The Johnson Company
ENVIRONMENTAL SCIENCE AND ENGINEERING SOLUTIONS

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November 04, 2015

Jesse Bridges
Parks Project Coordinator
Burlington Parks, Recreation & Waterfront
645 Pine Street, Suite B
Burlington, Vermont 05401

Re: Technical Narrative of September 2015 Alden Waterfront
Soil and Groundwater Assessment
Burlington, Vermont
JCO Project #: 3-3049-03
VTDEC SMS #: 2015-4595

Dear Mr. Bridges:

The Johnson Company (JCO) is pleased to provide the following Technical Narrative which summarizes our September 2015 assessment of soil and groundwater associated with the Alden Waterfront parcel in Burlington (the Site). In the interest of expediting the presentation of results, this Technical Narrative was prepared at the request of the Environmental Protection Agency (EPA) to present the assessment data so that the future jurisdiction (EPA or DEC) of the stockpiled and in-situ soils may be determined. JCO understands that the City of Burlington intends to host an informative meeting with the public to present the data and its implications, discuss the possible disposal and/or reuse option(s), and receive input from the community. Following this meeting the City of Burlington intends to issue a memorandum that will summarize the conclusions of this recent assessment, present the management alternatives considered, and finally present the preferred management option and timeline to be implemented as it relates to the soils currently stockpiled. The City of Burlington remains ahead of schedule in terms of the timeline agreed upon by DEC and the City to have a final determination made regarding the management of these soils by the December 15, 2015 deadline.

In 2014, during the Burlington Bike Path Rehabilitation project at the Site, visual and olfactory evidence of soil contamination was observed by the consultant that was overseeing construction (VHB). These observations resulted in approximately 2,500 cubic yards of soil being relocated and temporarily stockpiled in the lower parking area of Leddy Park, which is located approximately three miles north of the Site (see Attachment 1, Figure 1). Prior to JCO being retained by the City of Burlington in September 2015, a preliminary assessment had been performed by VHB in 2014 which suggested that the stockpiled soils were impacted with select metals, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, and polychlorinated biphenyls (PCBs). A summary of analytical results from this 2014 assessment is included as Attachment 2 of this narrative. After the EPA and the Vermont DEC reviewed the preliminary data, it was determined that more

representative sampling would be required to better characterize the stockpiled soils, as well as conducting a soil and groundwater assessment in the area from which one of soil stockpiles originated. An assessment was undertaken in response to the EPA and DEC request for further assessment of the soil contamination discovered during construction of the Alden Waterfront bike path as described in the August 21, 2015 DEC response letter to the VHB work that had been initiated at the Site prior to JCO involvement in the project. The following presents the results of the follow-up assessment conducted by JCO between September 14, 2015 and September 18, 2015.

1.0 INTRODUCTION AND BACKGROUND

The recent JCO assessment consisted of collecting a total of: 114 soil samples from the four stockpiles currently staged at Leddy Park; one sediment sample from a drainage swale located down gradient of the soil stockpiles; and 72 in-situ soil samples of at the Alden Waterfront beneath the clean-fill isolation barrier. Additionally, JCO installed two groundwater monitoring wells in the Alden Waterfront, along the bike path immediately east of the boat launch, and collected groundwater samples from these wells. This work was performed in general conformance with the August 10, 2015 VHB Burlington Bike Path Phase 1 Soil Characterization Work Plan (VHB Workplan) with modifications presented in the September 1, 2015 JCO Scope of Work (Revision 1) that were approved by the VTDEC and EPA.

The excess soils that had been generated during the Burlington Bike Path Rehabilitation (that are currently staged at Leddy Park) were segregated into four stockpiles designated as Stockpiles A, B, C, and D (see Figure 2). The segregation of these soils was based on 2014 VHB's field screening observations encountered during bike path construction (see summary of VHB soil descriptions provided below). These piles are currently isolated under thick black plastic that is secured by more than 300 sand bags, surrounded by hay bales, and a 6-foot tall rigid fence with appropriate notification signage. The black plastic was installed by JCO in July 2015. Prior to employing this more protective soil management alternative, the Stockpiles were covered and underlain with a thick reinforced clear plastic (which remains under the black plastic) and surrounded by orange fencing.

STOCKPILE A (~2,450 cubic yards):
Stockpile A consists of soils which did not exhibit visual or olfactory evidence of contamination and had photoionization detector (PID) volatile organic compound (VOC) screening values of less than 1 part per million by volume (ppmV). The VHB report states that a total of six composite analytical samples were collected from Stockpile A from points around the perimeter of the pile.

STOCKPILE B (~20 cubic yards):
The Stockpile B soils consist of soils which appeared to be petroleum-impacted during excavation, were visibly stained, and / or had PID headspace readings of up to 446 ppmV. One composite sample was collected by VHB from Stockpile B in 2014.

STOCKPILE C (~20 cubic yards):
The Stockpile C soils were darker, had wooden timbers incorporated, and PID headspace readings of 8 ppmV or less. One composite sample was collected by VHB from Stockpile C in 2014.

STOCKPILE D (~10 cubic yards):
The Stockpile D soils were stained blue-grey and had PID screening values of 1 ppmV or less. Following excavation in the Stockpile D source area, stained soils remained at the base of the excavation and one composite sample was collected from these in-situ soils. VHB did not collect a soil sample from Stockpile D in 2014.

The two primary objectives of the JCO September 2015 assessment were to better characterize the soils stockpiled at the Leddy Park in order to determine appropriate disposal and/or reuse alternatives and to assess the in-situ conditions in the northwest portion of the Alden Waterfront parcel (where Stockpile D soils originated). The purpose of the in-situ sampling was to better understand the degree and extent of soil and groundwater impacts remaining along the bike path.

2.0 FIELDWORK SUMMARY

This section summarizes the fieldwork methodologies and results for the Alden Waterfront soil stockpile sampling; the Leddy Park drainage swale sampling; the Alden Waterfront in-situ soil sampling; and the Alden Waterfront groundwater sampling. All samples were collected using either dedicated sample equipment (butyrate core liners, Ziploc bags, nitrile gloves, etc.) or with decontaminated sample collection tools. Reusable stainless steel sample collection tools were decontaminated between each sample collection event using the following procedure:

1. Remove residual soil with a dedicated paper towel
2. Wash with Alconox laboratory-grade soap
3. Rinse with deionized water
4. Wipe with a hexane-soaked paper towel. It should be noted that no hexane was spilled during decontamination or sampling.
5. Second Rinse with deionized water

The analytical soil results were compared to the residential Vermont Department of Health (VDH) soil screening values (SSVs) and the most recent (October 2015) residential and industrial EPA regional screening levels (RSLs). Note that the VTDEC Investigation and Remediation of Contaminated Properties (IROCP) specifies the use of the most recent Region 3 RSLs. However, as of October 2015 the EPA has combined the Region 3, 6, and 9 RSLs[1]. The groundwater analytical results were compared to the 2005 Vermont Groundwater Enforcement Standards.

[1] http://www3.epa.gov/region09/superfund/prg/

2.1 SOIL SAMPLE COLLECTION FROM STOCKPILES AND DRAINAGE SWALE

2.1.1 Methodology

Between September 14 and 16, 2015, JCO collected soil samples from the Alden Waterfront stockpiles (A, B, C, and D) currently staged at Leddy Park and from the drainage swale along the southwest edge of the Leddy Park lower parking lot. As requested by EPA and DEC, all samples collected were analyzed for PCBs and one-half of the stockpile samples were also analyzed for PAHs and lead. The specific laboratory analytical methods employed by the laboratory are presented in Section 3.2.

Stockpile A

Stockpile A was divided in to six evenly spaced segments along the length of the pile and each segment was approximately 30-feet long by the width of the pile. The segments were then divided into five evenly spaced vertical intervals (sections) for a total of 30 sections. Sketches of segment and section locations are provided in the laboratory analytical summary tables (see Attachment 3). Attachment 4 provides the original laboratory reports. Three PCB laboratory analytical samples were collected from each of the 30 sections for a total of 90 PCB samples. Every other soil sample collected from Stockpile A was also analyzed for PAHs and lead, for a total of 45 samples.

On September 15, 2015 a decontaminated hand-auger was used to collect 60 of the 90 PCB samples and 30 of the 45 PAH/lead samples from the more exterior portions of each section. Next, on September 16, 2015 a track-mounted Geoprobe drill rig accessed the crest of the stockpile and advanced soil borings in order to collect the samples from the center portion of each of the 30 sections (30 PCB samples and 15 PAH/lead samples). It should be noted that in order to access the crest of the pile with the drill rig an access ramp was constructed using stockpiled soil near the southeast end of the pile (see Figure 2).

The protective plastic sheeting used to isolate the pile was re-established and secured immediately after the completion of sample collection. Weekly inspections and maintenance of this isolation barrier are ongoing and documented appropriately.

Stockpiles B, Stockpile C, and Stockpile D

On September 14, 2015, small openings were cut in the plastic sheeting and a clean, decontaminated hand auger was used to collect eight discrete samples from each of the three smaller stockpiles (Stockpile B, Stockpile C, and Stockpile D) for laboratory analysis. More specifically, each pile was divided in to four quadrants and each quadrant was separated into two vertical segments, for a total of eight segments. One discrete soil sample was collected from each of the eight segments and analyzed for PCBs, and four of the eight samples were analyzed for PAHs and lead. A total of 24 samples were collected from the three smaller stockpiles. The cuts in the sheeting were repaired immediately after the completion of sample collection.

Drainage Swale
On September 14, 2015 a decontaminated hand auger was used to collect a sediment sample from the 0-0.5fbgs interval in what could be considered the run-off flow-path of the drainage swale located to the southeast and down gradient from the soil stockpiles. This sample was analyzed for PCBs only.

2.1.2 Results

The following presents a summary of analytical results from the soil stockpile sampling that was performed by JCO between September 14 and 16, 2015.

PAHs: Stockpile A, Stockpile B, Stockpile C, and Stockpile D
Analytical results for each of the 57 PAH soil samples collected from Stockpile A, B, C, and D consistently reported concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene that exceeded the October 2015 EPA regional screening levels (RSLs) for residential soil and also the Vermont Department of Health (VDH) soil screening values (SSVs). The benzo(a)pyrene concentrations exceeded the industrial RSL in all but two samples (55 of 57), and isolated exceedances of the industrial RSL for other PAHs were also reported. With the exception of benzo(k)fluoranthene which was reported above the residential RSL in three samples, no other PAHs were detected at concentrations above regulatory screening levels. The Stockpile A, B, C, and D PAH analytical results and sketches depicting approximate sample locations are presented in an embedded figure on Table 1.

The PAH concentrations and analytes reported in the September 2015 JCO stockpile sampling effort are generally consistent with the results of the October 2014 VHB composite sampling event (see Attachment 2).

Lead: Stockpile A, Stockpile B, Stockpile C, and Stockpile D
The analytical results for the soil samples collected from Stockpile A, B, C, and D identified an exceedance of the residential RSL for lead in only five of the 57 lead samples. Of these five residential exceedances only two also exceeded the industrial RSL for lead. This trend, consisting of reported concentrations generally below the residential RSLs with the exception of isolated residential and/or industrial exceedances for lead, is consistent with the October 2014 VHB composite sampling event. The Stockpile lead analytical results and analytical sample location sketches are also presented in Table 1.

PCBs: Stockpile A
The analytical PCB results for soil samples collected from Stockpile A identified detections of PCB-1248, PCB-1254, and PCB-1260. Each of these compounds exceeded the residential RSL or the VDH SSV in at least one sample from each of the six pile segments. In addition, at least one industrial exceedance was reported in segments 1, 3, and 5. The maximum concentrations of these three Aroclors were 1.3 mg/kg (PCB-1248), 2.6 mg/kg (PCB-1254), and 1.6 mg/kg (PCB-1260). The October 2014 VHB composite samples reported detectable concentrations of PCB-1260 at concentrations generally consistent with the September 2015

JCO samples; however, the VHB sampling results did not report detections of PCB-1248 or PCB-1254. The Stockpile A, PCB analytical results and sample location sketches are presented in an embedded figure on Table 2.

PCBs: Stockpile B

The laboratory analytical results reported PCB detections at concentrations below the residential RSL and the VDH SSV in each of the eight soil samples collected from Stockpile B. These analytical results are generally consistent with the results of the VHB composite sampling effort. Stockpile B PCB analytical results and sample location sketches are also presented in Table 2.

PCBs: Stockpile C

The analytical results show that two of the eight soil samples collected from Stockpile C had reported detections of PCB-1248, PCB-1254, and/or PCB-1260 at concentrations greater than one or both of the applicable screening levels (EPA RSL and VDH SSV). No other PCB exceedances were reported. These results are not consistent with the VHB composite sampling effort. The VHB results only reported a detection of PCB-1260 at a concentration that did not exceed the residential EPA RSL. It should be noted that VDH does not maintain an SSV for PCB-1260. Stockpile C PCB analytical results and sample location sketches are also presented in Table 2.

PCBs: Stockpile D

The analytical results show that each of the eight soil samples collected from Stockpile D reported residential RSL and/or residential VDH SSV exceedances, and result s for three of the eight samples had reported concentrations that exceeded the industrial RSL. The maximum detected PCB concentrations in Stockpile D were 0.27 mg/kg (PCB-1248), 2.3 mg/kg (PCB-1254), and 1.3 mg/kg (PCB-1260).

The VHB composite sample was collected from in-situ soils in the base of the excavation of the Stockpile D source area and not from the actual Stockpile D soils. The in-situ sample collected by VHB in 2014 had a reported PCB-1254 concentration of 7.25 mg/kg; however, PCB-1248 and PCB-1260 were not reported at concentrations that exceeded the laboratory's reporting limit of 0.981 mg/kg. The Stockpile D PCB analytical results are also presented in Table 2.

PCBs: Drainage Swale Sediment

No visual or olfactory evidence of contamination was noted in the drainage swale sediment sample and the analytical results reported no PCB detections at concentrations greater than the laboratory detection limit of 0.02 mg/kg, which is less than the VDH SSV for PCB-1254 (0.12 mg/kg). The drainage swale PCB analytical results are presented in an embedded figure Table 3.

2.2 IN-SITU SOIL SAMPLE COLLECTION AND MONITORING WELL INSTALLATION

2.2.1 Methodology

On September 17, 2015, a drill rig was used to advance two soil borings to a depth of approximately 13-feet below ground surface (fbgs) and 34 soil borings to a depth of 4-fbgs. Dedicated butyrate core liners were used to extract continuous soil cores from each boring location. Boring locations were as specified in the August 10, 2015 VHB Scope of Work with the exception of three soil borings which were slightly adjusted to avoid utilities and MW-1 which was adjusted due to refusal at approximately 6 fbgs which was encountered in the SB-1 borehole.

One monitoring well was installed in each of the two deeper soil borings (SB-1 and SB02) located on either side of the bike path. Well construction consisted of a 1-inch diameter, 10-foot long screen that was installed across the water table, a 1-inch diameter riser pipe, and a flush-mount road box. A sand filter pack was installed to approximately 1-foot above the screened interval and a 1-foot thick seal consisted of hydrated bentonite was installed over the filter pack. A thin layer of filter sand was installed over the bentonite seal to limit bentonite intrusion into the road box. Following installation, each well was developed by pumping groundwater at a high rate in order to remove fine particulates.

Soil samples were collected from each of the 36 soil boring locations. The shallow sample was collected from approximately 6-inches below the bottom of the topsoil isolation barrier that had previously been installed at the Alden Waterfront and the deeper sample was collected approximately 1-foot below the shallow sample. It should be noted that in some instances a lack of soil recovery and/or compression of soils within the core liner prohibited sample collection of the deeper sample from a depth 1-foot below the shallow sample. The clean-fill isolation barrier varied in the thickness, but was typically observed to be approximately 10-inches within the core barrel where some degree of soil compression likely occurred. This thickness was estimated based on visual characteristics (soil type, soil color, the absence of “foreign” objects such as coal fragments, etc.) and recorded on field log forms (see Attachment 5). The borings west of the bike path, nearest the parking area for the boat launch, identified that the topsoil isolation barrier was consistently not as thick as what was encountered east of the bike path. Specifically, there were five boring locations (SB-17, SB-29, SB-31, SB-32, and SB-34) in the immediate vicinity of several large trees that are oriented north-south, within 10-feet of one another, where the observed topsoil isolation barrier was less than 3-inches thick. Presumably, a thicker layer of topsoil was not introduced in this area in order to preserve these trees. As a result the discrete shallow samples were collected from a depth of 6-inches below the base of the imported topsoil and therefore in some cases only 0.7 feet below ground surface (ftbgs). The soil core extracted from soil boring, SB-31, identified light brown silt and sand in the upper interval, but no distinct topsoil layer was noted, as such the shallow sample was collected from a depth of 0.5 ftbgs.

The approved Scope of Work specified PCB soil samples be collected from both the shallow and deeper location in each of the 36 borings and PAH soil samples be collected from four of the soil boring locations (SB-1, SB-02, SB-10, and SB-28) that were located near where VHB observed the

more visually impacted soil in 2014. These PAH samples were collected from the upper sample interval in each of these borings.

2.2.2 Results

The following presents a summary of analytical results for the in situ sampling that was performed by JCO in September 17, 2015 in the Alden Waterfront.

PAHs

The laboratory results for the four in-situ soil samples collected from Alden Waterfront reported detections of at least one PAH at concentrations greater than the residential RSL and/or the residential VDH SSV in all samples. One detection of benzo(a)pyrene that exceeded the industrial RSL was reported in the sample collected from soil boring, SB-28 at a depth of 1-foot below ground surface. No other industrial exceedances were reported. The specific PAH analytes that had reported exceedance in the in-situ soils was consistent with the PAH exceedances identified in the stockpiled soils. Generally, PAH results from the September 2015 soil assessment were less than the concentrations reported by VHB during the 2014 in-situ soil sampling in this area. The in-situ soil PAH analytical results are presented in Table 4 and sample locations are shown on Figure 3.

