Z2363 Client Sample ID: FEB-SS-9 Matrix: SOIL Lab Sample ID: Z2363-09

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	48.4	J	mg/Kg	0.356	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									

% Solids:

Report of Analysis

Client: **TVGA Consultants**

Date Collected: Date Received:

4/10/2008

Project:

RI AA Former Electr

4/11/2008

Client Sample ID: SED-1

SDG No.:

Z2363

Lab Sample ID:

Z2363-12

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	3.000		mg/Kg	0.520	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440 - 39-3	Barium	90.5		mg/Kg	1.330	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.614		mg/Kg	0.091	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-47-3	Chromium	14.8	J	mg/Kg	0.146	1	4/14/2008	4/15/2008	EPA SW-846 6010
7439-92-1	Lead	52.9	7	mg/Kg	0.401	1	4/14/2008	4/15/2008	EPA SW-846 6010
7439-97-6	Mercury	0.022		mg/Kg	0.009	1	4/15/2008	4/15/2008	EPA SW-846 7471
7782-49-2	Selenium	0.748	U	mg/Kg	0.748	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-22-4	Silver	0.192	U	mg/Kg	0.192	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: SED-3

SDG No.:

Z2363

Matrix:

SOIL

Lab Sample ID:

Z2363-14

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	4.940		mg/Kg	0.499	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-39-3	Barium	149		mg/Kg	1.280	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.948		mg/Kg	0.088	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-47-3	Chromium	19.7	.T	mg/Kg	0.140	1	4/14/2008	4/15/2008	EPA SW-846 6010
7439-92-1	Lead	39.5		mg/Kg		1	4/14/2008	4/15/2008	EPA SW-846 6010
7439-97-6	Мегсигу	0.019	•	mg/Kg		1	4/15/2008	4/15/2008	EPA SW-846 7471
7782-49-2	Selenium	0.718	U	mg/Kg		1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-22-4	Silver	0.184	U	mg/Kg		1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: SED-4

SDG No.:

Z2363

Lab Sample ID:

Z2363-15

Matrix: % Solids: **SOIL** 41.30

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method	
7440-38-2	Arsenic	42.1		mg/Kg	0.920	1	4/14/2008	4/15/2008	EPA SW-846 6010	
7440-39-3	Barium	839		mg/Kg		I	4/14/2008	4/15/2008	EPA SW-846 6010	
7440-43-9	Cadmium	6.540		mg/Kg	0.161	1	4/14/2008	4/15/2008	EPA SW-846 6010	
7440-47-3	Chromium	59.8	3	mg/Kg	0.258	1	4/14/2008	4/15/2008	EPA SW-846 6010	
7439-92-1	Lead 74,900	<u> </u>	or J	mg/Kg	.7102	1	4/14/2008	4/15/2008	EPA SW-846 6010	
7439-97-6	Mercury	1.1		mg/Kg	0.017	1	4/15/2008	4/15/2008	EPA SW-846 7471	
7782-49-2	Selenium	1.320	U	mg/Kg	1.320	1	4/14/2008	4/15/2008	EPA SW-846 6010	
7440-22-4	Silver	3.230		mg/Kg	0.339	1	4/14/2008	4/15/2008	EPA SW-846 6010	
C										

Comments:



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: SED-5

SDG No.:

Z2363

Lab Sample ID:

Z2363-16

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualif	ier Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	77.5		mg/K	g 0.656	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-39-3	Barium	553		mg/K	g 1.680	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-43-9	Cadmium	4.670		mg/K	g 0.115	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-47-3	Chromium	91.3	٠,	mg/K	g 0.184	1	4/14/2008	4/15/2008	EPA SW-846 6010
7439-92-1	Lead 66, 200	\$7061.91	OR ·	$_{ m mg/K}$	g .5067	1	4/14/2008	4/15/2008	EPA SW-846 6010
7439-97-6	Mercury	0.907	D	mg/K	g 0.024	2	4/15/2008	4/15/2008	EPA SW-846 7471
7782-49-2	Selenium	0.944	U	mg/K	g 0.944	1	4/14/2008	4/15/2008	EPA SW-846 6010
7440-22-4	Silver	11.7		mg/K	g 0.242	1	4/14/2008	4/15/2008	EPA SW-846 6010
Comments:					-				



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: SW-1

SDG No.:

Z2363

Lab Sample ID:

Z2363-17

Matrix:

WATER

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.4	U	ug/L	5.4	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-39-3	Barium	31.4	J	ug/L	11.2	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.90	U	ug/L	0.90	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-47-3	Chromium	1.6	J	ug/L	1.4	1	4/14/2008	4/16/2008	EPA SW-846 6010
7439-92-1	Lead	7.4	J	ug/L	3.1	1	4/14/2008	4/16/2008	EPA SW-846 6010
7439-97-6	Mercury	0.06	U	ug/L	0.06	I	4/14/2008	4/14/2008	EPA SW-846 7470
7782-49-2	Selenium	4.5	U	ug/L	4.5	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-22-4	Silver	1.7		ug/L	1.7	1	4/14/2008	4/16/2008	EPA SW-846 6010
Comments:				-					



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: SW-2

SDG No.:

Z2363

Lab Sample ID:

Z2363-18

Matrix:

WATER

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.4	U	ug/L	5.4	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-39-3	Barium	24.7	J	ug/L	11.2	Ī	4/14/2008	4/16/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.90	U	ug/L	0.90	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-47-3	Chromium	1.4	J	ug/L	1.4	1	4/14/2008	4/16/2008	EPA SW-846 6010
7439-92-1	Lead	12.3		ug/L	3.1	1	4/14/2008	4/16/2008	EPA SW-846 6010
7439-97-6	Мегсигу	0.06	U	ug/L	0.06	1	4/14/2008	4/14/2008	EPA SW-846 7470
7782 - 49-2	Selenium	4.5	U	ug/L	4.5	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-22-4	Silver	1.7	U	ug/L	1.7	1	4/14/2008	4/16/2008	EPA SW-846 6010
Comments:									

Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

4/11/2008

Client Sample ID: SW-3

SDG No.:

Z2363

Lab Sample ID:

Z2363-21

Matrix:

WATER

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilutio	n Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.4	U	ug/L	5.4	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-39-3	Barium	26.8	J	ug/L	11.2	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.90	U	ug/L	0.90	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-47-3	Chromium	1.5	J	ug/L	1.4	1	4/14/2008	4/16/2008	EPA SW-846 6010
7439-92-1	Lead	10.1		ug/L	3.1	1	4/14/2008	4/16/2008	EPA SW-846 6010
7439-97-6	Mercury	0.06	U	ug/L	0.06	1	4/14/2008	4/14/2008	EPA SW-846 7470
7782 -4 9-2	Selenium	4.5	U	ug/L	4.5	1	4/14/2008	4/16/2008	EPA SW-846 6010
7440-22-4	Silver	1.7	U	ug/L	1.7	1	4/14/2008	4/16/2008	EPA SW-846 6010
Comments:	Bilver	1.7		ug/L	1.7		4/14/2000	4/10/2000	DI 11 5 W -040 00 10



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/17/2008

Client Sample ID:

FEB-SED-2RE

SDG No.:

Z2438

Lab Sample ID:

Z2438-01RE

Matrix:

SOIL

Analytical Method:

8260

% Moisture:

74

Sample Wt/Wol:

1.0 Units: g

Soil Extract Vol:

цL

Soil Aliquot Vol:

uL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VK025219.D

1

4/22/2008

VK042208

CAS Number	Parameter	Conc.	Qualifier (RL)	MDL Units
TARGETS				
75-71-8	Dichlorodifluoromethane	36	U WT 92	36 ug/Kg
74-87-3	Chloromethane	25	U 92	25 ug/Kg
75-01-4	Vinyl chloride	26	U 92	26 ug/Kg
74-83-9	Bromomethane	38	U 92	38 ug/Kg
75-00-3	Chloroethane	34	U 92	34 ug/Kg
75-69-4	Trichlorofluoromethane	22	U 92	22 ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	31	U 92	31 ug/Kg
75-35-4	1,1-Dichloroethene	18	U 2 92	18 ug/Kg
67-64-1	Acetone	310	U ♥ 460	310 ug/Kg
75-15-0	Carbon disulfide	58	J T _92	20 ug/Kg
1634-04-4	Methyl tert-butyl Ether	16	U W \ 92	16 ug/Kg
79-20-9	Methyl Acetate	31	U 7 92	31 ug/Kg
75-09-2	Methylene Chloride	45	U 92	45 ug/Kg
156-60-5	trans-1,2-Dichloroethene	23	U 92	23 ug/Kg
75-34-3	1,1-Dichloroethane	21	U 92	21 ug/Kg
110-82-7	Cyclohexane	19	U 92	19 ug/Kg
78-93-3	2-Butanone	93	U 460	93 ug/Kg
56-23-5	Carbon Tetrachloride	11	U 92	11 ug/Kg
156-59-2	cis-1,2-Dichloroethene	24	U 92	24 ug/Kg
67-66-3	Chloroform	16	U 92	16 ug/Kg
71-55-6	1,1,1-Trichloroethane	18	U 92	18 ug/Kg
108-87-2	Methylcyclohexane	15	U 92	15 ug/Kg
71-43-2	Benzene	13	U 92	13 ug/Kg
107-06-2	1,2-Dichloroethane	15	U 92	15 ug/Kg
79-01 - 6	Trichloroethene	13	U 92	13 ug/Kg
78-87-5	1,2-Dichloropropane	17	U 92	17 ug/Kg
75-27-4	Bromodichloromethane	13	U 92	13 ug/Kg
108-10-1	4-Methyl-2-Pentanone	71	U 460	71 ug/Kg
108-88-3	Toluene	16	U 92	16 ug/Kg
10061-02-6	t-1,3-Dichloropropene	16	U 92	16 ug/Kg
10061-01-5	cis-1,3-Dichloropropene	12	U , 92	12 ug/Kg
79-00-5	1,1,2-Trichloroethane	11	U V 92	11 ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/17/2008

Client Sample ID:

FEB-SED-2RE

SDG No.:

Z2438

Lab Sample ID:

Z2438-01RE

Matrix:

SOIL

Analytical Method:

% Moisture:

74

Sample Wt/Wol:

8260 1.0 Units: g

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VK025219.D

1

4/22/2008

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	81	u U^	460	81	ug/Kg
124-48-1	Dibromochloromethane	12	U	92	12	ug/Kg
106-93-4	1,2-Dibromoethane	15	U	92	15	ug/Kg
127-18-4	Tetrachloroethene	23	U	92	23	ug/Kg
108-90-7	Chlorobenzene	14	U	92	14	ug/Kg
100-41-4	Ethyl Benzene	15	U	92	15	ug/Kg
126777-61-2	m/p-Xylenes	34	U	180	34	ug/Kg
95-47-6	o-Xylene	14	U	92	14	ug/Kg
100-42-5	Styrene	11	U	92	11	ug/Kg
75-25-2	Bromoform	15	U	92	15	ug/Kg
98-82-8	Isopropylbenzene	15	U	92	15	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	16	U	92	16	ug/Kg
541-73-1	1,3-Dichlorobenzene	12	U	92	12	ug/Kg
106-46-7	1,4-Dichlorobenzene	14	υ	92	14	ug/Kg
95-50-1	1,2-Dichlorobenzene	16	U	92	16	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19	U	92	19	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	12	υ √	92	12	ug/Kg
SURROGATES	S		P			
17060-07-0	1,2-Dichloroethane-d4	55.7	111 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	53.14	106 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	44.7	89 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	24.9	50 %	50 - 133		SPK: 50
INTERNAL ST	ANDARDS					
363-72-4	Pentafluorobenzene	97626	3.25			
540-36-3	1,4-Difluorobenzene	151535	3.63			
3114-55-4	Chlorobenzene-d5	103949	6.34			
3855-82-1	1,4-Dichlorobenzene-d4	24514	8.65			

U = Not Detected

RL = Reporting Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/17/2008

Client Sample ID:

FEB-TP3 (3)

SDG No.:

Z2438

Lab Sample ID:

Z2438-02

Matrix:

SOIL

Analytical Method:

29

8260

% Moisture:

Sample Wt/Wol:

Units: g 1.0

Soil Extract Vol:

иL

Soil Aliquot Vol:

uL

File ID: VK025187.D Dilution: 1

Date Analyzed

Analytical Batch ID

4/21/2008

CAS Number	Parameter	Conc.	Qualifier	(RL)	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	13	U	35	13	ug/Kg
74-87-3	Chloromethane	9.3	UU		9.3	ug/Kg
75-01-4	Vinyl chloride	9.6	UU	1 35	9.6	ug/Kg
74-83-9	Bromomethane	14	U	35	14	ug/Kg
75-00-3	Chloroethane	13	U	35	13	ug/Kg
75-69-4	Trichlorofluoromethane	8.3	U	35	8.3	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	12	U	35	12	ug/Kg
75-35-4	1,1-Dichloroethene	7.0	U	35	7.0	ug/Kg
67-64-1	Acetone	120	U	170	120	ug/Kg
75-15-0	Carbon disulfide	7.5	U	35	7.5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	6.2	U	35	6.2	ug/Kg
79-20-9	Methyl Acetate	12	U	35	12	ug/Kg
75-09-2	Methylene Chloride	17	U	35	17	ug/Kg
156-60-5	trans-1,2-Dichloroethene	8.6	U	35	8.6	ug/Kg
75-34-3	1,1-Dichloroethane	7.8	U	35	7.8	ug/Kg
110-82-7	Cyclohexane	7.1	U	35	7.1	ug/Kg
78-93-3	2-Butanone	35	U	170	35	ug/Kg
56-23-5	Carbon Tetrachloride	4.1	U	35	4.1	ug/Kg
156-59-2	cis-1,2-Dichloroethene	9.0	U	35	9.0	ug/Kg
67-66-3	Chloroform	6.2	U	35	6.2	ug/Kg
71-55-6	1,1,1-Trichloroethane	6.6	U	35	6.6	ug/Kg
108-87-2	Methylcyclohexane	5.8	U	35	5.8	ug/Kg
71-43-2	Benzene	5.0	U	35	5.0	ug/Kg
107-06-2	1,2-Dichloroethane	5.7	U	35	5.7	ug/Kg
79-01-6	Trichloroethene	5.1	U	35	5.1	ug/Kg
78-87-5	1,2-Dichloropropane	6.6	U	35	6.6	ug/Kg
75-27-4	Bromodichloromethane	4.9	U	35	4.9	ug/Kg
108-10-1	4-Methyl-2-Pentanone	27	U	170	27	ug/Kg
108-88-3	Toluene	6.1	U	35	6.1	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.9	U	35	5.9	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.7	U	35	4.7	ug/Kg
79-00-5	1,1,2-Trichloroethane	4.3	U	35	4.3	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** **Date Collected:**

4/16/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/17/2008

Client Sample ID:

FEB-TP3 (3)

SDG No.:

Z2438

Lab Sample ID:

SOIL

Z2438-02

Matrix:

Analytical Method:

8260

% Moisture:

29

Sample Wt/Wol:

1.0 Units: g

Soil Extract Vol:

uL

Soil Aliquot Vol:

File ID:

uL

Date Analyzed

Analytical Batch ID

VK025187.D

1

Dilution:

4/21/2008

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	30	U.	170	30	ug/Kg
124-48-1	Dibromochloromethane	4.6	U	35	4.6	ug/Kg
106-93-4	1,2-Dibromoethane	5.7	U	35	5.7	ug/Kg
127-18-4	Tetrachloroethene	8.6	U	35	8.6	ug/Kg
108-90-7	Chlorobenzene	5.3	U	35	5.3	ug/Kg
100-41-4	Ethyl Benzene	5.6	U	35	5.6	ug/Kg
126777-61-2	m/p-Xylenes	13	U	70	13	ug/Kg
95-47-6	o-Xylene	5.3	U	35	5.3	ug/Kg
100-42-5	Styrene	4.3	U	35	4.3	ug/Kg
75-25-2	Bromoform	5.6	U	35	5.6	ug/Kg
98-82-8	Isopropylbenzene	5.7	U	35	5.7	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U	35	6.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.7	U	35	4.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.4	U	35	5.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	6.0	U	35	6.0	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.1	U _	35	7.1	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.6	υW)	35	4.6	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.11	114 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	53.99	108 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	42.79	86 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	39.87	80 %	50 - 133		SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	187256	3.24			
540-36-3	1,4-Difluorobenzene	232674	3.63			
3114-55-4	Chlorobenzene-d5	212290	6.34			
3855-82-1	1,4-Dichlorobenzene-d4	102448	8.64			

N = Presumptive Evidence of a Compound



Report of Analysis

Client: TVGA Consultants Date Collected: 4/16/2008

Project: RI AA Former Electruk Battery site Date Received: 4/17/2008

Ctient Sample ID: FEB-TP8 (3) SDG No.: Z2438

Lab Sample ID: Z2438-03 Matrix: SOIL

Analytical Method: 8260 % Moisture: 23

Sample Wt/Wol: 1.0 Units: g Soil Extract Vol: uL

Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed Analytical Batch ID
VK025188.D 1 4/21/2008 VK041808

CAS Number	Parameter	Conc.	Qualifie	(RL)	MDI	L Units
TARGETS			1			
75-71-8	Dichlorodifluoromethane	12	U	32	12	ug/Kg
74-87-3	Chloromethane	8.4	UU	T 32	8.4	ug/Kg
75-01-4	Vinyl chloride	8.7	ULZ	32	8.7	ug/Kg
74-83-9	Bromomethane	13	U	32	13	ug/Kg
75-00-3	Chloroethane	12	U	32	12	ug/Kg
75-69-4	Trichlorofluoromethane	7.5	U	32	7.5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	11	U	32	11	ug/Kg
75-35-4	1,1-Dichloroethene	6.3	U	32	6.3	ug/Kg
67-64-1	Acetone	110	U	160	110	ug/Kg
75-15-0	Carbon disulfide	6.8	U	32	6.8	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.6	U	32	5.6	ug/Kg
79-20-9	Methyl Acetate	11	U	32	11	ug/Kg
75-09-2	Methylene Chloride	15	U	32	15	ug/Kg
156-60-5	trans-1,2-Dichloroethene	7.8	U	32	7.8	ug/Kg
75-34-3	1,1-Dichloroethane	7.1	U	32	7.1	ug/Kg
110-82-7	Cyclohexane	6.4	U	32	6.4	ug/Kg
78-93-3	2-Butanone	32	U	160	32	ug/Kg
56-23-5	Carbon Tetrachloride	3.7	U	32	3.7	ug/Kg
156-59-2	cis-1,2-Dichloroethene	8.1	U	32	8.1	ug/Kg
67-66-3	Chloroform	5.6	U	32	5.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	6.0	U	32	6.0	ug/Kg
108-87-2	Methylcyclohexane	5.2	U	32	5.2	ug/Kg
71-43-2	Benzene	4.5	U	32	4.5	ug/Kg
107-06-2	1,2-Dichloroethane	5.2	U	32	5.2	ug/Kg
79-01-6	Trichloroethene	4.6	U	32	4.6	ug/Kg
78-87-5	1,2-Dichloropropane	5.9	U	32	5.9	ug/Kg
75-27-4	Bromodichloromethane	4.4	U	32	4.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	24	U	160	24	ug/Kg
108-88-3	Toluene	5.5	U	32	5.5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.3	U	32	5.3	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.2	U	32	4.2	ug/Kg
79-00-5	1,1,2-Trichloroethane	3.8	U	32	3.8	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

TVGA Consultants Client:

Date Collected: Date Received:

Client Sample ID:

RI AA Former Electruk Battery site

4/17/2008

SDG No.:

Z2438

4/16/2008

Lab Sample ID:

FEB-TP8 (3)

Project:

Z2438-03

Matrix:

SOIL

Analytical Method:

8260

% Moisture:

23

Sample Wt/Wol:

1.0 Units: g

Dilution:

1

Soil Extract Vol:

uL

Soil Aliquot Vol:

VK025188.D

File ID:

uL

Date Analyzed

Analytical Batch ID

4/21/2008

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	28	U	160	28	ug/Kg
124-48-1	Dibromochloromethane	4.2	U	32	4.2	ug/Kg
106-93-4	1,2-Dibromoethane	5.2	U	32	5.2	ug/Kg
127-18-4	Tetrachloroethene	7.8	U	32	7.8	ug/Kg
108-90-7	Chlorobenzene	4.8	U	32	4.8	ug/Kg
,100-41-4	Ethyl Benzene	5.0	U	32	5.0	ug/Kg
126777-61-2	m/p-Xylenes	12	U	63	12	ug/Kg
95-47-6	o-Xylene	4.8	U	32	4.8	ug/Kg
100-42-5	Styrene	3.9	U	32	3.9	ug/Kg
75-25-2	Bromoform	5.1	U	32	5.1	ug/Kg
98-82-8	Isopropylbenzene	5.2	U	32	5.2	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U	32	5.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.2	U	32	4.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.9	U	32	4.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.4	U	32	5.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.4	U	32	6.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.2	Ull	J 32 U	4.2	ug/Kg
SURROGATES			0.0	V		
17060-07-0	1,2-Dichloroethane-d4	57.3	115 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	55.95	112 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	44.34	89 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	38.01	76 %	50 - 133		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	189654	3.24			
540-36-3	1,4-Difluorobenzene	220053	3.63			
3114-55-4	Chlorobenzene-d5	205855	6.34			
3855-82-1	1,4-Dichlorobenzene-d4	96980	8.65			

U = Not Detected

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: TVGA Consultants Date Collected: 4/16/2008

Project: RI AA Former Electruk Battery site Date Received: 4/17/2008

Client Sample ID: FEB-TP6 (1)RE SDG No.: Z2438
Lab Sample ID: Z2438-04RE Matrix: SOIL

Analytical Method: 8260 % Moisture: 17

Sample Wt/Wol: 1.0 Units: g Soil Extract Vol: uL
Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed Analytical Batch ID
VK025220.D 1 4/22/2008 VK042208

