



Transmitted Electronically

June 6th, 2016

Mr. Bradley Benning
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U.S. Environmental Protection Agency, Region
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**Subject: Final Removal Assessment Report
Zizzo Properties
Kenosha, Kenosha County, Wisconsin
Technical Direction Document No. S05-0001-16-02-001
SRS Contract No. EP-S5-16-01**

Dear Mr. Benning:

Sustainment and Restoration Services, LLC (SRS) Superfund Technical Assessment and Response Team (START) is submitting the enclosed Final Removal Assessment (RS) Report for the Zizzo Properties Site located in Kenosha, Kenosha County, Wisconsin. If you have any questions, please contact me at (312) 220-7171.

Sincerely,

A handwritten signature in black ink, appearing to be "Raghu Nagam".

for
Raghu Nagam
START Project Manager

**FINAL REMOVAL ASSESSMENT REPORT
ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WISCONSIN**

Prepared for:

U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604

TDD No.:	S05-0001-16-02-001
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1. INTRODUCTION

Sustainment and Restoration Services, LLC (SRS) has prepared this Removal Assessment (RS) report in accordance with the requirements of U.S. Environmental Protection Agency (U.S. EPA) Technical Direction Document (TDD) No. 001/S05-0001-16-02-001 issued under the Superfund Technical Assessment and Response Team (START) contract No. EP-S5-16-01. The scope of the RS was to identify contamination in soil and auto fluff and determine the extent of contamination and the need for a removal action. START was tasked to prepare a site-specific Health and Safety Plan (HASP), Field Sampling and Analysis Plan (SAP), procure and subcontract an analytical laboratory, collect soil and auto fluff samples, evaluate analytical data, document on-site conditions with written logbook notes and still photographs, and prepare this RS report. This removal assessment was conducted by START members Raghu Nagam and Katherine Cooper on April 14th, 2016.

This RS report summarizes the Site background; discusses the assessment activities; provides a summary of the analytical data; and discusses potential site-related threats. The attachments for this report include figures (Appendix A), a photographic log of the Site (Appendix B), and the validated analytical data package (Appendix C).

2. SITE BACKGROUND

This section provides site description and the history of the Site.

2.1 Site Description

The Zizzo Properties site (Site) is the former Zizzo Scrap Iron & Paper properties located at 1323 50th Street (north parcel) and 1320 52nd Street (south parcel), in Kenosha, Wisconsin (see Figure 1 – Site Location Map). The combined parcel size is approximately 1.86 acres and includes two buildings and a remnant conveyor tower. The Site is surrounded by fencing on the north, south, and west sides, and by railroad tracks on the east side. The property is physically bounded to the north side by 50th Street, to the south by State Highway 158 / 52nd Street, to the east by C & NW Transportation Company railroad tracks, and to the west by the Boys & Girls Club of Kenosha Foundation, Inc. The Site area is a mix of residential, commercial, and industrial properties. The Site is a former scrap yard where metal scrapping and auto shredding operations have occurred.

2.2 Site History

Earth Tech, Inc. conducted Phase I and Phase II Environmental Site Assessment (ESA) in 1999 for the City of Kenosha Department of City Development. The Site has been utilized as a scrap yard by Zizzo Scrap Iron & Paper for over 30 years. Historically, the northern property has also been utilized as a coal yard and a junk yard. The southern property has also been utilized as a heating fuel supply company, motorcycle repair shop, and a city disposal company. Laboratory analytical data of samples collected during Phase II ESA indicated contamination with petroleum and metals, including arsenic, cadmium, and lead, exceeding United States Environmental Protection Agency (U.S. EPA) Regional Screening Levels (RSLs). Samples analyzed for metals were collected at depths greater than 2 feet below ground surface (bgs). Site reconnaissance associated with both Phase I and Phase II ESAs revealed several thousand tons of auto shredder fluff at the Site.

The Wisconsin Department of Natural Resources (WDNR) conducted a preliminary assessment (PA) of the Site in early 2016 addressing potential contaminant migration/exposure pathways and targets. The primary concerns at the Site were found to be surface water and soil exposure pathways (WDNR, 2016).

The WDNR has requested U.S. EPA's assistance in abating threats to human health and the environment from Site Contamination.

3. REMOVAL ASSESSMENT ACTIVITIES

On April 14th, 2016, U.S. EPA, WDNR, and START performed removal assessment activities at the Site. These activities included site reconnaissance, field screening with an X-Ray Fluorescence (XRF) equipment for metals, and collection of soil and auto-shredder fluff samples. START performed removal assessment activities, including the collection of environmental samples, to determine the nature and extent of contamination at the Site. These assessment activities are discussed below:

A site-specific SAP was developed for conducting the assessment prior to mobilizing and performance of the fieldwork. The SAP described the data quality objectives (DQO), sampling strategy, sampling locations, sampling methodology, and analytical procedures for analyzing the samples.

This section summarizes site reconnaissance (subsection 3.1), surface soil field screening (subsection 3.2), soil sampling (subsection 3.3), and auto-shredder fluff sampling (subsection 3.4). Photographic documentation of site features and removal assessment activities are provided as Appendix B.

Surface soil samples from depths up to 1 feet below ground surface (bgs) were collected from the grid system established in the SAP. Auto fluff samples were collected from multiple fluff piles situated on the Site. Analytical results were evaluated to determine if contaminants are present in excess of the Resource Conservation and Recovery Act (RCRA) metals and Toxicity Characteristic Leaching Procedure (TCLP) metals regulations under 40 Code of Federal Regulations (CFR) 261.24 and U.S. EPA Removal Management Levels (RMLs) for Industrial Soils (July, 2015) for metals and poly chlorinated biphenyls (PCBs).

3.1 Site Reconnaissance

On April 14, 2014, U.S. EPA On-Scene Coordinator (OSC) Bradley Benning, WDNR members, and START mobilized to the Site. Site reconnaissance was performed in level “D” personal protective equipment (PPE) gear in accordance with the approved site-specific HASP.

Two buildings and a remnant conveyor tower is located on the Site. A red cinder block building is located in the north-west corner of the property. At the time of the site reconnaissance all of the building’s doorways and windows were boarded up except the building at the north facing entrance. Evidence of vandalism was observed in this building (see photograph 1 and 2). A steel shed is located in the south west corner of the property. The large roll-up door of this building and its side door was open providing unrestricted access to Site visitors. Evidence of graphitic writings inside the building was observed (see photograph 3 and 4). The remnant conveyor tower is located in the middle of the property (see photograph 5). Drums of unknown contents were stored inside the remnant conveyor tower. Historical information indicates that the drums are suspected to contain hydraulic fluid. The Site is accessible to foot traffic through three gaps in the west fence, separating the Site from the Boys and Girls Club (see photograph 6, 7, and 8).

Typical ground cover consisted of several auto-shredder fluff (fluff) and shredded auto parts. Some areas were covered by tall grasses, brush, and debris (see photograph 9, 10, and 11). Areas to the east were observed to have a higher amount of fluff than other areas. These areas were flagged and marked as potential sample locations. The fluff and soil was observed extending off-site beneath the west fence and in between broken fence areas in the direction of the Boys and Girls Club property (see photograph 12).

Using the established sampling grid system, the Site grid was laid from north to south direction in nine 100-foot increments and split the property from east to west into two 50 foot-increments to establish the sampling grid. (Figure 2). Samples collected were labeled according to their location within the sampling grid.

Previously noted and flagged areas with higher volumes of fluff were located in grids A1, A2, A3, A6, B3, B6, B7 and outside of the western fence (see photographs 13-18). Previously noted and flagged areas for soil sample locations were located in grids A4, A5, A7, A8, B4, B6, and B8 (see photographs 19-25).

3.2 Soil Field Screening

An X-Ray Fluorescence (XRF) instrument was brought to the Site to screen the surface soil and fluff mix (surface material) to determine metal contamination prior to sample collection. Field screening with the XRF instrument provided unreliable readings because of instrument malfunctions. A field deviation from established SAP was noted in the field log and discussed with the OSC. Because of lack of reliability on XRF readings, samples were collected based on historical information, visual inspection, and the best professional judgement of the sampling team.

3.3 Soil Sampling

Surface soil sampling was conducted to determine the presence or absence of contaminated soils and the need for removal actions. A total of 7 surface soil samples were collected from the Site from 6 to 12 inches bgs. Surface soil consisted of a mixture of small rocks and soil. Soil was medium brown in color and slightly friable. Samples were labeled according to their location within the established sampling grid, with the exception of samples B4-01 and B4-02 which were collected from the B6 grid. All samples were packaged and preserved on ice and delivered to U.S. EPA approved commercial laboratory Pace Analytical in University Park, Illinois for Total RCRA 8 metals, TCLP Metals, and PCBs analyses.

3.4 Auto Fluff Sampling

Fluff material samples were collected from the previously noted and flagged areas of the Site. The fluff material consisted of soil mixed with fluffy brown material and other shredded auto parts such as rubber, plastic, metal, glass. These areas were located in grids A1, A2, A3, A6, B3, B6, B7, and outside the western fence. A total of 15 fluff material samples were collected from 3-6 inches depths. Four sample locations were located in A2 and B6 grids. Grid A2 appeared to be the location of a possible fluff pit. Included among the four samples collected in the B6 grid were the samples labeled B4-01 and B4-02. Sample B4-02 is the duplicate sample of B4-01. Two sample locations were in the B3 grid and outside of the western fence. One sample was collected from each of the A1, A3, A6, and B7 grids.

3.5 Auto- Fluff Volume Estimate

An estimate of the total auto-shredder fluff area was calculated using ArcMap, a Geographic Information Software (GIS). Boundaries were drawn around the areas containing auto-shredder fluff at the Site.

Surface material sample locations are located within the fluff area. The area of each fluff pit area was automatically calculated by ArcMap. The largest of the fluff areas extended from the B8 grid to the B6 grid (14,000 ft²). The second largest fluff area spanned the A1, A2, A3, and B3 grids (10,600 ft²). All of the fluff areas were combined to estimate the total auto fluff area measurement. The estimated total auto-shredder fluff area is 41,650 ft² (see Figure 5) Assuming an average depth of 10 feet for each fluff pile, the estimated auto-shredder fluff volume is 416,500 ft³.

4. ANALYTICAL RESULTS

START reviewed the analytical data and supporting quality assurance/quality control (QA/QC) data provided by Pace Analytical laboratories and performed data validation of the results. The validated analytical data package is included in Appendix D. Based on START's data validation, the data is acceptable for use as qualified.

4.1 Soil Sample Results

Analytical results for all detected compounds in surface soil samples are shown in Table 1, Table 2, and Table 3. Sample results were compared to the U.S. EPA RMLs for industrial use.

Analytical results for RCRA 8 metals are shown in Table 1. Lead was detected above the industrial RML of 800 milligrams per kilogram (mg/kg) in 16 of the 22 samples. Lead was detected above the RML in 4 of the soil samples. The highest lead concentration in soil samples was detected at 1,580 mg/kg in sample B4-03. This sample was collected at the intersection of grids B3 and B4. Chromium was detected above the industrial RML of 630 mg/kg in 3 out of the 22 samples. Chromium was detected in two of the soil samples, A8-01 and B8-02 at 1020 mg/kg and 1180 mg/kg respectively.

Soil analytical results for PCBs did not indicate any exceedances of the RML for PCBs. Analytical results for PCBs are shown in Table 2. Soil analytical results for TCLP metals did not indicate any exceedances of TCLP limits. Analytical results for TCLP metals are shown in Table 3.

4.2 Auto Fluff Sample Results

Analytical results for all detected compounds in auto-shredder fluff samples are shown in Table 1, Table 2, and Table 3. Sample results were compared to the U.S. EPA RMLs for industrial use.

Of the 16 lead detections above the RML, 12 of the detections were in auto-shredder fluff samples. The highest lead concentration was detected at 9,280 mg/kg in sample A2-04 (see Figure 3). Lead concentration in sample A2-03 was detected at 2,520 mg/kg. Grid A2 is the location of a suspected fluff pit. Samples collected from B4-01 and A1-02 sample locations showed lead concentrations of 2,210 mg/kg and 1,830 mg/kg, respectively. Of the 3 chromium detections above the RML, one detection was in an auto-shredder fluff sample. Sample B3-02 results indicated a chromium concentration of 707 mg/kg.

Analytical results for PCBs are shown in Table 2. PCBs were detected at 101,000 micrograms per kilogram ($\mu\text{g/kg}$) in the auto-shredder fluff sample collected at sample location FENCE-02 outside the western fence (see photograph 10 and Figure 3). The PCB RML is 94,000 $\mu\text{g/kg}$.

Auto-shredder fluff analytical results for TCLP metals did not indicate any exceedances of TCLP limits. Analytical results for TCLP metals are shown in Table 3.

5. POTENTIAL SITE RELATED THREATS

Threats posed by the Site contamination were evaluated in accordance with The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) criteria for initiating a removal action listed under Title 40 of the Code of Federal Regulations (CFR), Section 300.415(b) (2). Paragraph (b) (2) of 40 CFR Section 300.415 lists factors to be considered when determining the appropriateness of a potential removal action at a site. Potential site-related threats to human health and the environment were evaluated based on the criteria listed in 40 CFR, Sections 261.24 and under EPA RMLs. Factors that are applicable to the Site are discussed below.

Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants

Historical and removal assessment analytical results described above indicate that hazardous substances, as defined by CERCLA Section 101(14), pollutants, and contaminants are present at the Site, and represent an actual or potential exposure threat to nearby human populations. Concentrations of hazardous substances exceed relevant screening or regulatory levels. Specifically, samples collected from the Site show the presence of lead and PCBs on-site as well as in the breach areas of the fence in levels exceeding their applicable screening criteria:

During this assessment lead, chromium, and PCBs were detected above their respective RMLs. Lead was detected above the RML of 800 milligrams per kilogram (mg/kg) in 16 out of 22 samples ranging from 1,070 mg/kg to 9,280 mg/kg. Lead result in sample A2-04 was detected at 9,280 mg/kg and in sample A2-03 at 2,520 mg/kg. Chromium was detected above the RML of 630 mg/kg in 3 out of 22 samples ranging from 730 mg/kg to 1180 mg/kg. PCBs were detected at 101,000 µg/kg, which is above the RML of 94,000 µg/kg in the sample collected at FENCE-02 location.

Lead is a naturally occurring bluish-gray metal found in small amounts in the earth's crust. It is used in the production of batteries, ammunition, metal products and devices to shield X-Rays. Humans exposed to high levels of lead in soil may experience nervous system effects, brain and kidney damage, and anemia (ATSDR, 2007).

Chromium is a naturally occurring element found in rocks, animals, plants, and soil. The metal chromium is used for making steel. Humans exposed to high levels of chromium may experience anemia, damage to the nose, stomach, or intestines, and cancer (ATSDR, 2007).

PCBs are mixtures of up to 209 individual chlorinated compounds known as congeners. There are no known natural sources of PCBs. PCBs have been used as coolants and lubricants in transformers, capacitors, and other electrical equipment. Humans exposed to high levels of PCBs may experience skin conditions such as acne and rashes. Studies in exposed workers have shown changes in blood and urine that may indicate liver damage (ATSDR, 2007).

There are several residential dwellings within 200 feet to the north, south, and east of the Site. The Boys & Girls Club of Kenosha Foundation, Inc. neighbors the Site directly to the west. The Site is accessible through two breaches in the fence separating the Site property from the Boys & Girls Club. Highest PCB concentration was detected in the sample collected from the area immediately outside the breached western fence area in close proximity to the Boys and Girls Club. The breached fence provides unrestricted access to the Site to surrounding population resulting in potential exposure to Site contamination. In addition, the spilled material in the breaches of the fence have high PCB contamination and pose direct and actual exposure to trespassers as well as to the Boys and Girls Club students.

High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate

Analytical results described above indicate that hazardous substances, as defined by CERCLA Section 101(14), pollutants, and contaminants are present in surface soils and in auto fluff piles at the Site, and represent an actual or potential threat to migrate. Concentrations of hazardous substances exceed relevant screening or regulatory levels.

Off-site migration of soil and auto fluff exceeding the RML for PCBs is indicated by the surface material sample collected from sample location FENCE-02. Sample location FENCE-02 is located outside of the western fence separating the Site and the Boys & Girls Club (see photograph 10). Contaminants present in surface soils at the Site also have the potential to migrate off site during dry and dusty conditions.

6. SUMMARY

On April 14th, 2016, U.S. EPA, WDNR, and START conducted Removal Assessment activities at the Zizzo Properties Site in Kenosha, Wisconsin to determine the extent of contamination at the Site. During sampling a total of 22 soil and auto-shredder fluff samples were collected and submitted to a commercial laboratory for RCRA 8 metals, TCLP metals, and PCBs.

Sample results were compared to the U.S. EPA RMLs for Industrial Soils. Lead was detected above the RML of 800 mg/kg in 16 out of 22 samples ranging from 1,070 mg/kg to 9,280 mg/kg. The highest lead concentration was detected at the auto-shredder fluff sample location A2-04. Chromium was detected above the RML of 630 mg/kg in 3 samples ranging from 707 mg/kg to 1180 mg/kg. PCBs were detected above the RML of 94,000 µg/kg in one out of 22 samples collected at 101,000 µg/kg. This sample was collected at the auto-shredder fluff sample location FENCE-02.

Based on sample results and observed conditions, the contaminated material has migrated/spilled outside the Site's western boundary and poses a direct contact threat to Boys and Girls Club students next door.

Table 1 Total RCRA Metals Results Zizzo Properties - RS Kenosha, Wisconsin								
Analyte - (mg/kg)								
Sample ID	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
	Removal Management Level (RML) Industrial - (mg/kg)							
	300	650.222	2,900	630	800	140	18,000	18,000
Auto-shredder Fluff Analytical Results								
A1-02	<7.3	3970	65.0	516	1830	12.1	2.6	4.3 J
A2-01	80.3	1700	61.4	262	2130	16.2	<1.0	4.8
A2-02	27.3	2000	75.9	267	1750	10.9	2.1 J	5.3
A2-03	<7.2	434	15.3	77.8	2520	1.8	<0.87	1.8
A2-04	17.8 J	2070	54.8	262	9280	23.2	13.7	4.2
A3-02	<8.4	1330	57.0	233	1400	37.9	3.8	5.7
A6-01	8.6 J	387	24.7	419	1280	4.3	<0.86	2.4
B3-01	15.9 J	1160	37.7	157	1400	8.0	0.97 J	4.6
B3-02	17.8 J	1370	16.9	707	512	3.2	<7.2	5.6 J
B4-01	21.3 J	790	31.5	233	2210	6.4	3.1	10.3
B4-02	13.3 J	667	39.1	135	1400	7.7	1.7 J	7.3
B6-01	9.9 J	312	44.7	118	659	9.6	<0.82	3.4 J
B7-01	16.8 J	734	41.2	399	1320	1.1	<9.0	4.3 J
FENCE-01	<6.6	135	8.7	105	1840	0.96	<8.0	7.0 J
FENCE-02	60.9	185	4.4 J	36.7	310	2.3	<8.3	<3.0
Soil Analytical Results								
A4-02	<7.2	623	25.7	114	1420	1.6	1.1 J	3.4
A5-02	5.1	64.3	1.2	14.9	76.6	0.19	<0.87	<0.32
A7-02	12.9 J	283	10.9	92.8	414	0.38	<8.1	<2.9
A8-01	<7.0	169	9.2	1180	717	0.66	<8.4	<3.0
B4-03	9.1 J	690	52.7	163	1580	6.1	1.3 J	33.8
B6-02	12.8 J	838	49.0	234	1070	12.2	0.86 J	4.2 J
B8-02	<6.9	351	17.0	1020	1460	1.6	2.2 J	4.0 J

Notes:

mg/kg- milligrams per kilogram
bold/highlighted- value exceeds EPA Removal Management Level
 J- estimated value

Sample B4-02 is the duplicate sample of sample B4-01.

All samples were collected on April 14th, 2016.

Analytical Methods

All Total RCRA Metals in soil analysis, except mercury, was performed by EPA method SW-846 1311 and SW-846 6010D.

RCRA Metals in soil analysis for mercury was performed by EPA method SW-846 1311 and SW-846 7470/7471.

<p align="center">Table 2 PCBs Analytical Results Zizzo Properties - RS Kenosha, Wisconsin</p>								
Sample ID	Analyte - (µg/kg)							
	PCB, Total	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1248 (Aroclor 1248)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
	EPA Removal Management Level (RML) Industrial - (µg/kg)							
	94,000	94,000	94,000	94,000	94,000	94,000	94,000	94,000
	Soil Sample Analytical Results							
A1-02	64900	<6440	<6440	<6440	31100	<6440	33800	<6440
A2-01	56300	<3260	<3260	<3260	29200	<3260	27100	<3260
A2-02	40300	<3110	<3110	<3110	20600	<3110	19700	<3110
A2-03	7820	<590	<590	<590	3130	<590	4690	<590
A2-04	59000	<3060	<3060	<3060	30600	<3060	24300	4070 J
A3-02	33000	<3360	<3360	<3360	21100	<3360	11800	<3360
A6-01	21200	<3060	<3060	<3060	<3060	<3060	21200	<3060
B3-01	42000	<2910	<2910	<2910	21600	<2910	17200	3200 J
B3-02	5950	<274	<274	<274	3390	<274	2560	<274
B4-01	24100	<5810	<5810	<5810	24100	<5810	<5810	<5810
B4-02	38600	<5970	<5970	<5970	38600	<5970	<5970	<5970
B6-01	4860	<146	<146	<146	1360	<146	2450	1050
B7-01	4530	<146	<146	<146	2240	<146	1730	563
FENCE-01	1620	<84.3	<84.3	<84.3	689	<84.3	735	192
FENCE-02	101000	<15000	<15000	<15000	101000	<15000	<15000	<15000
	Auto-shredder Fluff Analytical Results							
A4-02	28800	<3020	<3020	<3020	28800	<3020	<3020	<3020
A5-02	329	<30.0	<30.0	<30.0	62.1	<30.0	182	84.4
A7-02	1160	<30.4	<30.4	<30.4	267	<30.4	487	409
A8-01	2160	<114	<114	<114	419	<114	1360	378
B4-03	18000	<1050	<1050	<1050	8120	<1050	9860	<1050
B6-02	16500	<1550	<1550	<1550	9810	<1550	6640	<1550
B8-02	4570	<284	<284	<284	4570	<284	<284	<284

Notes:

bold/highlighted- value exceeds the EPA Removal Management Level (July 2015)
 µg/kg- Micrograms per kilogram

B4-02 was the duplicate sample of B4-01.
 All samples were collected April 14th, 2016.

Analytical

All PCBs in soil and auto-shredder fluff analysis was performed by EPA method SW-846 8082.

<p align="center">Table 3 TCLP Metals Analytical Results Zizzo Properties - RS Kenosha, Wisconsin</p>								
Sample ID	Analyte - (mg/L)							
	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
	40 CFR 261.24- (mg/L)							
	5	500	5	1,000	50	25 ^b	200	10
Auto-shredder Fluff Analytical Results								
A1-02	<0.12	3.6	0.61	<0.12	0.58	0.00035 J	<0.12	<0.12
A2-01	<0.12	3.7	0.61	<0.12	1.0	<0.00018	<0.12	<0.12
A2-02	<0.12	4.2	0.60	<0.12	0.90	0.00037 J	<0.12	<0.12
A2-03	<0.12	<1.2	0.038	<0.12	0.15	<0.00018	<0.12	<0.12
A2-04	<0.12	5.0	0.62	<0.12	1.3	<0.00018	<0.12	<0.12
A3-02	<0.12	3.9	0.51	<0.12	0.97	<0.00018	<0.12	<0.12
A6-01	<0.12	1.3 J	0.21	<0.12	1.1	<0.00018	<0.12	<0.12
B3-01	<0.12	3.0	0.49	<0.12	4.2	<0.00018	<0.12	<0.12
B3-02	<0.12	3.7	0.15	<0.12	0.060 J	<0.00018	<0.12	<0.12
B4-01	<0.12	2.2 J	0.47	<0.12	1.6	<0.00018	<0.12	<0.12
B4-02	<0.12	2.5	0.36	<0.12	0.99	<0.00018	<0.12	<0.12
B6-01	<0.12	1.3 J	0.73	<0.12	4.8	<0.00018	<0.12	<0.12
B7-01	<0.12	1.5 J	0.67	<0.12	4.2	<0.00018	<0.12	<0.12
FENCE-01	<0.12	<1.2	0.068	<0.12	0.48	<0.00018	<0.12	<0.12
FENCE-02	<0.12	<1.2	0.025 J	<0.12	0.058 J	<0.00018	<0.12	<0.12
Soil Analytical Results								
A4-02	<0.12	1.5 J	0.24	<0.12	4.5	<0.00018	<0.12	<0.12
A5-02	<0.12	<1.2	0.024 J	<0.12	0.075	<0.00018	<0.12	<0.12
A7-02	<0.12	1.6 J	0.051	<0.12	0.18	<0.00018	<0.12	<0.12
A8-01	<0.12	<1.2	0.051	<0.12	0.11	<0.00018	<0.12	<0.12
B4-03	<0.12	2.5 J	0.43	<0.12	0.28	<0.00018	<0.12	<0.12
B6-02	<0.12	2.6	0.73	<0.12	3.4	<0.00018	<0.12	<0.12
B8-02	<0.12	2.7	0.19	<0.12	3.2	<0.00018	<0.12	<0.12

Notes:

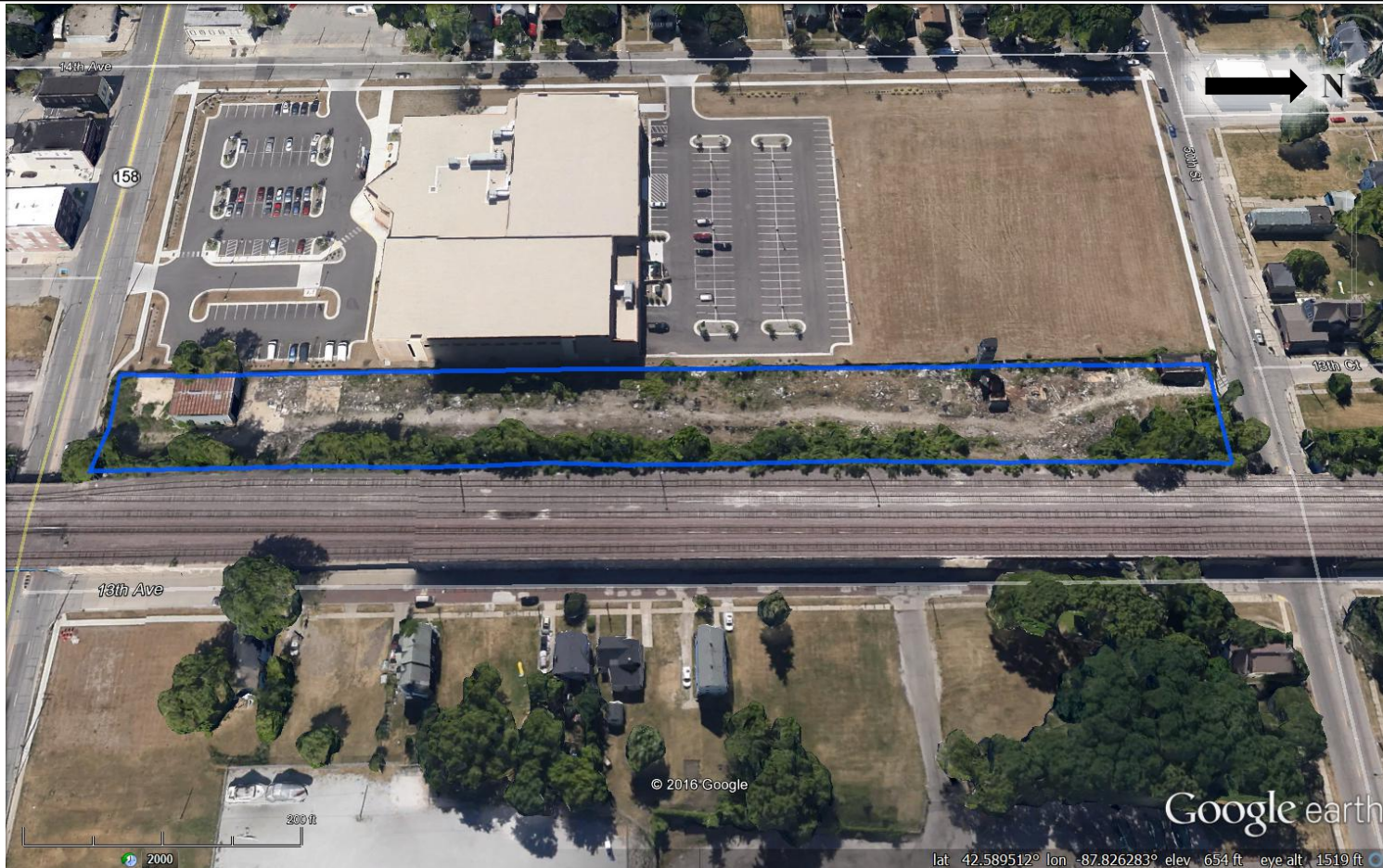
40 CFR 261.24-
mg/L-
J-
bold/highlight-

TCLP values compared to guidelines set for in 40 CFR 261.24
milligrams per liter
estimated value
value exceeds the TCLP guidelines

Sample B4-02 is the duplicate sample of B4-01.
All samples were collected April 14th, 2016.

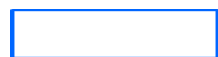
Analytical Methods

All TCLP Metals in soil analysis, except mercury, was performed by EPA method SW-846 1311 and SW-846 6010D.
TCLP Metals in soil analysis for mercury was performed by EPA method SW-846 1311 and SW-846 7040.



Aerial Source: Google Earth 2016

Legend



Site boundary

Scale 0 100 200 Feet



Kenosha, Wisconsin

ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WI
TDD No. S05-0001-16-02-001

4/14/2016

FIGURE 1 SITE LOCATION MAP





Aerial Source: Google Earth 2016

Legend



Proposed Sampling Grid



Site Boundary



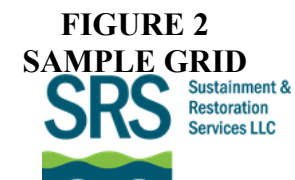
Grid A1

A Sample Location ID

1

Scale 0 100 200 Feet

ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WI
TDD No. S05-0001-16-02-001
4/14/2016








ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WI
TDD. No. S05-0001-16-01-001
4/14/2016

FIGURE 3.
LEAD AND TOTAL PCB
CONCENTRATIONS IN SOIL SAMPLES



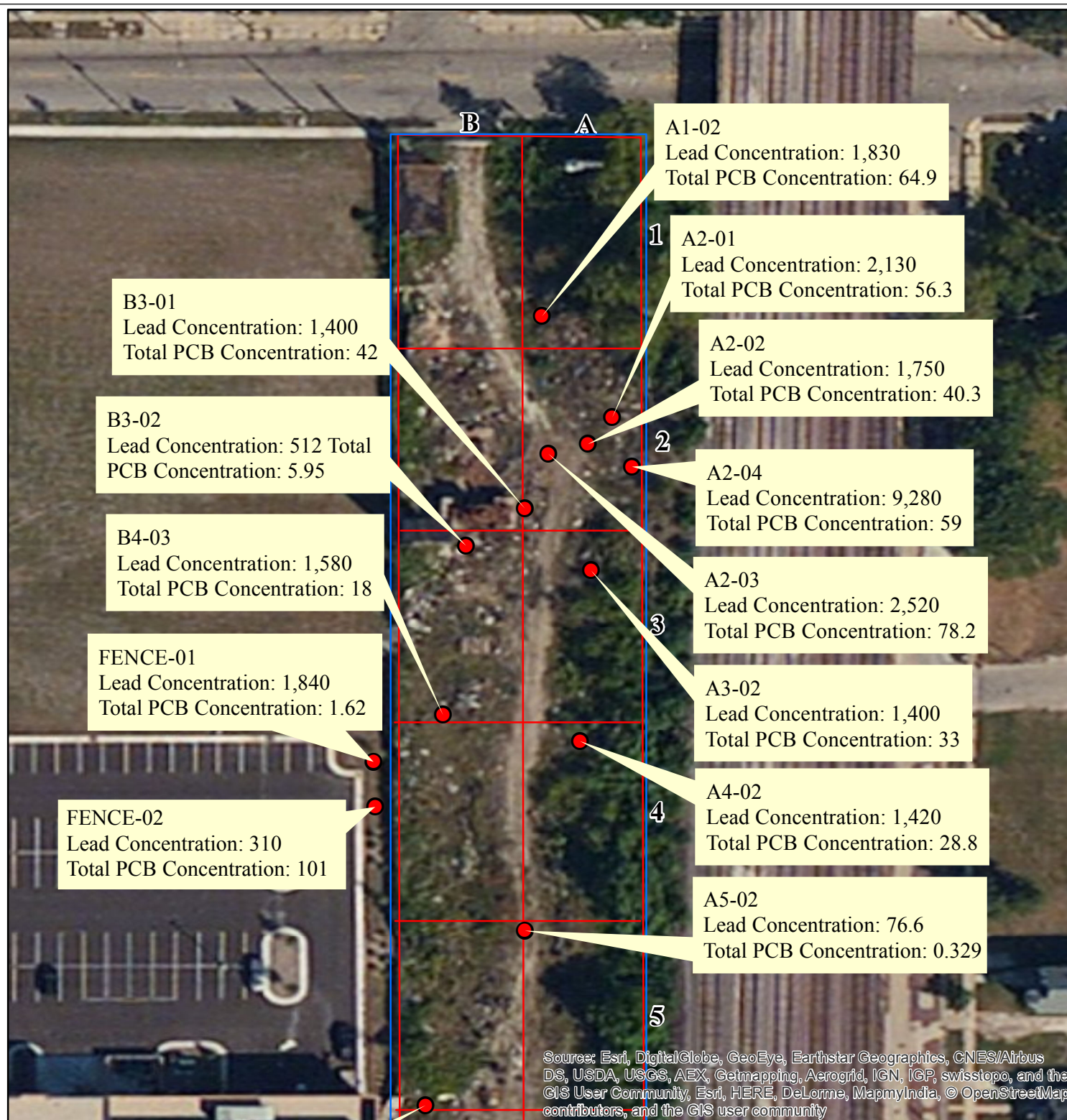
Legend

Map 1 of 2

-  A1-02 Sample location A1-02
-  Grid
-  Study Area

Lead and total PCB concentrations
are measured in mg/kg.

0 25 50 100
Feet





ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WI
TDD. No. S05-0001-16-01-001
4/14/2016

FIGURE 3.
LEAD AND TOTAL PCB
CONCENTRATIONS IN SOIL SAMPLES



Legend

Map 2 of 2

● A1-02 Sample location A1-02



Grid



Study Area

Lead and total PCB concentrations
are measured in mg/kg.

0 25 50 100
Feet





ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WI
TDD. No. S05-0001-16-01-001
4/14/2016

FIGURE 5.
AUTO-SHREDDER FLUFF AREA
ESTIMATE



Legend

Map 1 of 2

- A1-02 Sample location A1-02
- Grid
- Study Area
- FLA-1 Fluff Area - 1

0 25 50 100
Feet



Auto-Shredder Fluff Area Estimate

FLA-1: 10,600 ft ²	FLA-5: 14,000 ft ²
FLA-2: 5,000 ft ²	FLA-6: 3,700 ft ²
FLA-3: 1,900 ft ²	FLA-7: 3,000 ft ²
FLA-4: 3,500 ft ²	

HcHU'5i h:IG fYXXyf'
: 'i Z5fYU.' (%&\$\$'Zf'





ZIZZO PROPERTIES - RS
KENOSHA, KENOSHA COUNTY, WI
TDD. No. S05-0001-16-01-001
4/14/2016

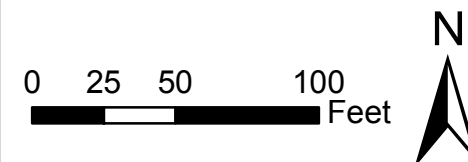
FIGURE 5.
AUTO-SHREDDER FLUFF AREA
ESTIMATE



Legend

Map 2 of 2

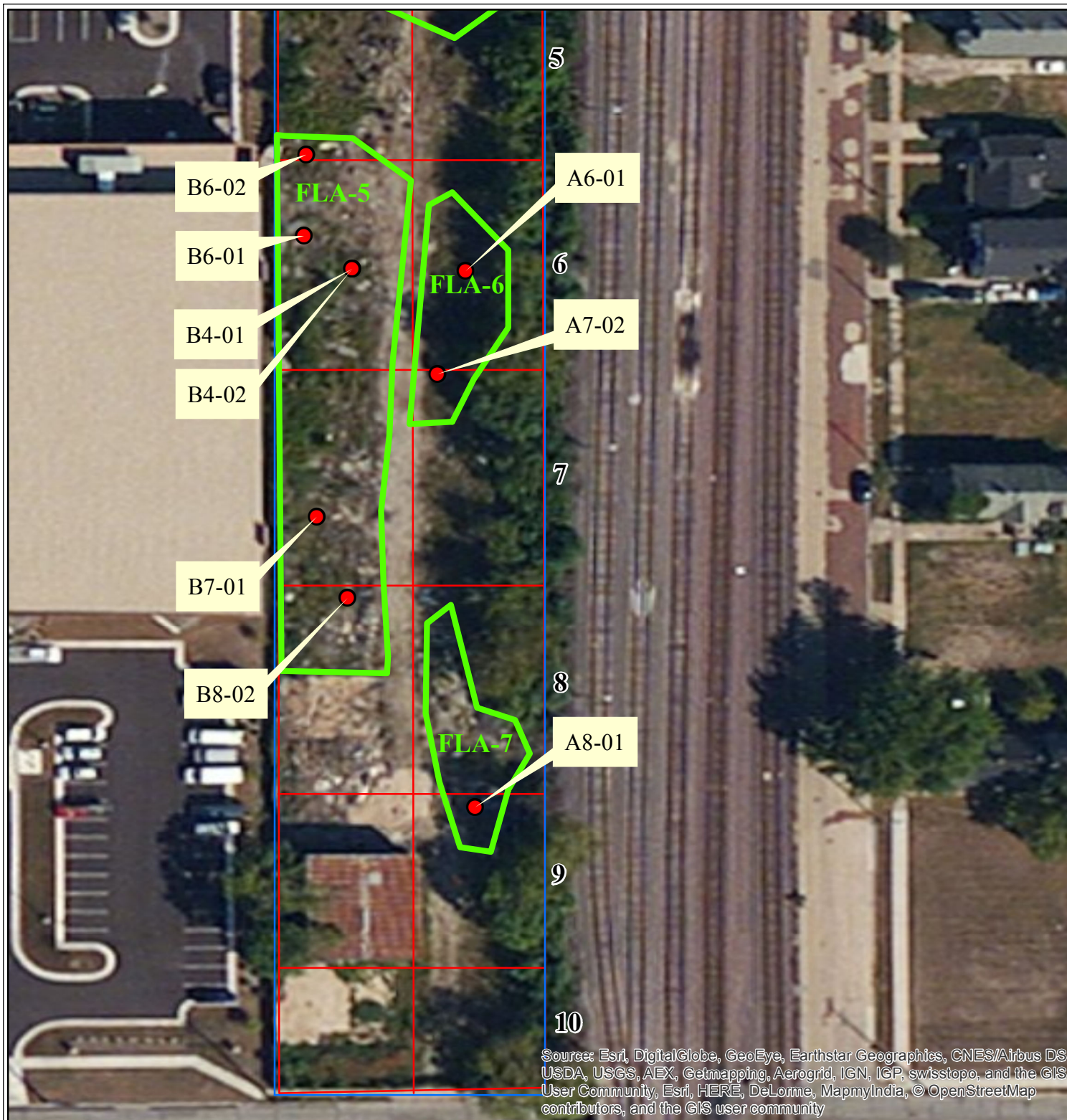
- A1-02 Sample location A1-02
- Grid
- Study Area
- FLA-1** Fluff Area - 1