PCBs

The laboratory results identify that PCBs were detected in the shallow samples at concentrations exceeding residential RSLs or residential VDH SSVs in nine of 36 locations. Four of these sample results also exceeded residential RSLs. Data suggests that the samples collected from the deeper interval were less impacted by PCBs than the shallow interval, with only two of 36 samples reporting residential exceedances and no samples reporting industrial exceedances. The exceedances were mostly clustered to the east of the Stockpile D source area (where the 2014 VHB in-situ composite sample was collected) in an area immediately east of the bike path, where the topsoil isolation barrier is generally thicker. Only two PCB Aroclors (PCB-1254 and PCB-1260) were detected from this recent sampling. The peak concentrations were 2.8 mg/kg (PCB-1254) and 1.3 mg/kg (PCB-1260). These concentrations are less than the concentrations reported in the 2014 VHB in-situ composite sample, 7.25 mg/kg (PCB-1254); summary of 2014 data presented in Attachment 2. The JCO in-situ soil PCB analytical results are presented on Table 5, and the sample locations and PCB screening level exceedances are summarized on Figures 3 and 4.

2.3 GROUNDWATER SAMPLE COLLECTION

2.3.1 Methodology

On September 18, 2015 a ground water sample was collected from each of the two monitoring wells that were installed by JCO in accordance with our standard operating procedure for low-stress groundwater sampling using a peristaltic pump. Prior to the start of purging, the static water level and total depth of each well was measured relative to the top-of-casing elevation (see groundwater sample collection logs, attached). Dedicated sample tubing was then installed in the well with the intake at the approximate vertical mid-point of the wetted portion of the well screen.

The wells were then purged at a rate of approximately 200 ml/min until three well volumes were removed. This flow rate did not result in significant drawdown of the water level in the wells. During purging, physiochemical parameters (temperature, specific conductivity, dissolved oxygen, pH, oxygen reduction potential, and turbidity) were measured at 5-minute intervals. Following purging, one sample was collected from each well for PCB analysis.

2.3.2 Results

PCBs

Analytical laboratory results indicated that no PCBs were reported at concentrations above laboratory detection limits in either of the groundwater samples or in the duplicate groundwater sample. The field parameters are summarized on Table 6 and the laboratory analytical results are presented on Table 7. Monitoring well locations are shown on Figure 5.

3.0 QUALITY CONTROLSUMMARY

3.1 DUPLICATE AND BLANK SAMPLES

Blind duplicate soil samples were collected at a rate of one duplicate per 20 samples by placing sufficient sample volume in a dedicated zip-lock bag, homogenizing, and then filling both the parent and duplicate sample jars. The duplicate groundwater sample was collected by filling an additional 1-liter amber jar using the peristaltic pump. The relative percent difference (RPD) was calculated where both the parent and the duplicate sample reported detections. The RPD is calculated as the difference between the results divided by the average of the results, expressed as a percentage. For soil samples, RPD values less than 50 percent is desirable, while for groundwater (which is less heterogeneous) RPD values less than 30 percent are desirable. There were a number of soil RPD values greater than 50 percent, with the more elevated RPD values occurring in four of eight duplicate samples (SP-A-DUP-02, SP-A-DUP-03, SP-A-DUP-05 and SP-D-DUP-01). These elevated RPD values are most likely the result of soil heterogeneity. While not ideal, these results do not change the conclusions of this report. No groundwater detections were reported; therefore no RPD values were calculated.

Three field blank samples were collected by passing laboratory-supplied deionized water over the decontaminated hand auger used for stockpile sampling effort, over nitrile gloves for the in-situ soil sampling effort, and through clean peristaltic pump tubing for the groundwater sampling effort. No compounds were detected in any of the field blank samples.

3.2 LABORATORY ANALYTICAL METHOD SUMMARY

All samples were transported in ice-filled coolers under chain of custody protocol to Eastern Analytical, Inc. of Concord, New Hampshire (EAI) for laboratory analysis. Analysis of PCBs was conducted by EAI via EPA Method 8082 with Soxhlet extraction by EPA Method 3540. Samples collected for PAHs were analyzed by EAI via EPA Method 8270 with Selective Ion Monitoring (SIM) and metals samples were analyzed by EPA Method 6020.

3.3 LABORATORY QUALITY CONTROL SUMMARY

No laboratory data quality deviations were reported with the exception of the SB-04(2.5) sample of in-situ soil which had an elevated detection limit (0.04 mg/kg as opposed to the standard target of 0.02 mg/kg) due to a "higher than normal extract volume". The laboratory reports indicated that samples were extracted and analyzed within holding times, instrument calibration was conducted in accordance with method requirements, method blanks were free of contamination at the reporting limits, surrogate recoveries met applicable criteria, and associated matrix spikes and or laboratory control standards met acceptance criteria.

4.0 CONCLUSIONS

Based on the analytical data and field observations collected between September 14 and 18, 2015, The Johnson Company concludes the following:

<u>Stockpiled Soils at Leddy Park</u>

- All stockpiles are contaminated with PAHs at concentrations above residential and industrial screening levels.
- Some of the soil in Stockpiles A and D is contaminated with lead at concentrations above regulatory screening levels.
  - Stockpile A: Results show that three of the 45 samples exceeded the residential screening level for lead, and one of the 45 samples exceeded the industrial screening level for lead.
  - Stockpile B: No residential or industrial soil screening levels were exceeded for lead.
  - Stockpile C: No residential or industrial soil screening levels were exceeded for lead
  - Stockpile D: Results show that two of the eight samples exceeded the residential screening level for lead, and one of the eight samples also exceeded the industrial screening level for lead.
- Some of the soil in Stockpiles A, B, C, and D is contaminated with PCBs above the screening levels.
  - Stockpile A: Of the 90 pile sections where discrete soil samples were collected, 31 had PCB concentrations above residential screening levels. Of the 31 residential exceedances, five (5) had laboratory reported concentrations that also exceeded the industrial screening levels. Stockpile A, Segments 2, 4, and 6 reported PCB soil concentrations that exceeded the residential screening level, but not the industrial screening level.
  - Stockpile B does not appear to be contaminated with PCBs at concentrations above regulatory screening levels.
  - Stockpile C appears to be free of PCB contamination in excess of the industrial screening levels, but two of eight samples do show that residential exceedances were reported.
  - Stockpile D appears to be contaminated with PCBs at concentrations above residential screening levels in seven of eight samples and one of the eight samples also exceeded the industrial screening level for PCB.

<u>Leddy Park Drainage Swale Sediment</u>

- The discrete sediment sample collected from the drainage swale, located downgradient of the stockpile area, identified no PCB detections.

Alden Waterfront Insitu Soils

- The discrete in-situ PAH soil sampling suggests PAH contamination in each of the four samples collected from below the clean-fill isolation barrier at concentrations that exceed the residential screening levels. One of the four samples also exceeded the industrial screening level for PAHs.
- The discrete in-situ PCB soil sampling results identified more elevated concentrations and a greater extent of contamination in the shallow samples, which is suggestive of a surface release that likely occurred below the protective clean-fill isolation barrier prior to it being placed.

Alden Waterfront Groundwater

- The groundwater sampling did not show evidence of PCB contamination in groundwater, which suggests that the PCB impacted soil above the water table in this area has not adversely impacted groundwater, with respect to PCBs.

Should you have any questions or concerns, please do not hesitate to contact us.

Sincerely:

THE JOHNSON COMPANY, INC.

By:_____

Kurt Muller, P.E.
Senior Project Engineer/Manager
jkm@jcomail.com

ATTACHMENTS
Attachment 1 – Figures
Attachment 2 – VHB 2014 Analytical Results
Attachment 3 – Tables
Attachment 4 – Laboratory Reports
Attachment 5 – Field Notes and Sample Logs

cc:
Ms. Kim Tisa, EPA
Mr. Hugo Martinez-Cazon, VTDEC
Mr. Jesse Bridges, BPRW
Ms. Jennifer Francis, BPRW

ATTACHMENT 1

Figures

Figure 1 - Site Location Map.mxd

N

0.5 0.25 0 0.5

MILES

1,000 0 1,000 2,000 3,000

FEET

CONTOUR INTERVAL: 20 FEET

VT

MAP LOCATION

BASE MAP: USGS Seamless iTopo 1:24,000, December 12, 2009

FIGURE 1: SITE LOCATION MAP
ALDEN WATERFRONT
BURLINGTON, VERMONT

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: JEM	Date: 10/14/15
Chk'd by: JKM	Date: 10/15/15
App'd by: JKM	Date: 10/15/15
Scale: As Shown	Project: 3-3049-03

Figure 2 - Orthophoto & Stockpile Sketch.mxd

NOTE:
All features and locations are approximate

25 0 25 50 75
FEET

N

Legend

- Hay Bale Berm
- Stockpile A Access Ramp
- Perimeter Fence
- Alden Waterfront Soil Stockpiles

VT

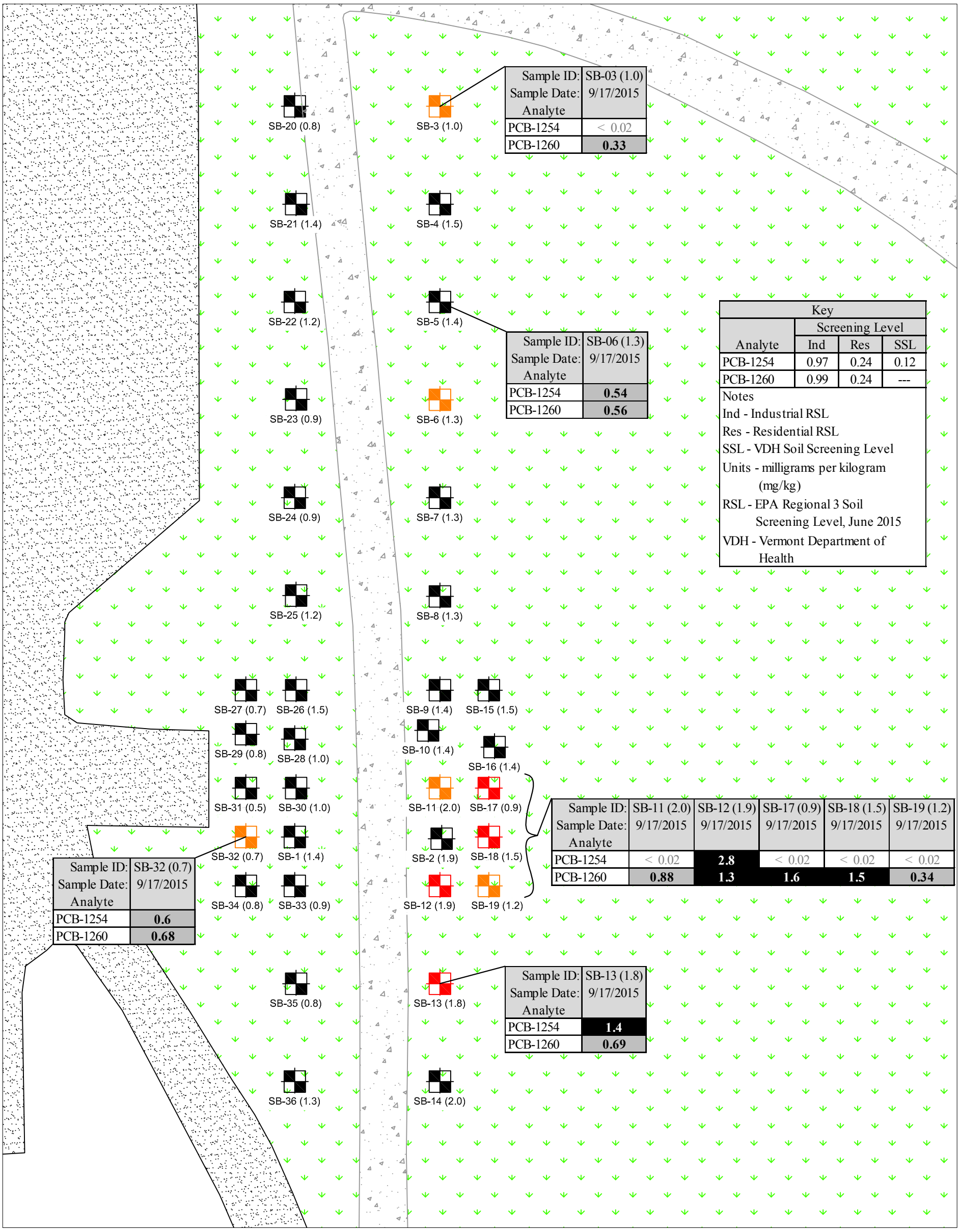
MAP LOCATION

SOURCE: Burlington Parcel Boundaries (2002) from VCGI
ORTHOPHOTO SOURCE: Orthophoto basemap available from ESRI

FIGURE 2: ORTHOPHOTO & STOCKPILE SKETCH
ALDEN WATERFRONT
BURLINGTON, VERMONT

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: JEM	Date: 10/14/15		
Chk'd by: JKM	Date: 10/15/15		
App'd by: JKM	Date: 10/15/15		
Scale: As Shown	Project: 3-3049-03		



LEGEND

APPROXIMATE

No Exceedance of Applicable Standards

Residential RSL and VDH Exceedance

Industrial RSL Exceedance

Paved Driving Area or Parking Lot

Bike Path

Grassy or Vegetated Area

SB-14 (2.0) Soil Boring-14 (Discrete Sample Collected from 2.0 Feet Below Ground Surface)

APPROXIMATE SCALE IN FEET

0 5 10 20 40

Figure 3: Shallow Soil PCB Analytical Summary

Alden Waterfront Park
Burlington, Vermont

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM Date: 10/7/15
Chk'd by: JKM Date: 10/8/15
Scale: As Shown Project: 3-3049-03

Waterfront Park.dwg

SB-20 (1.8)
SB-3 (2.0)
SB-21 (2.4)
SB-4 (2.5)
SB-22 (2.2)
SB-5 (2.4)
SB-23 (1.9)
SB-6 (2.3)
SB-24 (1.9)
SB-7 (2.3)
SB-25 (1.9)
SB-8 (2.3)
SB-27 (1.7)
SB-26 (2.5)
SB-9 (2.4)
SB-15 (2.5)
SB-29 (1.8)
SB-28 (2.0)
SB-10 (2.2)
SB-16 (2.2)
SB-31 (1.5)
SB-30 (2.0)
SB-11 (2.5)
SB-17 (1.9)
SB-32 (1.7)
SB-1 (2.0)
SB-2 (2.7)
SB-18 (2.5)
SB-34 (1.8)
SB-33 (1.9)
SB-12 (2.3)
SB-19 (2.2)
SB-35 (1.8)
SB-13 (2.3)
SB-36 (2.3)
SB-14 (3.0)

Key			
Analyte	Screening Level		
	Ind	Res	SSL
PCB-1254	0.97	0.24	0.12
PCB-1260	0.99	0.24	---

Notes
Ind - Industrial RSL
Res - Residential RSL
SSL - VDH Soil Screening Level
Units - milligrams per kilogram (mg/kg)
RSL - EPA Regional 3 Soil Screening Level, June 2015
VDH - Vermont Department of Health

Sample ID:	SB-10 (2.2)
Sample Date:	9/17/2015
Analyte	Result
PCB-1254	**0.3**
PCB-1260	**0.29**

Sample ID:	SB-12 (2.3)
Sample Date:	9/17/2015
Analyte	Result
PCB-1254	**0.48**
PCB-1260	**0.4**

LEGEND

No Exceedance of Applicable Standards

Residential RSL and VDH Exceedance

Industrial RSL Exceedance

Paved Driving Area or Parking Lot

Bike Path

Grassy or Vegetated Area

SB-14 (3.0) Soil Boring-14 (Discrete Sample Collected from 3.0 Feet Below Ground Surface)

APPROXIMATE

APPROXIMATE SCALE IN FEET

0 5 10 20 40

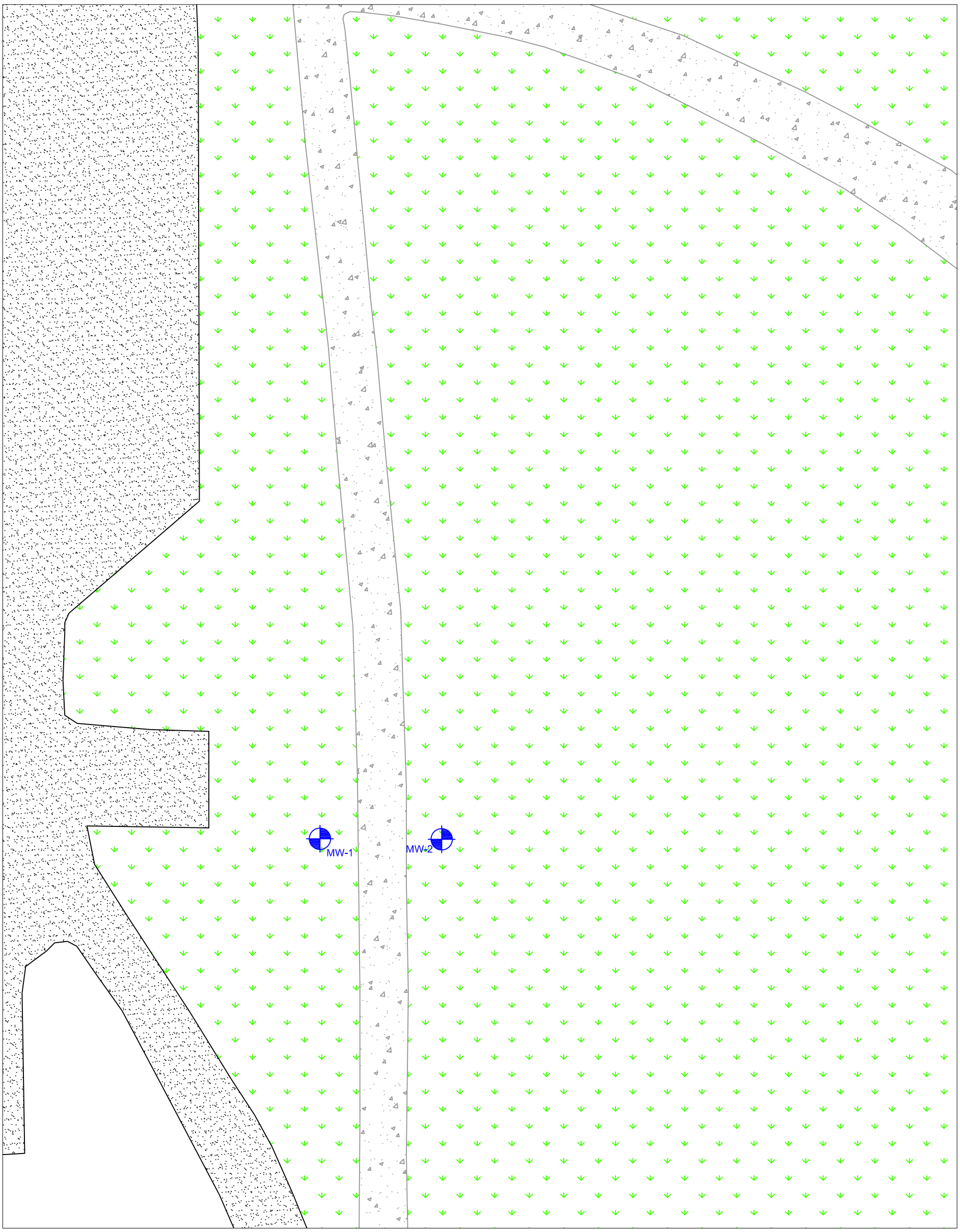
Figure 4: Deeper Soil PCB Analytical Summary