CAS Number	Parameter	Conc.	Qualifier	RL	MDI	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	12	U	30	12	ug/Kg
74-87-3	Chloromethane	8.0	ひひて	30	8.0	ug/Kg
75-01-4	Vinyl chloride	8.3	uus		8.3	ug/Kg
74-83-9	Bromomethane	12	U	30	12	ug/Kg
75-00-3	Chloroethane	11	U	30	11	ug/Kg
75-69-4	Trichlorofluoromethane	7.2	U	30	7.2	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	10	U	30	10	ug/Kg
75-35-4	1,1-Dichloroethene	6.0	U	30	6.0	ug/Kg
67-64-1	Acetone	100	U	150	100	ug/Kg
75-15-0	Carbon disulfide	6.5	U	30	6.5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.4	U	30	5.4	ug/Kg
79-20-9	Methyl Acetate	10	U	30	10	ug/Kg
75-09-2	Methylene Chloride	15	U	30	15	ug/Kg
156-60-5	trans-1,2-Dichloroethene	7.4	U	30	7.4	ug/Kg
75-34-3	1,1-Dichloroethane	6.7	U	30	6.7	ug/Kg
110-82-7	Cyclohexane	6.1	U	30	6.1	ug/Kg
78-93-3	2-Butanone	30	U	150	30	ug/Kg
56-23-5	Carbon Tetrachloride	3.6	U	30	3.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	7.8	U	30	7.8	ug/Kg
67-66-3	Chloroform	5.4	U	30	5.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.7	U	30	5.7	ug/Kg
108-87-2	Methylcyclohexane	5.0	Ū	30	5.0	ug/Kg
71-43-2	Benzene	4.3	U	30	4.3	ug/Kg
107-06-2	1,2-Dichloroethane	4.9	Ū	30	4.9	ug/Kg
79-01-6	Trichloroethene	4.4	Ü	30	4.4	ug/Kg
78-87-5	1,2-Dichloropropane	5.7	Ū	30	5.7	ug/Kg
75-27-4	Bromodichloromethane	4.2	U	30	4.2	ug/Kg
108-10-1	4-Methyl-2-Pentanone	23	Ū	150	23	ug/Kg
108-88-3	Toluene	5.3	U	30	5.3	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.1	U	30	5.1	ug/Kg ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.0	U	30	4.0	ug/Kg ug/Kg
79-00-5	1,1,2-Trichloroethane	3.7	U	30	3.7	ug/Kg ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

TVGA Consultants Date Collected: 4/16/2008 Client: Project: RI AA Former Electruk Battery site Date Received: 4/17/2008 Client Sample ID: FEB-TP6 (1)RE SDG No.: Z2438 Lab Sample ID: Matrix: **SOIL** Z2438-04RE % Moisture: Analytical Method: 8260 17 Sample Wt/Wol: 1.0 Units: g Soil Extract Vol: uL

Soil Aliquot Vol: uL

File ID: Dilution: **Date Analyzed Analytical Batch ID** VK025220.D 1 4/22/2008 VK042208

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	26	U	150	26	ug/Kg
124-48-1	Dibromochloromethane	4.0	U	30	4.0	ug/Kg
106-93-4	1,2-Dibromoethane	4.9	U	30	4.9	ug/Kg
127-18-4	Tetrachloroethene	7.5	U	30	7.5	ug/Kg
108-90-7	Chlorobenzene	4.6	U	30	4.6	ug/Kg
100-41-4	Ethyl Benzene	4.8	U	30	4.8	ug/Kg
126777-61-2	m/p-Xylenes	11	U	60	11	ug/Kg
95-47-6	o-Xylene	4.6	U	30	4.6	ug/Kg
100-42-5	Styrene	3.7	U	_30	3.7	ug/Kg
75-25-2	Bromoform	4.9	u U.)	30	4.9	ug/Kg
98-82-8	Isopropylbenzene	4.9	U	30	4.9	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	30	5.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.0	U	30	4.0	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.6	U	30	4.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.2	U	30	5.2	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.1	U /	30	6.1	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.0	υV	30	4.0	ug/Kg
SURROGATES	ī					
17060-07-0	1,2-Dichloroethane-d4	51.06	102 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	53.63	107 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	49.9	100 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	37.42	75 %	50 - 133		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	161896	3.24			
540-36-3	I,4-Difluorobenzene	241943	3.63			
3114-55-4	Chlorobenzene-d5	215514	6.34			
3855-82-1	1,4-Dichlorobenzene-d4	79690	8.65			

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



VK025190.D

1

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client: TVGA Consultants Date Collected: 4/16/2008

Project: RI AA Former Electruk Battery site Date Received: 4/17/2008

Client Sample ID: FEB-TP2 (5)RE SDG No.: Z2438

Lab Sample ID: Z2438-05RE Matrix: SOIL

Analytical Method: 8260 % Moisture: 16

Sample Wt/Wol: 1.0 Units: g Soil Extract Vol: uL
Soil Aliquot Vol: uL

File ID: Dilution: Date Analyzed Analytical Batch ID

4/21/2008

VK041808

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS			(
75-71-8	Dichlorodifluoromethane	11	U	_ 29	11	ug/Kg
74-87-3	Chloromethane	7.8	UUS	29	7.8	ug/Kg
75-01-4	Vinyl chloride	8.1	บนป	29	8.1	ug/Kg
74-83-9	Bromomethane	12	U	29	12	ug/Kg
75-00-3	Chloroethane	11	U	29	11	ug/Kg
75-69-4	Trichlorofluoromethane	7.0	U	29	7.0	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	9.9	U	29	9.9	ug/Kg
75-35-4	1,1-Dichloroethene	5.9	U	29	5.9	ug/Kg
67-64-1	Acetone	100	U	150	100	ug/Kg
75-15-0	Carbon disulfide	6.4	U	29	6.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.2	U	29	5.2	ug/Kg
79-20-9	Methyl Acetate	10	U	29	10	ug/Kg
75-09-2	Methylene Chloride	14	U	29	14	ug/Kg
156-60-5	trans-1,2-Dichloroethene	7.2	U	29	7.2	ug/Kg
75-34-3	1,1-Dichloroethane	6.6	U	29	6.6	ug/Kg
110-82-7	Cyclohexane	6.0	U	29	6.0	ug/Kg
78-93-3	2-Butanone	30	U	150	30	ug/Kg
56-23-5	Carbon Tetrachloride	3.5	U	29	3.5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	7.6	U	29	7.6	ug/Kg
67-66-3	Chloroform	5.2	U	29	5.2	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.6	U	29	5.6	ug/Kg
108-87-2	Methylcyclohexane	4.9	U	29	4.9	ug/Kg
71-43-2	Benzene	4.2	U	29	4.2	ug/Kg
107-06-2	1,2-Dichloroethane	4.8	U	29	4.8	ug/Kg
79-01-6	Trichloroethene	4.3	U	29	4.3	ug/Kg
78-87-5	1,2-Dichloropropane	5.5	U	29	5.5	ug/Kg
75-27-4	Bromodichloromethane	4.1	U	29	4.1	ug/Kg
108-10-1	4-Methyl-2-Pentanone	23	U	150	23	ug/Kg
108-88-3	Toluene	5.2	U	29	5.2	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.0	U	29	5.0	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	3.9	U	29	3.9	ug/Kg
79-00-5	1,1,2-Trichloroethane	3.6	U	29	3.6	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client: **TVGA Consultants** **Date Collected:**

4/16/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/17/2008

Client Sample ID:

FEB-TP2 (5)RE

SDG No.:

Z2438

Lab Sample ID:

Z2438-05RE

Matrix:

SOIL

Analytical Method:

16

8260

% Moisture: Soil Extract Vol:

uL

Sample Wt/Wol: Soil Aliquot Vol:

VK025190.D

1.0 Units: g иL

1

File ID: Dilution:

Date Analyzed 4/21/2008

Analytical Batch ID

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	26	U	150	26	ug/Kg
124-48-1	Dibromochloromethane	3.9	U	29	3.9	ug/Kg
106-93-4	1,2-Dibromoethane	4.8	U	29	4.8	ug/Kg
127-18-4	Tetrachloroethene	7.3	U	29	7.3	ug/Kg
108-90-7	Chlorobenzene	4.5	U	29	4.5	ug/Kg
100-41-4	Ethyl Benzene	4.7	U	29	4.7	ug/Kg
126777-61-2	m/p-Xylenes	11	U	59	11	ug/Kg
95-47-6	o-Xylene	4.5	U	29	4.5	ug/Kg
100-42-5	Styrene	3.7	U	29	3.7	ug/Kg
75-25-2	Bromoform	4.8	U	29	4.8	ug/Kg
98-82-8	Isopropylbenzene	4.8	U	29	4.8	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	29	5.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.9	U	29	3.9	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.5	U	29	4.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.1	U	29	5.1	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.0	U	29	6.0	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.9	U	29	3.9	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.53	115 %	54 - 142		SPK: 50
1868-53-7	Dibromofluoromethane	52.89	106 %	54 - 141		SPK: 50
2037-26-5	Toluene-d8	41.96	84 %	63 - 124		SPK: 50
460-00-4	4-Bromofluorobenzene	37.92	76 %	50 - 133		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	178765	3.24			
540-36-3	1,4-Difluorobenzene	211442	3.63			
3114-55-4	Chlorobenzene-d5	187280	6.34			
3855-82-1	1,4-Dichlorobenzene-d4	94504	8.65			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Lab Sample ID:

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Matrix:

WATER

Report of Analysis

Client: TVGA Consultants Date Collected: 4/16/2008

Project: RI AA Former Electruk Battery site Date Received: 4/17/2008

Project: RI AA Former Electruk Battery site Date Received: 4/17/2008

Client Sample ID: RINSEATE-BLANK SDG No.: Z2438

Analytical Method: 8260 % Moisture: 100

Sample Wt/Wol: 5.0 Units: mL Soil Extract Vol: uL

Soil Aliquot Vol: uL

Z2438-07

File ID: Dilution: Date Analyzed Analytical Batch ID
VH020543.D 1 4/18/2008 VH041708

CAS Number	Parameter	Conc.	Qualifier	RL)	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	UUJ	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	UUJ	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	Ü	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	Ū	25	1.8	ug/L
108-88-3	Toluene	0.16	Ü	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	Ü	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Client: **TVGA Consultants**

Project: RI AA Former Electruk Battery site

RINSEATE-BLANK

Client Sample ID: Lab Sample ID: Z2438-07

Analytical Method: 8260

Sample Wt/Wol: 5.0 Units: mL uL

Soil Aliquot Vol:

SDG No.: Matrix:

WATER

4/16/2008

4/17/2008

Z2438

% Moisture:

100

Soil Extract Vol:

Date Collected:

Date Received:

uL

File ID:	Dilution:	Date Analyzed	Analytical Batch ID	
VH020543.D	1	4/18/2008	VH041708	

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.55	111%	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	47.32	95 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	54.73	109 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	52.09	104 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	1471027	3.26			
540-36-3	1,4-Difluorobenzene	2885017	3.73			
3114-55-4	Chlorobenzene-d5	2359275	6.92			
3855-82-1	1,4-Dichlorobenzene-d4	1082302	9.70			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** **Date Collected:** Date Received:

4/16/2008

Project:

RI AA Former Electruk Battery site

4/17/2008

Client Sample ID:

TRIP BLANK

SDG No.:

Z2438

Lab Sample ID:

Z2438-08

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

Soil Aliquot Vol:

5.0 Units: mL uL

Soil Extract Vol:

иL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VH020542.D

1

4/18/2008

VH041708

CAS Number	Parameter	Conc.	Qualifie	r/RL)	MDL	Units
TARGETS				1/		
75-71-8	Dichlorodifluoromethane	0.88	υV	5 5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	_ 25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	UUS	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

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J = Estimated Value

B = Analyte Found in Associated Method Blank



Report of Analysis

Client: T

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electruk Battery site

Date Received:

4/17/2008

Client Sample ID:

TRIP BLANK

SDG No.:

Z2438

Lab Sample ID:

Z2438-08

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

иL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VH020542.D

1

4/18/2008

VH041708

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.62	113 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	47.21	94 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	54.46	109 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	51.32	103 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	1314866	3.27			
540-36-3	1,4-Difluorobenzene	2753930	3.74			
3114-55-4	Chlorobenzene-d5	2306788	6.93			
3855-82-1	1,4-Dichlorobenzene-d4	921337	9.70			

U = Not Detected

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/16/2008 Project: RI AA Former Electruk Battery site Date Received: 4/17/2008 Client Sample FEB-SED-2 SDG No.: Z2438 Lab Sample ID: Z2438-01 Matrix: SOIL Analytical Method: 8270 % Moisture: 74 Sample Wt/Wol: 30.1 **Extract Vol:** 1000 uL

File ID	Dilution	Date Extracted	Date Analyze	ed Aı	nalytical Ba	atch ID	
BF019776.D	1	4/18/2008	4/23/2008		₹041808		
CAS Number	Parameter		Conc.	Qualifier	(RL)	MDL	Units
TARGETS				<u></u>	1		
100-52-7	Benzaldehyd	e	230	1 7	1300	42	ug/Kg
108-95-2	Phenol		140	AU)	1300	35	ug/Kg
111-44-4	bis(2-Chloroe		17	UUS	1300	17	ug/Kg
95-57-8	2-Chloropher	ol	34	U	1300	34	ug/Kg
95-48-7	2-Methylpher		34	U	1300	34	ug/Kg
108-60-1	2,2-oxybis(1-	Chloropropane)	52	U V	1300	52	ug/Kg
98-86-2	Acetophenon	e	210	JJ	_1300	38	ug/Kg
106-44-5	3+4-Methylpl	nenols	39	u uJ	1300	39	ug/Kg
621-64-7	N-Nitroso-di-	n-propylamine	46	U	1300	46	ug/Kg
67-72-1	Hexachloroet	hane	42	U	1300	42	ug/Kg
98-95-3	Nitrobenzene		30	U	1300	30	ug/Kg
78-59-1	Isophorone		42	U	1300	42	ug/Kg
88-75-5	2-Nitropheno		47	U	1300	47	ug/Kg
105-67-9	2,4-Dimethyl	phenol	38	U	1300	38	ug/Kg
111-91-1	bis(2-Chloroe	thoxy)methane	29	U	1300	29	ug/Kg
120-83-2	2,4-Dichlorop	henol	30	U	1300	30	ug/Kg
91-20-3	Naphthalene		31	U	1300	31	ug/Kg
106-47-8	4-Chloroanilii	ne	83	U	1300	83	ug/Kg
87-68-3	Hexachlorobu	tadiene	51	U	1300	51	ug/Kg
105-60-2	Caprolactam		150	U	1300	150	ug/Kg
59-50-7	4-Chloro-3-m	ethylphenol	37	U	1300	37	ug/Kg
91-57-6	2-Methylnaph	thalene	36	U	1300	36	ug/Kg
77-47-4	Hexachlorocy	clopentadiene	65	U	1300	65	ug/Kg
88-06-2	2,4,6-Trichlor	ophenol	30	U	1300	30	ug/Kg
95-95-4	2,4,5-Trichlor	ophenol	38	U	3200	38	ug/Kg
92-52-4	1,1-Biphenyl		38	U	1300	38	ug/Kg
91-58-7	2-Chloronapht	halene	31	U	1300	31	ug/Kg
88-74-4	2-Nitroaniline		60	υV	3200	60	ug/Kg
131-11-3	Dimethylphtha	ılate	160	JJ	1300	37	ug/Kg
208-96-8	Acenaphthyler		19	UNIT	1300	19	ug/Kg
606-20-2	2,6-Dinitrotolu		45	1/4	1300	45	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank



Client: **TVGA Consultants** Date Collected: 4/16/2008 Date Received: Project: RI AA Former Electruk Battery site 4/17/2008 Client Sample FEB-SED-2 SDG No.: **Z2438** ID: Lab Sample ID: Z2438-01 Matrix: SOIL Analytical Method: 8270 % Moisture: 74 Sample Wt/Wol: 30.1 g **Extract Vol:** 1000 uL

File	ID Dilution	Date Extracted	Date Analyzed	Analytical Batch ID	$\overline{}$
BF01	9776.D 1	4/18/2008	4/23/2008	BF041808	

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS	Action of the Control		سمر ۱۰			
99-09-2	3-Nitroaniline	84	υЩϽ	3200	84	ug/Kg
83-32-9	Acenaphthene	27	U	1300	27	ug/Kg
51-28-5	2,4-Dinitrophenol	68	U	3200	68	ug/Kg
100-02-7	4-Nitrophenol	75	U	3200	75	ug/Kg
132-64-9	Dibenzofuran	39	U	1300	39	ug/Kg
121-14-2	2,4-Dinitrotoluene	42	U	1300	42	ug/Kg
84-66-2	Diethylphthalate	43	U	1300	43	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	48	U	1300	48	ug/Kg
86-73-7	Fluorene	34	U	1300	34	ug/Kg
100-01-6	4-Nitroaniline	100	U	3200	100	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	170	U	3200	170	ug/Kg
86-30-6	N-Nitrosodiphenylamine	95	U	1300	95	ug/Kg
101-55-3	4-Bromophenyl-phenylether	58	U	1300	58	ug/Kg
118-74-1	Hexachlorobenzene	38	U	1300	38	ug/Kg
1912-24-9	Atrazine	90	U	1300	90	ug/Kg
87-86-5	Pentachlorophenol	140	U	3200	140	ug/Kg
85-01-8	Phenanthrene	40	U	1300	40	ug/Kg
120-12-7	Anthracene	43	U	1300	43	ug/Kg
86-74-8	Carbazole	97	U	1300	97	ug/Kg
84-74-2	Di-n-butylphthalate	60	υV	1300	60	ug/Kg
206-44-0	Fluoranthene	180	J J	1300	31	ug/Kg
129-00-0	Ругепе	140	J J	1300	28	ug/Kg
85-68-7	Butylbenzylphthalate	80	U NJ	1300	80	ug/Kg
91-94-1	3,3-Dichlorobenzidine	96	U	1300	96	ug/Kg
56-55-3	Benzo(a)anthracene	31	U	1300	31	ug/Kg
218-01-9	Chrysene	24	U 🗸	1300	24	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	3000	J	1300	49	ug/Kg
117-84-0	Di-n-octyl phthalate	45	UuT	1300	45	ug/Kg
205-99-2	Benzo(b)fluoranthene	91	U /	1300	91	ug/Kg
207-08-9	Benzo(k)fluoranthene	58	U	1300	58	ug/Kg
50-32-8	Benzo(a)pyrene	37	U 🗸	1300	37	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank



Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008
Client Sample	FEB-SED-2	SDG No.:	Z2438
ID: Lab Sample ID:	Z2438-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	74
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID BF019776.D	Dilution 1	Date Extracted 4/18/2008	Date Ana 4/23/2008	-		alytical B	atch ID	
CAS Number	Parameter	***************************************	Conc.		Qualifier	RL	MDL	Units
TARGETS								
193-39-5	Indeno(1,2,3-	cd)pyrene	32		U	1300	32	ug/Kg
53-70-3	Dibenz(a,h)aı	nthracene	93		U	1300	93	ug/Kg
191-24-2	Benzo(g,h,i)p	erylene	92		U	1300	92	ug/Kg
SURROGATES								
367-12-4	2-Fluorophen	ol	64.62		43 %	23 - 104		SPK: 15
13127-88-3	Phenol-d5		79.55		53 %	29 - 104		SPK: 15
4165-60-0	Nitrobenzene	-d5	58.14		58 %	28 - 110		SPK: 10
321-60-8	2-Fluorobiphe	enyl	40.61	8	41 %	32 - 109		SPK: 10
118-79-6	2,4,6-Tribrom	ophenol	62.27		42 %	24 - 112		SPK: 15
1718-51-0	Terphenyl-d1		35.32		35 %	30 - 150		SPK: 10
INTERNAL STAND	OARDS							
3855-82-1	1,4-Dichlorob	enzene-d4	73824		6.46			
1146-65-2	Naphthalene-		286675		8.39			
15067-26-2	Acenaphthene		139791		11.22			
1517-22-2	Phenanthrene-	-d10	208940		13.64			
1719-03-5	Chrysene-d12		177068		17.68			
1520-96-3	Perylene-d12		185138		20.29			
TENTITIVE IDENT	•	OUNDS						
	ACP4.27		1200		A	4.27	R	ug/Kg
1000139-90-3	1-Isobutoxy-2	-ethvlhexane	620	N		6.53	10	ug/Kg
13798-23-7	Sulfur		460	N	J	11.65		ug/Kg
	unknown12.76	5	500	1*	J	12.76		ug/Kg
140-66-9	Phenol. 4-(1.1	,3,3-tetramethylbuty	1100	N	, I	12.85		ug/Kg ug/Kg
	unknown12.90		1200	~! V	J	12.90		ug/Kg
80-46-6		-dimethylpropyl)-	930	./	J	12.96		ug/Kg
	unknown12.99		530	/^	J	12.99		ug/Kg ug/Kg
	unknown13.06		580		J	13.06		ug/Kg ug/Kg
51110-60-2		droxybenzoxazole	1100	. /	J	13.14		ug/Kg ug/Kg
	unknown13.20		1800	\sim	J	13.14		ug/Kg
2219-84-3		hyl-4-(1,1,3,3-tetram	790	./	J	13.27		ug/Kg
57-10-3	n-Hexadecano		310	~	J	14.57		ug/Kg

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E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank



7390-81-0

Oxirane, hexadecyl-

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008
Client Sample	FEB-SED-2	SDG No.:	Z2438
Lab Sample ID:	Z2438-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	74
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

CAS	Number	Parameter		Conc.	Qualifier	RL	MDL	Units
	BF019776.D	1	4/18/2008	4/23/2008	BF	041808		
1	File ID	Dilution	Date Extracted	Date Analyzed	An	Analytical Batch ID		

900

17.23

ug/Kg

Client:	TVGA Consultants	Date Collected:	4/16/2008		
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008		
Client Sample	FEB-TP3 (3)	SDG No.:	Z2438		
ID: Lab Sample ID:	Z2438-02	Matrix:	SOIL		
Analytical Method:	8270	% Moisture:	29		
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL		