Auto-Shredder Fluff Area Estimate

FLA-1: 10,600 ft ²	FLA-5: 14,000 ft ²
FLA-2: 5,000 ft ²	FLA-6: 3,700 ft ²
FLA-3: 1,900 ft ²	FLA-7: 3,000 ft ²
FLA-4: 3,500 ft ²	

Total Auto-Shredder
Fluff Area: 41,700 ft²



APPENDIX B
PHOTOGRAPHIC LOG

Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: Northwest
Photographer:
Katherine Cooper

Official Photograph No. 1:
Red cinder block building with
boarded up windows and doors.
Evidence of vandalism.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: Northwest
Photographer:
Katherine Cooper

Official Photograph No. 2:
Red cinder block building
accessible via open doorway.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: South
Photographer:
Katherine Cooper

Official Photograph No. 3:
Steel shed large roll up garage
door open.



Site: Zizzo Properties – RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: West
Photographer:
Katherine Cooper

Official Photograph No. 4:
Vandalism observed inside of
steel shed.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: TO- 01-13-11-1032
OSC: Brad Benning

Date: April 14, 2016
Orientation: Southwest
Photographer:
Katherine Cooper

Official Photograph No. 5:
Remnant Tower located in
the middle of the Site
property.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: TO- 01-13-11-1032
OSC: Brad Benning

Date: April 14, 2016
Orientation: West
Photographer:
Katherine Cooper

Official Photograph No. 6:
First access point onto site,
north of remnant tower, through
west fence separating the Site
from the Boys & Girls Club.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: West
Photographer:
Katherine Cooper

Official Photograph No. 7:
Second access point onto site,
north of remnant tower, through
west fence separating the Site
from the Boys & Girls Club.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: East
Photographer:
Katherine Cooper

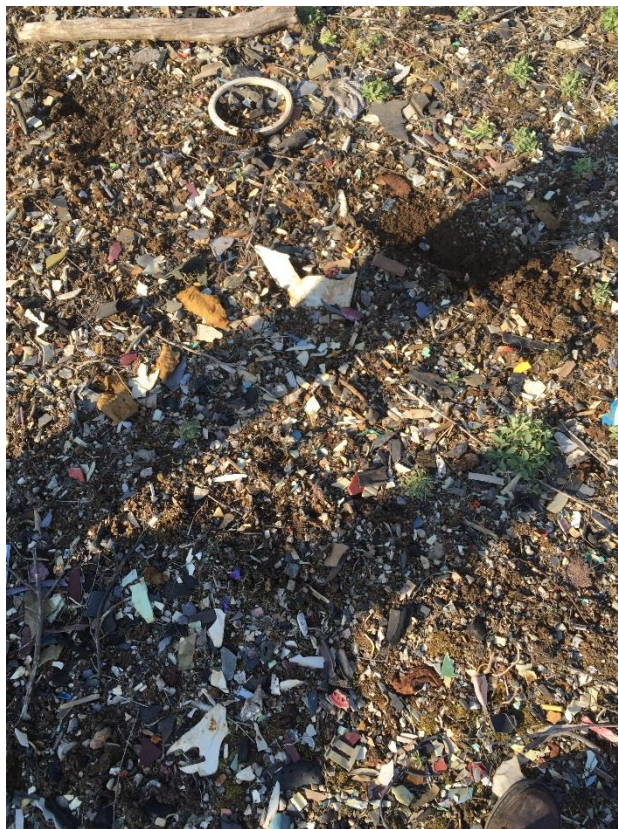
Official Photograph No. 8:
Third access point onto site, south
of remnant tower, through west
fence separating the Site from the
Boys & Girls Club.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Photographer:
Katherine Cooper

Official Photograph No. 9:
Typical ground cover at Site,
consists of an auto-shredder
fluff and soil mix.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: North
Photographer:
Katherine Cooper

Official Photograph No.10:
Typical ground cover at Site
includes tall grasses, brush, and
debris.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: East
Photographer:
Katherine Cooper

Official Photograph No. 11:
Typical ground cover at Site,
consists of tall grasses, brush,
and debris.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: South
Photographer:
Katherine Cooper

Official Photograph No.12:
Auto-shredder fluff/soil mix
migrating off-site beneath west
fence separating site from Boys
& Girls Club.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016

Orientation: East

Photographer:
Katherine Cooper

Official Photograph No. 13:

A2 grid flagged and noted as having a higher than average concentration of auto-shredder fluff.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016

Orientation: East

Photographer:
Katherine Cooper

Official Photograph No.14:

A3 grid flagged and noted as having a higher than average concentration of auto-shredder fluff.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016

Orientation: South

Photographer:
Katherine Cooper

Official Photograph No. 15:

A6 grid flagged, east of remnant tower, noted as having a higher than average concentration of auto-shredder fluff.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016

Orientation: West

Photographer:
Katherine Cooper

Official Photograph No.16:

B3 grid flagged noted as having a higher than average concentration of auto-shredder fluff.



Site: Zizzo Properties - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-02-001

OSC: Brad Benning

Date: April 14, 2016

Orientation: East

Photographer:

Katherine Cooper

Official Photograph No.16:

B6 grid flagged and noted as having a higher than average concentration of auto-shredder fluff.



Site: Zizzo Properties - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-02-001

OSC: Brad Benning

Date: April 14, 2016

Orientation: East

Photographer:

Katherine Cooper

Official Photograph No. 17: B7 grid flagged and noted as having a higher than average concentration of auto-shredder fluff. B7-01 sample has been collected.



Site: Zizzo Properties - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-02-001

OSC: Brad Benning

Date: April 14, 2016

Orientation: South

Photographer:

Katherine Cooper

Official Photograph No.18:

Auto-shredder fluff and soil mix extending off-site beneath western fence; noted as having a higher than average concentration of auto-shredder fluff.



Site: Zizzo Properties - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-02-001

OSC: Brad Benning

Date: April 14, 2016

Orientation: East

Photographer:

Katherine Cooper

Official Photograph No. 19:

Sample location A4 noted and flagged as a soil sample location.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: East
Photographer:
Katherine Cooper

Official Photograph No.20:
Sample location A5 noted and
flagged as a soil sample
location.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: East
Photographer:
Katherine Cooper

Official Photograph No.22:
Sample location A7 noted and
flagged as a soil sample
location.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: North
Photographer:
Katherine Cooper

Official Photograph No. 23:
Sample location A8 noted and
flagged as a soil sample
location.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: West
Photographer:
Katherine Cooper

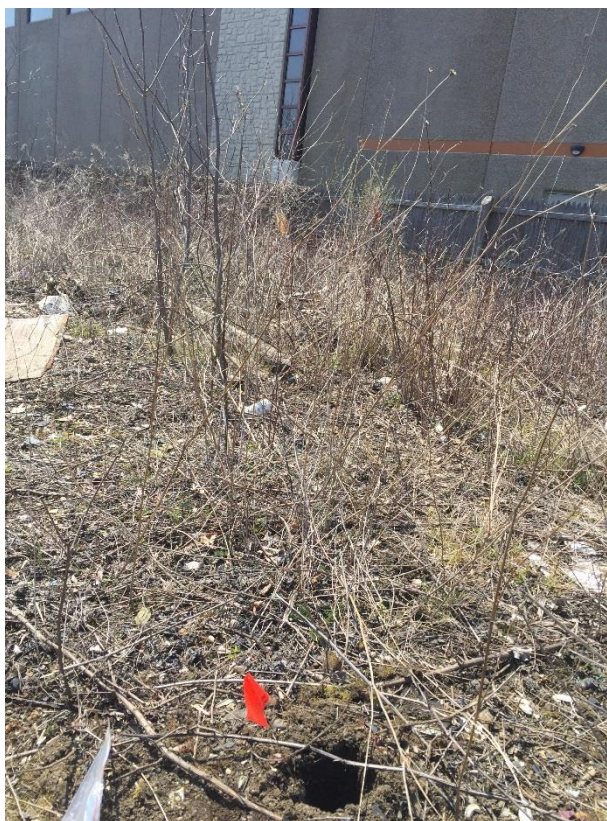
Official Photograph No.24:
Sample location B4 noted and
flagged as a soil sample
location.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: West
Photographer:
Katherine Cooper

Official Photograph No. 25:
Sample location B6 noted and
flagged as a soil sample
location.



Site: Zizzo Properties - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-02-001
OSC: Brad Benning

Date: April 14, 2016
Orientation: West
Photographer:
Katherine Cooper

Official Photograph No. 25:
Sample location B8 noted and
flagged as a soil sample location.



MEMORANDUM

Date: May 25, 2016

To: Brad Benning, OSC, US EPA Region 5
Raghu Nagam, Project Manager, SRS
Superfund Technical Assessment and Response Team (START) for Region 5

Prepared by: Richard Baldino, START QAO for Region 5

QA/QC

Concurrence by:

Subject: Data Validation for
Zizzo Properties
Kenosha, WI
Project TDD No. S05-0001-16-02-001

Laboratory: Pace Analytical, Green bay, WI
Sample Delivery Group (SDG): 40130874

1.0 INTRODUCTION

The START QAO for Region 5 validated analytical data for 24 solid samples for analysis of metals and PCBs. Samples were collected at the Zizzo Properties Site located in Kenosha, WI on April 14, 2016. The samples were analyzed under SDG 40130874 by Pace Analytical of Green bay, WI using U.S. Environmental Protection Agency (U.S. EPA) methods 6010, 7471, and 8082.

Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-014-002, August 2014), NFG for Inorganic Data Review (EPA-540-R-013-001, August 2014), and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Surrogate recoveries
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Inorganic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Duplicate Sample Results
- LCS recovery results
- MS/MSD recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 of this memorandum discusses the results of inorganic data validation. Section 4.0 presents an overall assessment of

the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

2.1 SOLID SAMPLES BY METHOD 8082

2.1.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Solid samples were collected on April 14, 2016 and were received on ice by the laboratory on April 15, 2016. No discrepancies were noted.

2.1.2 SAMPLE PRESERVATION AND HOLDING TIME

PCB samples were analyzed within holding time criteria. No discrepancies were noted.

2.1.3 BLANK RESULTS

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample (1321951BLANK) was run with this SDG. No method blank detects were noted.

2.1.4 SURROGATE RECOVERIES

Laboratory performance on individual samples is established by means of fortifying each sample with surrogate compounds. Surrogate spike compounds included tetrachloro-m-xylene and decachlorobiphenyl. Surrogate recoveries were acceptable. No discrepancies were noted.

2.1.5 MS/MSD RECOVERY RESULTS

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

MS/MSD samples were requested for this SDG. However, high concentrations of PCBs in the native samples interfered with MS/MSD recoveries. No qualification was attempted based on MS/MSD recoveries alone.

2.1.6 LCS/LCSD RECOVERY RESULTS

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD is fortified with Aroclor 1260 and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by Percent Recovery (%R). LCS/LCSD recoveries were acceptable. No discrepancies were noted.

2.1.7 FIELD DUPLICATES

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field. Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Field duplicates for soil samples were not evaluated. No deficiencies were noted.

2.1.8 GENERAL LABORATORY OBSERVATIONS

The laboratory noted that multiple samples were diluted due to high native PCB concentrations. The resulting reporting limits were elevated.

3.0 INORGANIC DATA VALIDATION RESULTS

The results of START's inorganic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted:

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

3.1 SOLID SAMPLES BY METHOD 6010/7471

3.1.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Solid samples were collected on April 14, 2016 and were received on ice by the laboratory on April 15, 2016. No discrepancies were noted.

3.1.2 SAMPLE PRESERVATION AND HOLDING TIME

Samples were analyzed within the holding time criteria. No discrepancies were noted.