Alden Waterfront Park
Burlington, Vermont

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM Date: 10/7/15
Chk'd by: JKM Date: 10/8/15
Scale: As Shown Project: 3-3049-03

Waterfront Park.dwg



APPROXIMATE

LEGEND

- Monitoring Well Location
- Paved Driving Area or Parking Lot
- Bike Path
- Grassy or Vegetated Area

APPROXIMATE SCALE IN FEET

0 5 10 20 40

Figure 5: Monitoring Well Locations

Alden Waterfront Park
Burlington, Vermont

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM Date: 10/7/15
Chk'd by: JKM Date: 10/8/15
Scale: As Shown Project: 3-3049-03

Waterfront Park.dwg

ATTACHMENT 2

VHB 2014 Analytical Results

Burlington Bike Path
Laboratory Results for Soil from Phase 1a

Soils from Phase 1a of the Burlington Bike Path														
	Unit	VTDEC Residential SSV	VTDEC Industrial SSV	RCRA Rule of 20 Regulatory Level*	Lab Method	SS-A-1	SS-A-2	SS-A-3	SS-A-6	SS-A-7	SS-A-9	SS-B-1	SS-C-1	SS-D-1
Date of Sample	--	--	--	--	--	10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014	11/12/2014
Location of Sample	--	--	--	--	--	Stockpile A	Stockpile A	Stockpile A	Stockpile A	Stockpile A	Stockpile A	Stockpile B	Stockpile C	Stockpile D
Sampler	--	--	--	--	--	VHB	VHB	VHB	VHB	VHB	VHB	VHB	VHB	VHB
PID Field Measurement (ppm)	ppm	--	--	--	--	0.8	0.3	0.4	0.2	0.3	0.5	188.2	0.2	0.0
Waste Characteristics														
Ignitability	--	--	--	--	1030	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
Flashpoint	deg. F	--	--	--	1010A	> 220	> 220	> 220	> 220	> 220	> 220	> 220	> 220	> 220
Reactivity	--	--	--	--	7.3.3	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
Reactivity Cyanide	mg/Kg	--	--	--	7.3.2	ND< 5.3	ND< 5.6	ND< 5.3	ND< 5.5	ND< 5.4	ND< 5.1	ND< 5.3	ND< 5.8	ND< 5.9
Reactive Sulfide	mg/Kg	--	--	--	7.3.3.2	ND< 20	ND< 20	ND< 20	ND< 20	ND< 20	ND< 20	ND< 20	ND< 20	ND< 20
Corrosivity (pH)	su at 23.6C	--	--	>2.0 or >12.5	9045D	8.04	7.96	8.02	7.85	7.61	7.88	8.14	7.46	7.13
Metals														
Arsenic	mg/Kg	0.67	3.00	100	6010C	**0.95 J**	**4.5 J**	**2.6 J**	**2.1 J**	**3.1 J**	**5.7 J**	0.62 J	**3.3 J**	ND< 0.20t
Barium	mg/Kg	15,000	220,000	2,000	6010C	48	43	46	51	60	40	23	62	5.7t
Cadmium	mg/Kg	70.0	980	20	6010C	ND< 0.89	ND< 0.94	ND< 0.80	ND< 0.91	ND< 0.93	ND< 0.78	ND< 0.61	ND< 0.95	ND< 0.25t
Chromium**	mg/Kg	0.30	6.3	100	6010C	**12**	**13**	**14**	**15**	**32**	**13**	**13**	**16**	ND< 0.05t
Lead (Total)	mg/Kg	400	800	100	6010C	190	100	150	160	**1,500**	100	35	240	NA
Lead (TCLP)***	mg/L	--	--	5	6010C	0.34t	ND< 0.20t	ND< 0.20t	ND< 0.20t	4.3t	ND< 0.20t	NA	ND< 0.20t	2.6t
Mercury	mg/Kg	9.40	40.0	4	7471b	0.130	0.087	0.150	0.065	0.140	0.090	0.150	0.11	ND< 0.01t
Selenium	mg/Kg	390	5,800	20	7010	ND< 1.10	ND< 1.20	ND< 1.00	ND< 1.40	ND< 1.20	ND< 0.97	ND< 0.76	ND< 1.20	ND< 0.50t
Silver	mg/Kg	390	5,800	100	6010C	ND< 8.90	ND< 9.40	ND< 8.00	ND< 9.10	ND< 9.30	ND< 7.80	ND< 6.10	ND< 9.50	ND< 0.20t
Polycyclic Aromatic Hydrocarbons (PAHs)														
2-Methylnaphthalene	mg/Kg	230	3,000	--	8270D	ND< 0.036	0.064	0.136	0.101	ND< 0.036	0.056	0.952	9.24	ND< 0.391
Acenaphthylene	mg/Kg	--	--	--	8270D	0.038	0.120	0.106	0.250	0.058	0.104	0.187	1.39	ND< 0.391
Dibenzofuran	mg/Kg	72	1,000	--	8270D	ND< 0.073	ND< 0.076	0.229	ND< 0.074	ND< 0.071	ND< 0.077	0.120	13.0	ND< 0.783
Fluorene	mg/Kg	2,300	30,000	--	8270D	ND< 0.037	0.044	0.317	ND< 0.037	ND< 0.036	ND< 0.039	0.137	19.0	ND< 0.391
Anthracene	mg/Kg	17,000	230,000	--	8270D	0.037	0.195	1.01	0.176	0.071	0.124	0.112	16.5	ND< 0.391
Pyrene	mg/Kg	1,700	23,000	--	8270D	0.379	1.12	2.04	0.940	0.391	0.761	0.584	27.6	2.95
Chrysene	mg/Kg	15	290	--	8270D	0.315	0.775	1.25	0.966	0.306	0.625	0.483	14.5	1.53
Benzo(k)fluoranthene	mg/Kg	1.5	29	--	8270D	0.178	0.389	0.581	0.528	0.153	0.340	0.271	**4.60**	0.943
Indeno(1,2,3-cd)pyrene	mg/Kg	0.15	2.9	--	8270D	**0.310**	**0.706**	**0.982**	**0.877**	**0.294**	**0.563**	**0.458**	**5.55**	**1.26**
Benzo(g,h,i)perylene	mg/Kg	--	--	--	8270D	0.271	0.556	0.769	0.669	0.250	0.446	0.354	4.17	1.49
Naphthalene	mg/Kg	3.8	17	--	8270D	ND< 0.037	0.051	0.224	0.095	ND< 0.036	0.045	0.259	**20.7**	ND< 0.391
1-Methylnaphthalene	mg/Kg	17	73	--	8270D	ND< 0.037	0.054	0.111	0.112	ND< 0.036	0.047	1.91	8.42	ND< 0.391
Acenaphthene	mg/Kg	3,500	45,000	--	8270D	ND< 0.037	ND< 0.038	0.182	ND< 0.037	ND< 0.036	ND< 0.039	0.056	16.8	ND< 0.391
Phenanthrene	mg/Kg	--	--	--	8270D	0.116	0.627	2.21	0.339	0.172	0.258	0.281	56.3	2.76
Carbazole	mg/Kg	--	--	--	8270D	ND< 0.183	ND< 0.191	0.266	ND< 0.184	ND< 0.178	ND< 0.193	ND< 0.184	3.86	ND< 1.96
Fluoranthene	mg/Kg	2,300	30,000	--	8270D	0.406	1.26	2.57	0.960	0.418	0.783	0.637	38.9	2.63
Benzo(a)anthracene	mg/Kg	0.15	2.9	--	8270D	**0.269**	**0.711**	**1.21**	**0.713**	**0.239**	**0.470**	**0.436**	**10.6**	**1.26**
Benzo(b)fluoranthene	mg/Kg	0.15	2.9	--	8270D	**0.487**	**1.17**	**1.51**	**1.480**	**0.450**	**0.947**	**0.729**	**12.4**	**2.31**
Benzo(a)pyrene	mg/Kg	0.015	0.29	--	8270D	**0.281**	**0.781**	**1.18**	**0.790**	**0.288**	**0.571**	**0.466**	**7.08**	**1.59**
Dibenzo(a,h)anthracene	mg/Kg	0.015	0.29	--	8270D	**0.047**	**0.125**	**0.175**	**0.171**	**0.055**	**0.106**	**0.089**	**1.09**	**ND< 0.391**
BaP Toxic Equiv. Quotient	mg/Kg	--	--	--	8270D	0.437	1.17	1.73	1.270	0.433	0.879	0.721	11.1	2.33
Polchlorinated Biphenols (PCBs)														
Aroclor 1016	mg/Kg	0.40	5.2	--	8082A	ND< 0.091	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.044	ND< 0.010	ND< 0.009	ND< 0.009	**ND< 0.981**
Aroclor 1221	mg/Kg	0.15	0.66	--	8082A	ND< 0.091	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.044	ND< 0.010	ND< 0.009	ND< 0.009	**ND< 0.981**
Aroclor 1232	mg/Kg	0.15	0.66	--	8082A	ND< 0.091	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.044	ND< 0.010	ND< 0.009	ND< 0.009	**ND< 0.981**
Aroclor 1242	mg/Kg	0.24	1.0	--	8082A	ND< 0.091	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.044	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.981
Aroclor 1248	mg/Kg	0.24	1.0	--	8082A	ND< 0.091	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.044	ND< 0.010	ND< 0.009	ND< 0.009	**ND< 0.981**
Aroclor 1254	mg/Kg	0.11	1.0	--	8082A	ND< 0.091	ND< 0.010	ND< 0.009	ND< 0.009	ND< 0.044	ND< 0.010	ND< 0.009	ND< 0.009	**7.25**
Aroclor 1260	mg/Kg	0.24	1.0	--	8082A	**0.608**	0.020	0.088	0.052	**0.423**	ND< 0.010	0.011	0.016	**ND< 0.981**
Total Petroleum Hydrocarbons														
C10-C28 TPH-DRO	mg/Kg	200	1,000	--	8015D	29.4	35.6	33.7	75.6	48.8	41.9	**1,220**	**374**	**446**
Tot. Petroleum Hydrocarbons	mg/Kg	200	1,000	--	8015D	59.0	71.6	86.0	145	98.5	97.3	**1,290**	**648**	**1,240**
C7-C10 TPH	mg/Kg	200	1,000	--	8015D	ND< 3.0	ND< 3.0	ND< 6.0	ND< 15.0	ND< 15.0	ND< 15.0	ND< 60.0	ND< 60.0	ND< 60.0
C28-C40 TPH	mg/Kg	200	1,000	--	8015D	29.5	36.0	52.3	69.1	49.6	55.3	74.9	**274**	**795**
> C10 Volatile Hydrocarbons	mg/Kg	200	1,000	--	8260C	ND< 3.83	ND< 5.55	ND< 3.97	ND< 4.31	ND< 4.03	ND< 4.95	**298**	64.8	ND< 6.35
C5-C10 TPH GRO	mg/Kg	200	1,000	--	8260C	ND< 3.83	ND< 5.55	ND< 3.97	ND< 4.31	ND< 4.03	ND< 4.95	ND< 46.30	ND< 20.5	ND< 6.35
Volatile Organic Compounds														
Benzene	mg/Kg	1.20	5.1	10	8260C	ND< 0.019	ND< 0.028	ND< 0.020	ND< 0.022	ND< 0.020	ND< 0.025	ND< 0.230	ND< 1.03	ND< 0.032
Toluene	mg/Kg	4,900	47,000	--	8260C	ND< 0.019	0.029	ND< 0.020	0.047	ND< 0.020	0.037	ND< 0.230	ND< 1.03	0.046
Ethylbenzene	mg/Kg	5.8	25	--	8260C	ND< 0.019	ND< 0.028	ND< 0.020	0.022	ND< 0.020	ND< 0.025	ND< 0.230	ND< 1.03	0.035
Xylenes	mg/Kg	580	2,500	--	8260C	ND< 0.038	ND< 0.056	ND< 0.040	0.139	ND< 0.040	ND< 0.050	0.373	ND< 2.06	0.230
Naphthalene	mg/Kg	3.8	17	--	8260C	ND< 0.038	ND< 0.056	ND< 0.040	0.106	ND< 0.040	0.095	2.92	**34.3**	0.858
1,2,4 Trimethylbenzene	mg/Kg	58.0	240	--	8260C	0.021	ND< 0.028	ND< 0.020	0.069	ND< 0.020	ND< 0.025	3.70	ND< 1.03	0.058
1,3,5 Trimethylbenzene	mg/Kg	780	12,000	--	8260C	ND< 0.019	ND< 0.028	ND< 0.020	0.027	ND< 0.020	ND< 0.025	ND< 0.230	ND< 1.03	ND< 0.032
p-Isopropyltoluene	mg/Kg	--	--	--	8260C	ND< 0.019	ND< 0.028	ND< 0.020	ND< 0.022	ND< 0.020	ND< 0.025	ND< 0.230	ND< 1.03	ND< 0.032
n-Propylbenzene	mg/Kg	0.60	2.7	--	8260C	ND< 0.019	ND< 0.028	ND< 0.020	0.022	ND< 0.020	ND< 0.025	0.593	**ND< 1.03**	ND< 0.032
s-Butylbenzene	mg/Kg	7,800	120,000	--	8260C	ND< 0.019	ND< 0.028	ND< 0.020	ND< 0.022	ND< 0.020	ND< 0.025	0.306	ND< 1.03	ND< 0.032
n-Butylbenzene	mg/Kg	3,900	58,000	--	8260C	ND< 0.038	ND< 0.056	ND< 0.040	ND< 0.044	ND< 0.040	ND< 0.050	0.739	ND< 2.06	ND< 0.064
Trichloroethene	mg/Kg	0.94	6.0	10	8260C	0.023	ND< 0.028	ND< 0.020	ND< 0.022	ND< 0.020	ND< 0.025	ND< 0.230	**ND< 1.03**	ND< 0.032
Tetrachloroethene	mg/Kg	24.0	100	14	8260C	ND< 0.019	ND< 0.028	ND< 0.020	ND< 0.022	ND< 0.020	ND< 0.025	ND< 0.230	**ND< 1.03**	ND< 0.032

SSV: VT DEC Soil Screening Value reflective of the US EPA Regional Screening Levels from January 2015
Industrial SSV: De minimus carginogenic risk level of exposure to soils over a 70 year residential exposure duration.
Residential SSV: De minimus carginogenic risk level of exposure to soils over a 30 year residential exposure duration.
Bold Values: Exceed the Residential SSV
Shaded Values: xceeds the VT DEC Industrial SSV
ND: Not detected above the indicated value
t: Laboratory results for a TCLP extraction.
J: Laboratory estimated value. Parameter detected above the Method Detection Limit but outside of the calibrated range.
-- : No data available
TCLP: Toxicity Characteristic Leaching Procedure, laboratory extraction method to approximate the leaching of an analyte over 20 years within a landfill.
mg/Kg - milligrams per kilogram
mg/L - milligrams per Liter (ppm)
ppm - parts per million
* RCRA Rule of 20 Regulatory Level is 20 times the "Maximum Concentration of Contaminants for the Characteristic of Toxicity Regulatory Level" in (mg/L), to estimate the TCLP concentration that would be considered Hazardous Waste.
** Chromium Standard is for Chromium (III), Insoluble Salts
*** Total Lead levels which exceeded the RCRA Rule of 20 regulatory level (100 mg/Kg) were analyzed via TCLP to approximate the leaching of lead in a landfill over 20 year. All TCLP values were below the TCLP regulatory level (5 mg/L).