File ID	Dilution Da	te Extracted	Date Analyzed	An	Analytical Batch ID			
BF019772.D	1 4/1	8/2008	4/22/2008	BF	041808			
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units	
TARGETS			***************************************					
100-52-7	Benzaldehyde		16	U	460	16	ug/Kg	
108-95-2	Phenol		13	U	460	13	ug/Kg	
111-44-4	bis(2-Chloroethyl)	ether	6.1	U	460	6.1	ug/Kg	
95-57-8	2-Chlorophenol		13	U	460	13	ug/Kg	
95-48-7	2-Methylphenol		12	U	460	12	ug/Kg	
108-60-1	2,2-oxybis(1-Chlor	opropane)	19	U	460	19	ug/Kg	
98-86-2	Acetophenone		14	U	460	14	ug/Kg	
106-44-5	3+4-Methylphenol	S	14	U	460	14	ug/Kg	
621-64-7	N-Nitroso-di-n-pro	pylamine	17	U	460	17	ug/Kg	
67-72-1	Hexachloroethane		15	U	460	15	ug/Kg	
98-95-3	Nitrobenzene		11	U	460	11	ug/Kg	
78-59-1	Isophorone		15	U	460	15	ug/Kg	
88-75-5	2-Nitrophenol		17	U	460	17	ug/Kg	
105-67-9	2,4-Dimethylpheno	ol	14	U	460	14	ug/Kg	
111-91-1	bis(2-Chloroethoxy)methane	11	U	460	11	ug/Kg	
120-83-2	2,4-Dichloropheno	I	11	U	460	11	ug/Kg	
91-20-3	Naphthalene		11	U	460	11	ug/Kg	
106-47-8	4-Chloroaniline		31	U	460	31	ug/Kg	
87-68-3	Hexachlorobutadie	ne	19	U	460	19	ug/Kg	
105-60-2	Caprolactam		56	U	460	56	ug/Kg	
59-50-7	4-Chloro-3-methylj	ohenol	14	U	460	14	ug/Kg	
91-57-6	2-Methylnaphthale	ne	13	U	460	13	ug/Kg	
77-47-4	Hexachlorocyclope	ntadiene	24	U	460	24	ug/Kg	
88-06-2	2,4,6-Trichloropher	nol	11	U	460	11	ug/Kg	
95-95-4	2,4,5-Trichloropher	nol	14	U	1200	14	ug/Kg	
92-52-4	1,1-Biphenyl		14	U	460	14	ug/Kg	
91-58-7	2-Chloronaphthaler	ne	11	U	460	11	ug/Kg	
88-74-4	2-Nitroaniline		22	U	1200	22	ug/Kg	
131-11-3	Dimethylphthalate		14	U	460	14	ug/Kg	
208-96-8	Acenaphthylene		6.8	U	460	6.8	ug/Kg	
606-20-2	2,6-Dinitrotoluene		17	U	460	17	ug/Kg	

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/16/2008	
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008	
Client Sample	FEB-TP3 (3)	SDG No.:	Z2438	
ID: Lab Sample ID:	Z2438-02	Matrix:	SOIL	
Analytical Method:	8270	% Moisture:	29	
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL	

File ID	Dilution	Date Extracted	Date Analyze		alytical I	Batch ID	
BF019772.D	1	4/18/2008	4/22/2008	BF	041808		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS	2.27						
99-09-2	3-Nitroaniline		31	U	1200	31	ug/Kg
83-32-9	Acenaphthene		10	U	460	10	ug/Kg
51-28-5	2,4-Dinitroph		25	U	1200	25	ug/Kg
100-02-7	4-Nitrophenol		28	U	1200	28	ug/Kg
132-64-9	Dibenzofuran		14	U	460	14	ug/Kg
121-14-2	2,4-Dinitrotol		15	U	460	15	ug/Kg
84-66-2	Diethylphthala		16	U	460	16	ug/Kg
7005-72-3		yl-phenylether	18	U	460	18	ug/Kg
86-73-7	Fluorene		13	U	460	13	ug/Kg
100-01-6	4-Nitroaniline		37	U	1200	37	ug/Kg
534-52-1	4,6-Dinitro-2-	methylphenol	63	U	1200	63	ug/Kg
86-30-6	N-Nitrosodiph	enylamine	35	U	460	35	ug/Kg
101-55-3	4-Bromophen	l-phenylether	21	U	460	21	ug/Kg
118-74-1	Hexachlorobe	nzene	14	U	460	14	ug/Kg
1912-24-9	Atrazine		33	U	460	33	ug/Kg
87-86-5	Pentachloroph	enol	53	U	1200	53	ug/Kg
85-01-8	Phenanthrene		14	U	460	14	ug/Kg
120-12-7	Anthracene		16	U	460	16	ug/Kg
86-74-8	Carbazole		36	U	460	36	ug/Kg
84-74-2	Di-n-butylphtl	alate	22	U	460	22	ug/Kg
206-44-0	Fluoranthene		11	U	460	11	ug/Kg
129-00-0	Ругепе		10	U	460	10	ug/Kg
85-68-7	Butylbenzylph	thalate	29	U	460	29	ug/Kg
91-94-1	3,3-Dichlorobe	enzidine	35	U	460	35	ug/Kg
56-55-3	Benzo(a)anthra	acene	11	U	460	11	ug/Kg
218-01-9	Chrysene		8.6	U	460	8.6	ug/Kg
117-81-7	bis(2-Ethylhex	vl)phthalate	18	U	460	18	ug/Kg
117-84-0	Di-n-octyl phtl	-	16	U	460	16	ug/Kg
205-99-2	Benzo(b)fluora		33	U	460	33	ug/Kg
207-08-9	Benzo(k)fluora		21	U	460	21	ug/Kg
50-32-8	Benzo(a)pyren		14	U	460	14	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank



Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/16/2008	
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008	
Client Sample	FEB-TP3 (3)	SDG No.: Z2438		
Lab Sample ID:	Z2438-02	Matrix:	SOIL	
Analytical Method:	8270	% Moisture:	29	
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL	

File ID	Dilution	Date Extracted	Date Analyze	d An	alytical Ba	atch ID		
BF019772.D	1 4/18/2008		4/22/2008	BF	BF041808			
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units	
TARGETS								
193-39-5	Indeno(1,2,	3-cd)pyrene	12	U	460	12	ug/Kg	
53-70-3	Dibenz(a,h)	anthracene	34	U	460	34	ug/Kg	
191-24-2	Benzo(g,h,i)perylene	34	U	460	34	ug/Kg	
SURROGATES							0 0	
367-12-4	2-Fluorophe	enol	124.6	83 %	23 - 104		SPK: 15	
13127-88-3	Phenol-d5		126.23	84 %	29 - 104		SPK: 15	
4165-60-0	Nitrobenzer	ne-d5	83.44	83 %	28 - 110		SPK: 10	
321-60-8	2-Fluorobip	henyl	86.88	87 %	32 - 109		SPK: 10	
118-79-6	2,4,6-Tribro	mophenol	102.83	69 %	24 - 112		SPK: 15	
1718-51-0	Terphenyl-d	-	94.25	94 %	30 - 150		SPK: 10	
INTERNAL STAND	DARDS							
3855-82-1	1,4-Dichloro	obenzene-d4	79537	6.46				
1146-65-2	Naphthalene	e-d8	319387	8.39				
15067-26-2	Acenaphthe	ne-d10	165292	11.22				
1517-22-2	Phenanthren	ne-d10	254079	13.65				
1719-03-5	Chrysene-d1	12	212015	17.68				
1520-96-3	Perylene-d1	2	190204	20.29				
TENTITIVE IDENT	TFIED COM	POUNDS						
	ACP4.28		880	-A	4.28	7	ug/Kg	

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants Date Collected:** 4/16/2008 Project: Date Received: 4/17/2008 RI AA Former Electruk Battery site Client Sample FEB-TP8 (3) SDG No.: Z2438 ID: Lab Sample ID: Z2438-03 SOIL Matrix: Analytical Method: 8270 % Moisture: 23 Sample Wt/Wol: 30.1 **Extract Vol:** 1000 g uL

File ID	Dilution Date Extracted	Date Analyzed	Ā	Analytical B	atch ID	
BF019773.D	1 4/18/2008	4/23/2008	I	3F041808		
CAS Number	Parameter	Conc.	Qualific	er RL	MDL	Units
TARGETS						
100-52-7	Benzaldehyde	14	U	430	14	ug/Kg
108-95-2	Phenol	12	U	430	12	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5.6	U	430	5.6	ug/Kg
95-57-8	2-Chlorophenol	12	U	430	12	ug/Kg
95-48-7	2-Methylphenol	11	U	430	11	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	18	U	430	18	ug/Kg
98-86-2	Acetophenone	13	U	430	13	ug/Kg
106-44-5	3+4-Methylphenols	13	U	430	13	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	16	U	430	16	ug/Kg
67-72-1	Hexachloroethane	14	U	430	14	ug/Kg
98-95-3	Nitrobenzene	10	U	430	10	ug/Kg
78-59-1	Isophorone	14	U	430	14	ug/Kg
88-75-5	2-Nitrophenol	16	U	430	16	ug/Kg
105-67-9	2,4-Dimethylphenol	13	U	430	13	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	9.8	U	430	9.8	ug/Kg
120-83-2	2,4-Dichlorophenol	10	U	430	10	ug/Kg
91-20-3	Naphthalene	10	U	430	10	ug/Kg
106-47-8	4-Chloroaniline	28	U	430	28	ug/Kg
87-68-3	Hexachlorobutadiene	17	U	430	17	ug/Kg
105-60-2	Caprolactam	51	U	430	51	ug/Kg
59-50-7	4-Chloro-3-methylphenol	13	U	430	13	ug/Kg
91-57-6	2-Methylnaphthalene	12	U	430	12	ug/Kg
77-47-4	Hexachlorocyclopentadiene	22	U	430	22	ug/Kg
88-06-2	2,4,6-Trichlorophenol	10	U	430	10	ug/Kg
95-95-4	2,4,5-Trichlorophenol	13	U	1100	13	ug/Kg
92-52-4	1,1-Biphenyl	13	U	430	13	ug/Kg
91-58-7	2-Chloronaphthalene	10	U	430	10	ug/Kg
88-74-4	2-Nitroaniline	20	U	1100	20	ug/Kg
131-11-3	Dimethylphthalate	12	U	430	12	ug/Kg
208-96-8	Acenaphthylene	6.3	U	430	6.3	ug/Kg
606-20-2	2,6-Dinitrotoluene	15	U	430	15	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

Client: **TVGA Consultants** Date Collected: 4/16/2008 Project: Date Received: 4/17/2008 RI AA Former Electruk Battery site Client Sample FEB-TP8 (3) SDG No.: Z2438 ID: Lab Sample ID: Z2438-03 Matrix: **SOIL** Analytical Method: 8270 % Moisture: 23 Sample Wt/Wol: 30.1 **Extract Vol:** 1000 uLg

	File ID BF019773.D	Dilution 1	Date Extracted 4/18/2008	Date Analyzeo 4/23/2008		alytical B 041808	Satch ID	
CAS	Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARO	GETS							
99-09	-2	3-Nitroanili	ne	28	U	1100	28	ug/Kg
83-32	-9	Acenaphthe	ne	9.3	U	430	9.3	ug/Kg
51-28-	-5	2,4-Dinitrop	henol	23	U	1100	23	ug/Kg

CAS Number	Parameter	Conc.	Qualitie	r RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	28	U	1100	28	ug/Kg
83-32-9	Acenaphthene	9.3	U	430	9.3	ug/Kg
51-28-5	2,4-Dinitrophenol	23	U	1100	23	ug/Kg
100-02-7	4-Nitrophenol	25	U	1100	25	ug/Kg
132-64-9	Dibenzofuran	13	U	430	13	ug/Kg
121-14-2	2,4-Dinitrotoluene	14	U	430	14	ug/Kg
84-66-2	Diethylphthalate	15	U	430	15	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	16	U	430	16	ug/Kg
86-73-7	Fluorene	12	U	430	12	ug/Kg
100-01-6	4-Nitroaniline	34	U	1100	34	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	58	U	1100	58	ug/Kg
86-30-6	N-Nitrosodiphenylamine	32	U	430	32	ug/Kg
101-55-3	4-Bromophenyl-phenylether	19	U	430	19	ug/Kg
118-74-1	Hexachlorobenzene	13	U	430	13	ug/Kg
1912-24-9	Atrazine	30	U	430	30	ug/Kg
87-86-5	Pentachlorophenol	49	U	1100	49	ug/Kg
85-01-8	Phenanthrene	13	U	430	13	ug/Kg
120-12-7	Anthracene	14	U	430	14	ug/Kg
86-74-8	Carbazole	33	U	430	33	ug/Kg
84-74-2	Di-n-butylphthalate	20	U	430	20	ug/Kg
206-44-0	Fluoranthene	10	U	430	10	ug/Kg
129-00-0	Pyrene	9.3	U	430	9.3	ug/Kg
85-68-7	Butylbenzylphthalate	27	U	430	27	ug/Kg
91-94-1	3,3-Dichlorobenzidine	32	U	430	32	ug/Kg
56-55-3	Benzo(a)anthracene	10	U	430	10	ug/Kg
218-01-9	Chrysene	8.0	U	430	8.0	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	16	U	430	16	ug/Kg
117-84-0	Di-n-octyl phthalate	15	U	430	15	ug/Kg
205-99-2	Benzo(b)fluoranthene	31	U	430	31	ug/Kg
207-08-9	Benzo(k)fluoranthene	20	U	430	20	ug/Kg
50-32-8	Benzo(a)pyrene	13	U	430	13	ug/Kg
		and the second second second				

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E = Value Exceeds Calibration Range

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B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008
Client Sample	FEB-TP8 (3)	SDG No.:	Z2438
ID: Lab Sample ID:	Z2438-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	23
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Dilution Date Extracted Date Analyzed	An	alytical B	atch ID		
BF019773.D	1 4/18/2008		4/23/2008	BF041808			
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	11	U	430	11	ug/Kg
53-70-3	Dibenz(a,h)	anthracene	31	U	430	31	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31	U	430	31	ug/Kg
SURROGATES							
367-12-4	2-Fluorophe	2-Fluorophenol		87 %	23 - 104		SPK: 15
13127-88-3	Phenol-d5	•		90 %	29 - 104		SPK: 15
4165-60-0	Nitrobenzene-d5		85.63	86 %	28 - 110		SPK: 10
321-60-8	2-Fluorobip	henyl	94.22	94 %	32 - 109		SPK: 10
118-79-6	2,4,6-Tribro	mophenol	102.44	68 %	24 - 112		SPK: 15
1718-51-0	Terphenyl-c	114	101.43	101 %	30 - 150		SPK: 10
INTERNAL STAND	ARDS			¥			
3855-82-1	1,4-Dichlore	obenzene-d4	72067	6.46			
1146-65-2	Naphthalene	e-d8	293935	8.39			
15067-26-2	Acenaphthe	ne-d10	151208	11.22			
1517-22-2	Phenanthrer	ne-d10	234965	13.65			
1719-03-5	Chrysene-d	12	201039	17.68			
1520-96-3	Perylene-d1	2	178167	20.29			
TENTITIVE IDENT	TFIED COM	POUNDS					
	ACP4.28		.840	_A	4.28	R	ug/Kg

Client: **TVGA Consultants** Date Collected: 4/16/2008 Project: RI AA Former Electruk Battery site Date Received: 4/17/2008 **Client Sample FEB-TP6 (1)** SDG No.: Z2438 ID: Lab Sample ID: Z2438-04 Matrix: SOIL Analytical Method: 8270 % Moisture: 17 Sample Wt/Wol: 30.0 g Extract Vol: 1000 uL

File ID	Dilution	Date Extracted	Date Analyze	d Aı	nalytical B	atch ID	
BF019780.D	1	4/18/2008	4/23/2008	ВІ	041808		
CAS Number	Parameter		Conc.	Qualifie	RL	MDL	Units
TARGETS				1			
100-52-7	Benzaldehyd	e	13	U	400	13	ug/Kg
108-95-2	Phenol		11	U	400	11	ug/Kg
111-44-4	bis(2-Chloroe	ethyl)ether	5.2	U	400	5.2	ug/Kg
95-57-8	2-Chloropher	nol	11	U	400	11	ug/Kg
95-48-7	2-Methylpher	nol	11	U	400	11	ug/Kg
108-60-1	2,2-oxybis(1-	Chloropropane)	16	U	400	16	ug/Kg
98-86-2	Acetophenon	e	12	U	400	12	ug/Kg
106-44-5	3+4-Methylp	henols	12	U	400	12	ug/Kg
621-64-7	N-Nitroso-di-	n-propylamine	14	U	400	14	ug/Kg
67-72-1	Hexachloroet	hane	13	U	400	13	ug/Kg
98-95-3	Nitrobenzene		9.3	U	400	9.3	ug/Kg
78-59-1	Isophorone		13	U	400	13	ug/Kg
88-75-5	2-Nitropheno	1	15	U	400	15	ug/Kg
105-67-9	2,4-Dimethyl	phenol	12	U	400	12	ug/Kg
111-91-1	bis(2-Chloroe	thoxy)methane	9.1	U	400	9.1	ug/Kg
120-83-2	2,4-Dichlorop	henol	9.4	U	400	9.4	ug/Kg
91-20-3	Naphthalene		9.6	U	400	9.6	ug/Kg
106-47-8	4-Chloroanili	ne	26	U	400	26	ug/Kg
87-68-3	Hexachlorobu	ıtadiene	16	U	400	16	ug/Kg
105-60-2	Caprolactam		48	U	400	48	ug/Kg
59-50-7	4-Chloro-3-m	ethylphenol	12	U	400	12	ug/Kg
91-57-6	2-Methylnaph	thalene	11	U	400	11	ug/Kg
77-47-4	Hexachlorocy	clopentadiene	20	U	400	20	ug/Kg
88-06-2	2,4,6-Trichlor		9.3	U	400	9.3	ug/Kg
95-95-4	2,4,5-Trichlor	ophenol	12	U	1000	12	ug/Kg
92-52-4	1,1-Biphenyl		12	U	400	12	ug/Kg
91-58-7	2-Chloronaph	thalene	9.6	U	400	9.6	ug/Kg
88-74-4	2-Nitroaniline		19	U	1000	19	ug/Kg
131-11-3	Dimethylphth	alate	12	U	400	12	ug/Kg
208-96-8	Acenaphthyle		5.8	U	400	5.8	ug/Kg
606-20-2	2,6-Dinitrotol		14	U	400	14	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/16/2008 4/17/2008 Project: Date Received: RI AA Former Electruk Battery site Client Sample FEB-TP6 (1) SDG No.: Z2438 Lab Sample ID: Z2438-04 Matrix: SOIL Analytical Method: 8270 % Moisture: 17 Sample Wt/Wol: 30.0 **Extract Vol:** 1000 $\mathbf{u}\mathbf{L}$ g

File ID	File ID Dilution Date Extracted		Date Analyze	d An	alytical Ba	atch ID	
BF019780.D	1	4/18/2008	4/23/2008	BF	041808		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS	2.31%		26	**	1000	26	n.
99-09-2	3-Nitroanilin	-	26	U	1000	26	ug/Kg
83-32-9	Acenaphthen		8.6	U	400	8.6	ug/Kg
51-28-5	2,4-Dinitropl		21	U	1000	21	ug/Kg
100-02-7	4-Nitropheno		24	U	1000	24	ug/Kg
132-64-9	Dibenzofurar		12	U	400	12	ug/Kg
121-14-2	2,4-Dinitroto		13	U	400	13	ug/Kg
84-66-2	Diethylphtha		14	U	400	14	ug/Kg
7005-72-3	-	nyl-phenylether	15	U	400	15	ug/Kg
86-73-7	Fluorene		11	U	400	11	ug/Kg
100-01-6	4-Nitroanilin		31	U	1000	31	ug/Kg
534-52-1		-methylphenol	54	U	1000	54	ug/Kg
86-30-6	N-Nitrosodip	•	30	U	400	30	ug/Kg
101-55-3	-	nyl-phenylether	18	U	400	18	ug/Kg
118-74-1	Hexachlorobe	enzene	12	U	400	12	ug/Kg
1912-24-9	Atrazine		28	U	400	28	ug/Kg
87-86-5	Pentachlorop	henol	45	U	1000	45	ug/Kg
85-01-8	Phenanthrene	;	12	U	400	12	ug/Kg
120-12-7	Anthracene		13	U	400	13	ug/Kg
86-74-8	Carbazole		30	U	400	30	ug/Kg
84-74-2	Di-n-butylpht	thalate	19	U	400	19	ug/Kg
206-44-0	Fluoranthene		9.6	U	400	9.6	ug/Kg
129-00-0	Pyrene		8.7	U	400	8.7	ug/Kg
85-68-7	Butylbenzylp	hthalate	25	U	400	25	ug/Kg
91-94-1	3,3-Dichlorob	enzidine	30	U	400	30	ug/Kg
56-55-3	Benzo(a)anth	racene	9.6	U	400	9.6	ug/Kg
218-01-9	Chrysene		7.4	U	400	7.4	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate		15	U	400	15	ug/Kg
117-84-0	Di-n-octyl ph		14	U	400	14	ug/Kg
205-99-2	Benzo(b)fluoranthene		29	U	400	29	ug/Kg
207-08-9	Benzo(k)fluor		18	U	400	18	ug/Kg
50-32-8	Benzo(a)pyre		12	U	400	12	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

Client:	TVGA Consultants	Date Collected:	4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008
Client Sample	FEB-TP6 (1)	SDG No.:	Z2438
ID: Lab Sample ID:	Z2438-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	17
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analy	zed An	alytical I	Batch ID	
BF019780.D	1	4/18/2008	4/23/2008	BF	041808		J
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	10	U	400	10	ug/Kg
53-70-3	Dibenz(a,h)	anthracene	29	U	400	29	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29	U	400	29	ug/Kg
SURROGATES							
367-12-4	2-Fluorophe	enol	126.9	85 %	23 - 104		SPK: 15
13127-88-3	Phenol-d5		129.13	86 %	29 - 104		SPK: 15
4165-60-0	Nitrobenzer	ne-d5	87.26	87 %	28 - 110		SPK: 10
321-60-8	2-Fluorobip	henyl	83.58	84 %	32 - 109		SPK: 10
118-79-6	2,4,6-Tribro	mophenol	114.29	76 %	24 - 112		SPK: 15
1718-51-0	Terphenyl-c	114	85.07	85 %	30 - 150		SPK: 10
INTERNAL STAN	DARDS						
3855-82-1	1,4-Dichlore	obenzene-d4	83130	6.46			
1146-65-2	Naphthalene	e-d8	326399	8.39			
15067-26-2	Acenaphthe	ne-d10	165100	11.22			
1517-22-2	Phenanthrer	ie-d10	234113	13.64			
1719-03-5	Chrysene-d	12	195423	17.68			
1520-96-3	Perylene-d1	2	203766	20.29			
TENTITIVE IDEN	TIFIED COM	POUNDS				0	
	ACP4,27		820	A	4:27	15	ug/Kg
57-10-3	n-Hexadeca	noic acid	470	$\sqrt{1}$	14.57		ug/Kg
111-03-5	9-Octadecer	noic acid (Z)-, 2,3-dihy	140	J	15.73		ug/Kg
13151-86-5	Dodecane, 6	-cyclohexyl-	160	√ _J	17.50		ug/Kg