3.1.3 BLANK RESULTS

The assessment of blank analysis results is to determine the existence and magnitude of contamination resulting from laboratory and/or field activities. Laboratory method blank samples for methods 6010 (1322636) and 7471 (1323122) were run with this SDG. No method blank detects were noted.

3.1.4 LCS RECOVERY RESULTS

The LCS serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. The LCS is fortified with each analyte of interest and analyzed with each batch of samples. The LCS accuracy performance is measured by %R. LCS recoveries were acceptable. No discrepancies were noted.

3.1.5 MS/MSD RECOVERY RESULTS

The spiked sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The MS/MSD accuracy performance is measured by %R.

MS/MSD recovery discrepancies were noted. However, the native sample concentrations were greater than four times the spike concentrations. No action was taken to qualify analytical data.

3.1.6 FIELD DUPLICATES

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field. Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Field duplicates for soil samples were not evaluated. No deficiencies were noted.

3.1.7 GENERAL LABORATORY OBSERVATIONS

No laboratory observations were noted.

3.2 TCLP SAMPLES BY METHOD 6010/7471

3.2.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Solid samples were collected on April 14, 2016 and were received on ice by the laboratory on April 15, 2016. No discrepancies were noted.

3.2.2 SAMPLE PRESERVATION AND HOLDING TIME

Samples were analyzed within the holding time criteria. No discrepancies were noted.

3.2.3 BLANK RESULTS

The assessment of blank analysis results is to determine the existence and magnitude of contamination resulting from laboratory and/or field activities. Laboratory method blank samples for methods 6010 (1322894) and 7471 (1323420) were run with this SDG. No method blank detects were noted.

3.2.4 LCS RECOVERY RESULTS

The LCS serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. The LCS is fortified with each analyte of interest and analyzed with each batch of samples. The LCS accuracy performance is measured by %R. LCS recoveries were acceptable. No discrepancies were noted.

3.2.5 MS/MSD RECOVERY RESULTS

The spiked sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The MS/MSD accuracy performance is measured by %R. MS recoveries were acceptable. No discrepancies were noted.

3.2.6 FIELD DUPLICATES

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field. Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Field duplicates for TCLP samples were not evaluated. No deficiencies were noted.

3.2.7 GENERAL LABORATORY OBSERVATIONS

No laboratory observations were noted.

4.0 OVERALL ASSESSMENT OF DATA

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.