ATTACHMENT 3

Tables

NOTES:

The following acronyms are applicable to the text and/or tables

Acronyms

---	=	Value Not Available or Not Calculated
BaP	=	Benzo(a)pyrene
Dup	=	Duplicate
EB	=	Equipment Blank
FB	=	Field Blank
IND	=	USEPA Industrial RSL
IROCP	=	VDH Investigation and Remediation of Contaminated Properties, April 5, 2012
PAH	=	polycyclic aromatic hydrocarbon
PCB	=	polychlorinated biphenyl
RES	=	USEPA Residential RSL
RPD	=	Relative Percent Difference (not calculated where one or both results are non-detect)
RSL	=	Most Recent USEPA Regional Screening Level (October 2015) NOTE: The IROCP specifies the use of the Region 3 RSLs. However, as of Oct 2015 the EPA has consolidated the Region 3, 6, and 9 RSLs http://www3.epa.gov/region09/superfund/prg/
SB	=	Soil Boring
SIM	=	Selective Ion Monitoring
SP	=	Stock Pile
SSL	=	VDH Soil Screening Level from the IROCP
SV	=	Soil Vapor
TEF	=	Benzo(a)pyrene toxicity equivalence factor (World Health Organization, 2005)
TEQ	=	Toxicity Equivalence (calculated by multiplying TEFs by analytical concentrations for each sample and the summing the results)
TSCA	=	Toxic Substances Control Act
USEPA	=	United States Environmental Protection Agency
VDH	=	Vermont Department of Health

Cell & Text Shading

Bold	=	Analytical Value exceeds SSL
Grey w/ Bold Text	=	Analytical Value exceeds Residential RSL
Black w/ White Text	=	Analytical Value exceeds Industrial RSL or VGES
Grey Text	=	Analytical Result: value is non-detect

Data Results and Qualifiers

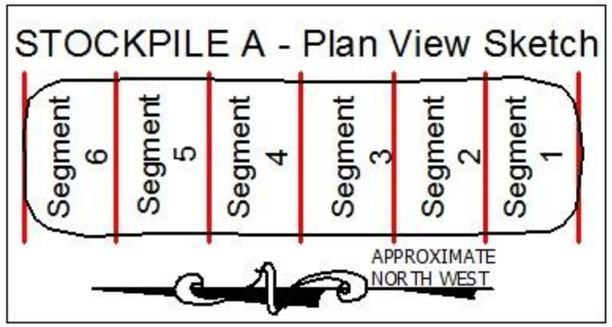
<	=	not detected, value given is the laboratory reporting limit

Units

fbtoc	=	feet below top of monitoring well casing
ft	=	feet
ft-aps	=	feet above parking lot surface
ft-bgs	=	feet below ground surface
mg/kg	=	milligrams per kilogram
mg/l	=	milligrams per liter
mV	=	millivolts
NTU	=	nephelometric turbidity units
ppmV	=	parts per million by volume
Std	=	Standard pH Units
ug/l	=	micrograms per liter
uS/cm	=	microsiemens per centimeter

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

						Sample Location:	Alden Waterfront Park, Stockpile A (Segment 1)									
						Sample ID (ft-aps):	SP-A-52 (10.5)	SP-A-54 (4.5)	SP-A-56 (13.5)	SP-A-58 (7.5)	SP-A-60 (1.5)	SP-A-86 (13.5)	SP-A-88 (7.5)	SP-A-90 (1.5)	SP-A-DUP-05	
						Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015 Parent: SP-A-90 (1.5)	
	Screening Level			BaP												
Analyte	Ind	Res	SSL	TEF	Units											*RPD*
PAHs																
2-Methylnaphthalene	3000	240	---	0	mg/kg		0.28	0.2	0.14	0.096	0.097	0.21	0.2	0.085	0.034	*86%*
Acenaphthene	45000	3600	---	0	mg/kg		0.021	0.01	0.012	0.02	0.014	0.017	0.036	0.024	0.014	*53%*
Acenaphthylene	---	---	---	0	mg/kg		0.36	0.23	0.17	0.18	0.12	0.31	0.28	0.1	0.082	*20%*
Anthracene	230000	18000	---	0	mg/kg		0.37	0.23	0.19	0.23	0.13	0.3	0.31	0.14	0.099	*34%*
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg		**0.82**	**0.44**	**0.37**	**0.58**	**0.3**	**0.79**	**0.66**	**0.54**	**0.29**	*60%*
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg		**0.82**	**0.46**	**0.39**	**0.6**	**0.34**	**0.78**	**0.69**	**0.63**	**0.3**	*71%*
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg		**1.5**	**0.84**	**0.76**	**0.87**	**0.47**	**1.3**	**1.2**	**0.81**	**0.42**	*63%*
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg		0.43	0.28	0.21	0.3	0.21	0.46	0.37	0.43	0.17	*87%*
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg		0.55	0.28	0.23	0.31	0.18	0.45	0.4	0.3	0.15	*67%*
Chrysene	290	16	---	0.01	mg/kg		1.1	0.52	0.47	0.61	0.32	0.93	0.79	0.56	0.29	*64%*
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg		**0.16**	**0.1**	**0.076**	**0.098**	**0.059**	**0.16**	**0.13**	**0.11**	**0.052**	*72%*
Fluoranthene	30000	2400	---	0.00	mg/kg		1.4	0.61	0.62	1.1	0.53	1.2	1.1	0.87	0.52	*50%*
Fluorene	30000	2400	---	0.00	mg/kg		0.04	0.025	0.024	0.038	0.023	0.036	0.051	0.032	0.021	*42%*
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg		**0.55**	**0.34**	**0.26**	**0.36**	**0.23**	**0.56**	**0.46**	**0.46**	**0.2**	*79%*
Naphthalene	17	3.8	1.53	0	mg/kg		0.24	0.16	0.12	0.085	0.069	0.18	0.19	0.074	0.035	*72%*
Phenanthrene	---	---	---	0	mg/kg		0.48	0.27	0.28	0.44	0.22	0.45	0.58	0.4	0.23	*54%*
Pyrene	23000	1800	---	0	mg/kg		1.1	0.5	0.46	0.81	0.43	1	0.9	0.71	0.41	*54%*
BaP TEQ	0.29	0.016	0.01	---	mg/kg		**1.28**	**0.73**	**0.61**	**0.89**	**0.50**	**1.22**	**1.06**	**0.93**	**0.45**	70%
Metals																
Lead	800	400	---	---	mg/kg		250	140	190	220	**530**	160	170	370	280	*28%*



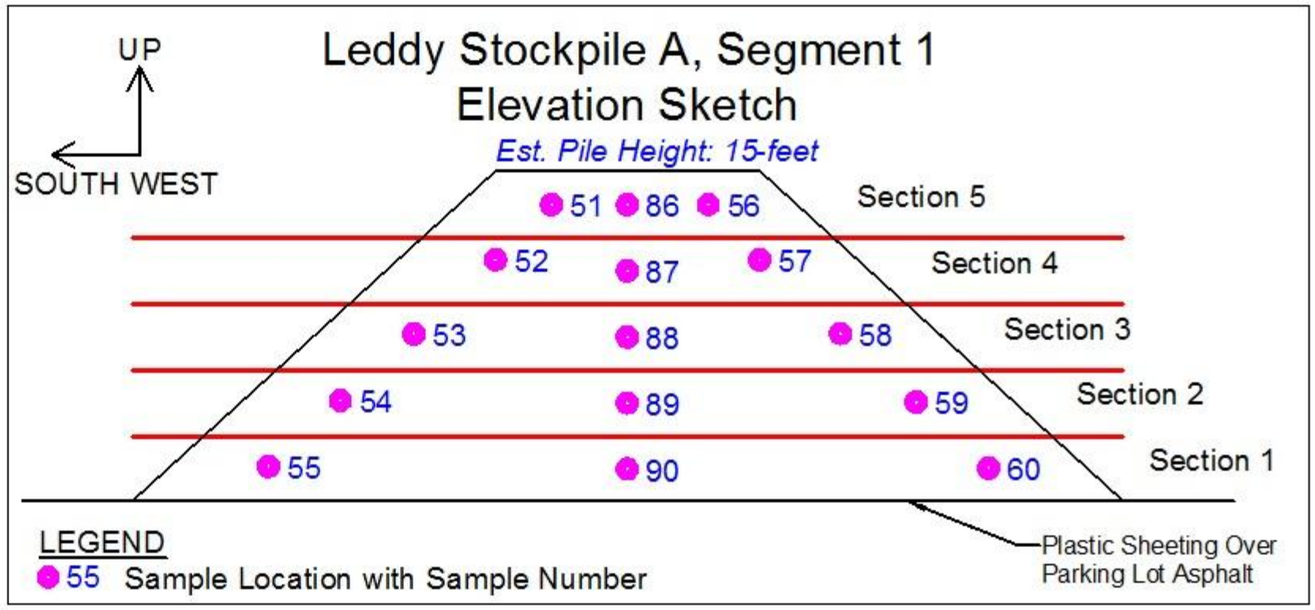
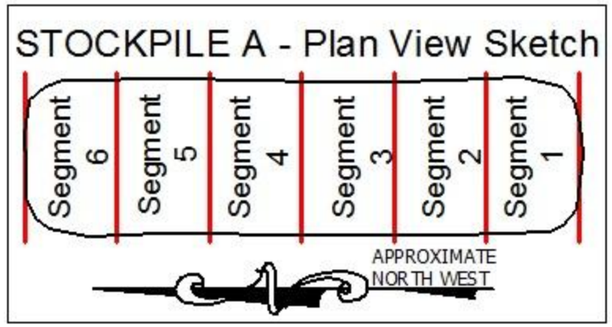


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

						Sample Location:	Alden Waterfront Park, Stockpile A (Segment 2)								
						Sample ID (ft-aps):	SP-A-42 (8.75)	SP-A-44 (3.75)	SP-A-DUP-03		SP-A-46 (11.25)	SP-A-48 (6.25)	SP-A-50 (1.25)	SP-A-82 (10.5)	SP-A-84 (4.5)
						Sample Date:	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015
	Screening Level			BaP					Parent:						
Analyte	Ind	Res	SSL	TEF	Units				SP-A-44 (3.75)	*RPD*					
PAHs															
2-Methylnaphthalene	3000	240	---	0	mg/kg		0.16	0.2	0.19	*5%*	0.21	0.063	0.093	0.34	0.067
Acenaphthene	45000	3600	---	0	mg/kg		0.012	0.014	0.017	*19%*	0.018	< 0.009	0.021	0.049	0.03
Acenaphthylene	---	---	---	0	mg/kg		0.2	0.27	0.27	*0%*	0.37	0.096	0.21	0.42	0.13
Anthracene	230000	18000	---	0	mg/kg		0.18	0.26	0.3	*14%*	0.37	0.098	0.28	0.48	0.17
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg		**0.42**	**0.54**	**0.58**	*7%*	**0.82**	**0.22**	**0.49**	**1.2**	**0.39**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg		**0.48**	**0.56**	**0.62**	*10%*	**0.92**	**0.26**	**0.43**	**1.2**	**0.41**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg		**0.8**	**1**	**1.1**	*10%*	**1.7**	**0.47**	**0.58**	**2.1**	**0.6**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg		0.31	0.34	0.33	*3%*	0.54	0.15	0.19	0.64	0.25
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg		0.29	0.36	0.37	*3%*	0.63	0.15	0.19	0.75	0.19
Chrysene	290	16	---	0.01	mg/kg		0.53	0.67	0.68	*1%*	1.1	0.29	0.48	1.3	0.41
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg		**0.11**	**0.13**	**0.11**	*17%*	**0.21**	**0.053**	**0.062**	**0.26**	**0.074**
Fluoranthene	30000	2400	---	0.00	mg/kg		0.64	0.82	0.91	*10%*	1.2	0.36	1	1.7	0.72
Fluorene	30000	2400	---	0.00	mg/kg		0.024	0.029	0.034	*16%*	0.04	0.013	0.076	0.07	0.045
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg		**0.38**	**0.44**	**0.41**	*7%*	**0.71**	**0.19**	**0.24**	**0.88**	**0.28**
Naphthalene	17	3.8	1.53	0	mg/kg		0.13	0.17	0.17	*0%*	0.19	0.061	0.07	0.38	0.091
Phenanthrene	---	---	---	0	mg/kg		0.28	0.31	0.37	*18%*	0.39	0.13	0.73	0.85	0.42
Pyrene	23000	1800	---	0	mg/kg		0.56	0.66	0.69	*4%*	0.96	0.29	0.82	1.4	0.56
BaP TEQ	0.29	0.016	0.01	---	mg/kg		**0.76**	**0.90**	**0.95**	6%	**1.47**	**0.41**	**0.63**	**1.90**	**0.62**
Metals															
Lead	800	400	---	---	mg/kg		230	210	240	*13%*	120	170	210	190	380



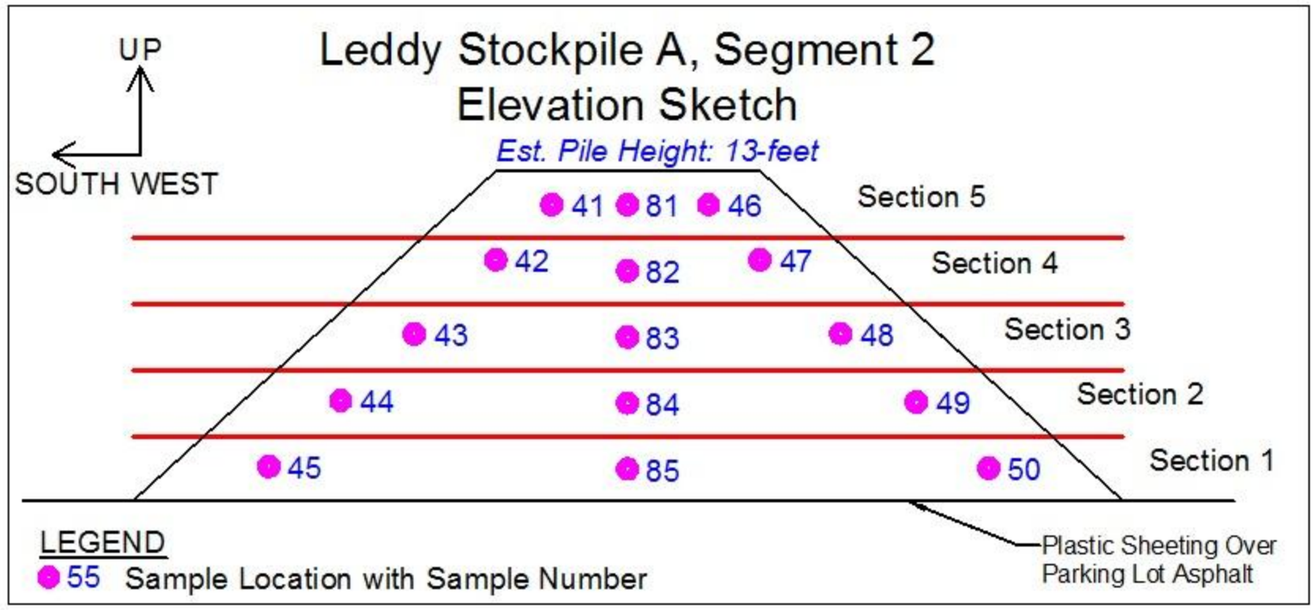
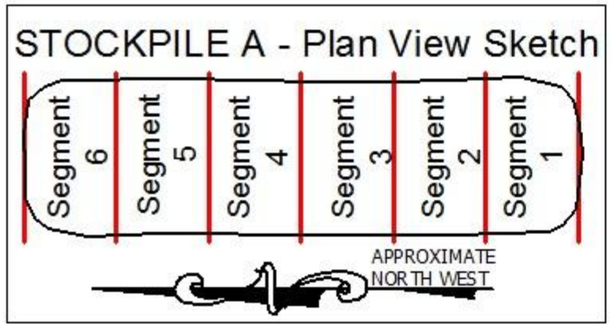


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

	Sample Location:	Alden Waterfront Park, Stockpile A (Segment 3)							
	Sample ID (ft-aps):	SP-A-32 (10.5)	SP-A-34 (4.5)	SP-A-36 (13.5)	SP-A-38 (7.5)	SP-A-40 (1.5)	SP-A-76 (13.5)	SP-A-78 (7.5)	SP-A-80 (1.5)
	Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level			BaP					
Analyte	Ind	Res	SSL	TEF	Units								
PAHs													
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.23	0.097	0.22	0.24	0.28	0.21	0.23	0.16
Acenaphthene	45000	3600	---	0	mg/kg	0.029	0.01	0.047	0.028	0.035	0.017	0.019	0.033
Acenaphthylene	---	---	---	0	mg/kg	0.47	0.23	1.1	1.1	0.8	0.27	0.34	0.25
Anthracene	230000	18000	---	0	mg/kg	0.52	0.19	0.85	0.72	0.75	0.26	0.33	0.26
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	**0.92**	**0.58**	**2.8**	**3**	**1.7**	**0.67**	**0.76**	**0.84**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**0.94**	**0.57**	**2.9**	**3.2**	**1.7**	**0.77**	**0.75**	**0.9**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	**1.6**	**0.98**	**4.4**	**4.4**	**2.7**	**1.4**	**1.3**	**1.3**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	0.44	0.5	1.7	1.8	0.89	0.53	0.41	0.65
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.56	0.33	1.4	**1.6**	1	0.48	0.45	0.48
Chrysene	290	16	---	0.01	mg/kg	1	0.68	3.2	3.3	1.9	0.88	0.87	0.96
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.16**	**0.14**	**0.66**	**0.76**	**0.37**	**0.19**	**0.16**	**0.2**
Fluoranthene	30000	2400	---	0.00	mg/kg	1.3	0.94	3.4	2.5	2.3	0.97	1.1	1.5
Fluorene	30000	2400	---	0.00	mg/kg	0.058	0.026	0.091	0.084	0.071	0.036	0.035	0.053
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	**0.56**	**0.55**	**2.3**	**2.5**	**1.2**	**0.65**	**0.53**	**0.73**
Naphthalene	17	3.8	1.53	0	mg/kg	0.2	0.081	0.28	0.24	0.28	0.21	0.21	0.15
Phenanthrene	---	---	---	0	mg/kg	0.47	0.34	1	0.64	0.71	0.4	0.42	0.67
Pyrene	23000	1800	---	0	mg/kg	1	0.8	3.4	2.5	2.1	0.87	0.96	1.3
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**1.42**	**0.93**	**4.56**	**5.00**	**2.66**	**1.25**	**1.18**	**1.40**
Metals													
Lead	800	400	---	---	mg/kg	**700**	200	130	230	120	140	**910**	140



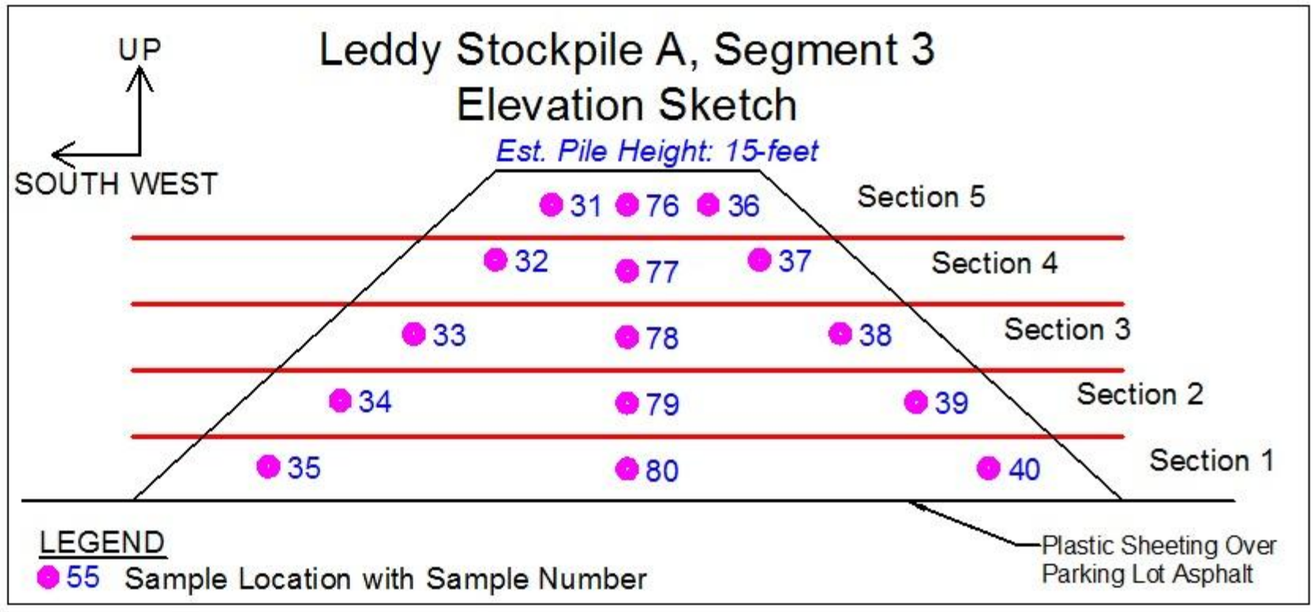
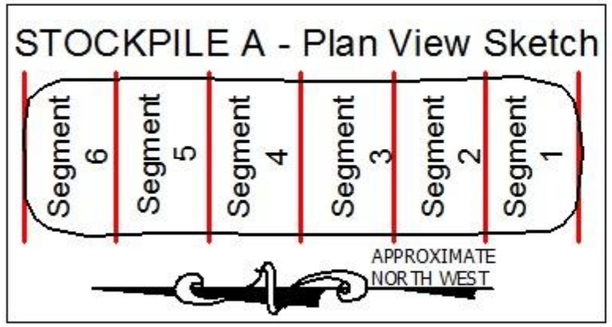