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/16/2008 Project: Date Received: 4/17/2008 RI AA Former Electruk Battery site Client Sample FEB-TP2 (5) SDG No.: Z2438 ID: Lab Sample ID: Z2438-05 Matrix: SOIL Analytical Method: 8270 % Moisture: 16 Sample Wt/Wol: 30.1 Extract Vol: 1000 uLg

File ID	Dilution	Date Extracted	Date Analyzed	•		atch ID	
BF019775.D	1	4/18/2008	4/23/2008		BF041808		
CAS Number	Parameter		Conc.	Qualif	ier (RL)	MDL	Units
TARGETS							
100-52-7	Benzaldehyde	2	13	U	390	13	ug/Kg
108-95-2	Phenol		11	U	390	11	ug/Kg
111-44-4	bis(2-Chloroe	thyl)ether	5.1	U	390	5.1	ug/Kg
95-57-8	2-Chlorophen	ol	11	U	390	11	ug/Kg
95-48-7	2-Methylpher	iol	10	U	390	10	ug/Kg
108-60-1	2,2-oxybis(1-	Chloropropane)	16	U	390	16	ug/Kg
98-86-2	Acetophenone	•	12	U	390	12	ug/Kg
106-44-5	3+4-Methylpl	nenols	12	U	390	12	ug/Kg
621-64-7	N-Nitroso-di-	n-propylamine	14	U	390	14	ug/Kg
67-72-1	Hexachloroet	nane	13	U	390	13	ug/Kg
98-95-3	Nitrobenzene		9.2	U	390	9.2	ug/Kg
78-59-1	Isophorone		13	U	390	13	ug/Kg
88-75-5	2-Nitrophenol		14	U	390	14	ug/Kg
105-67-9	2,4-Dimethyl	henol	12	U	390	12	ug/Kg
111-91-1	bis(2-Chloroe	thoxy)methane	9.0	U	390	9.0	ug/Kg
120-83-2	2,4-Dichlorop	henol	9.3	U	390	9.3	ug/Kg
91-20-3	Naphthalene		9.5	U	390	9.5	ug/Kg
106-47-8	4-Chloroanilin	ne	26	U	390	26	ug/Kg
87-68-3	Hexachlorobu	tadiene	16	U	390	16	ug/Kg
105-60-2	Caprolactam		47	U	390	47	ug/Kg
59-50-7	4-Chloro-3-m	ethylphenol	12	U	390	12	ug/Kg
91-57-6	2-Methylnaph	thalene	11	U	390	11	ug/Kg
77-47-4	Hexachlorocy	clopentadiene	20	U	390	20	ug/Kg
88-06-2	2,4,6-Trichlor	ophenol	9.1	U	390	9.1	ug/Kg
95-95-4	2,4,5-Trichlor	ophenol	12	U	990	12	ug/Kg
92-52-4	1,1-Biphenyl		12	U	390	12	ug/Kg
91-58-7	2-Chloronapht	halene	9.5	U	390	9.5	ug/Kg
88-74-4	2-Nitroaniline		18	U	990	18	ug/Kg
131-11-3	Dimethylphtha	ılate	11	U	390	11	ug/Kg
208-96-8	Acenaphthylei		5.7	U	390	5.7	ug/Kg
606-20-2	2,6-Dinitrotolı		14	U	390	14	ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:	TVGA Consultants	Date Collected:	4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008
Client Sample	FEB-TP2 (5)	SDG No.:	Z2438
Lab Sample ID:	Z2438-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	16
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyze	ed Aı	alytical F	Batch ID	
BF019775.D	1	4/18/2008	4/23/2008	BE	7041808		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
99-09-2	3-Nitroaniline		26	U	990	26	ug/Kg
83-32-9	Acenaphthene		8.5	U	390	8.5	ug/Kg
51-28-5	2,4-Dinitrophe		21	U	990	21	ug/Kg
100-02-7	4-Nitrophenol		23	U	990	23	ug/Kg
132-64-9	Dibenzofuran		12	U	390	12	ug/Kg
121-14-2	2,4-Dinitrotoli	iene	13	U	390	13	ug/Kg
84-66-2	Diethylphthala	nte	13	U	390	13	ug/Kg
7005-72-3	4-Chlorophen	yl-phenylether	15	U	390	15	ug/Kg
86-73-7	Fluorene		11	U	390	11	ug/Kg
100-01-6	4-Nitroaniline		31	U	990	31	ug/Kg
534-52-1	4,6-Dinitro-2-	methylphenol	53	U	990	53	ug/Kg
86-30-6	N-Nitrosodiph	enylamine	30	U	390	30	ug/Kg
101-55-3	4-Bromopheny	l-phenylether	18	U	390	18	ug/Kg
118-74-1	Hexachlorobei	nzene	12	U	390	12	ug/Kg
1912-24-9	Atrazine		28	U	390	28	ug/Kg
87-86-5	Pentachloroph	enol	45	U	990	45	ug/Kg
85-01-8	Phenanthrene		12	U	390	12	ug/Kg
120-12-7	Anthracene		13	U	390	13	ug/Kg
86-74-8	Carbazole		30	U	390	30	ug/Kg
84-74-2	Di-n-butylphth	alate	18	U	390	18	ug/Kg
206-44-0	Fluoranthene		9.5	U	390	9.5	ug/Kg
129-00-0	Pyrene		8.6	U	390	8.6	ug/Kg
85-68-7	Butylbenzylph	thalate	25	U	390	25	ug/Kg
91-94-1	3,3-Dichlorobe		30	U	390	30	ug/Kg
56-55-3	Benzo(a)anthra		9.5	U	390	9.5	ug/Kg
218-01-9	Chrysene		7.3	U	390	7.3	ug/Kg
117-81-7	bis(2-Ethylhex	vl)nhthalate	15	U	390	15	ug/Kg
117-84-0	Di-n-octyl phth		14	U	390	14	ug/Kg
205-99-2	Benzo(b)fluora		28	U	390	28	ug/Kg ug/Kg
207-08-9	Benzo(k)fluora		18	U	390	18	ug/Kg ug/Kg
50-32-8	Benzo(a)pyren		12	U	390	12	ug/Kg ug/Kg

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received:	4/17/2008
Client Sample	FEB-TP2 (5)	SDG No.:	Z2438
ID: Lab Sample ID:	Z2438-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	16
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	An	alytical Ba	tch ID	80
BF019775.D	1	4/18/2008	4/23/2008	BF	041808		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	9.9	U	390	9.9	ug/Kg
53-70-3	Dibenz(a,h)	anthracene	29	U	390	29	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28	U	390	28	ug/Kg
SURROGATES							
367-12-4	2-Fluorophe	enol	129.43	86 %	23 - 104		SPK: 15
13127-88-3	Phenol-d5		131.69	88 %	29 - 104		SPK: 15
4165-60-0	Nitrobenzer	ne-d5	87.09	87 %	28 - 110		SPK: 10
321-60-8	2-Fluorobip	henyl	92.28	92 %	32 - 109		SPK: 10
118-79-6	2,4,6-Tribro	omophenol	76.2	51 %	24 - 112		SPK: 15
1718-51-0	Terphenyl-o	114	101.43	101 %	30 - 150		SPK: 10
INTERNAL STAND	DARDS						
3855-82-1	1,4-Dichlor	obenzene-d4	81372	6.46			
1146-65-2	Naphthalen	e-d8	328821	8.39			
15067-26-2	Acenaphthe	ne-d10	167632	11.22			
1517-22-2	Phenanthren	ne-d10	259923	13.65			
1719-03-5	Chrysene-d	12	206064	17.68			
1520-96-3	Perylene-d1	2	183273	20.29			
TENTITIVE IDENT	TIFIED COM	IPOUNDS			,	Λ.	
	-ACP4.28		79 0	A	4.28	<	ug/Kg
301-02-0	9-Octadecer	namide, (Z)-	160	/s	16.94		ug/Kg

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants** Date Collected: 4/16/2008 Project: RI AA Former Electruk Battery site Date Received: 4/17/2008 Client Sample ID: FEB-SED-2 SDG No.: Z2438 Lab Sample ID: Z2438-01 Matrix: SOIL % Moisture: Analytical Method: 8081 74 Sample Wt/Vol: 30 g **Extract Vol:** 5000 uL

File ID:		Date Prep	Date Anal		Analytical Batc	h ID
P7021515.D	1	4/18/2008	4/21/2008		P7041608	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.27	UWI	3.3	0.27	ug/Kg
319-85-7	beta-BHC	0.35	U	3.3	0.35	ug/Kg
319-86-8	delta-BHC	0.35	U	3.3	0.35	ug/Kg
58-89-9	gamma-BHC (Lindane	0.31	U	3.3	0.31	ug/Kg
76-44-8	Heptachlor	0.29	U	3.3	0.29	ug/Kg
309-00-2	Aldrin	0.31	U	3.3	0.31	ug/Kg
1024-57-3	Heptachlor epoxide	0.36	U	3.3	0.36	ug/Kg
959-98-8	Endosulfan I	0.36	U	3.3	0.36	ug/Kg
60-57-1	Dieldrin	0.36	U	3.3	0.36	ug/Kg
72-55-9	4,4'-DDE	0.36	U	3.3	0.36	ug/Kg
72-20-8	Endrin	1.1	U	3.3	1.1	ug/Kg
33213-65-9	Endosulfan II	0.38	U	3.3	0.38	ug/Kg
72-54-8	4,4'-DDD	0.52	U	3.3	0.52	ug/Kg
1031-07-8	Endosulfan sulfate	0.44	U	3.3	0.44	ug/Kg
50-29-3	4,4'-DDT	0.31	U	3.3	0.31	ug/Kg
72-43-5	Methoxychlor	0.40	U	3.3	0.40	ug/Kg
53494-70-5	Endrin ketone	0.90	U	3.3	0.90	ug/Kg
7421-93-4	Endrin aldehyde	0.38	U	3.3	0.38	ug/Kg
5103-71-9	alpha-Chlordane	0.36	U	3.3	0.36	ug/Kg
5103-74-2	gamma-Chlordane	0.35	U	3.3	0.35	ug/Kg
8001-35-2	Toxaphene	6.9	U V	33	6.9	ug/Kg
SURROGATES						- 0
2051-24-3	Decachlorobiphenyl	11.33	57 %	30 - 16	1	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.14	106 %	<u>-30 - 15</u>	8	SPK: 20

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E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA** Consultants **Date Collected:** 4/16/2008 Project: RI AA Former Electruk Battery site Date Received: 4/17/2008 **FEB-TP3 (3) Client Sample ID:** SDG No.: Z2438 Lab Sample ID: Z2438-02 Matrix: SOIL 8081 % Moisture: 29 Analytical Method: Sample Wt/Vol: 30 Extract Vol: 5000 uLg

File ID:		Date Prep	Date Analyze		Analytical Batch	ID
P7021510.D	1	4/18/2008	4/21/2008		P7041608	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.098	U	1.2	0.098	ug/Kg
319-85-7	beta-BHC	0.13	U	1.2	0.13	ug/Kg
319-86-8	delta-BHC	0.13	U	1.2	0.13	ug/Kg
58-89-9	gamma-BHC (Lindane	9) 0.11	U	1.2	0.11	ug/Kg
76-44-8	Heptachlor	0.11	U	1.2	0.11	ug/Kg
309-00-2	Aldrin	0.11	U	1.2	0.11	ug/Kg
1024-57-3	Heptachlor epoxide	0.13	U	1.2	0.13	ug/Kg
959-98-8	Endosulfan I	0.13	U	1.2	0.13	ug/Kg
60-57-1	Dieldrin	0.13	U	1.2	0.13	ug/Kg
72-55-9	4,4'-DDE	0.13	U	1.2	0.13	ug/Kg
72-20-8	Endrin	0.40	U	1.2	0.40	ug/Kg
33213-65-9	Endosulfan II	0.14	U	1.2	0.14	ug/Kg
72-54-8	4,4'-DDD	0.19	U	1.2	0.19	ug/Kg
1031-07-8	Endosulfan sulfate	0.16	U	1.2	0.16	ug/Kg
50-29-3	4,4'-DDT	0.11	U	1.2	0.11	ug/Kg
72-43-5	Methoxychlor	0.15	U	1.2	0.15	ug/Kg
53494-70-5	Endrin ketone	0.33	บ นุร	1.2	0.33	ug/Kg
7421-93-4	Endrin aldehyde	0.14	U	1.2	0.14	ug/Kg
5103-71-9	alpha-Chlordane	0.13	U	1.2	0.13	ug/Kg
5103-74-2	gamma-Chlordane	0.13	U	1.2	0.13	ug/Kg
3001-35-2	Toxaphene	2.5	U	12	2.5	ug/Kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.27	71 %	30 - 16	51	SPK: 2
377-09-8	Tetrachloro-m-xylene	24.77	124 %	30 - 15	58	SPK: 20

U = Not Detected

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Lab Sample ID:

Project:

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client: TVGA Consultants

Consultants Date Collected:

RI AA Former Electruk Battery site Date Received: 4/17/2008

4/16/2008

Z2438

23

Client Sample ID: FEB-TP8 (3)

Z2438-03 Matrix: SOIL

SDG No.:

Analytical Method: 8081 % Moisture:

Sample Wt/Vol: 30 g Extract Vol: 5000 uL

File ID:	Dilution:	Date Prep	Date Analy	zed	Analytical Batch	i ID
P7021511.D	1	4/18/2008	4/21/2008		P7041608	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.091	U	1.1	0.091	ug/Kg
319-85-7	beta-BHC	0.12	U	1.1	0.12	ug/Kg
319-86-8	delta-BHC	0.12	U	1.1	0.12	ug/Kg
58-89-9	gamma-BHC (Lindane	0.10	U	1.1	0.10	ug/Kg
76-44-8	Heptachlor	0.097	U	1.1	0.097	ug/Kg
309-00-2	Aldrin	0.10	U	1.1	0.10	ug/Kg
1024-57-3	Heptachlor epoxide	0.12	U	1.1	0.12	ug/Kg
959-98-8	Endosulfan I	0.12	U	1.1	0.12	ug/Kg
60-57-1	Dieldrin	0.12	U	1.1	0.12	ug/Kg
72-55-9	4,4'-DDE	0.12	U	1.1	0.12	ug/Kg
72-20-8	Endrin	0.37	U	1.1	0.37	ug/Kg
33213-65-9	Endosulfan II	0.13	U	1.1	0.13	ug/Kg
72-54-8	4,4'-DDD	0.17	U	1.1	0.17	ug/Kg
1031-07-8	Endosulfan sulfate	0.15	U	1.1	0.15	ug/Kg
50-29-3	4,4'-DDT	0.10	U	1.1	0.10	ug/Kg
72 - 43-5	Methoxychlor	0.14	U	1.1	0.14	ug/Kg
53494-70-5	Endrin ketone	0.30	U	1.1	0.30	ug/Kg
7421 - 93-4	Endrin aldehyde	0.13	U	1.1	0.13	ug/Kg
5103-71-9	alpha-Chlordane	0.12	U	1.1	0.12	ug/Kg
5103-74-2	gamma-Chlordane	0.12	U	1.1	0.12	ug/Kg
8001-35-2	Toxaphene	2.3	U	11	2.3	ug/Kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.39	92 %	30 - 16	1	SPK: 20
877-09-8	Tetrachloro-m-xylene	269.22	1346 %	30 - 15	8	SPK: 20

U = Not Detected

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:	TVGA Consultants	Date Collected: 4/16/2008
Project:	RI AA Former Electruk Battery site	Date Received: 4/17/2008
Client Sample ID:	FEB-SED-2	SDG No.: Z2438
Lab Sample ID:	Z2438-01	Matrix: SOIL
Analytical Method:	8082	% Moisture: 74
Sample Wt/Vol:	15 g	Extract Vol: 5000 uL

File ID:	Dilution:	Date Prep	Date Analyz	ed A	Analytical Bate	ch ID
P6014310.D	1	4/24/2008	4/28/2008	~ I	P6041808	
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units
TARGETS						
12674-11-2	AROCLOR 1016	14	u W	65	14	ug/Kg
11104-28-2	AROCLOR 1221	18	U	65	18	ug/Kg
11141-16-5	AROCLOR 1232	18	U	65	18	ug/Kg
53469-21-9	AROCLOR 1242	8.1	U	65	8.1	ug/Kg
12672-29-6	AROCLOR 1248	18	U	65	18	ug/Kg
11097-69-1	AROCLOR 1254	18	υ ,	65	18	ug/Kg
11096-82-5	AROCLOR 1260	14	U 🗸	65	14	ug/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylen	e 18.86	94 %	44 - 14	1	SPK: 20
2051-24-3	Decachlorobiphenyl	10.92	55 %	34 - 14	5	SPK: 20

The Aroclar data are not usable from the PCB 8082 analysis, but are usable from the Pesticide 8081 data.

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA** Consultants Date Collected: 4/16/2008 Project: RI AA Former Electruk Battery site Date Received: 4/17/2008 Client Sample ID: **FEB-TP3 (3)** SDG No.: Z2438 Lab Sample ID: Z2438-02 Matrix: SOIL **Analytical Method:** % Moisture: 8082 29 Sample Wt/Vol: 30 Extract Vol: g 10000 uL

File ID: P6014167.D	Dilution: 1	Date Prep 4/18/2008	Date Analy 4/21/2008	zed	Analytical Bate P6041808	ch ID
CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
12674-11-2	AROCLOR 1016	5.3	U	24	5.3	ug/Kg
11104-28-2	AROCLOR 1221	6.4	U	24	6.4	ug/Kg
11141-16-5	AROCLOR 1232	6.7	Ū	24	6.7	ug/Kg
53469-21-9	AROCLOR 1242	2.9	U	24	2.9	ug/Kg
12672-29-6	AROCLOR 1248	6.5	U	24	6.5	ug/Kg
11097-69-1	AROCLOR 1254	6.6	U	24	6.6	ug/Kg
11096-82-5	AROCLOR 1260	5.2	U	24	5.2	ug/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	12.58	63 %	44 - 1	41	SPK: 20
2051-24-3	Decachlorobiphenyl	10.8	54 %	34 - 1	45	SPK: 20

B = Analyte Found In Associated Method Blank



Report of Analysis

Client: **TVGA** Consultants Date Collected: 4/16/2008 Project: 4/17/2008 RI AA Former Electruk Battery site Date Received: Client Sample ID: **FEB-TP8 (3)** SDG No.: Z2438 SOIL Lab Sample ID: Z2438-03 Matrix: % Moisture: 23 **Analytical Method:** 8082 Sample Wt/Vol: 30 **Extract Vol:** 10000 uLg

File ID:	Dilution:	Date Prep	Date Anal	yzed	Analytical Bate	th ID
P6014168.1	D 1	4/18/2008	4/21/2008		P6041808	
CAS Number	Parameter	Cone	Qualifier	RI	MDL	Units
TARGETS						
12674-11-2	AROCLOR 1016	4.8	U	22	4.8	ug/Kg
11104-28-2	AROCLOR 1221	5.9	U	22	5.9	ug/Kg
11141-16-5	AROCLOR 1232	6.2	U	22	6.2	ug/Kg
53469-21-9	AROCLOR 1242	2.7	U	22	2.7	ug/Kg
12672-29-6	AROCLOR 1248	6.0	U	22	6.0	ug/Kg
11097-69-1	AROCLOR 1254	6.1	U	22	6.1	ug/Kg
11096-82-5	AROCLOR 1260	4.8	U	22	4.8	ug/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.09	70 %	44 - 1	141	SPK: 20
2051-24-3	Decachlorobiphenyl	14.58	73 %	34 - 1	145	SPK: 20

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electr

Date Received:

4/17/2008

Client Sample ID: FEB-SED-2

SDG No.:

Z2438

Lab Sample ID:

Z2438-01

Matrix:

SOIL

% Solids:

25.60

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	18.2	J	mg/Kg	1.5	¥/	4/18/2008	4/21/2008	EDA CW 946 6010
7440-39-3	Barium	491		mg/Kg		1	4/18/2008	4/21/2008	EPA SW-846 6010 EPA SW-846 6010
7440-4 3-9	Cadmium	3.1		mg/Kg		1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-47 - 3	Chromium	77.3		mg/Kg		1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-92-1		700-49700	-OR- │	mg/Kg	1.1	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-97-6	Mercury	2.6	D	mg/Kg	0.055	2	4/21/2008	4/21/2008	EPA SW-846 7471
7782-49-2	Selenium	12.8	V	mg/Kg	2.1	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-22-4	Silver	0.54	u us	mg/Kg	0.54	1	4/18/2008	4/21/2008	EPA SW-846 6010
Comments:									

B = Analyte Found In Associated Method Blank

N = Spiked sample recovery not within control limits



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electr

Date Received:

4/17/2008

SDG No.:

Z2438

Lab Sample ID:

Client Sample ID: FEB-TP3 (3)

Z2438-02

Matrix:

SOIL

%	2011	as
-	-	••••

71.10

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	4.1	U	mg/Kg	0.53	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-39-3	Barium	161		mg/Kg	1.4	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.09	U	mg/Kg	0.09	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-47-3	Chromium	27.4		mg/Kg	0.15	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-92-1	Lead	11.0		mg/Kg	0.41	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-97-6	Mercury	0.019		mg/Kg	0.010	1	4/21/2008	4/21/2008	EPA SW-846 7471
7782-49-2	Selenium	3.1		mg/Kg	0.77	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-22-4	Silver	0.20	U	mg/Kg	0.20	Ï	4/18/2008	4/21/2008	EPA SW-846 6010
Comments:									

U = Not Detected

B = Analyte Found In Associated Method Blank

N = Spiked sample recovery not within control limits



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electr

Date Received:

4/17/2008

Client Sample ID: FEB-TP8 (3)

SDG No.:

Z2438

Matrix:

SOIL

Lab Sample ID:

Z2438-03

% Solids:

77.40

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	4.2	ч	mg/Kg	0.49	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-39-3	Barium	137		mg/Kg	1.3	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.09	U	mg/Kg	0.09	1.	4/18/2008	4/21/2008	EPA SW-846 6010
7440-47-3	Chromium	14.8		mg/Kg	0.14	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-92-1	Lead	7.8		mg/Kg	0.38	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-97-6	Мегсигу	0.015		mg/Kg	0.009	1	4/21/2008	4/21/2008	EPA SW-846 7471
7782-49-2	Selenium	1.5		mg/Kg	0.71	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-22-4	Silver	0.18	U	mg/Kg	0.18	1	4/18/2008	4/21/2008	EPA SW-846 6010