ATTACHMENT
SUMMARY OF VALIDATED ANALYTICAL RESULTS
AND
CHAIN-OF-CUSTODY

ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A5-02 **Lab ID: 40130874001** Collected: 04/14/16 13:12 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<30.0	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	12674-11-2	
PCB-1221 (Aroclor 1221)	<30.0	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	11104-28-2	
PCB-1232 (Aroclor 1232)	<30.0	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	11141-16-5	
PCB-1242 (Aroclor 1242)	62.1	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	53469-21-9	
PCB-1248 (Aroclor 1248)	<30.0	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	12672-29-6	
PCB-1254 (Aroclor 1254)	182	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	11097-69-1	
PCB-1260 (Aroclor 1260)	84.4	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	11096-82-5	
PCB, Total	329	ug/kg	60.0	30.0	1	04/18/16 11:35	04/19/16 13:25	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	63-130		1	04/18/16 11:35	04/19/16 13:25	877-09-8	
Decachlorobiphenyl (S)	70	%	48-130		1	04/18/16 11:35	04/19/16 13:25	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.1	mg/kg	2.3	0.72	1	04/20/16 08:26	04/21/16 15:51	7440-38-2	
Barium	64.3	mg/kg	0.57	0.14	1	04/20/16 08:26	04/21/16 15:51	7440-39-3	
Cadmium	1.2	mg/kg	0.57	0.075	1	04/20/16 08:26	04/21/16 15:51	7440-43-9	
Chromium	14.9	mg/kg	1.1	0.22	1	04/20/16 08:26	04/21/16 15:51	7440-47-3	
Lead	76.6	mg/kg	1.4	0.49	1	04/20/16 08:26	04/21/16 15:51	7439-92-1	
Selenium	<0.87	mg/kg	2.3	0.87	1	04/20/16 08:26	04/21/16 15:51	7782-49-2	
Silver	<0.32	mg/kg	1.1	0.32	1	04/20/16 08:26	04/21/16 15:51	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:00	7440-38-2	
Barium	<1.2	mg/L	2.5	1.2	1	04/20/16 08:30	04/21/16 17:00	7440-39-3	
Cadmium	0.024J	mg/L	0.025	0.012	1	04/20/16 08:30	04/21/16 17:00	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:00	7440-47-3	
Lead	0.075	mg/L	0.060	0.015	1	04/20/16 08:30	04/21/16 17:00	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:00	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:00	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/20/16 11:00	04/21/16 08:00	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.19	mg/kg	0.029	0.0087	1	04/20/16 14:05	04/21/16 10:45	7439-97-6	C4,M0
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.7	%	0.10	0.10	1		04/22/16 17:59		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A2-02 **Lab ID: 40130874002** Collected: 04/14/16 11:25 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<3110	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	12674-11-2	
PCB-1221 (Aroclor 1221)	<3110	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	11104-28-2	
PCB-1232 (Aroclor 1232)	<3110	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	11141-16-5	
PCB-1242 (Aroclor 1242)	20600	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	53469-21-9	
PCB-1248 (Aroclor 1248)	<3110	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	12672-29-6	
PCB-1254 (Aroclor 1254)	19700	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	11097-69-1	
PCB-1260 (Aroclor 1260)	<3110	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	11096-82-5	
PCB, Total	40300	ug/kg	6220	3110	100	04/18/16 11:35	04/19/16 13:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/18/16 11:35	04/19/16 13:42	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/18/16 11:35	04/19/16 13:42	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	27.3	mg/kg	23.6	7.5	10	04/20/16 08:26	04/22/16 12:02	7440-38-2	
Barium	2000	mg/kg	0.59	0.14	1	04/20/16 08:26	04/21/16 16:00	7440-39-3	
Cadmium	75.9	mg/kg	5.9	0.78	10	04/20/16 08:26	04/22/16 12:02	7440-43-9	
Chromium	267	mg/kg	1.2	0.23	1	04/20/16 08:26	04/21/16 16:00	7440-47-3	
Lead	1750	mg/kg	14.1	5.1	10	04/20/16 08:26	04/22/16 12:02	7439-92-1	
Selenium	2.1J	mg/kg	2.4	0.91	1	04/20/16 08:26	04/21/16 16:00	7782-49-2	
Silver	5.3	mg/kg	1.2	0.33	1	04/20/16 08:26	04/21/16 16:00	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:10	7440-38-2	
Barium	4.2	mg/L	2.5	1.2	1	04/20/16 08:30	04/21/16 17:10	7440-39-3	
Cadmium	0.60	mg/L	0.025	0.012	1	04/20/16 08:30	04/21/16 17:10	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:10	7440-47-3	
Lead	0.90	mg/L	0.060	0.015	1	04/20/16 08:30	04/21/16 17:10	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:10	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:10	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Mercury	0.37J	ug/L	0.60	0.18	1	04/20/16 11:00	04/21/16 08:07	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	10.9	mg/kg	1.5	0.44	50	04/20/16 14:05	04/21/16 13:37	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	19.6	%	0.10	0.10	1		04/22/16 17:59		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A2-03 **Lab ID: 40130874003** Collected: 04/14/16 13:24 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<590	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	<590	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	<590	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	3130	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	<590	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	4690	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	<590	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	11096-82-5	
PCB, Total	7820	ug/kg	1180	590	20	04/18/16 11:35	04/19/16 15:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		20	04/18/16 11:35	04/19/16 15:17	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		20	04/18/16 11:35	04/19/16 15:17	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<7.2	mg/kg	22.5	7.2	10	04/20/16 08:26	04/21/16 18:16	7440-38-2	D3
Barium	434	mg/kg	0.56	0.13	1	04/20/16 08:26	04/21/16 16:03	7440-39-3	
Cadmium	15.3	mg/kg	5.6	0.75	10	04/20/16 08:26	04/21/16 18:16	7440-43-9	
Chromium	77.8	mg/kg	1.1	0.22	1	04/20/16 08:26	04/21/16 16:03	7440-47-3	
Lead	2520	mg/kg	13.5	4.9	10	04/20/16 08:26	04/21/16 18:16	7439-92-1	
Selenium	<0.87	mg/kg	2.3	0.87	1	04/20/16 08:26	04/21/16 16:03	7782-49-2	
Silver	1.8	mg/kg	1.1	0.31	1	04/20/16 08:26	04/21/16 16:03	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:15	7440-38-2	
Barium	<1.2	mg/L	2.5	1.2	1	04/20/16 08:30	04/21/16 17:15	7440-39-3	
Cadmium	0.038	mg/L	0.025	0.012	1	04/20/16 08:30	04/21/16 17:15	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:15	7440-47-3	
Lead	0.15	mg/L	0.060	0.015	1	04/20/16 08:30	04/21/16 17:15	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:15	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:15	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/20/16 11:00	04/21/16 08:09	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	1.8	mg/kg	0.14	0.041	5	04/20/16 14:05	04/21/16 13:40	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.3	%	0.10	0.10	1		04/22/16 17:59		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A4-02 **Lab ID: 40130874004** Collected: 04/14/16 12:00 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<3020	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<3020	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<3020	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	11141-16-5	
PCB-1242 (Aroclor 1242)	28800	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	53469-21-9	
PCB-1248 (Aroclor 1248)	<3020	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	12672-29-6	
PCB-1254 (Aroclor 1254)	<3020	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<3020	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	11096-82-5	
PCB, Total	28800	ug/kg	6040	3020	100	04/18/16 11:35	04/19/16 15:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/18/16 11:35	04/19/16 15:34	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/18/16 11:35	04/19/16 15:34	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<7.2	mg/kg	22.5	7.2	10	04/20/16 08:26	04/21/16 18:18	7440-38-2	D3
Barium	623	mg/kg	0.56	0.13	1	04/20/16 08:26	04/21/16 16:06	7440-39-3	
Cadmium	25.7	mg/kg	5.6	0.75	10	04/20/16 08:26	04/21/16 18:18	7440-43-9	
Chromium	114	mg/kg	1.1	0.22	1	04/20/16 08:26	04/21/16 16:06	7440-47-3	
Lead	1420	mg/kg	13.5	4.8	10	04/20/16 08:26	04/21/16 18:18	7439-92-1	
Selenium	1.1J	mg/kg	2.3	0.87	1	04/20/16 08:26	04/21/16 16:06	7782-49-2	
Silver	3.4	mg/kg	1.1	0.31	1	04/20/16 08:26	04/21/16 16:06	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:17	7440-38-2	
Barium	1.5J	mg/L	2.5	1.2	1	04/20/16 08:30	04/21/16 17:17	7440-39-3	
Cadmium	0.24	mg/L	0.025	0.012	1	04/20/16 08:30	04/21/16 17:17	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:17	7440-47-3	
Lead	4.5	mg/L	0.060	0.015	1	04/20/16 08:30	04/21/16 17:17	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:17	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:17	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/20/16 11:00	04/21/16 08:11	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	1.6	mg/kg	0.14	0.041	5	04/20/16 14:05	04/21/16 11:10	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	17.3	%	0.10	0.10	1		04/22/16 17:59		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B8-02 **Lab ID: 40130874005** Collected: 04/14/16 12:55 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<284	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	12674-11-2	
PCB-1221 (Aroclor 1221)	<284	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	11104-28-2	
PCB-1232 (Aroclor 1232)	<284	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	11141-16-5	
PCB-1242 (Aroclor 1242)	4570	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	53469-21-9	
PCB-1248 (Aroclor 1248)	<284	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	12672-29-6	
PCB-1254 (Aroclor 1254)	<284	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	11097-69-1	
PCB-1260 (Aroclor 1260)	<284	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	11096-82-5	
PCB, Total	4570	ug/kg	568	284	10	04/18/16 11:35	04/19/16 15:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	63-130		10	04/18/16 11:35	04/19/16 15:51	877-09-8	
Decachlorobiphenyl (S)	82	%	48-130		10	04/18/16 11:35	04/19/16 15:51	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<6.9	mg/kg	21.8	6.9	10	04/20/16 08:26	04/21/16 18:21	7440-38-2	D3
Barium	351	mg/kg	0.54	0.13	1	04/20/16 08:26	04/21/16 16:08	7440-39-3	C4
Cadmium	17.0	mg/kg	5.4	0.72	10	04/20/16 08:26	04/21/16 18:21	7440-43-9	
Chromium	1020	mg/kg	1.1	0.21	1	04/20/16 08:26	04/21/16 16:08	7440-47-3	
Lead	1460	mg/kg	13.1	4.7	10	04/20/16 08:26	04/21/16 18:21	7439-92-1	
Selenium	2.2J	mg/kg	2.2	0.84	1	04/20/16 08:26	04/21/16 16:08	7782-49-2	
Silver	4.0J	mg/kg	10.9	3.0	10	04/20/16 08:26	04/21/16 18:21	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:20	7440-38-2	
Barium	2.7	mg/L	2.5	1.2	1	04/20/16 08:30	04/21/16 17:20	7440-39-3	
Cadmium	0.19	mg/L	0.025	0.012	1	04/20/16 08:30	04/21/16 17:20	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:20	7440-47-3	
Lead	3.2	mg/L	0.060	0.015	1	04/20/16 08:30	04/21/16 17:20	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:20	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:20	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/20/16 11:00	04/21/16 08:14	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	1.6	mg/kg	0.13	0.039	5	04/20/16 14:05	04/21/16 11:12	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.0	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B6-02 **Lab ID: 40130874006** Collected: 04/14/16 13:01 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<1550	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	12674-11-2	
PCB-1221 (Aroclor 1221)	<1550	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	11104-28-2	
PCB-1232 (Aroclor 1232)	<1550	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	11141-16-5	
PCB-1242 (Aroclor 1242)	9810	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	53469-21-9	
PCB-1248 (Aroclor 1248)	<1550	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	12672-29-6	
PCB-1254 (Aroclor 1254)	6640	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	11097-69-1	
PCB-1260 (Aroclor 1260)	<1550	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	11096-82-5	
PCB, Total	16500	ug/kg	3100	1550	50	04/18/16 11:35	04/19/16 16:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		50	04/18/16 11:35	04/19/16 16:09	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		50	04/18/16 11:35	04/19/16 16:09	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	12.8J	mg/kg	21.1	6.7	10	04/20/16 08:26	04/21/16 18:23	7440-38-2	D3
Barium	838	mg/kg	0.53	0.13	1	04/20/16 08:26	04/21/16 16:11	7440-39-3	C4
Cadmium	49.0	mg/kg	5.3	0.70	10	04/20/16 08:26	04/21/16 18:23	7440-43-9	
Chromium	234	mg/kg	1.1	0.20	1	04/20/16 08:26	04/21/16 16:11	7440-47-3	
Lead	1070	mg/kg	12.6	4.5	10	04/20/16 08:26	04/21/16 18:23	7439-92-1	
Selenium	0.86J	mg/kg	2.1	0.81	1	04/20/16 08:26	04/21/16 16:11	7782-49-2	
Silver	4.2J	mg/kg	10.5	2.9	10	04/20/16 08:26	04/21/16 18:23	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:22	7440-38-2	
Barium	2.6	mg/L	2.5	1.2	1	04/20/16 08:30	04/21/16 17:22	7440-39-3	
Cadmium	0.73	mg/L	0.025	0.012	1	04/20/16 08:30	04/21/16 17:22	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:22	7440-47-3	
Lead	3.4	mg/L	0.060	0.015	1	04/20/16 08:30	04/21/16 17:22	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:22	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/20/16 08:30	04/21/16 17:22	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/20/16 11:00	04/21/16 08:16	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	12.2	mg/kg	1.4	0.42	50	04/20/16 14:05	04/21/16 13:42	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	19.4	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: FENCE-01 **Lab ID: 40130874007** Collected: 04/14/16 13:48 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<84.3	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<84.3	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<84.3	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	11141-16-5	
PCB-1242 (Aroclor 1242)	689	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<84.3	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	12672-29-6	
PCB-1254 (Aroclor 1254)	735	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	11097-69-1	
PCB-1260 (Aroclor 1260)	192	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	11096-82-5	
PCB, Total	1620	ug/kg	169	84.3	3	04/18/16 11:35	04/19/16 16:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	63-130		3	04/18/16 11:35	04/19/16 16:26	877-09-8	
Decachlorobiphenyl (S)	82	%	48-130		3	04/18/16 11:35	04/19/16 16:26	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<6.6	mg/kg	20.8	6.6	10	04/25/16 17:12	04/26/16 17:57	7440-38-2	
Barium	135	mg/kg	0.52	0.12	1	04/25/16 17:12	04/26/16 18:06	7440-39-3	
Cadmium	8.7	mg/kg	5.2	0.69	10	04/25/16 17:12	04/26/16 17:57	7440-43-9	
Chromium	105	mg/kg	10.4	2.0	10	04/25/16 17:12	04/26/16 17:57	7440-47-3	
Lead	1840	mg/kg	12.5	4.5	10	04/25/16 17:12	04/26/16 17:57	7439-92-1	
Selenium	<8.0	mg/kg	20.8	8.0	10	04/25/16 17:12	04/26/16 17:57	7782-49-2	
Silver	7.0J	mg/kg	10.4	2.9	10	04/25/16 17:12	04/26/16 17:57	7440-22-4	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:19	7440-38-2	
Barium	<1.2	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:19	7440-39-3	
Cadmium	0.068	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:19	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:19	7440-47-3	
Lead	0.48	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:19	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:19	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:19	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:28	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.96	mg/kg	0.14	0.041	5	04/20/16 14:05	04/21/16 11:23	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	11.0	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: FENCE-02 **Lab ID: 40130874008** Collected: 04/14/16 13:50 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<15000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	12674-11-2	
PCB-1221 (Aroclor 1221)	<15000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	11104-28-2	
PCB-1232 (Aroclor 1232)	<15000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	11141-16-5	
PCB-1242 (Aroclor 1242)	101000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	53469-21-9	
PCB-1248 (Aroclor 1248)	<15000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	12672-29-6	
PCB-1254 (Aroclor 1254)	<15000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	11097-69-1	
PCB-1260 (Aroclor 1260)	<15000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	11096-82-5	
PCB, Total	101000	ug/kg	30100	15000	500	04/18/16 11:35	04/19/16 16:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		500	04/18/16 11:35	04/19/16 16:43	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		500	04/18/16 11:35	04/19/16 16:43	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	60.9	mg/kg	21.5	6.9	10	04/20/16 08:26	04/21/16 16:14	7440-38-2	
Barium	185	mg/kg	5.4	1.3	10	04/20/16 08:26	04/21/16 16:14	7440-39-3	
Cadmium	4.4J	mg/kg	5.4	0.71	10	04/20/16 08:26	04/21/16 16:14	7440-43-9	D3
Chromium	36.7	mg/kg	10.8	2.1	10	04/20/16 08:26	04/21/16 16:14	7440-47-3	
Lead	310	mg/kg	12.9	4.6	10	04/20/16 08:26	04/21/16 16:14	7439-92-1	
Selenium	<8.3	mg/kg	21.5	8.3	10	04/20/16 08:26	04/21/16 16:14	7782-49-2	D3
Silver	<3.0	mg/kg	10.8	3.0	10	04/20/16 08:26	04/21/16 16:14	7440-22-4	C4,D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:33	7440-38-2	
Barium	<1.2	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:33	7440-39-3	
Cadmium	0.025J	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:33	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:33	7440-47-3	
Lead	0.058J	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:33	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:33	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:33	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:35	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	2.3	mg/kg	0.30	0.088	10	04/20/16 14:05	04/21/16 13:44	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.9	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A3-02 **Lab ID: 40130874009** Collected: 04/14/16 11:32 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<3360	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	12674-11-2	
PCB-1221 (Aroclor 1221)	<3360	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	11104-28-2	
PCB-1232 (Aroclor 1232)	<3360	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	11141-16-5	
PCB-1242 (Aroclor 1242)	21100	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	53469-21-9	
PCB-1248 (Aroclor 1248)	<3360	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	12672-29-6	
PCB-1254 (Aroclor 1254)	11800	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	11097-69-1	
PCB-1260 (Aroclor 1260)	<3360	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	11096-82-5	
PCB, Total	33000	ug/kg	6730	3360	100	04/18/16 11:35	04/19/16 17:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/18/16 11:35	04/19/16 17:01	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/18/16 11:35	04/19/16 17:01	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<8.4	mg/kg	26.3	8.4	10	04/20/16 08:26	04/21/16 18:25	7440-38-2	D3
Barium	1330	mg/kg	0.66	0.16	1	04/20/16 08:26	04/21/16 16:16	7440-39-3	
Cadmium	57.0	mg/kg	6.6	0.87	10	04/20/16 08:26	04/21/16 18:25	7440-43-9	
Chromium	233	mg/kg	13.1	2.5	10	04/20/16 08:26	04/21/16 18:25	7440-47-3	
Lead	1400	mg/kg	15.8	5.7	10	04/20/16 08:26	04/21/16 18:25	7439-92-1	
Selenium	3.8	mg/kg	2.6	1.0	1	04/20/16 08:26	04/21/16 16:16	7782-49-2	
Silver	5.7	mg/kg	1.3	0.37	1	04/20/16 08:26	04/21/16 16:16	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:38	7440-38-2	
Barium	3.9	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:38	7440-39-3	
Cadmium	0.51	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:38	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:38	7440-47-3	
Lead	0.97	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:38	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:38	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:38	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:37	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	37.9	mg/kg	3.3	0.98	100	04/20/16 14:05	04/21/16 13:47	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	25.7	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A7-02 **Lab ID: 40130874010** Collected: 04/14/16 12:58 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<30.4	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	12674-11-2	
PCB-1221 (Aroclor 1221)	<30.4	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	11104-28-2	
PCB-1232 (Aroclor 1232)	<30.4	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	11141-16-5	
PCB-1242 (Aroclor 1242)	267	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	53469-21-9	
PCB-1248 (Aroclor 1248)	<30.4	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	12672-29-6	
PCB-1254 (Aroclor 1254)	487	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	11097-69-1	
PCB-1260 (Aroclor 1260)	409	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	11096-82-5	
PCB, Total	1160	ug/kg	60.7	30.4	1	04/18/16 11:35	04/19/16 17:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	63-130		1	04/18/16 11:35	04/19/16 17:18	877-09-8	
Decachlorobiphenyl (S)	80	%	48-130		1	04/18/16 11:35	04/19/16 17:18	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	12.9J	mg/kg	21.1	6.7	10	04/20/16 08:26	04/21/16 16:19	7440-38-2	D3
Barium	283	mg/kg	5.3	1.3	10	04/20/16 08:26	04/21/16 16:19	7440-39-3	
Cadmium	10.9	mg/kg	5.3	0.70	10	04/20/16 08:26	04/21/16 16:19	7440-43-9	
Chromium	92.8	mg/kg	10.5	2.0	10	04/20/16 08:26	04/21/16 16:19	7440-47-3	
Lead	414	mg/kg	12.6	4.5	10	04/20/16 08:26	04/21/16 16:19	7439-92-1	
Selenium	<8.1	mg/kg	21.1	8.1	10	04/20/16 08:26	04/21/16 16:19	7782-49-2	D3
Silver	<2.9	mg/kg	10.5	2.9	10	04/20/16 08:26	04/21/16 16:19	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:41	7440-38-2	
Barium	1.6J	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:41	7440-39-3	
Cadmium	0.051	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:41	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:41	7440-47-3	
Lead	0.18	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:41	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:41	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:41	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:39	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.38	mg/kg	0.14	0.041	5	04/20/16 14:05	04/21/16 14:31	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	17.7	%	0.10	0.10	1		04/22/16 18:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B4-02 Lab ID: 40130874011 Collected: 04/14/16 11:46 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<5970	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	12674-11-2	
PCB-1221 (Aroclor 1221)	<5970	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	11104-28-2	
PCB-1232 (Aroclor 1232)	<5970	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	11141-16-5	
PCB-1242 (Aroclor 1242)	38600	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	53469-21-9	
PCB-1248 (Aroclor 1248)	<5970	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	12672-29-6	
PCB-1254 (Aroclor 1254)	<5970	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	11097-69-1	
PCB-1260 (Aroclor 1260)	<5970	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	11096-82-5	
PCB, Total	38600	ug/kg	11900	5970	200	04/18/16 11:35	04/19/16 17:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		200	04/18/16 11:35	04/19/16 17:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		200	04/18/16 11:35	04/19/16 17:36	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	13.3J	mg/kg	21.3	6.8	10	04/20/16 08:26	04/21/16 18:28	7440-38-2	D3
Barium	667	mg/kg	0.53	0.13	1	04/20/16 08:26	04/21/16 16:22	7440-39-3	
Cadmium	39.1	mg/kg	5.3	0.70	10	04/20/16 08:26	04/21/16 18:28	7440-43-9	
Chromium	135	mg/kg	1.1	0.21	1	04/20/16 08:26	04/21/16 16:22	7440-47-3	
Lead	1400	mg/kg	12.8	4.6	10	04/20/16 08:26	04/21/16 18:28	7439-92-1	
Selenium	1.7J	mg/kg	2.1	0.82	1	04/20/16 08:26	04/21/16 16:22	7782-49-2	
Silver	7.3	mg/kg	1.1	0.30	1	04/20/16 08:26	04/21/16 16:22	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:43	7440-38-2	
Barium	2.5	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:43	7440-39-3	
Cadmium	0.36	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:43	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:43	7440-47-3	
Lead	0.99	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:43	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:43	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:43	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:42	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	7.7	mg/kg	1.4	0.42	50	04/20/16 14:05	04/21/16 13:49	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.3	%	0.10	0.10	1		04/22/16 18:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A1-02 **Lab ID: 40130874012** Collected: 04/14/16 11:10 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<6440	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	12674-11-2	
PCB-1221 (Aroclor 1221)	<6440	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	11104-28-2	
PCB-1232 (Aroclor 1232)	<6440	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	11141-16-5	
PCB-1242 (Aroclor 1242)	31100	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	53469-21-9	
PCB-1248 (Aroclor 1248)	<6440	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	12672-29-6	
PCB-1254 (Aroclor 1254)	33800	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	11097-69-1	
PCB-1260 (Aroclor 1260)	<6440	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	11096-82-5	
PCB, Total	64900	ug/kg	12900	6440	200	04/18/16 11:35	04/19/16 17:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		200	04/18/16 11:35	04/19/16 17:53	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		200	04/18/16 11:35	04/19/16 17:53	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<7.3	mg/kg	22.9	7.3	10	04/20/16 08:26	04/21/16 18:30	7440-38-2	D3
Barium	3970	mg/kg	5.7	1.4	10	04/20/16 08:26	04/21/16 18:30	7440-39-3	
Cadmium	65.0	mg/kg	5.7	0.76	10	04/20/16 08:26	04/21/16 18:30	7440-43-9	
Chromium	516	mg/kg	11.4	2.2	10	04/20/16 08:26	04/21/16 18:30	7440-47-3	
Lead	1830	mg/kg	13.7	4.9	10	04/20/16 08:26	04/21/16 18:30	7439-92-1	
Selenium	2.6	mg/kg	2.3	0.88	1	04/20/16 08:26	04/21/16 16:29	7782-49-2	C4
Silver	4.3J	mg/kg	11.4	3.2	10	04/20/16 08:26	04/21/16 18:30	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:46	7440-38-2	
Barium	3.6	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:46	7440-39-3	
Cadmium	0.61	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:46	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:46	7440-47-3	
Lead	0.58	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:46	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:46	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:46	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	0.35J	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:44	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	12.1	mg/kg	3.2	0.94	100	04/20/16 14:05	04/21/16 13:51	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	22.4	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B4-03 Lab ID: 40130874013 Collected: 04/14/16 13:16 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<1050	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	12674-11-2	
PCB-1221 (Aroclor 1221)	<1050	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	11104-28-2	
PCB-1232 (Aroclor 1232)	<1050	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	11141-16-5	
PCB-1242 (Aroclor 1242)	8120	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	53469-21-9	
PCB-1248 (Aroclor 1248)	<1050	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	12672-29-6	
PCB-1254 (Aroclor 1254)	9860	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	11097-69-1	
PCB-1260 (Aroclor 1260)	<1050	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	11096-82-5	
PCB, Total	18000	ug/kg	2090	1050	30	04/18/16 11:35	04/19/16 18:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		30	04/18/16 11:35	04/19/16 18:10	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		30	04/18/16 11:35	04/19/16 18:10	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	9.1J	mg/kg	23.9	7.6	10	04/20/16 08:26	04/21/16 18:32	7440-38-2	D3
Barium	690	mg/kg	0.60	0.14	1	04/20/16 08:26	04/21/16 16:32	7440-39-3	
Cadmium	52.7	mg/kg	6.0	0.79	10	04/20/16 08:26	04/21/16 18:32	7440-43-9	
Chromium	163	mg/kg	1.2	0.23	1	04/20/16 08:26	04/21/16 16:32	7440-47-3	
Lead	1580	mg/kg	14.3	5.1	10	04/20/16 08:26	04/21/16 18:32	7439-92-1	
Selenium	1.3J	mg/kg	2.4	0.92	1	04/20/16 08:26	04/21/16 16:32	7782-49-2	
Silver	33.8	mg/kg	1.2	0.33	1	04/20/16 08:26	04/21/16 16:32	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:48	7440-38-2	
Barium	2.5J	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:48	7440-39-3	
Cadmium	0.43	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:48	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:48	7440-47-3	
Lead	0.28	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:48	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:48	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:48	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:51	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	6.1	mg/kg	1.6	0.47	50	04/20/16 14:05	04/21/16 13:58	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	28.2	%	0.10	0.10	1		04/22/16 18:00		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B3-02 **Lab ID: 40130874014** Collected: 04/14/16 11:41 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<274	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	12674-11-2	
PCB-1221 (Aroclor 1221)	<274	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	11104-28-2	
PCB-1232 (Aroclor 1232)	<274	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	11141-16-5	
PCB-1242 (Aroclor 1242)	3390	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	53469-21-9	
PCB-1248 (Aroclor 1248)	<274	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	12672-29-6	
PCB-1254 (Aroclor 1254)	2560	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	11097-69-1	
PCB-1260 (Aroclor 1260)	<274	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	11096-82-5	
PCB, Total	5950	ug/kg	549	274	10	04/18/16 11:35	04/19/16 18:28	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	63-130		10	04/18/16 11:35	04/19/16 18:28	877-09-8	
Decachlorobiphenyl (S)	105	%	48-130		10	04/18/16 11:35	04/19/16 18:28	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	17.8J	mg/kg	18.8	6.0	10	04/20/16 08:26	04/21/16 18:34	7440-38-2	D3
Barium	1370	mg/kg	0.47	0.11	1	04/20/16 08:26	04/21/16 16:35	7440-39-3	C4
Cadmium	16.9	mg/kg	4.7	0.62	10	04/20/16 08:26	04/21/16 18:34	7440-43-9	
Chromium	707	mg/kg	9.4	1.8	10	04/20/16 08:26	04/21/16 18:34	7440-47-3	
Lead	512	mg/kg	11.3	4.0	10	04/20/16 08:26	04/21/16 18:34	7439-92-1	
Selenium	<7.2	mg/kg	18.8	7.2	10	04/20/16 08:26	04/21/16 18:34	7782-49-2	D3
Silver	5.6J	mg/kg	9.4	2.6	10	04/20/16 08:26	04/21/16 18:34	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:51	7440-38-2	
Barium	3.7	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:51	7440-39-3	
Cadmium	0.15	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:51	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:51	7440-47-3	
Lead	0.060J	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:51	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:51	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:51	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:53	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	3.2	mg/kg	0.67	0.20	25	04/20/16 14:05	04/21/16 14:01	7439-97-6	C4,P6
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	8.9	%	0.10	0.10	1		04/22/16 18:01		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B4-01 **Lab ID: 40130874015** Collected: 04/14/16 11:46 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<5810	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<5810	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<5810	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	11141-16-5	
PCB-1242 (Aroclor 1242)	24100	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	53469-21-9	
PCB-1248 (Aroclor 1248)	<5810	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	12672-29-6	
PCB-1254 (Aroclor 1254)	<5810	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<5810	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	11096-82-5	
PCB, Total	24100	ug/kg	11600	5810	200	04/18/16 11:35	04/19/16 18:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		200	04/18/16 11:35	04/19/16 18:45	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		200	04/18/16 11:35	04/19/16 18:45	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	21.3J	mg/kg	21.3	6.8	10	04/20/16 08:26	04/21/16 18:41	7440-38-2	D3
Barium	790	mg/kg	0.53	0.13	1	04/20/16 08:26	04/21/16 16:37	7440-39-3	
Cadmium	31.5	mg/kg	5.3	0.70	10	04/20/16 08:26	04/21/16 18:41	7440-43-9	
Chromium	233	mg/kg	1.1	0.21	1	04/20/16 08:26	04/21/16 16:37	7440-47-3	
Lead	2210	mg/kg	12.8	4.6	10	04/20/16 08:26	04/21/16 18:41	7439-92-1	
Selenium	3.1	mg/kg	2.1	0.82	1	04/20/16 08:26	04/21/16 16:37	7782-49-2	
Silver	10.3	mg/kg	1.1	0.30	1	04/20/16 08:26	04/21/16 16:37	7440-22-4	C4
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:53	7440-38-2	
Barium	2.2J	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 17:53	7440-39-3	
Cadmium	0.47	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 17:53	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:53	7440-47-3	
Lead	1.6	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 17:53	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:53	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 17:53	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 08:56	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	6.4	mg/kg	0.67	0.20	25	04/20/16 14:05	04/21/16 14:08	7439-97-6	C4
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	13.9	%	0.10	0.10	1		04/22/16 18:01		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A6-01 **Lab ID: 40130874016** Collected: 04/14/16 12:35 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	12674-11-2	
PCB-1221 (Aroclor 1221)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	11104-28-2	
PCB-1232 (Aroclor 1232)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	11141-16-5	
PCB-1242 (Aroclor 1242)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	53469-21-9	
PCB-1248 (Aroclor 1248)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	12672-29-6	
PCB-1254 (Aroclor 1254)	21200	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	11097-69-1	
PCB-1260 (Aroclor 1260)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	11096-82-5	
PCB, Total	21200	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 18:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/19/16 11:36	04/22/16 18:44	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/19/16 11:36	04/22/16 18:44	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	8.6J	mg/kg	22.2	7.1	10	04/20/16 08:26	04/21/16 18:44	7440-38-2	D3
Barium	387	mg/kg	0.56	0.13	1	04/20/16 08:26	04/21/16 16:40	7440-39-3	
Cadmium	24.7	mg/kg	5.6	0.74	10	04/20/16 08:26	04/21/16 18:44	7440-43-9	
Chromium	419	mg/kg	1.1	0.22	1	04/20/16 08:26	04/21/16 16:40	7440-47-3	
Lead	1280	mg/kg	13.3	4.8	10	04/20/16 08:26	04/21/16 18:44	7439-92-1	
Selenium	<0.86	mg/kg	2.2	0.86	1	04/20/16 08:26	04/21/16 16:40	7782-49-2	
Silver	2.4	mg/kg	1.1	0.31	1	04/20/16 08:26	04/21/16 16:40	7440-22-4	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:03	7440-38-2	
Barium	1.3J	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:03	7440-39-3	
Cadmium	0.21	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:03	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:03	7440-47-3	
Lead	1.1	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:03	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:03	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:03	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:00	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	4.3	mg/kg	0.74	0.22	25	04/20/16 14:05	04/21/16 14:10	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	18.3	%	0.10	0.10	1		04/22/16 18:01		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A2-04 **Lab ID: 40130874017** Collected: 04/14/16 13:32 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	12674-11-2	
PCB-1221 (Aroclor 1221)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	11104-28-2	
PCB-1232 (Aroclor 1232)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	11141-16-5	
PCB-1242 (Aroclor 1242)	30600	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	53469-21-9	
PCB-1248 (Aroclor 1248)	<3060	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	12672-29-6	
PCB-1254 (Aroclor 1254)	24300	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	11097-69-1	
PCB-1260 (Aroclor 1260)	4070J	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	11096-82-5	M6
PCB, Total	59000	ug/kg	6120	3060	100	04/19/16 11:36	04/22/16 19:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/19/16 11:36	04/22/16 19:03	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/19/16 11:36	04/22/16 19:03	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	17.8J	mg/kg	24.1	7.7	10	04/20/16 08:26	04/21/16 18:46	7440-38-2	D3
Barium	2070	mg/kg	0.60	0.14	1	04/20/16 08:26	04/21/16 16:43	7440-39-3	
Cadmium	54.8	mg/kg	6.0	0.80	10	04/20/16 08:26	04/21/16 18:46	7440-43-9	
Chromium	262	mg/kg	12.0	2.3	10	04/20/16 08:26	04/21/16 18:46	7440-47-3	
Lead	9280	mg/kg	14.4	5.2	10	04/20/16 08:26	04/21/16 18:46	7439-92-1	
Selenium	13.7	mg/kg	2.4	0.93	1	04/20/16 08:26	04/21/16 16:43	7782-49-2	
Silver	4.2	mg/kg	1.2	0.33	1	04/20/16 08:26	04/21/16 16:43	7440-22-4	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:05	7440-38-2	
Barium	5.0	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:05	7440-39-3	
Cadmium	0.62	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:05	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:05	7440-47-3	
Lead	1.3	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:05	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:05	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:05	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:02	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	23.2	mg/kg	2.9	0.86	100	04/20/16 14:05	04/21/16 14:12	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	18.3	%	0.10	0.10	1		04/22/16 18:01		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A8-01 **Lab ID: 40130874018** Collected: 04/14/16 12:48 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<114	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	12674-11-2	
PCB-1221 (Aroclor 1221)	<114	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	11104-28-2	
PCB-1232 (Aroclor 1232)	<114	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	11141-16-5	
PCB-1242 (Aroclor 1242)	419	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	53469-21-9	
PCB-1248 (Aroclor 1248)	<114	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	12672-29-6	
PCB-1254 (Aroclor 1254)	1360	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	11097-69-1	
PCB-1260 (Aroclor 1260)	378	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	11096-82-5	
PCB, Total	2160	ug/kg	228	114	4	04/19/16 11:36	04/22/16 19:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	63-130		4	04/19/16 11:36	04/22/16 19:22	877-09-8	
Decachlorobiphenyl (S)	66	%	48-130		4	04/19/16 11:36	04/22/16 19:22	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<7.0	mg/kg	21.9	7.0	10	04/20/16 08:26	04/21/16 18:48	7440-38-2	D3
Barium	169	mg/kg	0.55	0.13	1	04/20/16 08:26	04/21/16 16:46	7440-39-3	
Cadmium	9.2	mg/kg	5.5	0.73	10	04/20/16 08:26	04/21/16 18:48	7440-43-9	
Chromium	1180	mg/kg	11.0	2.1	10	04/20/16 08:26	04/21/16 18:48	7440-47-3	
Lead	717	mg/kg	13.1	4.7	10	04/20/16 08:26	04/21/16 18:48	7439-92-1	
Selenium	<8.4	mg/kg	21.9	8.4	10	04/20/16 08:26	04/21/16 18:48	7782-49-2	D3
Silver	<3.0	mg/kg	11.0	3.0	10	04/20/16 08:26	04/21/16 18:48	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:08	7440-38-2	
Barium	<1.2	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:08	7440-39-3	
Cadmium	0.051	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:08	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:08	7440-47-3	
Lead	0.11	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:08	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:08	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:08	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:05	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.66	mg/kg	0.14	0.041	5	04/20/16 14:05	04/21/16 14:33	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.4	%	0.10	0.10	1		04/22/16 18:01		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: A2-01 **Lab ID: 40130874019** Collected: 04/14/16 13:41 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<3260	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	12674-11-2	
PCB-1221 (Aroclor 1221)	<3260	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	11104-28-2	
PCB-1232 (Aroclor 1232)	<3260	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	11141-16-5	
PCB-1242 (Aroclor 1242)	29200	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	53469-21-9	
PCB-1248 (Aroclor 1248)	<3260	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	12672-29-6	
PCB-1254 (Aroclor 1254)	27100	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	11097-69-1	
PCB-1260 (Aroclor 1260)	<3260	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	11096-82-5	
PCB, Total	56300	ug/kg	6510	3260	100	04/19/16 11:36	04/22/16 19:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/19/16 11:36	04/22/16 19:41	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/19/16 11:36	04/22/16 19:41	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	80.3	mg/kg	26.0	8.3	10	04/20/16 08:26	04/21/16 15:30	7440-38-2	M0,R1
Barium	1750	mg/kg	6.5	1.6	10	04/20/16 08:26	04/21/16 15:30	7440-39-3	P6
Cadmium	61.4	mg/kg	6.5	0.86	10	04/20/16 08:26	04/21/16 15:30	7440-43-9	M0
Chromium	262	mg/kg	1.3	0.25	1	04/20/16 08:26	04/21/16 15:39	7440-47-3	P6
Lead	2130	mg/kg	15.6	5.6	10	04/20/16 08:26	04/21/16 15:30	7439-92-1	P6,R1
Selenium	<1.0	mg/kg	2.6	1.0	1	04/20/16 08:26	04/21/16 15:39	7782-49-2	
Silver	4.8	mg/kg	1.3	0.36	1	04/20/16 08:26	04/21/16 15:39	7440-22-4	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:10	7440-38-2	
Barium	3.7	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:10	7440-39-3	
Cadmium	0.61	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:10	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:10	7440-47-3	
Lead	1.0	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:10	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:10	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:10	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:07	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	16.2	mg/kg	1.6	0.47	50	04/20/16 14:05	04/21/16 14:14	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	23.2	%	0.10	0.10	1		04/22/16 18:01		