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

	Sample Location:	Alden Waterfront Park, Stockpile A (Segment 4)						
	Sample ID (ft-aps):	SP-A-22 (10.5)	SP-A-24 (4.5)	SP-A-26 (13.5)	SP-A-28 (7.5)	SP-A-30 (1.5)	SP-A-72 (10.5)	SP-A-74 (4.5)
	Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015
Analyte	Screening Level Ind	Res	SSL	BaP TEF	Units							
PAHs												
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.24	0.24	0.27	0.25	0.21	0.34	0.11
Acenaphthene	45000	3600	---	0	mg/kg	0.02	0.019	0.021	0.031	0.019	0.025	0.019
Acenaphthylene	---	---	---	0	mg/kg	0.58	0.55	0.42	0.7	0.34	0.64	0.18
Anthracene	230000	18000	---	0	mg/kg	0.57	0.54	0.44	0.85	0.35	0.6	0.17
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	**0.94**	**1.4**	**0.77**	**2.8**	**0.79**	**1.3**	**0.49**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**0.98**	**1.3**	**0.78**	**2.2**	**0.77**	**1.2**	**0.56**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	**1.8**	**2.1**	**1.5**	**4.4**	**1.3**	**2.2**	**0.86**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	0.48	0.57	0.37	0.86	0.41	0.76	0.37
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.6	0.78	0.5	**1.6**	0.47	0.75	0.3
Chrysene	290	16	---	0.01	mg/kg	1.1	1.5	0.94	3.6	0.85	1.5	0.64
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.19**	**0.23**	**0.15**	**0.41**	**0.15**	**0.31**	**0.12**
Fluoranthene	30000	2400	---	0.00	mg/kg	1.3	1.9	1.1	3.8	1.1	1.7	0.95
Fluorene	30000	2400	---	0.00	mg/kg	0.05	0.048	0.044	0.067	0.036	0.056	0.03
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	**0.64**	**0.75**	**0.49**	**1.2**	**0.51**	**0.96**	**0.45**
Naphthalene	17	3.8	1.53	0	mg/kg	0.23	0.21	0.23	0.3	0.19	0.31	0.099
Phenanthrene	---	---	---	0	mg/kg	0.42	0.47	0.39	0.82	0.35	0.56	0.48
Pyrene	23000	1800	---	0	mg/kg	1	1.5	0.86	2.9	0.93	1.5	0.8
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**1.53**	**1.98**	**1.22**	**3.50**	**1.19**	**1.98**	**0.87**
Metals												
Lead	800	400	---	---	mg/kg	100	150	170	110	150	140	180



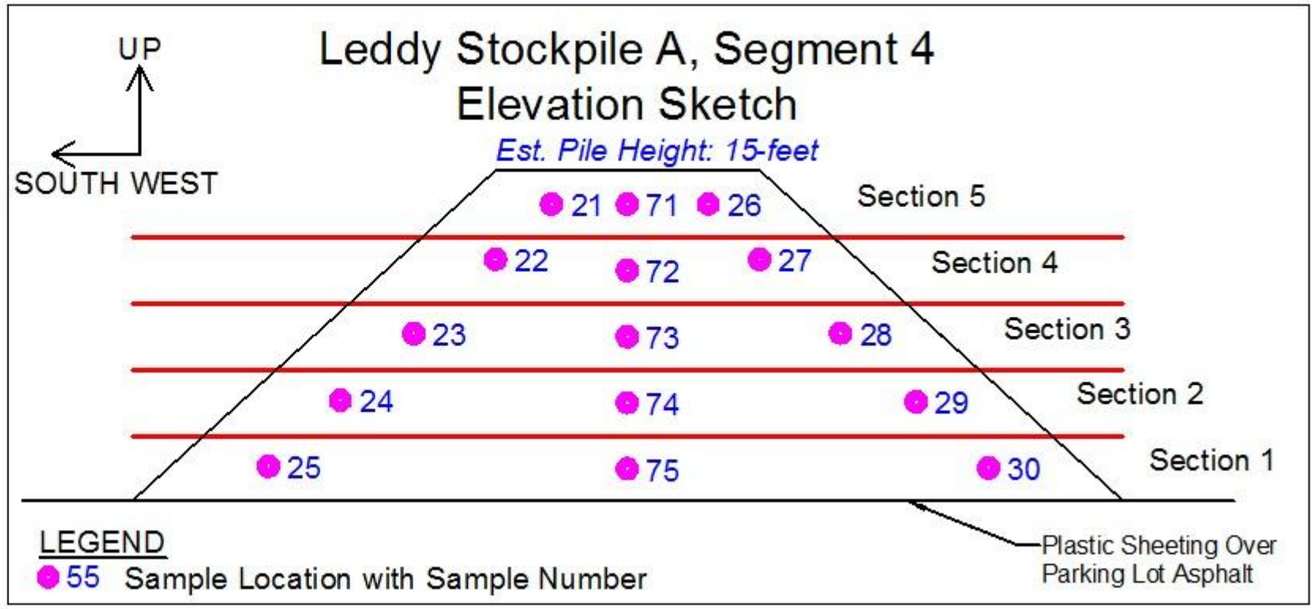
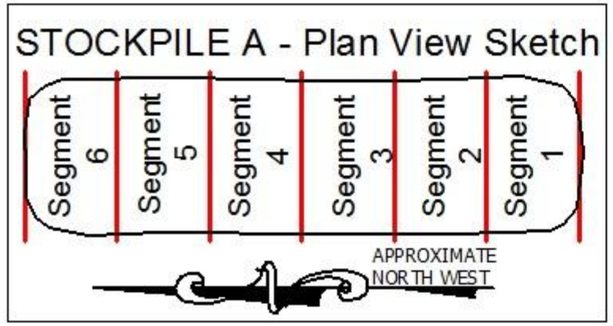


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

						Sample Location:	Alden Waterfront Park, Stockpile A (Segment 5)							
						Sample ID (ft-aps):	SP-A-12 (10.5)	SP-A-14 (4.5)	SP-A-16 (13.5)	SP-A-18 (7.5)	SP-A-20 (1.5)	SP-A-66 (13.5)	SP-A-68 (7.5)	SP-A-70 (1.5)
						Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level			BaP										
Analyte	Ind	Res	SSL	TEF	Units									
PAHs														
2-Methylnaphthalene	3000	240	---	0	mg/kg		0.31	0.2	0.28	0.26	0.28	0.29	0.19	0.21
Acenaphthene	45000	3600	---	0	mg/kg		0.02	0.018	0.019	0.027	0.039	0.017	0.02	0.058
Acenaphthylene	---	---	---	0	mg/kg		0.34	0.23	0.31	0.31	0.43	0.24	0.3	0.4
Anthracene	230000	18000	---	0	mg/kg		0.38	0.24	0.29	0.33	0.53	0.21	0.26	0.51
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg		**0.71**	**0.5**	**0.67**	**0.72**	**1.1**	**0.52**	**0.68**	**1.2**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg		**0.89**	**0.53**	**0.73**	**0.74**	**1.1**	**0.57**	**0.82**	**1.2**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg		**1.7**	**0.87**	**1.4**	**1.3**	**1.9**	**1.1**	**1.6**	**1.7**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg		0.7	0.34	0.6	0.53	0.57	0.52	0.7	0.73
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg		0.57	0.3	0.48	0.46	0.7	0.34	0.5	0.64
Chrysene	290	16	---	0.01	mg/kg		0.99	0.6	0.84	0.87	1.3	0.73	1.1	1.4
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg		**0.24**	**0.12**	**0.2**	**0.18**	**0.22**	**0.18**	**0.23**	**0.26**
Fluoranthene	30000	2400	---	0.00	mg/kg		0.92	0.78	0.95	1.2	1.9	0.82	1.4	2.6
Fluorene	30000	2400	---	0.00	mg/kg		0.042	0.032	0.038	0.046	0.11	0.035	0.037	0.083
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg		**0.86**	**0.42**	**0.7**	**0.65**	**0.78**	**0.61**	**0.83**	**0.9**
Naphthalene	17	3.8	1.53	0	mg/kg		0.27	0.17	0.25	0.24	0.3	0.25	0.19	0.23
Phenanthrene	---	---	---	0	mg/kg		0.41	0.35	0.44	0.55	1.2	0.49	0.59	1.5
Pyrene	23000	1800	---	0	mg/kg		0.82	0.65	0.84	0.94	1.4	0.68	1.1	2.1
BaP TEQ	0.29	0.016	0.01	---	mg/kg		**1.47**	**0.84**	**1.22**	**1.20**	**1.72**	**0.98**	**1.38**	**1.86**
Metals														
Lead	800	400	---	---	mg/kg		370	220	200	170	220	160	160	210



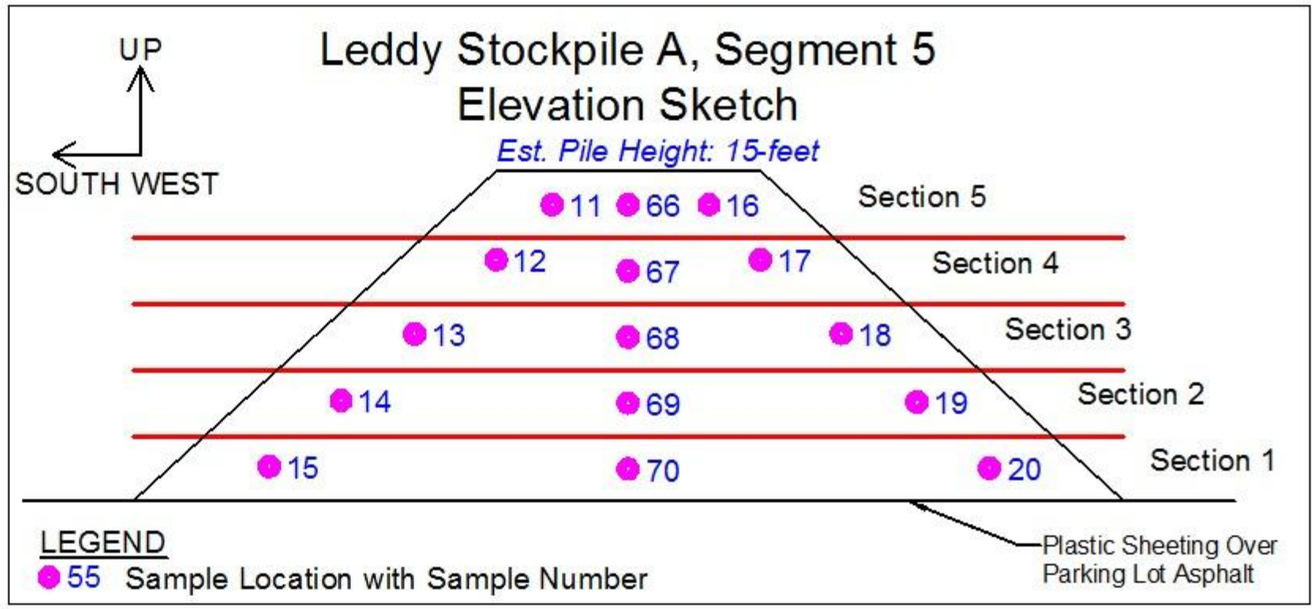
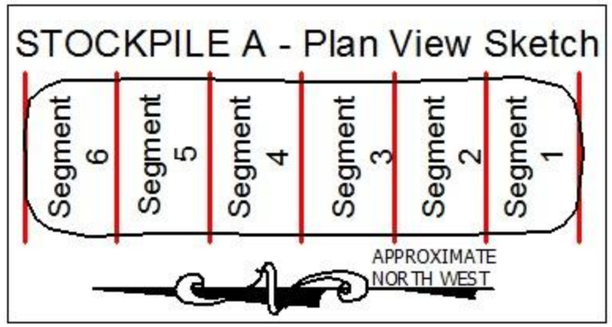


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

					Sample Location:	Alden Waterfront Park, Stockpile A (Segment 6)									
					Sample ID (ft-aps):	SP-A-02 (4.5)	SP-A-04 (10.5)	SP-A-06 (13.5)	SP-A-08 (7.5)	SP-A-DUP-01		SP-A-10 (1.5)	SP-A-62 (10.5)	SP-A-64 (4.5)
					Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/16/2015	9/16/2015
	Screening Level			BaP						Parent:				
Analyte	Ind	Res	SSL	TEF	Units					SP-A-08 (7.5)	*RPD*			
PAHs														
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.17	0.15	0.24	0.2	0.21	*5%*	0.19	0.2	0.17
Acenaphthene	45000	3600	---	0	mg/kg	0.035	0.015	0.018	0.011	0.012	*9%*	0.016	0.02	0.02
Acenaphthylene	---	---	---	0	mg/kg	0.29	0.23	0.35	0.3	0.38	*24%*	0.33	0.28	0.099
Anthracene	230000	18000	---	0	mg/kg	0.3	0.21	0.32	0.28	0.38	*30%*	0.34	0.26	0.13
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	**0.72**	**0.46**	**0.64**	**0.53**	**0.68**	*25%*	**0.68**	**0.68**	**0.52**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**0.77**	**0.51**	**0.62**	**0.49**	**0.62**	*23%*	**0.61**	**0.63**	**0.6**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	**1.4**	**0.88**	**1.2**	**0.88**	**1.2**	*31%*	**1**	**1.2**	**0.88**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	0.61	0.46	0.55	0.36	0.28	*25%*	0.41	0.57	0.53
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.47	0.28	0.38	0.28	0.43	*42%*	0.34	0.4	0.3
Chrysene	290	16	---	0.01	mg/kg	0.85	0.55	0.77	0.63	0.79	*23%*	0.77	0.86	0.66
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.19**	**0.14**	**0.19**	**0.13**	**0.12**	*8%*	**0.15**	**0.18**	**0.13**
Fluoranthene	30000	2400	---	0.00	mg/kg	1.1	0.71	0.92	0.87	1	*14%*	1.1	1.2	1.1
Fluorene	30000	2400	---	0.00	mg/kg	0.052	0.028	0.036	0.027	0.031	*14%*	0.034	0.035	0.028
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	**0.7**	**0.53**	**0.65**	**0.43**	**0.37**	*15%*	**0.51**	**0.65**	**0.54**
Naphthalene	17	3.8	1.53	0	mg/kg	0.16	0.13	0.21	0.16	0.18	*12%*	0.17	0.18	0.14
Phenanthrene	---	---	---	0	mg/kg	0.52	0.28	0.39	0.28	0.31	*10%*	0.35	0.49	0.65
Pyrene	23000	1800	---	0	mg/kg	0.96	0.59	0.76	0.67	0.76	*13%*	0.86	0.94	1
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**1.26**	**0.85**	**1.07**	**0.81**	**0.98**	18%	**0.99**	**1.08**	**0.93**
Metals														
Lead	800	400	---	---	mg/kg	150	210	170	96	110	*14%*	100	140	190