Comments:

B = Analyte Found In Associated Method Blank



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electr

Date Received:

4/17/2008

Client Sample ID: FEB-TP6 (1)

SDG No.:

Z2438

Matrix:

SOIL

Lab Sample ID:

Z2438-04

% Solids:

83.10

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	3.1	U	mg/Kg	0.45	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-39-3	Barium	100		mg/Kg	1.2	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.08	U	mg/Kg	0.08	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-47-3	Chromium	18.7		mg/Kg	0.13	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-92-1	Lead	12.9		mg/Kg	0.35	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-97-6	Mercury	0.039		mg/Kg	0.008	1	4/21/2008	4/21/2008	EPA SW-846 7471
7782-49-2	Selenium	1.9		mg/Kg	0.65	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-22-4	Silver	0.17	U	mg/Kg	0.17	1	4/18/2008	4/21/2008	EPA SW-846 6010
Comments									

Comments:

B = Analyte Found In Associated Method Blank

N = Spiked sample recovery not within control limits

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electr

Date Received:

4/17/2008

Client Sample ID: FEB-TP2 (5)

SDG No.:

Z2438

Lab Sample ID:

Z2438-05

Matrix:

SOIL

% Solids:

83.90

Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
Arsenic	3.6	U	mg/Kg	0.45	1	4/18/2008	4/21/2008	EPA SW-846 6010
Barium	78.9		mg/Kg	1.2	1	4/18/2008	4/21/2008	EPA SW-846 6010
Cadmium	0.08	U	mg/Kg	0.08	1	4/18/2008	4/21/2008	EPA SW-846 6010
Chromium	9.3	W	mg/Kg	0.13	1	4/18/2008	4/21/2008	EPA SW-846 6010
Lead	9.4		mg/Kg	0.35	1	4/18/2008	4/21/2008	EPA SW-846 6010
Mercury	0.014		mg/Kg	0.008	1	4/21/2008	4/21/2008	EPA SW-846 7471
Selenium	0.65	U	mg/Kg	0.65	1	4/18/2008	4/21/2008	EPA SW-846 6010
Silver	0.17	U	mg/Kg	0.17	1	4/18/2008	4/21/2008	EPA SW-846 6010
	Arsenic Barium Cadmium Chromium Lead Mercury Selenium	Arsenic 3.6 Barium 78.9 Cadmium 0.08 Chromium 9.3 Lead 9.4 Mercury 0.014 Selenium 0.65	Arsenic 3.6 U Barium 78.9 Cadmium 0.08 U Chromium 9.3 U Lead 9.4 Mercury 0.014 Selenium 0.65 U	Arsenic 3.6 U mg/Kg Barium 78.9 mg/Kg Cadmium 0.08 U mg/Kg Chromium 9.3 U mg/Kg Lead 9.4 mg/Kg Mercury 0.014 mg/Kg Selenium 0.65 U mg/Kg	Arsenic 3.6 U mg/Kg 0.45 Barium 78.9 mg/Kg 1.2 Cadmium 0.08 U mg/Kg 0.08 Chromium 9.3 U mg/Kg 0.13 Lead 9.4 mg/Kg 0.35 Mercury 0.014 mg/Kg 0.008 Selenium 0.65 U mg/Kg 0.65	Arsenic 3.6 U mg/Kg 0.45 1 Barium 78.9 mg/Kg 1.2 1 Cadmium 0.08 U mg/Kg 0.08 1 Chromium 9.3 U mg/Kg 0.13 1 Lead 9.4 mg/Kg 0.35 1 Mercury 0.014 mg/Kg 0.008 1 Selenium 0.65 U mg/Kg 0.65 1	Arsenic 3.6 U mg/Kg 0.45 1 4/18/2008 Barium 78.9 mg/Kg 1.2 1 4/18/2008 Cadmium 0.08 U mg/Kg 0.08 1 4/18/2008 Chromium 9.3 U mg/Kg 0.13 1 4/18/2008 Lead 9.4 mg/Kg 0.35 1 4/18/2008 Mercury 0.014 mg/Kg 0.008 1 4/21/2008 Selenium 0.65 U mg/Kg 0.65 1 4/18/2008	Arsenic 3.6 U mg/Kg 0.45 1 4/18/2008 4/21/2008 Barium 78.9 mg/Kg 1.2 1 4/18/2008 4/21/2008 Cadmium 0.08 U mg/Kg 0.08 1 4/18/2008 4/21/2008 Chromium 9.3 U mg/Kg 0.13 1 4/18/2008 4/21/2008 Lead 9.4 mg/Kg 0.35 1 4/18/2008 4/21/2008 Mercury 0.014 mg/Kg 0.008 1 4/21/2008 4/21/2008 Selenium 0.65 U mg/Kg 0.65 1 4/18/2008 4/21/2008

U = Not Detected

B = Analyte Found In Associated Method Blank

N = Spiked sample recovery not within control limits



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/16/2008

Project:

RI AA Former Electr

Date Received:

4/17/2008

Client Sample ID: RINSEATE-BLANK

SDG No.:

Z2438

Lab Sample ID:

Z2438-07

Matrix:

WATER

% Solids:

0.00

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	n Date Prep	Date Anal.	Method
7440-38-2	Arsenic	11.0		ug/L	5.4	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-39-3	Barium	117		ug/L	11.2	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.90	U	ug/L	0.90	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-47-3	Chromium	15.0		ug/L	1.4	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-92-1	Lead	3.1	U	ug/L	3.1	1	4/18/2008	4/21/2008	EPA SW-846 6010
7439-97-6	Mercury	0.06	U	ug/L	0.06	1	4/21/2008	4/21/2008	EPA SW-846 7470
7782-49-2	Selenium	4.5	U	ug/L	4.5	1	4/18/2008	4/21/2008	EPA SW-846 6010
7440-22-4	Silver	1.7	U	ug/L	1.7	1	4/18/2008	4/21/2008	EPA SW-846 6010
Comments:	Silver	1.7	O	ug/L	1./	1	4/18/2008	4/21/2008	EPA SW-846 6

B = Analyte Found In Associated Method Blank



Client: **TVGA Consultants** Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

FEB-SW4-SW-0

SDG No.:

Z2643

Lab Sample ID:

Z2643-01

Matrix:

WATER

Analytical Method:

100

Sample Wt/Wol:

8260

% Moisture:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VF011122.D

1

5/1/2008

VF043008

					•	
CAS Number	Parameter	Conc.	Qualifier	RL) MDL	Units
TARGETS			(
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	UUT	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
08-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
08-88-3	Toluene	0.16	U	5.0	0.16	ug/L
0061-02-6	t-1,3-Dichloropropene	0.31	Ŭ	5.0		ug/L
0061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
9-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

Project: RI AA Former Electruk Battery site Date Collected: Date Received:

4/30/2008

5/1/2008

Client Sample ID:

FEB-SW4-SW-0

SDG No.:

Z2643

Lab Sample ID:

Z2643-01

Matrix:

WATER

Analytical Method:

Sample Wt/Wol:

8260 5.0

% Moisture:

100

Soil Aliquot Vol:

иL

Units: mL

Soil Extract Vol:

uL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VF011122.D 1 5/1/2008 VF043008 CAS Number Qualifier RI MDI Units

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	UUT	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES	8					
17060-07-0	1,2-Dichloroethane-d4	51.78	104 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	50.36	101 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	50.73	101 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	50.46	101 %	74 - 123		SPK: 50
INTERNAL ST	ANDARDS					
363-72-4	Pentafluorobenzene	1958912	9.68			
540-36-3	1,4-Difluorobenzene	3847373	10.31			
3114-55-4	Chlorobenzene-d5	3594886	13.38			
3855-82-1	1,4-Dichlorobenzene-d4	1380756	15.81			
	,					

N = Presumptive Evidence of a Compound



Client: **TVGA Consultants** Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

FEB-MW1-GW-0

SDG No.:

Z2643

Lab Sample ID:

Matrix:

WATER

Analytical Method:

Z2643-02

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

uL

Soil Aliquot Vol:

uL

Soil Extract Vol:

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VF011123.D

1

5/1/2008

VF043008

CAS Number	Parameter	Conc.	Qualifie	r RL	MDI	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	7.1	J	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	UUL	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

FEB-MW1-GW-0

SDG No.:

Z2643

Lab Sample ID:

Matrix:

WATER

Z2643-02

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

иL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VF011123.D

1

5/1/2008

VF043008

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U U)	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53	106 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	51.66	103 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	51.09	102 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	50.17	100 %	74 - 123		SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	1949099	9.69			
540-36-3	1,4-Difluorobenzene	3812123	10.31			
3114-55-4	Chlorobenzene-d5	3549017	13.38			
3855-82-1	1,4-Dichlorobenzene-d4	1363081	15.81			

U = Not Detected

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

FEB-MW2-GW-0

SDG No.:

Z2643

Lab Sample ID:

Z2643-03

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID: Dilution: **Date Analyzed Analytical Batch ID** VF011124.D 1 5/1/2008 VF043008

CAS Number	Parameter	Conc.	Qualifie	r (RL)	MDI	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	22	J	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	1.8	J	5.0	0.57	ug/L
78-93-3	2-Butanone	4.2	J	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	4.8	J	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	U ():		0.47	ug/L
71-43-2	Benzene	4.2	J J	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	6.0		5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	Ū	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

FEB-MW2-GW-0

SDG No.:

Z2643

Lab Sample ID:

Z2643-03

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L

ug/L

ug/L

Soil Aliquot Vol:

uL

File ID:

Dilution:

1,2-Dibromo-3-Chloropropane

1,2,4-Trichlorobenzene

Date Analyzed

Analytical Batch ID

5.0

5.0

0.58

0.39

U

U

VF011124.1	D 1	5/1/2008		VF0430	08
CAS Number	Parameter	Conc.	Qualifier	RL	MDL Units
591-78-6	2-Hexanone	1.8	U	25	1.8 ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23 ug/L
106-93-4	1,2-Dibromoethane	0.26	U	_5.0	0.26 ug/L
127-18-4	Tetrachloroethene	0.97	ひひく	5.0	0.97 ug/L
108-90-7	Chlorobenzene	0.28	UV()	5.0	0.28 ug/L

127-18-4	Tetrachloroethene	0.97	U().	5.0	0.97
108-90-7	Chlorobenzene	0.28	U	5.0	0.28
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05
126777-61-2	m/p-Xylenes	3.2	J	10	0.47
95-47-6	o-Xylene	1.4	J	5.0	0.16
100-42-5	Styrene	0.19	U	5.0	0.19
75-25-2	Bromoform	0.44	U	5.0	0.44
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40

SI	R	R	O	G,	47	F.	S

96-12-8

120-82-1

17060-07-0	1,2-Dichloroethane-d4	53.19	106 %	75 - 124	SPK: 50
1868-53-7	Dibromofluoromethane	51.25	103 %	84 - 122	SPK: 50
2037-26-5	Toluene-d8	50.56	101 %	83 - 117	SPK: 50
460-00-4	4-Bromofluorobenzene	52.18	104 %	74 - 123	SPK: 50

0.58

0.39

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	1903513	9.69
540-36-3	1,4-Difluorobenzene	3768728	10.31
3114-55-4	Chlorobenzene-d5	3524654	13.39
3855-82-1	1,4-Dichlorobenzene-d4	1430040	15.81

U = Not Detected

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

RI AA Former Electruk Battery site

Date Collected: 4/30/2008

Project:

Date Received:

5/1/2008

Client Sample ID:

FEB-MW3-GW-0

SDG No.:

Z2643

Lab Sample ID:

Z2643-04

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol;

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

иL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VF011232.D

1

5/6/2008

VF043008

CAS Number	Parameter	Conc.	Qualifier	RL)	MDL	Units
TARGETS					-	
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	6.1		5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	uus	5.0	0.47	ug/L
71-43-2	Benzene	0.93	J	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.75	J	5.0	0.23	ug/L
08-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
08-88-3	Toluene	2.0	J	5.0	0.16	ug/L
0061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
0061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	Ü	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

FEB-MW3-GW-0

SDG No.:

Z2643

Lab Sample ID:

Z2643-04

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

Date Analyzed

Analytical Batch ID

VF011232.D

File ID:

1

Dilution:

5/6/2008

VF043008

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	1.8	J	10	0.47	ug/L
95-47-6	o-Xylene	0.77	J 💮	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.88	100 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	50.7	101 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	50.46	101 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	50.56	101 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	1948500	9.70			
540-36-3	1,4-Difluorobenzene	3805422	10.32			
3114-55-4	Chlorobenzene-d5	3586270	13.39			
3855-82-1	1,4-Dichlorobenzene-d4	1405408	15.82			

U = Not Detected

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

RI AA Former Electruk Battery site

Date Collected: Date Received:

4/30/2008

Client Sample ID:

Project:

FEB-MW-BD

5/1/2008

Lab Sample ID:

SDG No.:

Z2643

Z2643-05

Matrix:

WATER

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Dilution:

Soil Extract Vol:

uL

Soil Aliquot Vol:

File ID:

uL

Date Analyzed

Analytical Batch ID

VF011230.	D 1	5/6/2008		VE043008		
CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	UI	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



TVGA Consultants Client:

RI AA Former Electruk Battery site

Date Collected: Date Received:

4/30/2008

Project:

5/1/2008

Client Sample ID:

FEB-MW-BD

SDG No.:

Z2643

Lab Sample ID:

Z2643-05

Matrix:

WATER

Analytical Method:

100

8260

% Moisture:

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

Dilution: File ID:

5/6/2008

Date Analyzed

Analytical Batch ID VF043008

VF011230.D 1

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.92	102 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	51.48	103 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	50.53	101 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	49.09	98 %	74 - 123		SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	1936290	9.70			
540-36-3	1,4-Difluorobenzene	3776228	10.32			
3114-55-4	Chlorobenzene-d5	3529064	13.40			
3855-82-1	1,4-Dichlorobenzene-d4	1321655	15.82			

U = Not Detected

RL = Reporting Limit

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

Date Received:

5/1/2008

Client Sample ID:

TRIPBLANK

SDG No.:

Z2643

Lab Sample ID:

Z2643-06

Matrix:

WATER

Analytical Method:

00.00

0/ 3/

1111111

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

		12		ramij tion.	Dutter 11	
VF011231.	D 1	5/6/2008		VF04300	8	
CAS Number	Parameter	Conc.	Qualifier	(RL)	MDI	L Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74.00.0	D					_

/3-/1-8	Dichiorodiffuoromethane	0.88	U	5.0	0.88	ug/L
74-87-3	Chloromethane	0.37	U	5.0	0.37	ug/L
75-01-4	Vinyl chloride	0.30	U	5.0	0.30	ug/L
74-83-9	Bromomethane	1.4	U	5.0	1.4	ug/L
75-00-3	Chloroethane	0.80	U	5.0	0.80	ug/L
75-69-4	Trichlorofluoromethane	0.53	U	5.0	0.53	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.61	U	5.0	0.61	ug/L
75-35-4	1,1-Dichloroethene	0.67	U	5.0	0.67	ug/L
67-64-1	Acetone	2.2	U	25	2.2	ug/L
75-15-0	Carbon disulfide	0.20	U	5.0	0.20	ug/L
1634-04-4	Methyl tert-butyl Ether	0.23	U	5.0	0.23	ug/L
79-20-9	Methyl Acetate	0.45	U	5.0	0.45	ug/L
75-09-2	Methylene Chloride	0.38	U	5.0	0.38	ug/L
156-60-5	trans-1,2-Dichloroethene	0.44	U	5.0	0.44	ug/L
75-34-3	1,1-Dichloroethane	0.67	U	5.0	0.67	ug/L
110-82-7	Cyclohexane	0.57	U	5.0	0.57	ug/L
78-93-3	2-Butanone	1.9	U	25	1.9	ug/L
56-23-5	Carbon Tetrachloride	0.27	U	5.0	0.27	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	U	5.0	0.72	ug/L
67-66-3	Chloroform	0.45	U	5.0	0.45	ug/L
71-55-6	1,1,1-Trichloroethane	0.39	U /	5.0	0.39	ug/L
108-87-2	Methylcyclohexane	0.47	u as	5.0	0.47	ug/L
71-43-2	Benzene	0.35	U	5.0	0.35	ug/L
107-06-2	1,2-Dichloroethane	0.41	U	5.0	0.41	ug/L
79-01-6	Trichloroethene	0.34	U	5.0	0.34	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	5.0	0.46	ug/L
75-27-4	Bromodichloromethane	0.23	U	5.0	0.23	ug/L
108-10-1	4-Methyl-2-Pentanone	1.8	U	25	1.8	ug/L
108-88-3	Toluene	0.16	U	5.0	0.16	ug/L
10061-02-6	t-1,3-Dichloropropene	0.31	U	5.0	0.31	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.29	U	5.0	0.29	ug/L
79-00-5	1,1,2-Trichloroethane	0.32	U	5.0	0.32	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

> RI AA Former Electruk Battery site Date Received:

4/30/2008 5/1/2008

Client Sample ID:

Project:

TRIPBLANK

Date Collected:

Z2643

Z2643-06

SDG No.:

WATER

Lab Sample ID:

Matrix:

Analytical Method:

8260

% Moisture:

100

Sample Wt/Wol:

5.0 Units: mL

Soil Extract Vol:

uL

Soil Aliquot Vol:

uL

File ID:

Dilution:

Date Analyzed

Analytical Batch ID

VF011231.D

1

5/6/2008

VF043008

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	1.8	U	25	1.8	ug/L
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/L
106-93-4	1,2-Dibromoethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.97	U	5.0	0.97	ug/L
108-90-7	Chlorobenzene	0.28	U	5.0	0.28	ug/L
100-41-4	Ethyl Benzene	0.05	U	5.0	0.05	ug/L
126777-61-2	m/p-Xylenes	0.47	U	10	0.47	ug/L
95-47-6	o-Xylene	0.16	U	5.0	0.16	ug/L
100-42-5	Styrene	0.19	U	5.0	0.19	ug/L
75-25-2	Bromoform	0.44	U	5.0	0.44	ug/L
98-82-8	Isopropylbenzene	0.37	U	5.0	0.37	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	5.0	0.37	ug/L
541-73-1	1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/L
106-46-7	1,4-Dichlorobenzene	0.22	U	5.0	0.22	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	U	5.0	0.40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	5.0	0.58	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.39	U	5.0	0.39	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.76	100 %	75 - 124		SPK: 50
1868-53-7	Dibromofluoromethane	50.52	101 %	84 - 122		SPK: 50
2037-26-5	Toluene-d8	50.51	101 %	83 - 117		SPK: 50
460-00-4	4-Bromofluorobenzene	48.88	98 %	74 - 123		SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	1946830	9.70			
540-36-3	1,4-Difluorobenzene	3777414	10.32			
3114-55-4	Chlorobenzene-d5	3544475	13.39			
3855-82-1	1,4-Dichlorobenzene-d4	1318270	15.82			

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Client:

TVGA Consultants

RI AA Former Electruk Battery site

mL

Date Collected: Date Received:

4/30/2008

Project:

FEB-SW4-SW-0

SDG No.:

5/1/2008

Client Sample ID: Lab Sample ID:

Matrix:

Z2643 WATER

Analytical Method: 8270

Z2643-01

% Moisture:

100

Sample Wt/Wol:

990.0

Extract Vol:

1000

 $\mathbf{u}\mathbf{L}$

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE048631.D	1	5/2/2008	5/7/2008	BE042308

DE040031.D	1 5/2/2008	5///2008	BEC	142308		
CAS Number	Parameter	Conc.	Qualifier	RL)	MDL	Units
TARGETS						
100-52-7	Benzaldehyde	0.270	U (10	0.270	ug/L
108-95-2	Phenol	0.560	U	10	0.560	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.280	U (L)	10	0.280	ug/L
95-57-8	2-Chlorophenol	0.330	U	10	0.330	ug/L
95-48-7	2-Methylphenol	0.360	U	10	0.360	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	0.270	U	10	0.270	ug/L
98-86-2	Acetophenone	0.370	U	10	0.370	ug/L
106-44-5	3+4-Methylphenols	0.390	U	10	0.390	ug/L
621-64-7	N-Nitroso-di-n-propylamine	0.340	U	10	0.340	ug/L
67-72-1	Hexachloroethane	0.230	U	10	0.230	ug/L
98-95-3	Nitrobenzene	0.330	U	10	0.330	ug/L
78-59-1	Isophorone	0.260	U	10	0.260	ug/L
88-75-5	2-Nitrophenol	0.280	U	10	0.280	ug/L
105-67-9	2,4-Dimethylphenol	0.770	U	10	0.770	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.330	U 115	10	0.330	ug/L
120-83-2	2,4-Dichlorophenol	0.340		10	0.340	ug/L
91-20-3	Naphthalene	0.280	U	10	0.280	ug/L
106-47-8	4-Chloroaniline	0.930	U	10	0.930	ug/L
87-68-3	Hexachlorobutadiene	0.390	U	10	0.390	ug/L
105-60-2	Caprolactam	1.5	U	10	1.5	ug/L
59-50-7	4-Chloro-3-methylphenol	0.220	U	10	0.220	ug/L
91-57-6	2-Methylnaphthalene	0.370	U	10	0.370	ug/L
77-47-4	Hexachlorocyclopentadiene	0.570	U	10	0.570	ug/L
88-06-2	2,4,6-Trichlorophenol	0.350	U	10	0.350	ug/L
95-95-4	2,4,5-Trichlorophenol	0.380	U	10	0.380	ug/L
92-52-4	1,1-Biphenyl	0.320	U	10	0.320	ug/L
91-58-7	2-Chloronaphthalene	0.230	U	10	0.230	ug/L
88-74-4	2-Nitroaniline	0.250	U	10	0.250	ug/L
131-11-3	Dimethylphthalate	0.270	U	10	0.270	ug/L
208-96-8	Acenaphthylene	0.350	U :	10	0.350	ug/L
606-20-2	2,6-Dinitrotoluene	0.350		10	0.350	ug/L
						Ü