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B3-01 **Lab ID: 40130874020** Collected: 04/14/16 13:28 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<2910	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	12674-11-2	
PCB-1221 (Aroclor 1221)	<2910	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	11104-28-2	
PCB-1232 (Aroclor 1232)	<2910	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	11141-16-5	
PCB-1242 (Aroclor 1242)	21600	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	53469-21-9	
PCB-1248 (Aroclor 1248)	<2910	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	12672-29-6	
PCB-1254 (Aroclor 1254)	17200	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	11097-69-1	
PCB-1260 (Aroclor 1260)	3200J	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	11096-82-5	
PCB, Total	42000	ug/kg	5810	2910	100	04/19/16 11:36	04/22/16 20:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	63-130		100	04/19/16 11:36	04/22/16 20:00	877-09-8	S4
Decachlorobiphenyl (S)	0	%	48-130		100	04/19/16 11:36	04/22/16 20:00	2051-24-3	S4
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	15.9J	mg/kg	23.1	7.3	10	04/20/16 08:26	04/21/16 18:51	7440-38-2	D3
Barium	1160	mg/kg	0.58	0.14	1	04/20/16 08:26	04/21/16 16:48	7440-39-3	
Cadmium	37.7	mg/kg	5.8	0.76	10	04/20/16 08:26	04/21/16 18:51	7440-43-9	
Chromium	157	mg/kg	1.2	0.22	1	04/20/16 08:26	04/21/16 16:48	7440-47-3	
Lead	1400	mg/kg	13.8	5.0	10	04/20/16 08:26	04/21/16 18:51	7439-92-1	
Selenium	0.97J	mg/kg	2.3	0.89	1	04/20/16 08:26	04/21/16 16:48	7782-49-2	
Silver	4.6	mg/kg	1.2	0.32	1	04/20/16 08:26	04/21/16 16:48	7440-22-4	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:13	7440-38-2	
Barium	3.0	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:13	7440-39-3	
Cadmium	0.49	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:13	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:13	7440-47-3	
Lead	4.2	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:13	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:13	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:13	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:09	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	8.0	mg/kg	0.70	0.21	25	04/20/16 14:05	04/21/16 14:17	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	14.0	%	0.10	0.10	1		04/22/16 18:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B7-01 **Lab ID: 40130874021** Collected: 04/14/16 12:31 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<146	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	12674-11-2	
PCB-1221 (Aroclor 1221)	<146	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	11104-28-2	
PCB-1232 (Aroclor 1232)	<146	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	11141-16-5	
PCB-1242 (Aroclor 1242)	2240	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	53469-21-9	
PCB-1248 (Aroclor 1248)	<146	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	12672-29-6	
PCB-1254 (Aroclor 1254)	1730	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	11097-69-1	
PCB-1260 (Aroclor 1260)	563	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	11096-82-5	
PCB, Total	4530	ug/kg	292	146	5	04/19/16 11:36	04/22/16 20:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	63-130		5	04/19/16 11:36	04/22/16 20:20	877-09-8	
Decachlorobiphenyl (S)	75	%	48-130		5	04/19/16 11:36	04/22/16 20:20	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	16.8J	mg/kg	23.3	7.4	10	04/26/16 17:06	04/27/16 15:40	7440-38-2	D3
Barium	734	mg/kg	5.8	1.4	10	04/26/16 17:06	04/27/16 15:40	7440-39-3	
Cadmium	41.2	mg/kg	5.8	0.77	10	04/26/16 17:06	04/27/16 15:40	7440-43-9	
Chromium	399	mg/kg	11.6	2.3	10	04/26/16 17:06	04/27/16 15:40	7440-47-3	
Lead	1320	mg/kg	14.0	5.0	10	04/26/16 17:06	04/27/16 15:40	7439-92-1	
Selenium	<9.0	mg/kg	23.3	9.0	10	04/26/16 17:06	04/27/16 15:40	7782-49-2	D3
Silver	4.3J	mg/kg	11.6	3.2	10	04/26/16 17:06	04/27/16 15:40	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:15	7440-38-2	
Barium	1.5J	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:15	7440-39-3	
Cadmium	0.67	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:15	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:15	7440-47-3	
Lead	4.2	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:15	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:15	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:15	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:12	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	1.1	mg/kg	0.14	0.041	5	04/20/16 14:05	04/21/16 14:36	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	14.2	%	0.10	0.10	1		04/22/16 18:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ZIZZO PROPERTIES