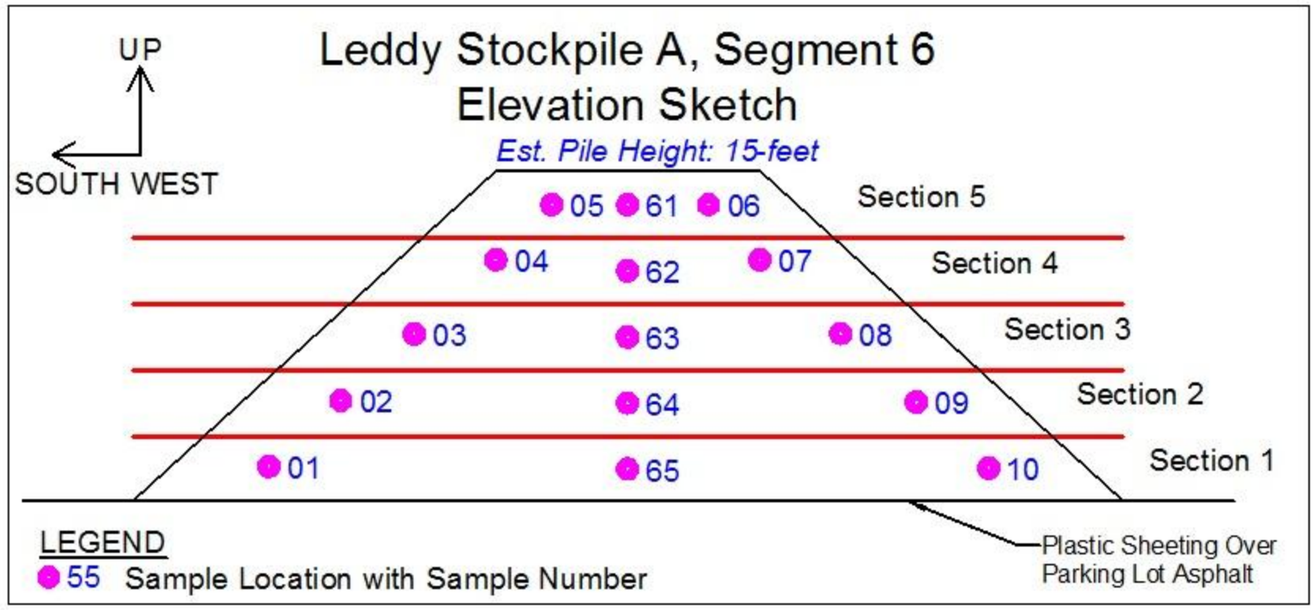


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

					Sample Location:	Alden Waterfront Park, Stockpile B						
					Sample ID (ft-aps):	SP-B-01 (4.5)	SP-B-04 (1.5)	SP-B-DUP-01		SP-B-05 (4.5)	SP-B-08 (1.5)
					Sample Date:	9/14/2015	9/14/2015	9/14/2015		9/14/2015	9/14/2015
	Screening Level			BaP				Parent:			
Analyte	Ind	Res	SSL	TEF	Units			SP-B-04 (1.5)	*RPD*		
PAHs											
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.4	0.17	0.16	*6%*	0.24	0.27
Acenaphthene	45000	3600	---	0	mg/kg	0.012	0.016	0.011	*37%*	0.018	0.0097
Acenaphthylene	---	---	---	0	mg/kg	0.24	0.19	0.18	*5%*	0.15	0.16
Anthracene	230000	18000	---	0	mg/kg	0.26	0.31	0.2	*43%*	0.16	0.19
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	**0.4**	**0.36**	**0.34**	*6%*	**0.21**	**0.31**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**0.45**	**0.4**	**0.4**	*0%*	**0.27**	**0.32**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	**0.75**	**0.68**	**0.6**	*13%*	**0.5**	**0.48**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	0.21	0.18	0.24	*29%*	0.16	0.23
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.27	0.21	0.19	*10%*	0.15	0.17
Chrysene	290	16	---	0.01	mg/kg	0.44	0.49	0.38	*25%*	0.28	0.34
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.075**	**0.062**	**0.081**	*27%*	**0.053**	**0.076**
Fluoranthene	30000	2400	---	0.00	mg/kg	0.63	0.58	0.51	*13%*	0.32	0.5
Fluorene	30000	2400	---	0.00	mg/kg	0.033	0.033	0.026	*24%*	0.035	0.024
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	**0.27**	**0.23**	**0.29**	*23%*	**0.19**	**0.27**
Naphthalene	17	3.8	1.53	0	mg/kg	0.25	0.13	0.12	*8%*	0.24	0.16
Phenanthrene	---	---	---	0	mg/kg	0.26	0.25	0.2	*22%*	0.2	0.18
Pyrene	23000	1800	---	0	mg/kg	0.48	0.43	0.44	*2%*	0.24	0.41
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**0.67**	**0.60**	**0.61**	2%	**0.42**	**0.51**
Metals											
Lead	800	400	---	---	mg/kg	71	95	97	*2%*	80	72

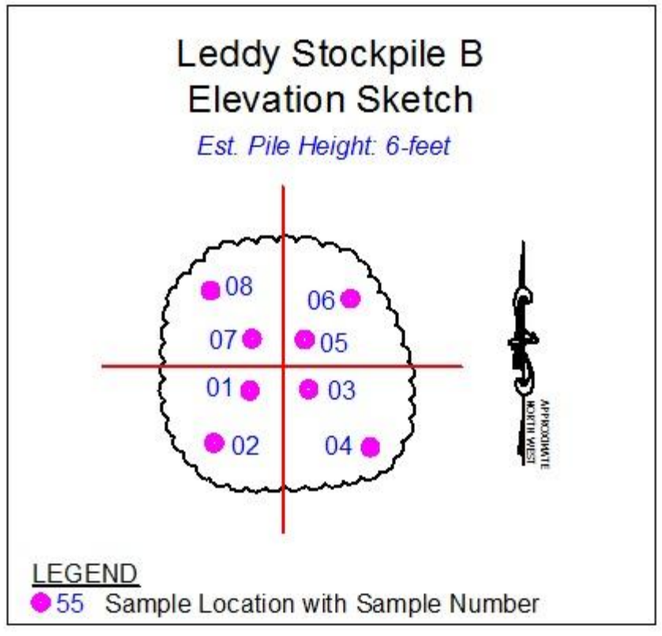


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

					Sample Location:	Alden Waterfront Park, Stockpile C						
					Sample ID (ft-aps):	SP-C-02 (1)	SP-C-DUP-01		SP-C-03 (3)	SP-C-06 (1)	SP-C-07 (3)
					Sample Date:	9/14/2015	9/14/2015		9/14/2015	9/14/2015	9/14/2015
	Screening Level			BaP			Parent:				
Analyte	Ind	Res	SSL	TEF	Units		SP-C-02 (1)	*RPD*			
PAHs											
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.32	0.27	*17%*	0.68	0.19	0.85
Acenaphthene	45000	3600	---	0	mg/kg	0.13	0.17	*27%*	0.38	0.04	0.55
Acenaphthylene	---	---	---	0	mg/kg	0.42	0.4	*5%*	0.84	0.28	1.1
Anthracene	230000	18000	---	0	mg/kg	0.59	0.66	*11%*	2.8	0.35	3.2
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	**1.3**	**1.4**	*7%*	**3.4**	**0.86**	**4.6**
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**1.3**	**1.3**	*0%*	**2.4**	**0.85**	**3.4**
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	**2.2**	**2**	*10%*	**4.1**	**1.4**	**5.6**
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	0.67	0.62	*8%*	1	0.47	1.6
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.72	0.75	*4%*	1.5	0.5	**1.9**
Chrysene	290	16	---	0.01	mg/kg	1.5	1.6	*6%*	5.1	1.1	5.1
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.24**	**0.2**	*18%*	**0.4**	**0.16**	**0.63**
Fluoranthene	30000	2400	---	0.00	mg/kg	2.1	2.9	*32%*	5.5	1.6	7.2
Fluorene	30000	2400	---	0.00	mg/kg	0.19	0.27	*35%*	0.63	0.067	1.4
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	**0.86**	**0.75**	*14%*	**1.4**	**0.58**	**2.1**
Naphthalene	17	3.8	1.53	0	mg/kg	0.79	0.71	*11%*	**1.9**	0.28	**2.7**
Phenanthrene	---	---	---	0	mg/kg	1.1	1.7	*43%*	2.1	0.63	4.5
Pyrene	23000	1800	---	0	mg/kg	1.7	2.1	*21%*	4.5	1.2	6.3
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**2.00**	**1.94**	3%	**3.76**	**1.31**	**5.33**
Metals											
Lead	800	400	---	---	mg/kg	170	170	*0%*	170	180	200

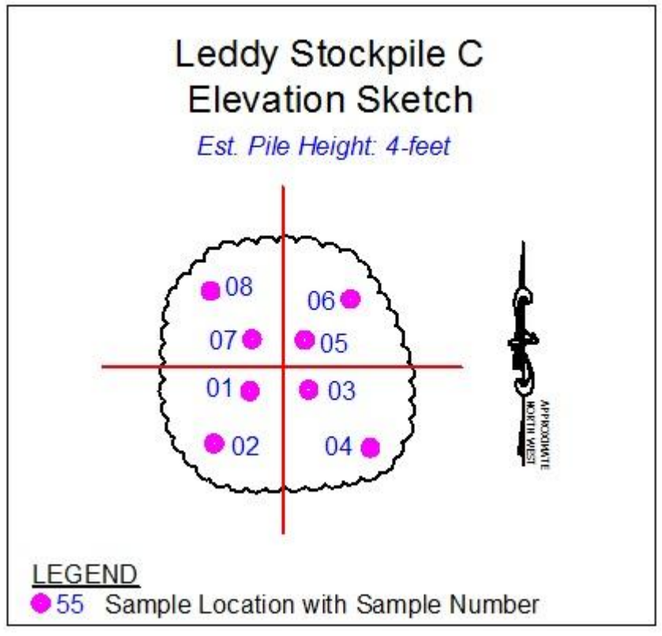


Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

					Sample Location:	Alden Waterfront Park, Stockpile D						QC
					Sample ID (ft-aps):	SP-D-01 (1)	SP-D-04 (0.5)	SP-D-05 (1)	SP-D-08 (0.5)	SP-D-DUP-01		FB-SP-01
					Sample Date:	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015		9/15/2015
	Screening Level			BaP						Parent:		Units:
Analyte	Ind	Res	SSL	TEF	Units					SP-D-08 (0.5)	*RPD*	µg/L
PAHs												
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.11	0.18	0.2	0.099	0.09	*10%*	< 0.1
Acenaphthene	45000	3600	---	0	mg/kg	0.046	0.045	0.011	0.019	0.0084	*77%*	< 0.1
Acenaphthylene	---	---	---	0	mg/kg	0.2	0.22	0.23	0.18	0.13	*32%*	< 0.1
Anthracene	230000	18000	---	0	mg/kg	0.33	0.25	0.22	0.2	0.13	*42%*	< 0.1
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	**0.82**	**0.56**	**0.45**	**0.46**	**0.26**	*56%*	< 0.1
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**0.79**	**0.5**	**0.49**	**0.5**	**0.29**	*53%*	< 0.1
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	**1.1**	**0.87**	**0.77**	**0.8**	**0.5**	*46%*	< 0.1
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	0.58	0.26	0.45	0.26	0.2	*26%*	< 0.1
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.38	0.31	0.26	0.29	0.17	*52%*	< 0.1
Chrysene	290	16	---	0.01	mg/kg	0.88	0.64	0.51	0.55	0.31	*56%*	< 0.1
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.17**	**0.087**	**0.13**	**0.084**	**0.06**	*33%*	< 0.1
Fluoranthene	30000	2400	---	0.00	mg/kg	1.6	1.1	0.67	0.92	0.43	*73%*	< 0.1
Fluorene	30000	2400	---	0.00	mg/kg	0.067	0.086	0.027	0.03	0.019	*45%*	< 0.1
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	**0.63**	**0.31**	**0.48**	**0.32**	**0.22**	*37%*	< 0.1
Naphthalene	17	3.8	1.53	0	mg/kg	0.089	0.21	0.14	0.079	0.071	*11%*	< 0.1
Phenanthrene	---	---	---	0	mg/kg	0.85	0.61	0.22	0.35	0.15	*80%*	< 0.1
Pyrene	23000	1800	---	0	mg/kg	1.4	0.84	0.62	0.66	0.35	*61%*	< 0.1
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**1.23**	**0.77**	**0.80**	**0.75**	**0.45**	49%	ND
Metals												
Lead	800	400	---	---	mg/kg	340	190	**1100**	**630**	390	*47%*	< 0.001

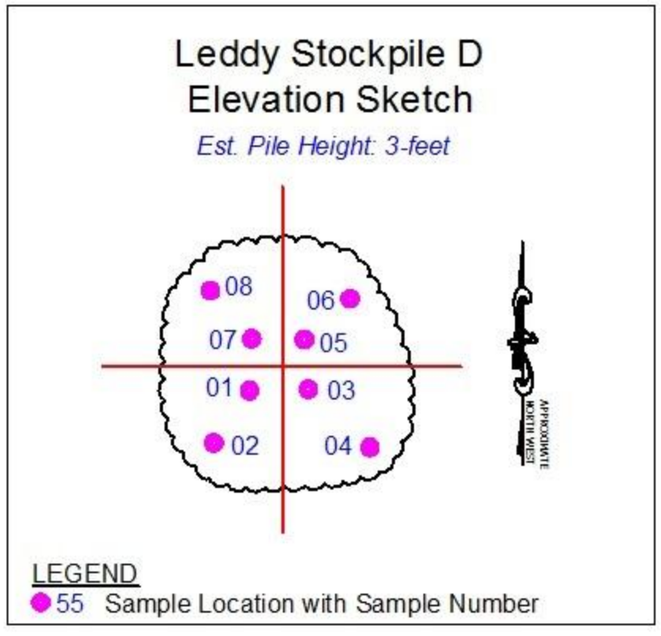
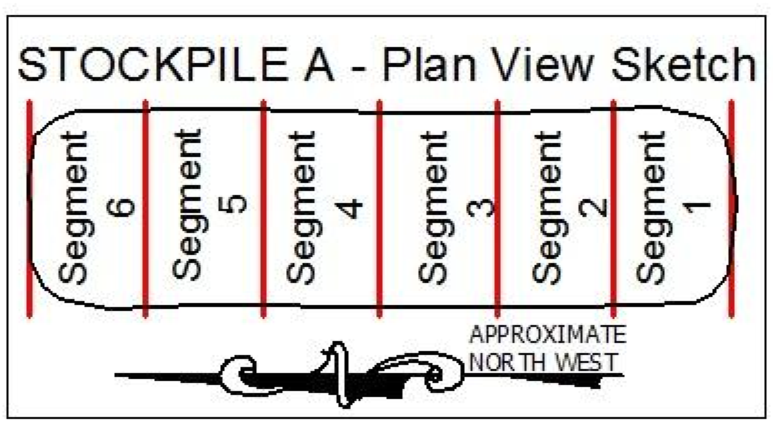


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 1)																
				Sample ID (ft-aps):	SP-A-51 (13.5)	SP-A-52 (10.5)	SP-A-53 (7.5)	SP-A-54 (4.5)	SP-A-55 (1.5)	SP-A-56 (13.5)	SP-A-57 (10.5)	SP-A-58 (7.5)	SP-A-59 (4.5)	SP-A-60 (1.5)	SP-A-86 (13.5)	SP-A-87 (10.5)	SP-A-88 (7.5)	SP-A-89 (4.5)	SP-A-90 (1.5)	SP-A-DUP-05	
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	
	Screening Level																			Parent:	
Analyte	Ind	Res	SSL	Units																SP-A-90 (1.5)	*RPD*
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1248	0.94	0.23	---	mg/kg	0.061	< 0.02	< 0.02	< 0.02	**0.43**	< 0.02	< 0.02	0.091	< 0.02	< 0.02	0.03	0.058	0.07	0.041	**0.28**	0.17	*49%*
PCB-1254	0.97	0.24	0.12	mg/kg	**0.13**	**0.3**	< 0.02	0.042	**0.21**	**0.28**	**0.53**	**0.21**	**1.2**	**2.6**	0.067	**0.14**	**0.14**	0.087	**0.86**	**0.49**	*55%*
PCB-1260	0.99	0.24	---	mg/kg	0.19	**0.91**	0.041	0.073	0.2	**0.57**	**1**	**0.3**	**1**	**1.6**	0.13	**0.27**	**0.27**	0.12	**0.98**	**0.75**	*27%*
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
Total PCBs	---	---	---	mg/kg	0.381	1.21	0.041	0.115	0.84	0.85	1.53	0.601	2.2	4.2	0.227	0.468	0.48	0.248	2.12	1.41	---



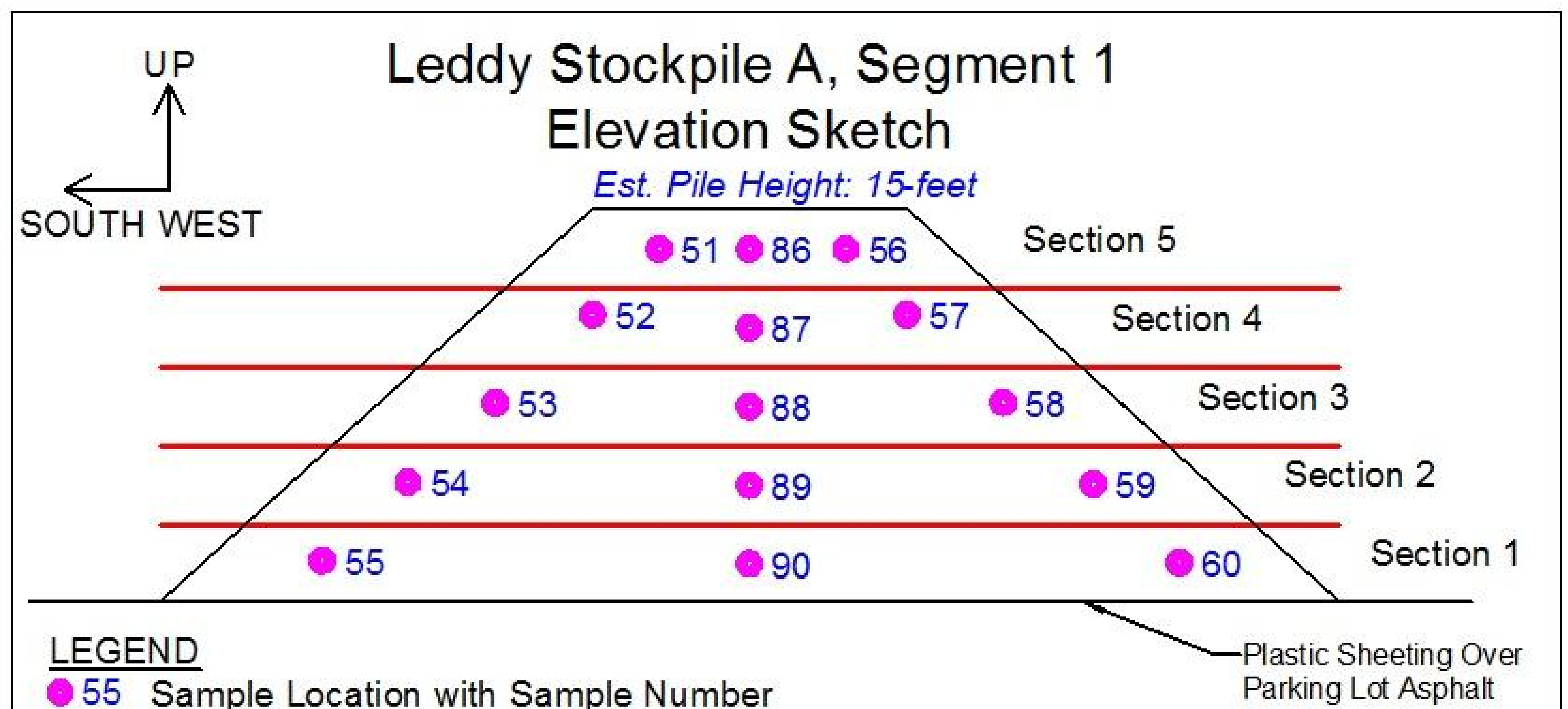
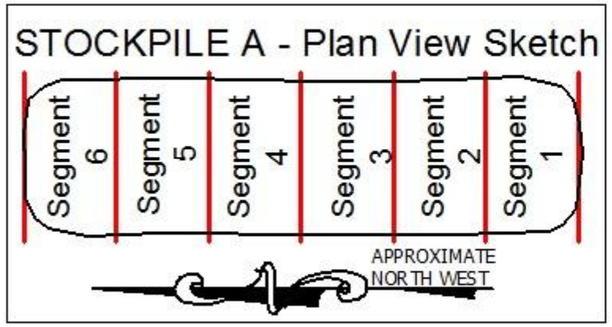