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/30/2008 Date Received: 5/1/2008 Project: RI AA Former Electruk Battery site Client Sample FEB-SW4-SW-0 SDG No.: Z2643 ID: Lab Sample ID: Z2643-01 WATER Matrix: Analytical Method: 8270 % Moisture: 100 990.0 Sample Wt/Wol: mL**Extract Vol:** 1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	An	alytical B	atch ID	
BE048631.D	1	5/2/2008	5/7/2008	BE	042308		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
99-09-2	3-Nitroaniline		0.350	U	10	0.350	ug/L
83-32-9	Acenaphthene		0.320	U	10	0.320	ug/L
51-28-5	2,4-Dinitroph		0.650	UND	10	0.650	ug/L
100-02-7	4-Nitropheno		1.7	U	10	1.7	ug/L
132-64-9	Dibenzofuran		0.310	U	10	0.310	ug/L
121-14-2	2,4-Dinitrotol	uene	0.340	U	10	0.340	ug/L
84-66-2	Diethylphthal	ate	0.320	U	10	0.320	ug/L
7005-72-3	4-Chlorophen	yl-phenylether	0.290	U	10	0.290	ug/L
86-73-7	Fluorene		0.280	U	10	0.280	ug/L
100-01-6	4-Nitroaniline	;	0.360	U	10	0.360	ug/L
534-52-1	4,6-Dinitro-2-	methylphenol	0.290	U	10	0.290	ug/L
86-30-6	N-Nitrosodipl	nenylamine	0.350	U	10	0.350	ug/L
101-55-3	4-Bromophen	yl-phenylether	1.4	U	10	1.4	ug/L
118-74-1	Hexachlorobe	nzene	0.270	U	10	0.270	ug/L
1912-24-9	Atrazine		0.370	U	10	0.370	ug/L
87-86-5	Pentachloroph	nenol	0.530	U	10	0.530	ug/L
85-01-8	Phenanthrene		1.4	U	10	1.4	ug/L
120-12-7	Anthracene		1.4	U	10	1.4	ug/L
86-74-8	Carbazole		0.240	U	10	0.240	ug/L
84-74-2	Di-n-butylpht	halate	5.9	U	10	5.9	ug/L
206-44-0	Fluoranthene		0.200	U	10	0.200	ug/L
129-00-0	Pyrene		1.4	U	10	1.4	ug/L
85-68-7	Butylbenzylpl	nthalate	0.420	U	10	0.420	ug/L
91-94-1	3,3-Dichlorob		1.1	U	10	1.1	ug/L
56-55-3	Benzo(a)anthr		1.3	U	10	1.3	ug/L
218-01-9	Chrysene		0.260	U	10	0.260	ug/L
117-81-7	bis(2-Ethylher	(vl)phthalate	1.3	U	10	1.3	ug/L
117-84-0	Di-n-octyl pht		0.260	U	10	0.260	ug/L
205-99-2	Benzo(b)fluor		0.430	U	10	0.430	ug/L
207-08-9	Benzo(k)fluor		0.300	U	10	0.300	ug/L
50-32-8	Benzo(a)pyrer		0.220	U	10	0.220	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected: 4/30/2008 Project: RI AA Former Electruk Battery site Date Received: 5/1/2008 Client Sample FEB-SW4-SW-0 SDG No.: Z2643 ID: Lab Sample ID: Z2643-01 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 990.0 mL 1000 **Extract Vol:** uL

File ID	Dilution	Date Extracted	Date Analyzed	An	alytical Ba	tch ID	
BE048631.D	1	5/2/2008	5/7/2008	BE	042308		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,3	-cd)pyrene	0.670	U	10	0.670	ug/L
53-70-3	Dibenz(a,h)a	nthracene	0.550	U	10	0.550	ug/L
191-24-2	Benzo(g,h,i)	perylene	0.390	U	10	0.390	ug/L
SURROGATES							
367-12-4	2-Fluoropher	ool	67.9	45 %	30 - 78		SPK: 15
13127-88-3	Phenol-d5		47.61	32 %	30 - 77		SPK: 15
4165-60-0	Nitrobenzene	e-d5	68.79	69 %	30 - 120		SPK: 10
321-60-8	2-Fluorobiph	enyl	72.11	72 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribror	nophenol	133.86	89 %	27 - 118		SPK: 15
1718-51-0	Terphenyl-dl	=	90.11	90 %	26 - 135		SPK: 10
INTERNAL STAND	OARDS						
3855-82-1	1,4-Dichloro	benzene-d4	92403	4.94			
1146-65-2	Naphthalene-	-d8	362896	6.78			
15067-26-2	Acenaphthen		197327	9.52			
1517-22-2	Phenanthrene		307322	11.87			
1719-03-5	Chrysene-d12	2	274501	16.09			
1520-96-3	Perylene-d12		266302	18.20			
TENTITIVE IDENT	-					627	
	ACP2.95	301120	7.3	A	2.95	R	ug/L

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Client: 4/30/2008 **TVGA Consultants** Date Collected: Date Received: 5/1/2008 Project: RI AA Former Electruk Battery site Client Sample FEB-MW1-GW-0 SDG No.: Z2643 ID: Lab Sample ID: Z2643-02 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 890.0 $\mathbf{m}\mathbf{L}$ Extract Vol: 1000 $\mathbf{u}\mathbf{L}$

File ID	Dilution	Date Extracted	Date Analyzed	i An	alytical Ba	tch ID	
BE048632.D	1	5/2/2008	5/7/2008	BE	042308		
CAS Number	Parameter		Conc.	Qualifier	(RL)	MDL	Units
TARGETS							
100-52-7	Benzaldehy	de	0.300	U	11	0.300	ug/L
108-95-2	Phenol		0.620	U	11	0.620	ug/L
111-44-4	bis(2-Chlore	oethyl)ether	0.310	uus	11	0.310	ug/L
95-57-8	2-Chloroph	enol	0.370	U	11	0.370	ug/L
95-48-7	2-Methylph	enol	0.400	U	11	0.400	ug/L
108-60-1	2,2-oxybis(l-Chloropropane)	0.300	U	11	0.300	ug/L
98-86-2	Acetopheno	ne	0.420	U	11	0.420	ug/L
106-44-5	3+4-Methyl	phenols	2.5	J	11	0.440	ug/L
621-64-7	N-Nitroso-d	li-n-propylamine	0.380	U	11	0.380	ug/L
67-72-1	Hexachloro	ethane	0.260	U	11	0.260	ug/L
98-95-3	Nitrobenzer	ie	0.370	U	11	0.370	ug/L
78-59-1	Isophorone		0.290	U	11	0.290	ug/L
88-75-5	2-Nitrophen	ol	0.310	U	11	0.310	ug/L
105-67-9	2,4-Dimethy	/lphenol	0.850	U	11	0.850	ug/L
111-91-1	bis(2-Chlore	oethoxy)methane	0.370	U	11	0.370	ug/L
120-83-2	2,4-Dichlore	ophenol	0.380	U	11	0.380	ug/L
91-20-3	Naphthalene	e	0.310	U	11	0.310	ug/L
106-47-8	4-Chloroani	line	1.0	U	11	1.0	ug/L
87-68-3	Hexachlorol	outadiene	0.440	U	11	0.440	ug/L
105-60-2	Caprolactan	1	1.7	U	11	1.7	ug/L
59-50-7	4-Chloro-3-	methylphenol	0.250	U	11	0.250	ug/L
91-57-6	2-Methylnaj	ohthalene	0.420	U	11	0.420	ug/L
77-47-4	Hexachloro	cyclopentadiene	0.630	U	11	0.630	ug/L
88-06-2	2,4,6-Trichle	orophenol	0.390	U	11	0.390	ug/L
95-95-4	2,4,5-Trichle	orophenol	0.430	U	11	0.430	ug/L
92-52-4	1,1-Bipheny	·I	0.360	U	11	0.360	ug/L
91-58-7	2-Chloronap	hthalene	0.260	U	11	0.260	ug/L
88-74-4	2-Nitroanilii	ne	0.280	U	11	0.280	ug/L
131-11-3	Dimethylph	thalate	0.300	U	11	0.300	ug/L
208-96-8	Acenaphthy		0.390	U	11	0.390	ug/L
606-20-2	2,6-Dinitrot		0.390	U	11	0.390	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:

TVGA Consultants

Project:

RI AA Former Electruk Battery site

Client Sample

FEB-MW1-GW-0

mL

ID: Lab Sample ID:

Sample Wt/Wol:

Analytical Method: 8270

890.0

Z2643-02

WATER

% Moisture:

SDG No.:

Matrix:

Date Collected:

Date Received:

100

Z2643

4/30/2008

5/1/2008

Extract Vol:

1000

uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE048632.D	1	5/2/2008	5/7/2008	BE042308

CAS Number	Parameter	Conc.	Qualif	ier RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	0.390	U	11	0.390	ug/L
83-32-9	Acenaphthene	0.360	U	_ 11	0.360	ug/L
51-28-5	2,4-Dinitrophenol	0.720	υV	J 11	0.720	ug/L
100-02-7	4-Nitrophenol	1.9	U	11	1.9	ug/L
132-64-9	Dibenzofuran	0.350	U	11	0.350	ug/L
121-14-2	2,4-Dinitrotoluene	0.380	U	11	0.380	ug/L
84-66-2	Diethylphthalate	0.360	U	11	0.360	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.330	U	11	0.330	ug/L
86-73-7	Fluorene	0.310	U	11	0.310	ug/L
100-01-6	4-Nitroaniline	0.400	U	11	0.400	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.330	U	11	0.330	ug/L
86-30-6	N-Nitrosodiphenylamine	0.390	U	11	0.390	ug/L
101-55-3	4-Bromophenyl-phenylether	1.6	U	11	1.6	ug/L
118-74-1	Hexachlorobenzene	0.300	U	11	0.300	ug/L
1912-24-9	Atrazine	0.420	U	11	0.420	ug/L
87-86-5	Pentachlorophenol	0.580	U	11	0.580	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
86-74-8	Carbazole	0.270	U	11	0.270	ug/L
84-74-2	Di-n-butylphthalate	6.6	U	11	6.6	ug/L
206-44-0	Fluoranthene	0.220	U	11	0.220	ug/L
129-00-0	Ругепе	1.6	U	11	1.6	ug/L
85-68-7	Butylbenzylphthalate	0.470	U	11	0.470	ug/L
91-94-1	3,3-Dichlorobenzidine	1.2	U	11	1.2	ug/L
56-55-3	Benzo(a)anthracene	1.5	U	11	1.5	ug/L
218-01-9	Chrysene	0.290	U	11	0.290	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	1.5	U	11	1.5	ug/L
117-84-0	Di-n-octyl phthalate	0.290	U	11	0.290	ug/L
205-99-2	Benzo(b)fluoranthene	0.480	U	11	0.480	ug/L
207-08-9	Benzo(k)fluoranthene	0.340	U	11	0.340	ug/L
50-32-8	Benzo(a)pyrene	0.250	U	11	0.250	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:	TVGA Consultants	Date Collected:	4/30/2008
Project:	RI AA Former Electruk Battery site	Date Received:	5/1/2008
Client Sample	FEB-MW1-GW-0	SDG No.:	Z2643
Lab Sample ID:	Z2643-02	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	890.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyze	d An	alytical Ba	itch ID	
BE048632.D	1	5/2/2008	5/7/2008	BE	2042308		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	0.740	U	11	0.740	ug/L
53-70-3	Dibenz(a,h)	anthracene	0.610	U	11	0.610	ug/L
191-24-2	Benzo(g,h,i)perylene	0.440	U	11	0.440	ug/L
SURROGATES							
367-12-4	2-Fluoroph	enol	84.19	56 %	30 - 78		SPK: 15
13127-88-3	Phenol-d5		60.64	40 %	30 - 77		SPK: 15
4165-60-0	Nitrobenzei	ne-d5	94.45	94 %	30 - 120		SPK: 10
321-60-8	2-Fluorobip	henyl	90.7	91 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribro	omophenol	120.09	80 %	27 - 118		SPK: 15
1718-51-0	Terphenyl-o	114	86.14	86 %	26 - 135		SPK: 10
INTERNAL STAND	ARDS						
3855-82-1	1,4-Dichlor	obenzene-d4	96085	4.95			
1146-65-2	Naphthalen	e-d8	371005	6.78			
15067-26-2	Acenaphthe	ne-d10	200637	9.52			
1517-22-2	Phenanthre	ne-d10	315049	11.87			
1719-03-5	Chrysene-d	12	275705	16.09			
1520-96-3	Perylene-d1	2	273919	18.20			
TENTITIVE IDENT	TIFIED COM	IPOUNDS					
	ACP2.95		14	-A	2.95	R	ug/L
	unknown3.8	39	6.1	J	3.89		ug/L
	unknown4.2		9.3	J	4.27		ug/L
149-57-5	Hexanoic ac	eid. 2-ethyl-	3.4	V, J	6.03		ug/L
103-82-2	Benzeneace	•	3.8	$\checkmark_{\rm J}$	7.34		ug/L
				-			U

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:

TVGA Consultants

RI AA Former Electruk Battery site

Date Extracted

Date Collected: Date Received:

4/30/2008

Project:

 $\mathbf{m}\mathbf{L}$

5/1/2008

Client Sample

FEB-MW2-GW-0

SDG No.:

Z2643 WATER

Lab Sample ID:

Z2643-03

Matrix:

100

Analytical Method: 8270

% Moisture: Extract Vol:

1000

uL

File ID

BE048639.D

740.0

Dilution

1

Date Analyzed **Analytical Batch ID**

5/2/2008	5/7/2008	BE042308
JIMIMOOO	0.1.2000	DD0 140000

D201000313	1 3/2/2000	3/1/2000	BEOTZSUA	\	
CAS Number	Parameter	Conc.	Qualifier RL	MDL	Units
TARGETS					
100-52-7	Benzaldehyde	0.360	U 14	0.360	ug/L
108-95-2	Phenol	0.740	U _14	0.740	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.380	Ū UJ 14	0.380	ug/L
95-57-8	2-Chlorophenol	0.450	U 14	0.450	ug/L
95-48-7	2-Methylphenol	0.490	U 14	0.490	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	0.360	U 14	0.360	ug/L
98-86-2	Acetophenone	0.500	U 14	0.500	ug/L
106-44-5	3+4-Methylphenols	0.530	U 14	0.530	ug/L
621-64-7	N-Nitroso-di-n-propylamine	0.460	U 14	0.460	ug/L
67-72-1	Hexachloroethane	0.310	U 14	0.310	ug/L
98-95-3	Nitrobenzene	0.450	U 14	0.450	ug/L
78-59-1	Isophorone	0.350	U 14	0.350	ug/L
88-75-5	2-Nitrophenol	0.380	U 14	0.380	ug/L
105-67-9	2,4-Dimethylphenol	1.0	U 14	1.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.450	U UJ 14	0.450	ug/L
120-83-2	2,4-Dichlorophenol	0.460	U 14	0.460	ug/L
91-20-3	Naphthalene	0.380	U 14	0.380	ug/L
106-47-8	4-Chloroaniline	1.2	U 14	1.2	ug/L
87-68-3	Hexachlorobutadiene	0.530	U 14	0.530	ug/L
105-60-2	Caprolactam	2.0	U 14	2.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.300	U 14	0.300	ug/L
91-57-6	2-Methylnaphthalene	0.500	U 14	0.500	ug/L
77-47-4	Hexachlorocyclopentadiene	0.760	U 14	0.760	ug/L
88-06-2	2,4,6-Trichlorophenol	0.470	U 14	0.470	ug/L
95-95-4	2,4,5-Trichlorophenol	0.510	U 14	0.510	ug/L
92-52-4	1,1-Biphenyl	0.430	U 14	0.430	ug/L
91-58-7	2-Chloronaphthalene	0.310	U 14	0.310	ug/L
88-74-4	2-Nitroaniline	0.340	U 14	0.340	ug/L
131-11-3	Dimethylphthalate	0.360	U 14	0.360	ug/L
208-96-8	Acenaphthylene	0.470	U 14	0.470	ug/L
606-20-2	2,6-Dinitrotoluene	0.470	U 14	0.470	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: 4/30/2008 **TVGA Consultants** Date Collected: 5/1/2008 Date Received: Project: RI AA Former Electruk Battery site Client Sample SDG No.: Z2643 FEB-MW2-GW-0 Lab Sample ID: Z2643-03 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 740.0 **Extract Vol:** 1000 uL mL

File ID	Dilution Date Extract	ed Date Analyzed	Analytical Batch ID			
BE048639.D	1 5/2/2008	5/7/2008	BE	042308		
CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	0.470	U	14	0.470	ug/L
83-32-9	Acenaphthene	0.430	U	14	0.430	ug/L
51-28-5	2,4-Dinitrophenol	0.860	U UJ	14	0.860	ug/L
100-02-7	4-Nitrophenol	2.3	U	14	2.3	ug/L
132-64-9	Dibenzofuran	0.420	U	14	0.420	ug/L
121-14-2	2,4-Dinitrotoluene	0.460	U	14	0.460	ug/L
84-66-2	Diethylphthalate	0.430	U	14	0.430	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.390	U	14	0.390	ug/L
86-73-7	Fluorene	0.380	U	14	0.380	ug/L
100-01-6	4-Nitroaniline	0.490	U	14	0.490	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.390	U	14	0.390	ug/L
86-30-6	N-Nitrosodiphenylamine	0.470	U	14	0.470	ug/L
101-55-3	4-Bromophenyl-phenylether	1.9	U	14	1.9	ug/L
118-74-1	Hexachlorobenzene	0.360	U	14	0.360	ug/L
1912-24-9	Atrazine	0.500	U	14	0.500	ug/L
87-86-5	Pentachlorophenol	0.700	U	14	0.700	ug/L
85-01-8	Phenanthrene	1.8	U	14	1.8	ug/L
120-12-7	Anthracene	1.9	U	14	1.9	ug/L
86-74-8	Carbazole	0.320	U	14	0.320	ug/L
84-74-2	Di-n-butylphthalate	7.9	U	14	7.9	ug/L
206-44-0	Fluoranthene	0.270	U	14	0.270	ug/L
129-00-0	Pyrene	1.9	U	14	1.9	ug/L
85-68-7	Butylbenzylphthalate	0.570	U	14	0.570	ug/L
91-94-1	3,3-Dichlorobenzidine	1.5	U	14	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.8	U	14	1.8	ug/L
218-01-9	Chrysene	0.350	U	14	0.350	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	1.8	U	14	1.8	ug/L
117-84-0	Di-n-octyl phthalate	0.350	U	14	0.350	ug/L
205-99-2	Benzo(b)fluoranthene	0.580	U	14	0.580	ug/L
207-08-9	Benzo(k)fluoranthene	0.410	U	14	0.410	ug/L
50-32-8	Benzo(a)pyrene	0.300	U	14	0.300	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants** Date Collected: 4/30/2008 Project: Date Received: RI AA Former Electruk Battery site 5/1/2008 Client Sample FEB-MW2-GW-0 SDG No.: Z2643 ID: Lab Sample ID: Z2643-03 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 740.0 \boldsymbol{mL} **Extract Vol:** 1000 uL

File ID	File ID Dilution		Date Analyzed	An	alytical Ba	tch ID	
BE048639.D	1	5/2/2008	5/7/2008	BE	042308		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	0.890	U	14	0.890	ug/L
53-70-3	Dibenz(a,h)	anthracene	0.730	U	14	0.730	ug/L
191-24-2	Benzo(g,h,i)perylene	0.530	U	14	0.530	ug/L
SURROGATES							
367-12-4	2-Fluoroph	enol	68.16	45 %	30 - 78		SPK: 15
13127-88-3	Phenol-d5		46.21	31 %	30 - 77		SPK: 15
4165-60-0	Nitrobenzer	ne-d5	76.88	77 %	30 - 120		SPK: 10
321-60-8	2-Fluorobip	henyl	73.05	73 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribro	omophenol	108.36	72 %	27 - 118		SPK: 15
1718-51-0	Terphenyl-o	114	70.08	70 %	26 - 135		SPK: 10
INTERNAL STANE	OARDS						
3855 - 82-1	1,4-Dichlor	obenzene-d4	96882	4.95			
1146-65-2	Naphthalen	e-d8	379088	6.78			
15067-26-2	Acenaphthe	ne-d10	204962	9.52			
1517-22-2	Phenanthren	ne-d10	320368	11.87			
1719-03-5	Chrysene-d	12	279628	16.10			
1520-96-3	Perylene-d1	2	271848	18.20			
TENTITIVE IDENT	IFIED COM	POUNDS				0	
	ACP2.96		10	A	2.96	K	ug/L

RL = Reporting Limit

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

4/30/2008 Client: **Date Collected: TVGA Consultants** Date Received: 5/1/2008 Project: RI AA Former Electruk Battery site Client Sample FEB-MW3-GW-0 SDG No.: Z2643 D: Lab Sample ID: Z2643-04 WATER Matrix: Analytical Method: 8270 % Moisture: 100 1000 Sample Wt/Wol: 330.0 **Extract Vol:** uL mL

File ID	Dilution	Date Extracted	Date Analyzed	Aı	nalytical B	atch ID	
BE048638.D	1	5/2/2008	5/7/2008	Bl	E042308		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
100-52-7	Benzaldehyo	le	0.820	U	30	0.820	ug/L
108-95-2	Phenol		1.7	U	_ 30	1.7	ug/L
111-44-4	bis(2-Chlore	ethyl)ether	0.850	U U	30	0.850	ug/L
95-57-8	2-Chlorophe	enol	1.0	U	30	1.0	ug/L
95-48-7	2-Methylphe	enol	1.1	U	30	1.1	ug/L
108-60-1	2,2-oxybis(1	-Chloropropane)	0.820	U	30	0.820	ug/L
98-86-2	Acetopheno	ne	1.1	U	30	1.1	ug/L
106-44-5	3+4-Methylj	phenols	1.2	U	30	1.2	ug/L
621-64-7	N-Nitroso-d	i-n-propylamine	1.0	U	30	1.0	ug/L
67-72-1	Hexachloroe	thane	0.700	U	30	0.700	ug/L
98-95-3	Nitrobenzen	e	1.0	U	30	1.0	ug/L
78-59-1	Isophorone		0.790	U	30	0.790	ug/L
88-75-5	2-Nitrophen	ol	0.850	U	30	0.850	ug/L
105-67-9	2,4-Dimethy	lphenol	2.3	U /	30	2.3	ug/L
111-91-1	bis(2-Chloro	ethoxy)methane	1.0	U(L)	30	1.0	ug/L
120-83-2	2,4-Dichloro	phenol	1.0	U	30	1.0	ug/L
91-20-3	Naphthalene		0.850	U	30	0.850	ug/L
106-47-8	4-Chloroanil	ine	2.8	U	30	2.8	ug/L
87-68-3	Hexachlorob	outadiene	1.2	U	30	1.2	ug/L
105-60-2	Caprolactam		4.5	U	30	4.5	ug/L
59-50-7	4-Chloro-3-r	nethylphenol	0.670	U	30	0.670	ug/L
91-57-6	2-Methylnap	hthalene	1.1	U	30	1.1	ug/L
77-47-4	Hexachloroc	yclopentadiene	1.7	U	30	1.7	ug/L
88-06-2	2,4,6-Trichlo		1.1	U	30	1.1	ug/L
95-95-4	2,4,5-Trichlo	prophenol	1.2	U	30	1.2	ug/L
92-52-4	1,1-Bipheny	I	0.970	U	30	0.970	ug/L
91-58-7	2-Chloronap		0.700	U	30	0.700	ug/L
88-74-4	2-Nitroanilir		0.760	U	30	0.760	ug/L
131-11-3	Dimethylpht	halate	0.820	U	30	0.820	ug/L
208-96-8	Acenaphthyl		1.1	U	30	1.1	ug/L
606-20-2	2,6-Dinitroto		1.1	U	30	1.1	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:

TVGA Consultants

Project:

RI AA Former Electruk Battery site

Client Sample

FEB-MW3-GW-0

mL

ID: Lab Sample ID:

Z2643-04

Analytical Method: 8270

Sample Wt/Wol:

330.0

Date Collected:

4/30/2008

Date Received:

5/1/2008

SDG No.:

Z2643

Matrix:

WATER

% Moisture:

100

Extract Vol:

1000

uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE048638.D	1	5/2/2008	5/7/2008	BE042308

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	1.1	U	30	1.1	ug/L
83-32-9	Acenaphthene	0.970	U	30	0.970	ug/L
51-28-5	2,4-Dinitrophenol	1.9	UUS	30	1.9	ug/L
100-02-7	4-Nitrophenol	5.2	U	30	5.2	ug/L
132-64-9	Dibenzofuran	0.940	U	30	0.940	ug/L
121-14-2	2,4-Dinitrotoluene	1.0	U	30	1.0	ug/L
84-66-2	Diethylphthalate	0.970	U	30	0.970	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.880	U	30	0.880	ug/L
86-73-7	Fluorene	0.850	U	30	0.850	ug/L
100-01-6	4-Nitroaniline	1.1	U	30	1.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.880	U	30	0.880	ug/L
86-30-6	N-Nitrosodiphenylamine	1.1	U	30	1.1	ug/L
101-55-3	4-Bromophenyl-phenylether	4.2	U	30	4.2	ug/L
118-74-1	Hexachlorobenzene	0.820	U	30	0.820	ug/L
1912-24-9	Atrazine	1.1	U	30	1.1	ug/L
87-86-5	Pentachlorophenol	1.6	U	30	1.6	ug/L
85-01-8	Phenanthrene	4.1	U	30	4.1	ug/L
120-12-7	Anthracene	4.3	U	30	4.3	ug/L
86-74-8	Carbazole	0.730	U	30	0.730	ug/L
84-74-2	Di-n-butylphthalate	18	U	30	18	ug/L
206-44-0	Fluoranthene	0.610	U	30	0.610	ug/L
129-00-0	Pyrene	4.3	U	30	4.3	ug/L
85-68-7	Butylbenzylphthalate	1.3	U	30	1.3	ug/L
91-94-1	3,3-Dichlorobenzidine	3.3	U	30	3.3	ug/L
56-55-3	Benzo(a)anthracene	3.9	U	30	3.9	ug/L
218-01-9	Chrysene	0.790	U	30	0.790	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	4.1	J	30	3.9	ug/L
117-84-0	Di-n-octyl phthalate	0.790	U	30	0.790	ug/L
205-99-2	Benzo(b)fluoranthene	1.3	U	30	1.3	ug/L
207-08-9	Benzo(k)fluoranthene	0.910	U	30	0.910	ug/L
50-32-8	Benzo(a)pyrene	0.670	U	30	0.670	ug/L
						-

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client: **TVGA Consultants Date Collected:** 4/30/2008 Date Received: 5/1/2008 Project: RI AA Former Electruk Battery site Client Sample FEB-MW3-GW-0 SDG No.: Z2643 ID: Lab Sample ID: WATER Z2643-04 Matrix: % Moisture: Analytical Method: 8270 100 Sample Wt/Wol: 330.0 **Extract Vol:** 1000 uL mL

File ID BE048638.D	Dilution 1	Date Extracted 5/2/2008	Date Analyzed	Analytical Batch ID BE042308			
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
193-39-5	Indeno(1,2,	3-cd)pyrene	2.0	U	30	2.0	ug/L
53-70-3	Dibenz(a,h)	Dibenz(a,h)anthracene		U	30	1.6	ug/L
191-24-2	Benzo(g,h,i	Benzo(g,h,i)perylene		U	30	1.2	ug/L
SURROGATES							
367-12-4	2-Fluoroph	enol	101.59	68 %	30 - 78		SPK: 1:
13127-88-3	Phenol-d5		84.07	56 %	30 - 77		SPK: 1:
4165-60-0	Nitrobenzene-d5		89.7	90 %	30 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl		87.02	87 %	35 - 111		SPK: 10
118-79-6	2,4,6-Tribro	omophenol	117.51	78 %	27 - 118		SPK: 1:
1718-51-0	Terphenyl-	114	84.8	85 %	26 - 135		SPK: 10
INTERNAL STAND	DARDS						
3855-82-1	1,4-Dichlor	obenzene-d4	97253	4.95			
1146-65-2	Naphthalen	e-d8	375706	6.78			
15067-26-2	Acenaphthe	ne-d10	201930	9.52			
1517-22-2	Phenanthre		319870	11.87			
1719-03-5	Chrysene-d	12	269761	16.09			
1520-96-3	Perylene-d1		165445	18.20			
TENTITIVE IDENT	TIFIED COM	IPOUNDS					
141-79-7	3-Penten-2	one, 4-methyl-	100	_ J	2.48 7/	?	ug/L
			•		· · · · · · · · · · · · · · · · · · ·	/)	

17

149-57-5

ACP2.96

Hexanoic acid, 2-ethyl-

2.96

6.05

ug/L

ug/L

N = Presumptive Evidence of a Compound



U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

B = Analyte Found In Associated Method Blank

Client: **TVGA Consultants**

Project:

RI AA Former Electruk Battery site

FEB-MW-BD

Lab Sample ID:

Client Sample

Z2643-05

Analytical Method: 8270

Sample Wt/Wol: 990.0 mL Date Collected:

4/30/2008 5/1/2008

Date Received:

SDG No.:

Z2643 WATER

Matrix:

% Moisture:

100

Extract Vol:

1000

uL

File ID BE048637.D	Dilution 1	Date Extracted 5/2/2008	Date Analyzed 5/7/2008		nalytical B E042308	Satch ID	
CAS Number	Parameter	**************************************	Conc.	Qualifier	(RI)	MDL	Units
TARGETS					\mathcal{I}		
100-52-7	Benzaldehyd	le	0.270	U	10	0.270	ug/L
108-95-2	Phenol		0.560	U	10	0.560	ug/L
111-44-4	bis(2-Chloro	ethyl)ether	0.280	UUS	10	0.280	ug/L
95-57-8	2-Chlorophe	nol	0.330	U	10	0.330	ug/L
95-48-7	2-Methylphe	nol	0.360	U	10	0.360	ug/L
108-60-1	2,2-oxybis(1	-Chloropropane)	0.270	U	10	0.270	ug/L
98-86-2	Acetophenor	ne	0.370	U	10	0.370	ug/L
106-44-5	3+4-Methylp	henols	0.390	U	10	0.390	ug/L
621-64-7	N-Nitroso-di	-n-propylamine	0.340	U	10	0.340	ug/L
67-72-1	Hexachloroe	thane	0.230	U	10	0.230	ug/L
98-95-3	Nitrobenzene		0.330	U	10	0.330	ug/L
78-59-1	Isophorone		0.260	U	10	0.260	ug/L
88-75-5	2-Nitropheno	ol	0.280	U	10	0.280	ug/L
105-67-9	2,4-Dimethy	phenol	0.770	U	10	0.770	ug/L
111-91-1	bis(2-Chloro	ethoxy)methane	0.330	UUS	10	0.330	ug/L
120-83-2	2,4-Dichloro	phenol	0.340	U	10	0.340	ug/L
91-20-3	Naphthalene		0.280	U	10	0.280	ug/L
106-47-8	4-Chloroanili	ne	0.930	U	10	0.930	ug/L
87-68-3	Hexachlorob	utadiene	0.390	U	10	0.390	ug/L
105-60-2	Caprolactam		1.5	U	10	1.5	ug/L
59-50-7	4-Chloro-3-n	nethylphenol	0.220	U	10	0.220	ug/L
91-57-6	2-Methylnapl	nthalene	0.370	U	10	0.370	ug/L
77-47-4	Hexachlorocy	vclopentadiene	0.570	U	10	0.570	ug/L
88-06-2	2,4,6-Trichlo	rophenol	0.350	U	10	0.350	ug/L
95-95-4	2,4,5-Trichlo	rophenol	0.380	U	10	0.380	ug/L
92-52-4	1,1-Biphenyl		0.320	U	10	0.320	ug/L
91-58-7	2-Chloronaph	nthalene	0.230	U	10	0.230	ug/L
88-74-4	2-Nitroaniline	2	0.250	U	10	0.250	ug/L
131-11-3	Dimethylphth	alate	0.270	U	10	0.270	ug/L
208-96-8	Acenaphthyle		0.350	U	10	0.350	ug/L
606-20-2	2,6-Dinitrotol		0.350	U	10	0.350	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



4/30/2008 Client: **Date Collected: TVGA Consultants** Date Received: 5/1/2008 Project: RI AA Former Electruk Battery site Client Sample FEB-MW-BD SDG No.: Z2643 ID: Lab Sample ID: WATER Z2643-05 Matrix: Analytical Method: 8270 % Moisture: 100 1000 Sample Wt/Wol: 990.0 Extract Vol: uL mL

File ID	Dilution	Date Extracted	Date Analyzed	An	alytical Ba	tch ID	
BE048637.D	1	5/2/2008	5/7/2008	ВЕ	042308		
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units
TARGETS							
99-09-2	3-Nitroaniline		0.350	U	10	0.350	ug/L
83-32-9	Acenaphthen		0.320	U	-10	0.320	ug/L
51-28-5	2,4-Dinitroph		0.650	UW	10	0.650	ug/L
100-02-7	4-Nitropheno		1.7	U	10	1.7	ug/L
132-64-9	Dibenzofuran		0.310	U	10	0.310	ug/L
121-14-2	2,4-Dinitrotol	uene	0.340	U	10	0.340	ug/L
84-66-2	Diethylphthal	ate	0.320	U	10	0.320	ug/L
7005-72-3	4-Chlorophen	yl-phenylether	0.290	U	10	0.290	ug/L
86-73-7	Fluorene		0.280	U	10	0.280	ug/L
100-01-6	4-Nitroaniline		0.360	U	10	0.360	ug/L
534-52-1	4,6-Dinitro-2	methylphenol	0.290	U	10	0.290	ug/L
86-30-6	N-Nitrosodipl	henylamine	0.350	U	10	0.350	ug/L
101-55-3	4-Bromophen	yl-phenylether	1.4	U	10	1.4	ug/L
118-74-1	Hexachlorobe	nzene	0.270	U	10	0.270	ug/L
1912-24-9	Atrazine		0.370	U	10	0.370	ug/L
87-86-5	Pentachloropl	nenol	0.530	U	10	0.530	ug/L
85-01-8	Phenanthrene		1.4	U	10	1.4	ug/L
120-12-7	Anthracene		1.4	U	10	1.4	ug/L
86-74-8	Carbazole		0.240	U	10	0.240	ug/L
84-74-2	Di-n-butylpht	halate	5.9	U	10	5.9	ug/L
206-44-0	Fluoranthene		0.200	U	10	0.200	ug/L
129-00-0	Pyrene		1.4	U	10	1.4	ug/L
85-68-7	Butylbenzylpl	hthalate	0.420	U	10	0.420	ug/L
91-94-1	3,3-Dichlorob	enzidine	1.1	U	10	1.1	ug/L
56-55-3	Benzo(a)anthi		1.3	U	10	1.3	ug/L
218-01-9	Chrysene		0.260	U	10	0.260	ug/L
117-81-7	bis(2-Ethylhe	xyl)phthalate	1.3	U	10	1.3	ug/L
117-84-0	Di-n-octyl phi		0.260	U	10	0.260	ug/L
205-99-2	Benzo(b)fluor		0.430	U	10	0.430	ug/L
207-08-9	Benzo(k)fluor		0.300	U	10	0.300	ug/L
50-32-8	Benzo(a)pyrei		0.220	U	10	0.220	ug/L

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Client: **TVGA Consultants** 4/30/2008 Date Collected: Project: Date Received: 5/1/2008 RI AA Former Electruk Battery site **Client Sample** FEB-MW-BD SDG No.: Z2643 Lab Sample ID: Z2643-05 Matrix: WATER Analytical Method: 8270 % Moisture: 100 Sample Wt/Wol: 990.0 $\mathbf{m}\mathbf{L}$ Extract Vol: 1000 uL

File ID	Dilution	Date Extracted	Date Analyzed Analytical Batch ID					
BE048637.D	1	5/2/2008	5/7/2008	BE	042308			
CAS Number	Parameter		Conc.	Qualifier	RL	MDL	Units	
TARGETS								
193-39-5	Indeno(1,2,3-	cd)pyrene	0.670	U	10	0.670	ug/L	
53-70-3	Dibenz(a,h)ar	nthracene	0.550	U	10	0.550	ug/L	
191 - 24-2	Benzo(g,h,i)p	erylene	0.390	U	10	0.390	ug/L	
SURROGATES								
367-12-4	2-Fluorophen	ol	66.58	44 %	30 - 78		SPK: 15	
13127-88-3	Phenol-d5		42.44	28 %	30 - 77		SPK: 15	
4165-60-0	Nitrobenzene-	-d5	93.52	94 %	30 - 120		SPK: 10	
321-60-8	2-Fluorobiphe	enyl	91.66	92 %	35 - 111		SPK: 10	
118-79-6	2,4,6-Tribrom	ophenol	125.84	84 %	27 - 118		SPK: 15	
1718-51-0	Terphenyl-dl-	4	76.69	77 %	26 - 135		SPK: 10	
NTERNAL STAND	ARDS							
3855-82-1	1,4-Dichlorob	enzene-d4	101749	4.94				
146-65-2	Naphthalene-o	18	388945	6.78				
5067-26-2	Acenaphthene	e-d10	210234	9.52				
.517-22-2	Phenanthrene-		328669	11.87				
719-03-5	Chrysene-d12		278983	16.09				
520-96-3	Perylene-d12		265558	18.20				
TENTITIVE IDENT	-	OUNDS		_ 3 3				
	ACP2.95		-8.0	-A	2.95	<u> </u>	ug/L	

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants Date Collected:** 4/30/2008 Project: RI AA Former Electruk Battery site Date Received: 5/1/2008 Client Sample ID: FEB-SW4-SW-0 SDG No.: Z2643 Lab Sample ID: Z2643-01 Matrix: WATER

Analytical Method: 8081 % Moisture: 100

Sample Wt/Vol: 1000 mL Extract Vol: 10000 uL

File ID:	File ID: Dilution: Date		Date Anal	yzed	Analytical Batch ID		
P7022901.D	1	5/2/2008	5/21/2008		P7051908		
CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units	
TARGETS				1/			
319-84-6	alpha-BHC	0.0063	U	0.050	0.0063	ug/L	
319-85-7	beta-BHC	0.0070	U	0.050	0.0070	ug/L	
319-86-8	delta-BHC	0.0500	UUJ	0.050	0.0500	ug/L	
58-89-9	gamma-BHC (Lindane	0.0071	U	0.050	0.0071	ug/L	
76-44-8	Heptachlor	0.0227	U	0.050	0.0227	ug/L	
309-00-2	Aldrin	0.0299	U	0.050	0.0299	ug/L	
1024-57-3	Heptachlor epoxide	0.0121	U	0.050	0.0121	ug/L	
959-98-8	Endosulfan I	0.0076	U	0.050	0.0076	ug/L	
60-57-1	Dieldrin	0.0073	U	0.050	0.0073	ug/L	
72-55-9	4,4'-DDE	0.0072	U	0.050	0.0072	ug/L	
72-20-8	Endrin	0.0069	U	0.050	0.0069	ug/L	
33213-65-9	Endosulfan II	0.0073	U	0.050	0.0073	ug/L	
72-54-8	4,4'-DDD	0.0070	U	0.050	0.0070	ug/L	
1031-07-8	Endosulfan sulfate	0.0086	U	0.050	0.0086	ug/L	
50-29-3	4,4'-DDT	0.0064	U	0.050	0.0064	ug/L	
72-43-5	Methoxychlor	0.0072	U	0.050	0.0072	ug/L	
53494-70-5	Endrin ketone	0.0078	U	0.050	0.0078	ug/L	
7421-93-4	Endrin aldehyde	0.0088	U	0.050	0.0088	ug/L	
5103-71-9	alpha-Chlordane	0.0076	U	0.050	0.0076	ug/L	
5103-74-2	gamma-Chlordane	0.0078	U	0.050	0.0078	ug/L	
8001-35-2	Toxaphene	0.0900	U	0.50	0.0900	ug/L	
SURROGATES							
2051-24-3	Decachlorobiphenyl	16.61	83 %	45 - 13	31	SPK: 20	
877-09-8	Tetrachloro-m-xylene	18.59	93 %	30 - 13	51	SPK: 20	

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

Date Collected: Date Received:

Project: RI AA Former Electruk Battery site

FEB-MW1-GW-0

SDG No.:

Lab Sample ID: Z2643-02

5/1/2008 Z2643

4/30/2008

Matrix:

Analytical Method: 8081 % Moisture:

WATER 100

Sample Wt/Vol:

Client Sample ID:

920

mL

Extract Vol:

10000 uL

File ID: P7022902.D		Oate Prep 5/2/2008	Date Analy 5/21/2008		alytical Batch 051908	ID
CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.0068	U	0.054	0.0068	ug/L
319-85-7	beta-BHC	0.0076	U	0.054	0.0076	ug/L
319-86-8	delta-BHC	0.0544	UNJ	0.054	0.0544	ug/L
58-89-9	gamma-BHC (Lindane)	0.0077	U	0.054	0.0077	ug/L
76-44-8	Heptachlor	0.0247	U	0.054	0.0247	ug/L
309-00-2	Aldrin	0.0325	U	0.054	0.0325	ug/L
1024-57-3	Heptachlor epoxide	0.0132	U	0.054	0.0132	ug/L
959-98-8	Endosulfan I	0.0082	U	0.054	0.0082	ug/L
50-57-1	Dieldrin	0.0080	U	0.054	0.0080	ug/L
72-55-9	4,4'-DDE	0.0078	U	0.054	0.0078	ug/L
72-20-8	Endrin	0.0075	U	0.054	0.0075	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.054	0.0079	ug/L
72-54-8	4,4'-DDD	0.0076	Π =	0.054	0.0076	ug/L
031-07-8	Endosulfan sulfate	0.0094	U	0.054	0.0094	ug/L
60-29-3	4,4'-DDT	0.0070	U	0.054	0.0070	ug/L
2-43-5	Methoxychlor	0.0078	U	0.054	0.0078	ug/L
3494-70-5	Endrin ketone	0.0084	U	0.054	0.0084	ug/L
421-93-4	Endrin aldehyde	0.0096	U	0.054	0.0096	ug/L
103-71-9	alpha-Chlordane	0.0083	U	0.054	0.0083	ug/L
103-74-2	gamma-Chlordane	0.0085	U	0.054	0.0085	ug/L
001-35-2	Toxaphene	0.0978	U	0.54	0.0978	ug/L
URROGATES	-					Ü
051-24-3	Decachlorobiphenyl	10.44	52 %	45 - 131		SPK: 2
77-09-8	Tetrachloro-m-xylene	21.76	109 %	30 - 151		SPK: 2

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: TVGA Consultants Date Collected: 4/30/2008

Project: RI AA Former Electruk Battery site Date Received: 5/1/2008

Project: RI AA Former Electruk Battery site Date Received: 5/1/2008 Client Sample ID: FEB-MW2-GW-0 SDG No.: Z2643

Lab Sample ID: Z2643-03 Matrix: WATER

Analytical Method: 8081 % Moisture: 100

Sample Wt/Vol: 510 mL Extract Vol: 10000 uL

File ID:	Dilution:	Date Prep	Date Analyz	ed	Analytical Batch	ID
P7022903.D	1	5/2/2008	5/21/2008	- V	P7051908	
CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.0124	U	0.098	0.0124	ug/L
319-85-7	beta-BHC	0.0138	U	0.098	0.0138	ug/L
319-86-8	delta-BHC	0.0980	UUD	0.098	0.0980	ug/L
58-89-9	gamma-BHC (Lindane	0.0139	U	0.098	0.0139	ug/L
76-44-8	Heptachlor	0.0445	U	0.098	0.0445	ug/L
309-00-2	Aldrin	0.0587	U	0.098	0.0587	ug/L
1024-57-3	Heptachlor epoxide	0.0237	U	0.098	0.0237	ug/L
959-98-8	Endosulfan I	0.0148	U	0.098	0.0148	ug/L
60-57-1	Dieldrin	0.0144	U	0.098	0.0144	ug/L
72-55-9	4,4'-DDE	0.0141	U	0.098	0.0141	ug/L
72-20-8	Endrin	0.0136	U	0.098	0.0136	ug/L
33213-65-9	Endosulfan II	0.0142	U	0.098	0.0142	ug/L
72-54-8	4,4'-DDD	0.0138	U	0.098	0.0138	ug/L
1031-07-8	Endosulfan sulfate	0.0169	U	0.098	0.0169	ug/L
50-29-3	4,4'-DDT	0.0126	U	0.098	0.0126	ug/L
72-43-5	Methoxychlor	0.0140	U	0.098	0.0140	ug/L
53494-70-5	Endrin ketone	0.0152	U	0.098	0.0152	ug/L
7421-93-4	Endrin aldehyde	0.0173	U	0.098	0.0173	ug/L
5103-71-9	alpha-Chlordane	0.0149	U	0.098	0.0149	ug/L
5103-74-2	gamma-Chlordane	0.0153	U	0.098	0.0153	ug/L
8001-35-2	Toxaphene	0.1765	U	0.98	0.1765	ug/L
SURROGATES	•					3
2051-24-3	Decachlorobiphenyl	10.28	51 %	45 - 1	31	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.32	97 %	30 - 1	51	SPK: 20