Pace Project No.: 40130874

Sample: B6-01 **Lab ID: 40130874022** Collected: 04/14/16 12:23 Received: 04/15/16 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<146	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<146	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<146	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	11141-16-5	
PCB-1242 (Aroclor 1242)	1360	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<146	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	12672-29-6	
PCB-1254 (Aroclor 1254)	2450	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	11097-69-1	
PCB-1260 (Aroclor 1260)	1050	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	11096-82-5	
PCB, Total	4860	ug/kg	291	146	5	04/19/16 11:36	04/22/16 20:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	63-130		5	04/19/16 11:36	04/22/16 20:39	877-09-8	
Decachlorobiphenyl (S)	95	%	48-130		5	04/19/16 11:36	04/22/16 20:39	2051-24-3	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	9.9J	mg/kg	21.4	6.8	10	04/25/16 17:12	04/26/16 18:04	7440-38-2	D3
Barium	312	mg/kg	0.53	0.13	1	04/25/16 17:12	04/26/16 18:19	7440-39-3	
Cadmium	44.7	mg/kg	5.3	0.71	10	04/25/16 17:12	04/26/16 18:04	7440-43-9	
Chromium	118	mg/kg	1.1	0.21	1	04/25/16 17:12	04/26/16 18:19	7440-47-3	
Lead	659	mg/kg	12.8	4.6	10	04/25/16 17:12	04/26/16 18:04	7439-92-1	
Selenium	<0.82	mg/kg	2.1	0.82	1	04/25/16 17:12	04/26/16 18:19	7782-49-2	
Silver	3.4J	mg/kg	10.7	3.0	10	04/25/16 17:12	04/26/16 18:04	7440-22-4	D3
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Arsenic	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:18	7440-38-2	
Barium	1.3J	mg/L	2.5	1.2	1	04/21/16 08:07	04/22/16 18:18	7440-39-3	
Cadmium	0.73	mg/L	0.025	0.012	1	04/21/16 08:07	04/22/16 18:18	7440-43-9	
Chromium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:18	7440-47-3	
Lead	4.8	mg/L	0.060	0.015	1	04/21/16 08:07	04/22/16 18:18	7439-92-1	
Selenium	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:18	7782-49-2	
Silver	<0.12	mg/L	0.25	0.12	1	04/21/16 08:07	04/22/16 18:18	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/19/16 00:00									
Mercury	<0.18	ug/L	0.60	0.18	1	04/21/16 12:30	04/22/16 09:19	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	9.6	mg/kg	1.4	0.41	50	04/20/16 14:05	04/21/16 14:19	7439-97-6	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	14.1	%	0.10	0.10	1		04/22/16 18:26		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Sustainment & Restoration Services LLC
 Branch/Location: Services LLC
 Project Contact: Richard Baldino
 Phone: (312) 220-7171 x2223

Project Number: —
 Project Name: Z1220 Properties
 Project State: WI
 Sampled By (Print): Katharine Cooper
 Sampled By (Sign): Katharine Cooper

PO #: —
 Regulatory Program: —

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD (billable)
☐ On your sample
☐ NOT needed on your sample

Matrix Codes
 A = Air B = Biota C = Charcoal O = Oil S = Soil
 W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WP = Waste Water

PAGE LAB # CLIENT FIELD ID DATE TIME MATRIX

001 A5-02 4-14 1312

002 A5-02 A202 4-14 1125

003 A3-04 A3-03* 4-14 1324

004 A4-02 4-14 1200

005 B8-02 4-14 1255

006 8BL-02 4-14 161301

007 Fence-01 4-14 161348

008 Fence-02 4-14 161350

009 A3-02 4-14 161132

010 A7-02 4-14 161258

011 48-02 84-03* 4-14 161146

012 A1-02 4-14 161110

013 84-02 84-03* 4-14 161316

CHAIN OF CUSTODY

FACE Analytical
 www.facelabs.com

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Filtered? (YES/NO)
 PRESERVATION (CODE)

Analyses Requested

Total RCRA Metals
 TCLP Metals
 PCBs

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Transfer bag samples to jars in lab

1-2106

Richard Baldino

SRS

79 W. Monroe St Suite 1119 Chicago IL 60603

Amy Lee Ford

SRS

1033 N. May Fair Rd Suite 200 Milwaukee WI 53226

(414) 607-6752

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www.ozcelabs.com

***Preservation Codes**

A=None	B=HCL	C=H2SO4	D=HNO3	E=DI Water	F=Methanol	G=NaOH
H= Sodium Bisulfate Solution						
I= Sodium Thiosulfate						
J=Other						

ORIGINAL



Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Condition Upon Receipt

Client Name: SRS Project # 4030874

Additional Comments/Resolution: _____

ID's
Correct
on
front
label
BH
4/15/16

016	- Sample IDs "A6"
018	- Sample IDs "A8"
019	- Sample IDs "A2"
020	- Sample IDs "B3"
021	- Sample IDs "B7" no time on samples
022	- Sample IDs "B6"

BH 4/15/16

All 4ozag^A have times on cap (except 021) but
no time on label BH 4/15/16

Project Manager Review: _____

Date: 4/15/16

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: **WO#: 40130874**

Client Name: SRS

Courier: ☒ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: _____

Tracking #: 7761 1365 9119



Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR-45 Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

Cooler Temperature Uncorr: 3.5 / Corr: 3.5 Biological Tissue is Frozen: ☐ yes ☒ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:

Date: 4/15/16

Initials: BH

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	001-015 arrived in ziplocks BH 4/15/16
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2; NaOH+ZnAct ≥9, NaOH ≥12) exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Initial when completed	Lab Std #ID of preservative	Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments ☒

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 4/15/16