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile A (Segment 2)																
Sample ID (ft-aps):					SP-A-41 (11.25)	SP-A-42 (8.75)	SP-A-43 (6.25)	SP-A-44 (3.75)	SP-A-DUP-03		SP-A-45 (1.25)	SP-A-46 (11.25)	SP-A-47 (8.75)	SP-A-48 (6.25)	SP-A-49 (3.75)	SP-A-50 (1.25)	SP-A-81 (11.25)	SP-A-82 (10.5)	SP-A-83 (7.5)	SP-A-84 (4.5)	SP-A-85(1.5)
Sample Date:					9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level								Parent:												
Analyte	Ind	Res	SSL	Units					SP-A-44 (3.75)	*RPD*											
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	0.19	---	< 0.02	< 0.02	< 0.02	0.08	< 0.02	0.087	0.091	0.038	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	**0.13**	**0.16**	**0.13**	**0.17**	**0.35**	*69%*	0.092	< 0.02	0.036	**0.13**	0.11	**0.27**	**0.16**	0.049	0.024	**0.33**	**0.12**
PCB-1260	0.99	0.24	---	mg/kg	0.19	**0.25**	**0.24**	**0.26**	**0.33**	*24%*	0.13	< 0.02	0.05	0.15	0.23	**0.33**	**0.34**	0.052	0.029	**0.48**	0.13
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	0.32	0.41	0.37	0.43	0.87	---	0.222	ND	0.086	0.36	0.34	0.687	0.591	0.139	0.053	0.81	0.25



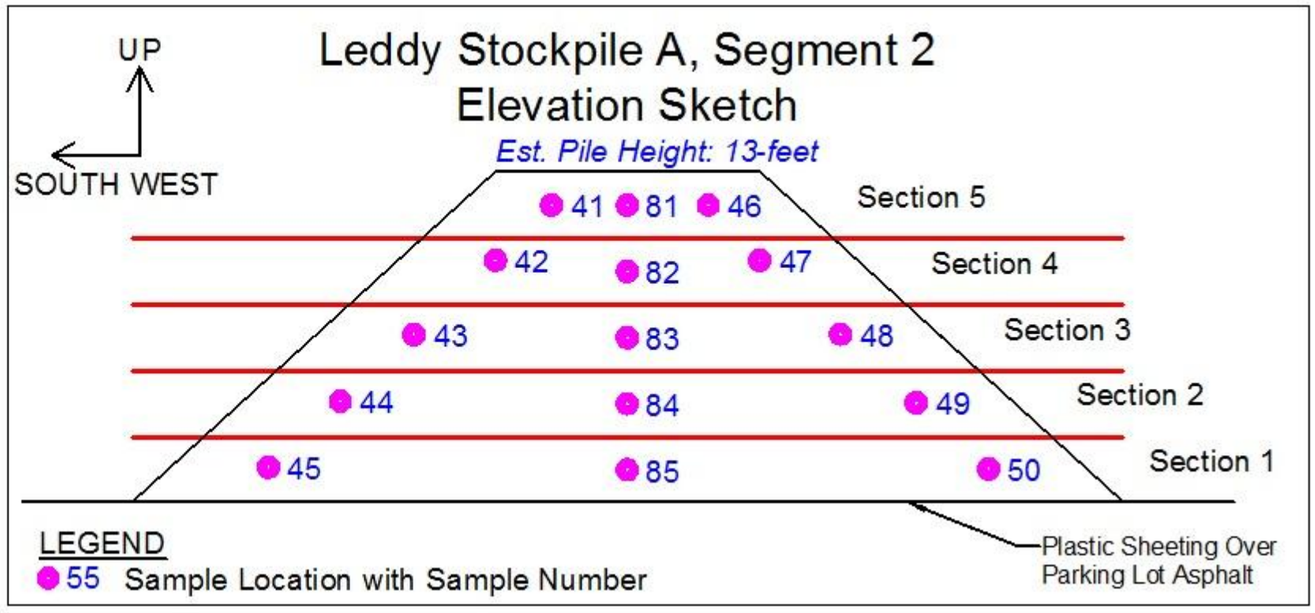
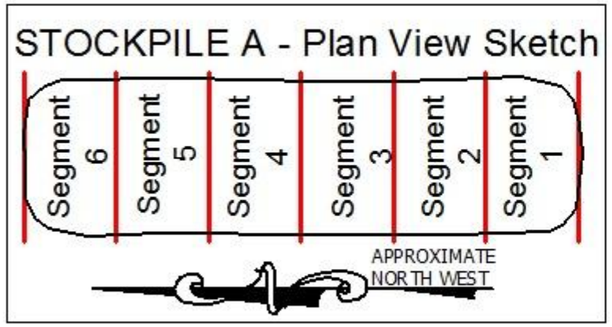


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

	Sample Location:				Alden Waterfront Park, Stockpile A (Segment 3)														
	Sample ID (ft-aps):				SP-A-31 (13.5)	SP-A-32 (10.5)	SP-A-33 (7.5)	SP-A-34 (4.5)	SP-A-35 (1.5)	SP-A-36 (13.5)	SP-A-37 (10.5)	SP-A-38 (7.5)	SP-A-39 (4.5)	SP-A-40 (1.5)	SP-A-76 (13.5)	SP-A-77 (10.5)	SP-A-78 (7.5)	SP-A-79 (4.5)	SP-A-80 (1.5)
	Sample Date:				9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level																		
Analyte	Ind	Res	SSL	Units															
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	0.2	**1.3**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.069	0.047
PCB-1254	0.97	0.24	0.12	mg/kg	**0.31**	**1.6**	**0.26**	**0.29**	**0.28**	0.039	0.021	0.069	< 0.02	< 0.02	< 0.02	< 0.02	0.043	0.059	0.08
PCB-1260	0.99	0.24	---	mg/kg	**0.7**	**1.5**	**0.65**	**0.64**	**0.61**	0.074	0.028	0.091	0.047	0.061	< 0.02	< 0.02	0.057	0.069	0.077
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	1.21	4.4	0.91	0.93	0.89	0.113	0.049	0.16	0.047	0.061	ND	ND	0.1	0.197	0.204



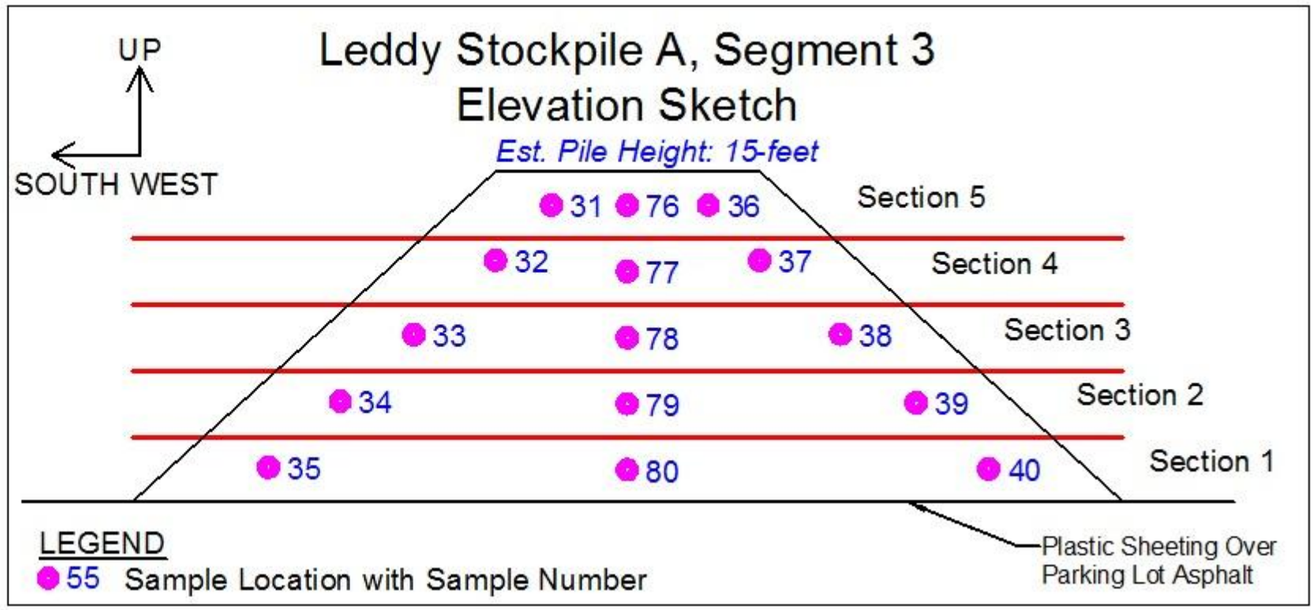
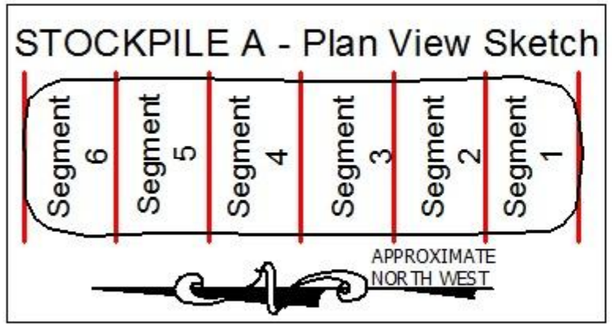


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile A (Segment 4)																
Sample ID (ft-aps):					SP-A-21 (13.5)	SP-A-22 (10.5)	SP-A-23 (7.5)	SP-A-24 (4.5)	SP-A-25 (1.5)	SP-A-26 (13.5)	SP-A-27 (10.5)	SP-A-28 (7.5)	SP-A-29 (4.5)	SP-A-30 (1.5)	SP-A-DUP-02		SP-A-71 (13.5)	SP-A-72 (10.5)	SP-A-73 (7.5)	SP-A-74 (4.5)	SP-A-75 (1.5)
Sample Date:					9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015 Parent: SP-A-30 (1.5)		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level																				
Analyte	Ind	Res	SSL	Units												*RPD*					
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.14	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	**0.21**	< 0.02	0.061	0.043	0.042	0.087	< 0.02	0.027	0.03	0.087	0.045	*64%*	**0.29**	< 0.02	0.075	0.095	0.059
PCB-1260	0.99	0.24	---	mg/kg	0.23	0.043	0.078	0.069	0.063	0.13	0.044	0.047	0.053	0.081	0.079	*3%*	0.22	0.037	0.1	0.15	0.025
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	0.44	0.043	0.139	0.112	0.105	0.217	0.044	0.074	0.083	0.308	0.124	---	0.51	0.037	0.175	0.245	0.084



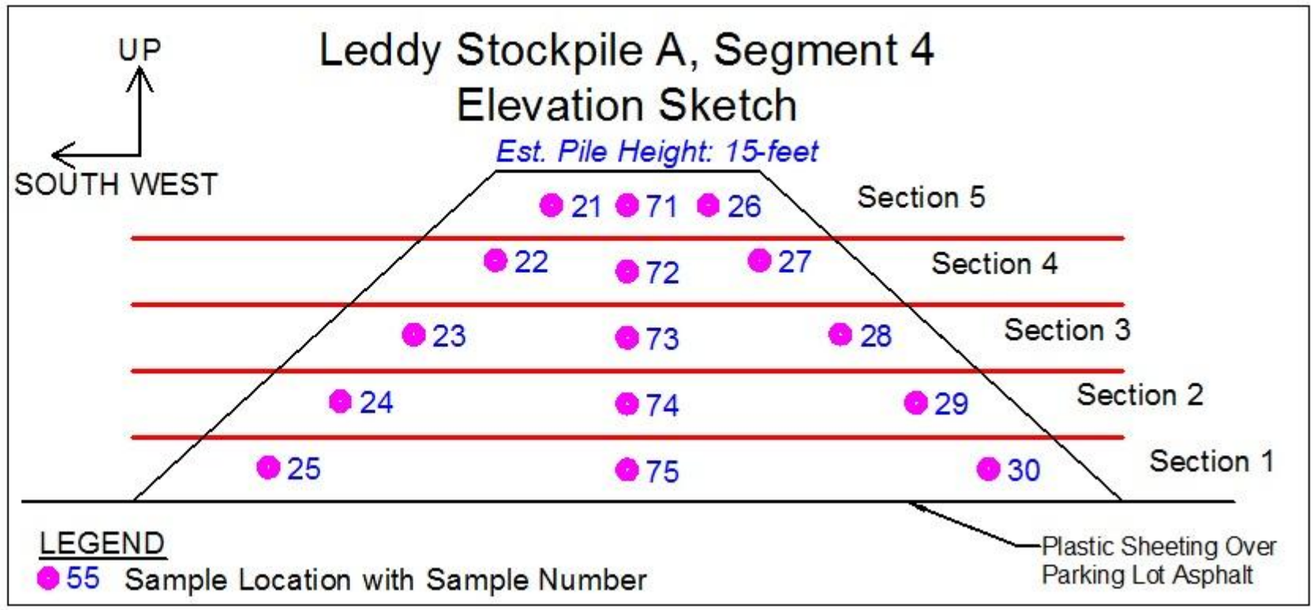
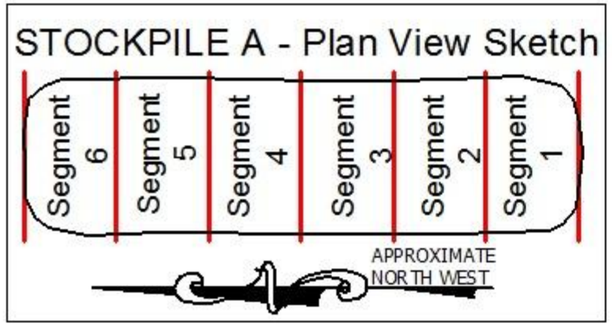


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile A (Segment 5)														
Sample ID (ft-aps):					SP-A-11 (13.5)	SP-A-12 (10.5)	SP-A-13 (7.5)	SP-A-14 (4.5)	SP-A-15 (1.5)	SP-A-16 (13.5)	SP-A-17 (10.5)	SP-A-18 (7.5)	SP-A-19 (4.5)	SP-A-20 (1.5)	SP-A-66 (13.5)	SP-A-67 (10.5)	SP-A-68 (7.5)	SP-A-69 (4.5)	SP-A-70 (1.5)
Sample Date:					9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level																		
Analyte	Ind	Res	SSL	Units															
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	0.06	< 0.02	**0.21**	**0.24**	< 0.02	0.067	0.06	0.068	0.08	0.085	< 0.02	< 0.02	< 0.02	< 0.02	**0.2**
PCB-1260	0.99	0.24	---	mg/kg	0.085	0.062	**0.6**	**0.46**	**1.2**	0.1	0.072	0.074	0.094	0.098	0.025	0.023	0.027	0.036	0.22
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	0.145	0.062	0.81	0.7	1.2	0.167	0.132	0.142	0.174	0.183	0.025	0.023	0.027	0.036	0.42



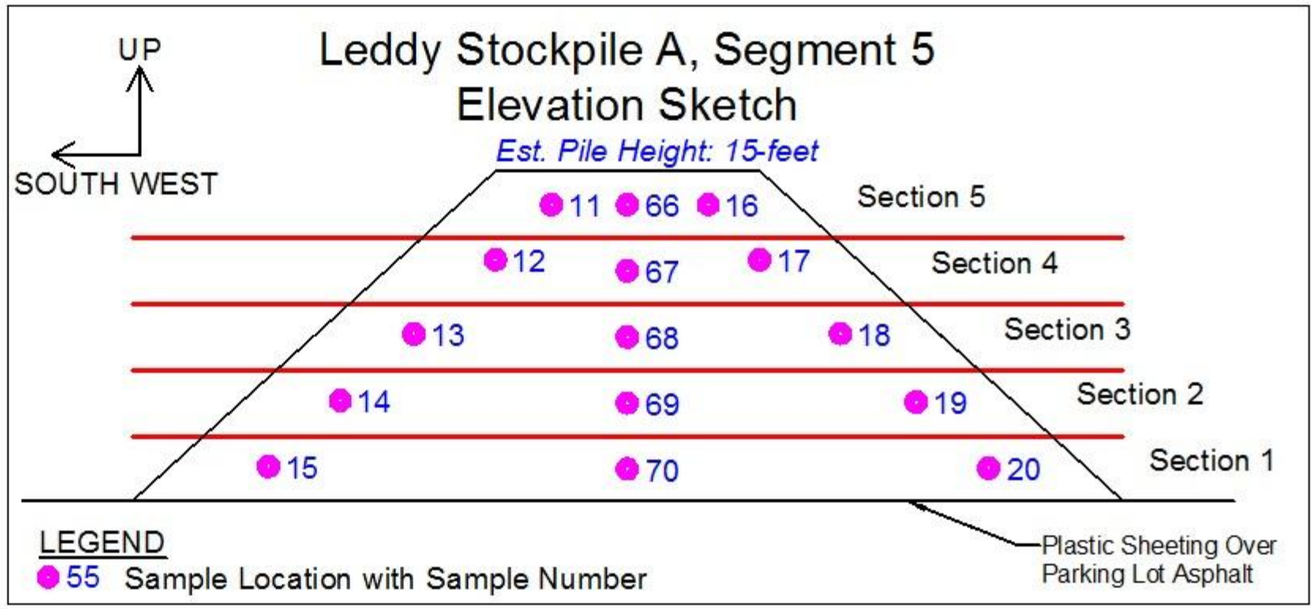
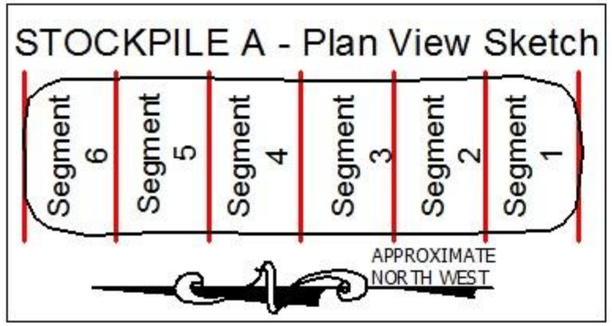