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

mL

Date Received:

5/1/2008

Client Sample ID:

FEB-MW-BD

SDG No.:

Z2643

Lab Sample ID:

Z2643-05

Matrix:

WATER

Analytical Method:

8081

% Moisture:

100

Sample Wt/Vol:

1000

Extract Vol:

10000

иL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P7022904.D	1	5/2/2008	5/21/2008	P7051908

1 /022/04.1	3/2/20	000	3/21/2000		021309	
CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
319-84-6	alpha-BHC	0.0063	U	0.050	0.0063	ug/L
319-85-7	beta-BHC	0.0070	U	0.050	0.0070	ug/L
319-86-8	delta-BHC	0.0500	u UĴ	0.050	0.0500	ug/L
58-89-9	gamma-BHC (Lindane)	0.0071	U	0.050	0.0071	ug/L
76-44-8	Heptachlor	0.0227	U	0.050	0.0227	ug/L
309-00-2	Aldrin	0.0299	U	0.050	0.0299	ug/L
1024-57-3	Heptachlor epoxide	0.0121	U	0.050	0.0121	ug/L
959-98-8	Endosulfan I	0.0076	U	0.050	0.0076	ug/L
60 - 57-1	Dieldrin	0.0073	U	0.050	0.0073	ug/L
72-55-9	4,4'-DDE	0.0072	U	0.050	0.0072	ug/L
72-20-8	Endrin	0.0069	U	0.050	0.0069	ug/L
33213-65-9	Endosulfan II	0.0073	U	0.050	0.0073	ug/L
72-54-8	4,4'-DDD	0.0070	U	0.050	0.0070	ug/L
1031-07-8	Endosulfan sulfate	0.0086	U	0.050	0.0086	ug/L
50-29-3	4,4'-DDT	0.0064	U	0.050	0.0064	ug/L
72-43-5	Methoxychlor	0.0072	U	0.050	0.0072	ug/L
53494-70-5	Endrin ketone	0.0078	U	0.050	0.0078	ug/L
421-93-4	Endrin aldehyde	0.0088	U	0.050	0.0088	ug/L
103-71-9	alpha-Chlordane	0.0076	U	0.050	0.0076	ug/L
103-74-2	gamma-Chlordane	0.0078	U	0.050	0.0078	ug/L
001-35-2	Toxaphene	0.0900	U	0.50	0.0900	ug/L
URROGATES						=
051-24-3	Decachlorobiphenyl	9.86	49 %	45 - 131		SPK:
77-09-8	Tetrachloro-m-xylene	21.31	107 %	30 - 151		SPK:
7-09-0	retractitoro-in-xytene	21.31	107 %	30 - 131		SPK

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client: **TVGA Consultants**

Date Collected:

4/30/2008

Project:

RI AA Former Electruk Battery site

mL

Date Received:

5/1/2008

Client Sample ID:

FEB-SW4-SW-0

SDG No.:

Lab Sample ID:

Z2643-01

Z2643

Matrix:

WATER

Analytical Method:

8082

% Moisture:

100

Sample Wt/Vol:

1000

Extract Vol:

10000 uL

File ID: P6014756.D	Dilution: 1	Date Prep 5/2/2008	Date Analyz 5/12/2008		Analytical Batch ID P6041808		
CAS Number	Parameter	Conc	Qualifier	(RL	MDL	Units	
TARGETS							
12674-11-2	AROCLOR 1016	0.142	U	0.50	0.142	ug/L	
11104-28-2	AROCLOR 1221	0.113	U	0.50	0.113	ug/L	
11141-16-5	AROCLOR 1232	0.115	Ū	0.50	0.115	ug/L	
53469-21-9	AROCLOR 1242	0.073	U	0.50	0.073	ug/L	
12672-29-6	AROCLOR 1248	0.101	U	0.50	0.101	ug/L	
11097-69-1	AROCLOR 1254	0.139	U	0.50	0.139	ug/L	
11096-82-5	AROCLOR 1260	0.0890	U	0.50	0.0890	ug/L	
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.77	94 %	42 - 133		SPK: 2	
2051-24-3	Decachlorobiphenyl	9.56	48 %	30 - 141		SPK: 2	

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound



4/30/2008

Z2643

SDG No.:

Report of Analysis

Client: TVGA Consultants

GA Consultants Date Collected:

Project: RI AA Former Electruk Battery site Date Received: 5/1/2008

Client Sample ID: FEB-MW1-GW-0

Lab Sample ID: Z2643-02 Matrix: WATER

Analytical Method: 8082 % Moisture: 100

Sample Wt/Vol: 920 mL Extract Vol: 10000 uL

File ID: Dilution:		Date Prep	Date Analyz	zed A	Analytical Batch ID		
P6014757.D	1	5/2/2008	5/12/2008	F	6041808		
CAS Number	Parameter	Conc	Qualifier	(RL)	MDL	Units	
TARGETS							
12674-11-2	AROCLOR 1016	0.154	U	0.54	0.154	ug/L	
11104-28-2	AROCLOR 1221	0.123	U	0.54	0.123	ug/L	
11141-16-5	AROCLOR 1232	0.125	U	0.54	0.125	ug/L	
53469-21-9	AROCLOR 1242	0.079	U	0.54	0.079	ug/L	
12672-29-6	AROCLOR 1248	0.110	U	0.54	0.110	ug/L	
11097-69-1	AROCLOR 1254	0.151	U	0.54	0.151	ug/L	
11096-82-5	AROCLOR 1260	0.0970	U	0.54	0.0970	ug/L	
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.32	97 %	42 - 133	3	SPK: 20	
2051-24-3	Decachlorobiphenyl	6.12	31 %	30 - 14	l	SPK: 20	



Report of Analysis

Client: **Date Collected:** 4/30/2008 **TVGA Consultants** Project: RI AA Former Electruk Battery site Date Received: 5/1/2008 Z2643 Client Sample ID: FEB-MW-BD SDG No.: Lab Sample ID: WATER Z2643-05 Matrix: % Moisture: 100 **Analytical Method:** 8082 10000 Sample Wt/Vol: 1000 mL **Extract Vol:** uL

File ID: P6014758.I	Dilution:	Date Prep 5/2/2008	Date Analyz 5/12/2008		Analytical Batch ID P6041808		
CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units	
TARGETS							
12674-11-2	AROCLOR 1016	0.142	U	0.50	0.142	ug/L	
11104-28-2	AROCLOR 1221	0.113	U	0.50	0.113	ug/L	
11141-16-5	AROCLOR 1232	0.115	U	0.50	0.115	ug/L	
53469-21-9	AROCLOR 1242	0.073	U	0.50	0.073	ug/L	
12672-29-6	AROCLOR 1248	0.101	U	0.50	0.101	ug/L	
11097-69-1	AROCLOR 1254	0.139	U	0.50	0.139	ug/L	
11096-82-5	AROCLOR 1260	0.0890	U	0.50	0.0890	ug/L	
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.04	95 %	42 - 133		SPK: 2	
2051-24-3	Decachlorobiphenyl	5.75	29 %	30 - 141		SPK: 2	

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Client:

TVGA Consultants

Project:

RI AA Former Electr

Client Sample ID: FEB-SW4-SW-0

Lab Sample ID:

Z2643-01

Date Collected:

4/30/2008

Date Received:

5/1/2008

SDG No.:

Z2643

Matrix:

WATER

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.400	U	ug/L	5.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-39-3	Barium	15.1	J	ug/L	11.2	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.900	U	ug/L	0.900	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-47-3	Chromium	4.220	J	ug/L	1.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-92-1	Lead	302		ug/L	3.100	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-97-6	Mercury	0.06	U	ug/L	0.06	1	5/2/2008	5/5/2008	EPA SW-846 7470
7782-49-2	Selenium	4.500	U	ug/L	4.500	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-22-4	Silver	8.260		ug/L	1.700	1	5/2/2008	5/2/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electr

Date Received:

5/1/2008

SDG No.:

Z2643

Client Sample ID: FEB-MW1-GW-0

Matrix:

WATER

Lab Sample ID:

Z2643-02

% Solids:

0.00

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.400	U	ug/L	5.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-39-3	Barium	47.3	J	ug/L	11.2	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.900	U	ug/L	0.900	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-47-3	Chromium	2.870	J	ug/L	1.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-92-1	Lead	3.100	U	ug/L	3.100	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439 - 97-6	Mercury	0.06	U	ug/L	0.06	1	5/2/2008	5/5/2008	EPA SW-846 7470
7782-49-2	Selenium	4.500	U	ug/L	4.500	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-22-4	Silver	1.700	U	ug/L	1.700	1	5/2/2008	5/2/2008	EPA SW-846 6010

Comments:



Report of Analysis

Client:

TVGA Consultants

Project:

RI AA Former Electr

Client Sample ID: FEB-MW2-GW-0

Lab Sample ID:

Z2643-03

Date Collected:

4/30/2008

Date Received:

5/1/2008

SDG No.:

Z2643

Matrix:

WATER

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.400	U	ug/L	5.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-39-3	Barium	87.0		ug/L	11.2	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.900	U	ug/L	0.900	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-47-3	Chromium	2.560	J	ug/L	1.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-92-1	Lead	6.740	J	ug/L	3.100	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-97-6	Mercury	0.06	U	ug/L	0.06	1	5/2/2008	5/5/2008	EPA SW-846 7470
7782-49-2	Selenium	4.500	U	ug/L	4.500	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-22-4	Silver	1.780	-	ug/L	1.700	1	5/2/2008	5/2/2008	EPA SW-846 6010
Comments:				0			0,2,200	5,2,2000	2171311 010 0010



Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/30/2008

Project:

RI AA Former Electr

Date Received:

5/1/2008

SDG No.:

Z2643

Client Sample ID: FEB-MW3-GW-0

Matrix:

WATER

Lab Sample ID: Z2643-04

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.400	U	ug/L	5.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-39-3	Barium	66.2		ug/L	11.2	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.900	U	ug/L	0.900	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-47-3	Chromium	2.860	J	ug/L	1.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-92-1	Lead	3.100	U	ug/L	3.100	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-97-6	Мегсигу	0.06	U	ug/L	0.06	1	5/2/2008	5/5/2008	EPA SW-846 7470
7782-49-2	Selenium	4.500	U	ug/L	4.500	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-22-4	Silver	2.420	1	ug/L	1.700	1	5/2/2008	5/2/2008	EPA SW-846 6010
Comments:		21.120			1.100	-	5,2,200	0,4,200	



Report of Analysis

Client:

TVGA Consultants

Project:

RI AA Former Electr

Client Sample ID: FEB-MW-BD

Lab Sample ID:

Z2643-05

Date Collected:

4/30/2008

Date Received:

5/1/2008

SDG No.:

Z2643

Matrix:

WATER

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7440-38-2	Arsenic	5.400	U	ug/L	5.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-39-3	Barium	49.8	J	ug/L	11.2	I	5/2/2008	5/2/2008	EPA SW-846 6010
7440-43-9	Cadmium	0.900	U	ug/L	0.900	I	5/2/2008	5/2/2008	EPA SW-846 6010
7440-47-3	Chromium	2.710	J	ug/L	1.400	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-92-1	Lead	3.100	U	ug/L	3.100	1	5/2/2008	5/2/2008	EPA SW-846 6010
7439-97-6	Mercury	0.06	U	ug/L	0.06	1	5/2/2008	5/5/2008	EPA SW-846 7470
7782-49 - 2	Selenium	4.500	U	ug/L	4.500	1	5/2/2008	5/2/2008	EPA SW-846 6010
7440-22-4	Silver	2.730	J	ug/L	1.700	1	5/2/2008	5/2/2008	EPA SW-846 6010
Comments:									



Report of Analysis

Client:

TVGA Consultants

Project:

RI AA Former Electr

Client Sample ID: SED-4

Lab Sample ID:

Z2784-01

Date Collected:

4/10/2008

Date Received:

5/9/2008

SDG No.: Matrix:

Z2784 TCLP

% Solids:

7439-92-1 Lead 4030 J ug/L 31.0 1 5/14/2008 5/16/2008 EPA S	
	W-846 6010
Comments:	



CENTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Project:

RI AA Former Electr

Client Sample ID: SED-5

Lab Sample ID:

Z2784-02

Date Collected:

4/10/2008

Date Received:

5/9/2008

SDG No.:

Z2784

Matrix:

% Solids:

TCLP 0.00

CAS No.	VALUE CHESTING	1.00					70 5011	us.	0.00
CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	n Date Prep	Date Anal.	Method
7439-92-1	Lead	64400		ug/L	31.0	1	5/14/2008	E/16/2000	
Comments:					21.0	•	3/14/2008	5/16/2008	EPA SW-846 6010

B = Analyte Found In Associated Method Blank

N = Spiked sample recovery not within control limits



GENTIECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Date Collected:

4/10/2008

Project:

RI AA Former Electr

Date Received:

5/9/2008

Client Sample ID: SED-4

SDG No.:

Z2784

Lab Sample ID:

Z2784-01

Matrix:

TCLP

% Solids:

CAS No.	Analyte	Conc.	Qualifier Units	DL	Dilutio	n Date Prep	Date Anal.	Method
7439-92-1	Lead	4030	ug/L	31.0	1	5/14/2008	5/16/2008	EPA SW-846 6010
Comments	:							



GETTLECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Project:

RI AA Former Electr

Client Sample ID: SED-5

Lab Sample ID:

Z2784-02

Date Collected:

4/10/2008

Date Received:

5/9/2008

SDG No.:

Z2784

Matrix:

TCLP

% Solids:

CAS No.	Analyte	Conc.	Qualifier Units	DL	Dilutio	n Date Prep	Date Anal.	Method
7439-92-1	Lead	64400	ug/L	31.0	1	5/14/2008	5/16/2008	EPA SW-846 6010
Comments:								



GETTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Date Collected:

9/30/2008

Project:

RI AA Former Electr

Date Received:

10/2/2008

SDG No.:

Z4788

Client Sample ID: FEB-SS10-(D9-12)-S-O

Matrix:

SOIL

Lab Sample ID:

Z4788-01

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	9.450		mg/Kg	0.345	1	10/6/2008	10/7/2008	EPA SW-846 6010
Comments:									



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Date Collected:

8/19/2008

Project:

RI AA Former Electr

Date Received:

8/20/2008

SDG No.:

Z4211

Client Sample ID: FEB-SUBSLAB01-S-0

Matrix:

SOIL

Lab Sample ID:

Z4211-01

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	37.4		mg/Kg	0.366	1	8/22/2008	8/23/2008	EPA SW-846 6010
Comments:									



CHARGE 18 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Date Collected:

8/19/2008

Project:

RI AA Former Electr

Date Received:

8/20/2008

Client Sample ID: FEB-SUBSLAB02-S-0

SDG No.:

Z4211

Lab Sample ID:

Z4211-02

Matrix:

SOIL

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	32.5		mg/Kg	0.351	1	8/22/2008	8/23/2008	EPA SW-846 6010
Comments:									



CETILECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:

TVGA Consultants

Date Collected:

8/19/2008

Project:

RI AA Former Electr

Date Received:

8/20/2008

SDG No.:

Z4211

Client Sample ID: FEB-SUBSLAB03-S-0

Matrix:

SOIL

Lab Sample ID:

Z4211-03

% Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	174		mg/Kg	0.362	1	8/22/2008	8/23/2008	EPA SW-846 6010
Comments:									



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Report of Analysis

Client: **TVGA Consultants** **Date Collected:**

8/19/2008

RI AA Former Electr

Date Received:

8/20/2008

Project:

SDG No.:

Z4211

Client Sample ID: FEB-SUBSLAB04-S-0

SOIL

Lab Sample ID:

Z4211-04

Matrix: % Solids:

CAS No.	Analyte	Conc.	Qualifier	Units	DL	Dilution	Date Prep	Date Anal.	Method
7439-92-1	Lead	12.1		mg/Kg	0.382	1	8/22/2008	8/23/2008	EPA SW-846 6010
Comments:									

284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

COC Number 071193

	CLIENT INFORMATION	CLIENT PROJECT INFORMATION CLIENT BILLING INFORMATION
COMPANY	REPORT TO BE SENT TO:	PROJECT NAME: FORMEY Ely trok But to: TWHA Casellanh PORIZED USKILLO
		PROJECT NO. 2007. OLD WICCATION: LUKPUT NY ADDRESS: 1000 Maple Rd.
AUDHESS.	STATE: NY ZIP: 14051	PROJECT MANAGER: Dan Rikul GITY: Flun, STATE: NY ZIP: 140571
1 7	1 1	(UM) ATTENTION: Accounting
JIC -SINCARD	711-455-0437	PHONE: 716-655- FAX:
Thorse of	ORMA	DATA DELIVERABLE INFORMATION
FAX:	DAYS.	TE RESULTS ONLY DUSEPACLP
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284 Sheffield Street, Mountainside, NJ 07092 908) 789-8900 Fax (908) 789-8922 www.chemtech.net

CHEMTECH PROJECT NO. QUOTE NO.

COC Number

-- Specify Preservatives Shipment Complete: B-HNO₃ D-NaOH F-Other □ YES □ NO COMMENTS A-HCI C-HSQ E-ICE ZIP: Ice in Cooler?: Cooler Temp. CLIENT BILLING INFORMATION PO#: PHONE STATE: ANALYSIS O SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY MeOH extraction requires an additional 4 oz jar for percent solid. හ ~ **PRESERVATIVES** 放 40 ATTENTION: S ADDRESS BILL TO: CITY: 3 (B) 2) Conditions of bottles or coolers at receipt: CVI DATA DELIVERABLE INFORMATION □ RESULTS ONLY □ USEPA CLP
□ RESULTS + QC □ New York State ASP "3"
□ New Jersey REDUCED □ New York State ASP "4"
□ New Jersey CLP □ Other □ EDD FORMAT CLIENT PROJECT INFORMATION Drawe Steepen LOCATION: OF BOTTLES A R. Ko FAX TUSICI SAMPLE TIME 000 1000 2007.0267. Page. DATE PROJECT MANAGER: SAMPLE PROJECT NAME: BARD PROJECT NO.: СОМР SAMPLE e-mail: PHONE: RECEIVED FOR LAB BY: ZIP: MOS RECEIVED BY: RECEIVED BY: 855-043 DAYS. DAYS. STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS DAYS. PROJECT SAMPLE IDENTIFICATION ÷ ri DATA TURNAROUND INFORMATION STATE: CLIENT INFORMATION REPORT TO BE SENT TO: FAX: 0 9 0 DATE/TIME: DATE/TIME: DATE/TIME PREAPPROVED TAT: D YES RELINOUISHED BY SAMPLER. 2. RELINOUISHED BY: HARD COPY: CHEMTECH SAMPLE RELINQUISHED BY ATTENTION: COMPANY: ADDRESS: PHONE: 9 EDD: FAX: 10 oi က် 4 ò 9 တံ တဲ

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284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

CHEMTECH PROJECT NO. QUOTE NO.

COC Number

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SAMPLE	SAMPLEID	PROJECT SAMPLE IDENTIFICATION	SAMPLE	GRAB		DATE TIME	TOB 90 P	ţ.	2	6	2	9		80	o	A-HCI C-HSQ E-ICE	B - HNO, D-NaOH F-Other	3 - 7 .
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	SAMPLE	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW	OCUMENTE	BELO	W EACH	EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY	PLES C	HANGE	POSSE	SSION	NCLUDI	NG CO	JRIER D	ELIVERY				
RELINQUISHED BY SAMPLER	SAMPLER: DATE/FIME:	100			g:	Conditions of bottles or coulars at receipt:	ttles or c	ta shekoo	receipt:		Compliant			Non Compliant	Cooler	Cooler Temp.		T
1. RELINQUISHED BY	DATE/TIME	I. RECEIVED BY: 2.			Š Š	Mech extraction requires an additional 4 oz jar for percent solid. Comments:	ion requ	ires an	additiona	4 oz jar	Tor perc	ent solk	<u>.</u>		Ice in	lce in Cooler?:_		1
RELINOUISHED BY.	DATE/TIME		LAB BY:		Page		jo	of.		PED VIA	SHIPPED VIA: CLIENT:		☐ HAND DELIVERED :H: ☐ PICKED UP [OVERNIGHT OVERNIGHT	토	Shipment Complete:	ä .
Revision 8/2007		WHITE - CHEMTECH COPY FOR RETURN TO CLIENT	н сору ғов	RETUR	N TO CL		- AAOTT	CHEM	YELLOW - CHEMTECH COPY		PINK - SAMPLER COPY	AMPLE	н сору			Bille	Salled - Yes	



284 Sheffield Street, Mountainside, N.J. 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

CHEMTECH PROJECT NO. QUOTE NO.

COC Number

	CLIENT	CLIENT INFORMATION				LIENT PR	CLIENT PROJECT INFORMATION	ORIGIATIO	NO			100		CLIENT E	CLIENT BILLING INFORMATION	ORMATIO	
COMPANY:	REPOF	REPORT TO BE SENT TO:		PROJECT N	T NAME:	200	3 12	W.	He	A.	BILL	BILL TO:			K	.#O	
ADDRESS:	. W 578	ARA		PROJECT NO.:	100	F7 098	LOCATION	ON	AT .	127	ADE	ADDRESS:	Á	VV)			
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PHONE: //	W. 22.2	842 FAX: 7/6-	4800-559	PHONE:	14 ASS	188	Z FAX:)/(×	\$3	20.00					ANALYSIS		
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EDD: PREAPPROVED TAT: STANDARD TURNAR	ED TAT: D YES	DD: DAYS* PREAPPROVED TAT: D YES D NO STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS	ESS DAYS		New Jersey REDUCED New Jersey CLP EDD FORMAT		☐ New York State ASP "A" ☐ Other	tate ASP	X S	E	(E)	E 4	(Din	(5)	/ e		
СНЕМТЕСН		10aa	THE REAL PROPERTY OF THE PERSON OF THE PERSO	2000	SAMPLE	SAN	SAMPLE	SELT			<u> </u>	PRESERVATIVES	ATIVES			dS -	COMMENTS Specify Preservatives
SAMPLE	v	SAMPLE IDENTIFICATION	ATION	MATRIX	9M00	DATE	TIME	108 40 R	Z -	2	6	ιΩ	9		00	HOA TITE	A-HCI B-HNOs C-HSQ D-NaOH E-ICE F-Other
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