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile A (Segment 6)																	
Sample ID (ft-aps):					SP-A-01 (1.5)	SP-A-02 (4.5)	SP-A-03 (7.5)	SP-A-04 (10.5)	SP-A-05 (13.5)	SP-A-06 (13.5)	SP-A-07 (10.5)	SP-A-08 (7.5)	SP-A-DUP-01		SP-A-09 (4.5)	SP-A-10 (1.5)	SP-A-61 (13.5)	SP-A-DUP-04		SP-A-62 (10.5)	SP-A-63 (7.5)	SP-A-64 (4.5)	SP-A-65 (1.5)
Sample Date:					9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	9/16/2015	9/16/2015		9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level												Parent:					Parent:					
Analyte	Ind	Res	SSL	Units									SP-A-08 (7.5)	*RPD*				SP-A-61 (13.5)	*RPD*				
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	**0.16**	**0.13**	**0.13**	**0.14**	**0.12**	0.054	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	0.03	< 0.02	0.035	< 0.02
PCB-1260	0.99	0.24	---	mg/kg	**0.65**	**0.31**	**0.27**	**0.29**	0.17	0.063	0.064	0.035	0.047	*29%*	0.024	0.031	0.023	0.022	*4%*	0.037	0.033	0.044	0.026
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	0.81	0.44	0.4	0.43	0.29	0.117	0.064	0.035	0.047	---	0.024	0.031	0.023	0.022	---	0.067	0.033	0.079	0.026



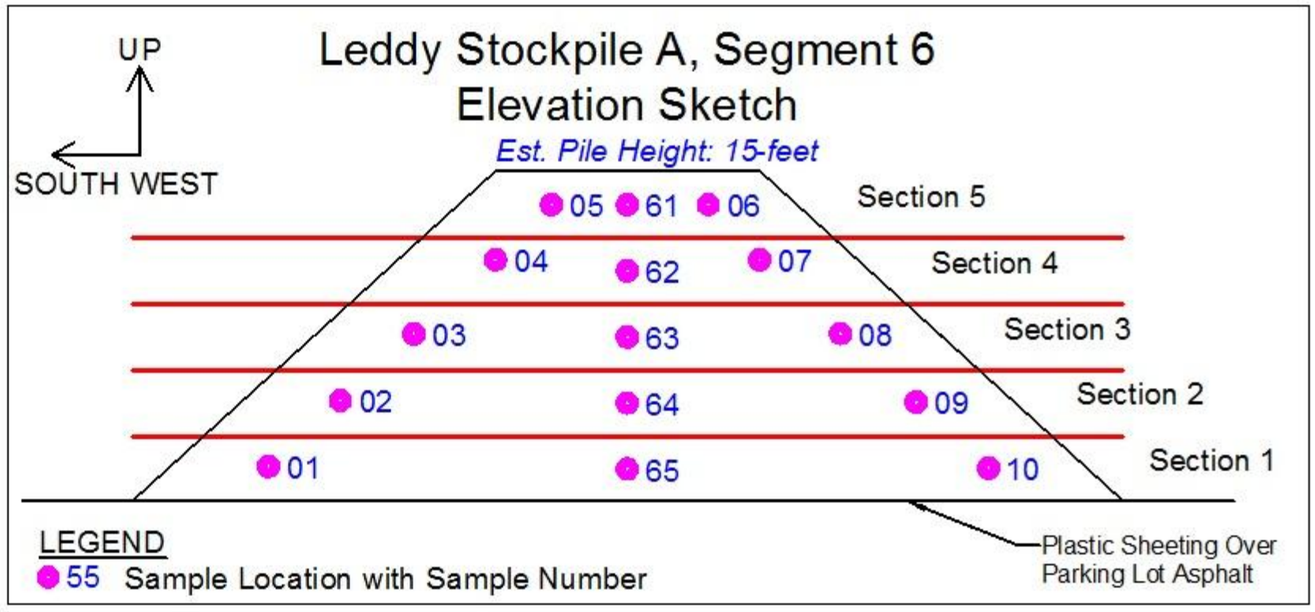


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile B									
Sample ID (ft-aps):					SP-B-01 (4.5)	SP-B-02 (1.5)	SP-B-03 (4.5)	SP-B-04 (1.5)	SP-B-DUP-01		SP-B-05 (4.5)	SP-B-06 (1.5)	SP-B-07 (4.5)	SP-B-08 (1.5)
Sample Date:					9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015		9/14/2015	9/14/2015	9/14/2015	9/14/2015
	Screening Level								Parent:					
Analyte	Ind	Res	SSL	Units					SP-B-04 (1.5)	*RPD*				
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	< 0.02	< 0.02	< 0.02	0.032	0.042	*27%*	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	0.99	0.24	---	mg/kg	< 0.02	< 0.02	< 0.02	0.052	0.063	*19%*	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	ND	ND	ND	0.084	0.105	---	ND	ND	ND	ND

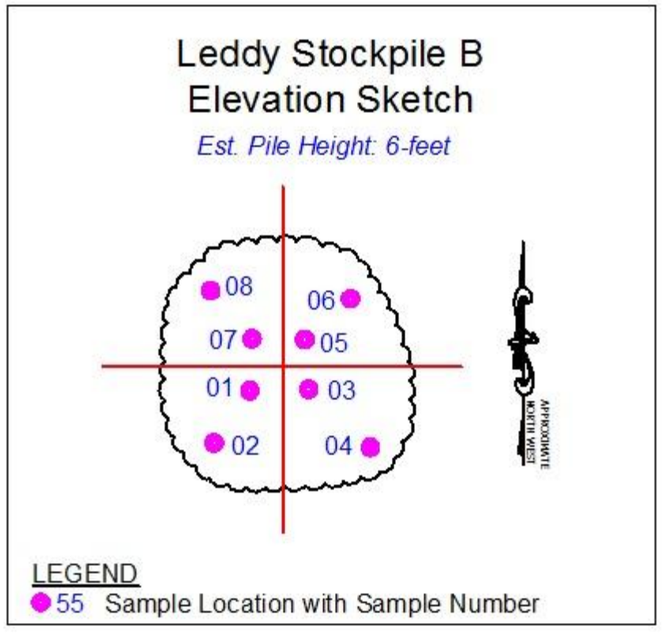


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile C									
Sample ID (ft-aps):					SP-C-01 (3)	SP-C-02 (1)	SP-C-DUP-01		SP-C-03 (3)	SP-C-04 (1)	SP-C-05 (3)	SP-C-06 (1)	SP-C-07 (3)	SP-C-08 (1)
Sample Date:					9/14/2015	9/14/2015	9/14/2015		9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015
	Screening Level						Parent:							
Analyte	Ind	Res	SSL	Units			SP-C-02 (1)	*RPD*						
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	**0.23**	< 0.02	0.081
PCB-1254	0.97	0.24	0.12	mg/kg	< 0.02	0.056	0.059	*5%*	< 0.02	< 0.02	0.072	**0.12**	0.053	0.11
PCB-1260	0.99	0.24	---	mg/kg	0.037	0.086	0.087	*1%*	0.025	< 0.02	0.1	0.13	0.076	**0.25**
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	mg/kg	0.037	0.142	0.146	---	0.025	ND	0.172	0.48	0.129	0.441

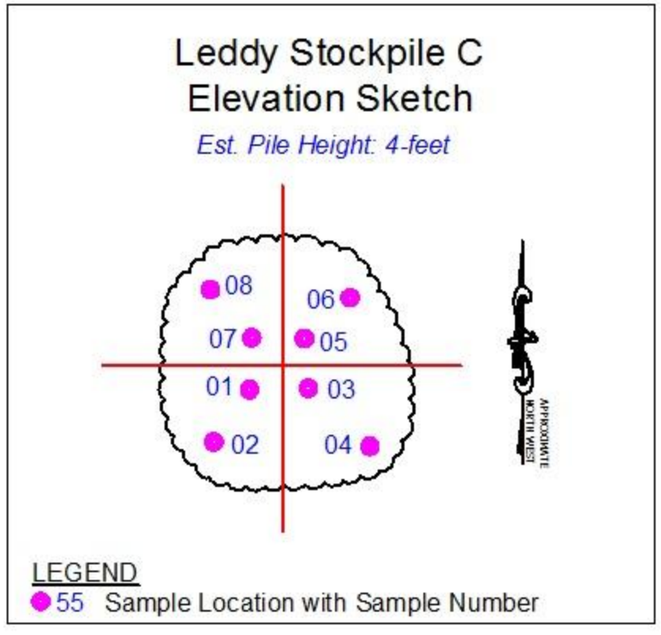


Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample Location:					Alden Waterfront Park, Stockpile D										QC
Sample ID (ft-aps):					SP-D-01 (1)	SP-D-02 (0.5)	SP-D-03 (1)	SP-D-04 (0.5)	SP-D-05 (1)	SP-D-06 (0.5)	SP-D-07 (1)	SP-D-08 (0.5)	SP-D-DUP-01		FB-SP-01
Sample Date:					9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015 Parent: SP-D-08 (0.5)		9/15/2015
	Screening Level														Units:
Analyte	Ind	Res	SSL	Units										*RPD*	µg/L
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	**0.27**	< 0.02	< 0.02	< 0.02	0.21	0.18	< 0.02	---	< 0.2
PCB-1254	0.97	0.24	0.12	mg/kg	**0.61**	**0.2**	**0.91**	**0.19**	**1.2**	**0.66**	**0.73**	**0.73**	**2.3**	*104%*	< 0.2
PCB-1260	0.99	0.24	---	mg/kg	**0.58**	0.23	**0.64**	**0.25**	**0.75**	**1.3**	**0.64**	**0.85**	**1.1**	*26%*	< 0.2
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
Total PCBs	---	---	---	mg/kg	1.19	0.43	1.82	0.44	1.95	1.96	1.58	1.76	3.4	---	ND

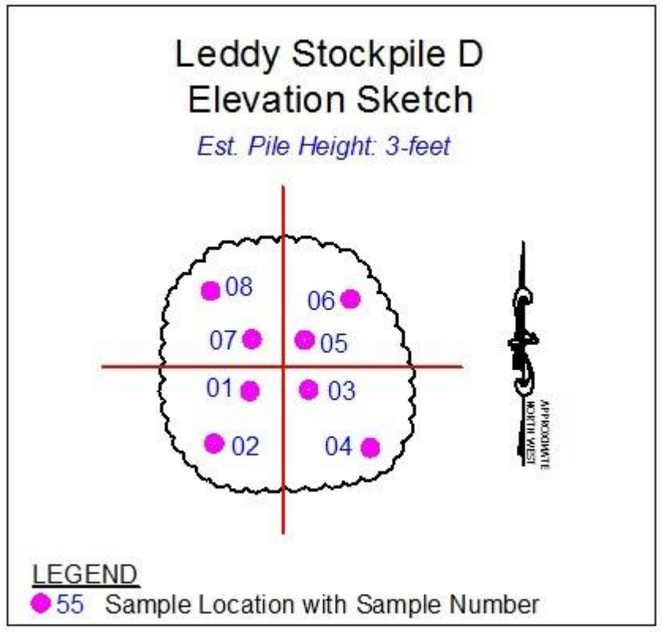


Table 3 - Leddy Park Drainage Swale Sediment Analytical Results Summary
Leddy Park, Burlington, VT

				Sample Location:	Drain Swale
				Sample ID (ft-aps):	Drain Sediment
				Sample Date:	9/14/2015
	Screening Level				
Analyte	Ind	Res	SSL	Units	
PCB-1016	27	4.1	---	mg/kg	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	< 0.02
PCB-1260	0.99	0.24	---	mg/kg	< 0.02
PCB-1262	---	---	---	mg/kg	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02
Total PCBs	---	---	---	mg/kg	ND

Table 4 - PAH Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample ID (ft-bgs):						SB-01 (1.4)	SB-DUP-01		SB-02 (1.9)	SB-10 (1.4)	SB-28 (1.0)	SB-EB-01
Sample Date:						9/17/2015	9/17/2015		9/17/2015	9/17/2015	9/17/2015	9/17/2015
Sample Level:						Upper	Upper		Upper	Upper	Upper	
	Screening Level			BaP								
Analyte	Ind	Res	SSL	TEF	Units			*RPD*				
2-Methylnaphthalene	3000	240	---	0	mg/kg	0.094	0.1	*6%*	0.055	0.011	0.3	< 0.1
Acenaphthene	45000	3600	---	0	mg/kg	< 0.008	< 0.008	---	< 0.007	< 0.008	0.083	< 0.1
Acenaphthylene	---	---	---	0	mg/kg	0.015	0.016	*6%*	0.053	< 0.008	0.054	< 0.1
Anthracene	230000	18000	---	0	mg/kg	0.016	0.018	*12%*	0.065	0.011	0.19	< 0.1
Benzo[a]anthracene	2.9	0.16	---	0.10	mg/kg	0.053	0.069	*26%*	0.15	0.036	**0.74**	< 0.1
Benzo[a]pyrene	0.29	0.016	0.01	1.00	mg/kg	**0.054**	**0.071**	*27%*	**0.18**	**0.035**	**0.77**	< 0.1
Benzo[b]fluoranthene	2.9	0.16	---	0.10	mg/kg	0.11	0.13	*17%*	**0.33**	0.052	**1.1**	< 0.1
Benzo[g,h,i]perylene	---	---	---	0.00	mg/kg	< 0.008	0.084	---	0.17	0.04	0.67	< 0.1
Benzo[k]fluoranthene	29	1.6	---	0.01	mg/kg	0.03	0.036	*18%*	0.1	0.018	0.32	< 0.1
Chrysene	290	16	---	0.01	mg/kg	0.12	0.14	*15%*	0.18	0.043	1	< 0.1
Dibenz[a,h]anthracene	0.29	0.016	---	1.00	mg/kg	**0.02**	**0.024**	*18%*	**0.05**	0.0086	**0.17**	< 0.1
Fluoranthene	30000	2400	---	0.00	mg/kg	0.11	0.14	*24%*	0.15	0.074	1.6	< 0.1
Fluorene	30000	2400	---	0.00	mg/kg	< 0.008	< 0.008	---	0.0076	< 0.008	0.11	< 0.1
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	0.10	mg/kg	0.061	0.076	*22%*	**0.18**	0.039	**0.67**	< 0.1
Naphthalene	17	3.8	1.53	0	mg/kg	0.1	0.11	*10%*	0.041	0.014	0.47	< 0.1
Phenanthrene	---	---	---	0	mg/kg	0.13	0.15	*14%*	0.073	0.053	1.3	< 0.1
Pyrene	23000	1800	---	0	mg/kg	0.078	0.11	*34%*	0.23	0.06	1.4	< 0.1
BaP TEQ	0.29	0.016	0.01	---	mg/kg	**0.10**	**0.12**	*24%*	**0.30**	**0.06**	**1.20**	ND

Table 5 - PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample ID (ft-bgs):				SB-01 (1.4)	SB-DUP-01		SB-01 (2.0)	SB-02 (1.9)	SB-02 (2.7)	SB-03 (1.0)	SB-DUP-02		SB-03 (2.0)	SB-04 (1.5)	SB-04 (2.5)	SB-05 (1.4)	SB-05 (2.4)	SB-06 (1.3)	SB-06 (2.3)	SB-07 (1.3)	SB-07 (2.3)	SB-08 (1.3)	SB-08 (2.3)
Sample Date:				9/17/2015	9/17/2015		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
Sample Level:				Upper	Upper		Lower	Upper	Lower	Upper	Upper		Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
	Screening Level				Parent:						Parent:												
Analyte	Ind	Res	SSL		SB-01 (1.4)	*RPD*					SB-03 (1.0)	*RPD*											
PCB-1016	27	4.1	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	0.06	< 0.02	---	< 0.02	< 0.02	0.078	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	**0.54**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	0.99	0.24	---	< 0.02	< 0.02	---	0.023	0.18	0.13	**0.27**	**0.33**	*20%*	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	**0.56**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	---	---	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	0.06	< 0.02	---	0.023	0.18	0.208	0.27	0.33	---	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	1.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

See Notes Sheet for Acronym, Units, and Shading Definitions, etc

Table 5 - PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample ID (ft-bgs):				SB-09 (1.4)	SB-09 (2.0)	SB-10 (1.4)	SB-10 (2.2)	SB-11 (2.0)	SB-11 (2.5)	SB-12 (1.9)	SB-12 (2.3)	SB-13 (1.8)	SB-13 (2.3)	SB-14 (2.0)	SB-14 (3.0)	SB-DUP-03		SB-15 (1.5)	SB-15 (2.5)	SB-16 (1.4)	SB-16 (2.2)
Sample Date:				9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015		9/17/2015	9/17/2015	9/17/2015	9/17/2015
Sample Level:				Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Lower		Upper	Lower	Upper	Lower
	Screening Level															Parent:					
Analyte	Ind	Res	SSL													SB-14 (3.0)	*RPD*				
PCB-1016	27	4.1	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	< 0.02	< 0.02	< 0.02	**0.3**	< 0.02	< 0.02	**2.8**	**0.48**	**1.4**	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	0.99	0.24	---	< 0.02	< 0.02	0.046	**0.29**	**0.88**	0.024	**1.3**	**0.4**	**0.69**	0.21	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	0.23	< 0.02
PCB-1262	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	< 0.02	< 0.02	0.046	0.59	0.88	0.024	4.1	0.88	2.09	0.21	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	0.23	< 0.02

Table 5 - PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample ID (ft-bgs):				SB-17 (0.9)	SB-17 (1.9)	SB-18 (1.5)	SB-18 (2.5)	SB-19 (1.2)	SB-19 (2.2)	SB-20 (0.8)	SB-20 (1.8)	SB-21 (1.4)	SB-21 (2.4)	SB-22 (1.2)	SB-22 (2.2)	SB-23 (0.9)	SB-23 (1.9)	SB-24 (0.9)	SB-24 (1.9)	SB-25 (1.2)	SB-25 (2.2)
Sample Date:				9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
Sample Level:				Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
	Screening Level																				
Analyte	Ind	Res	SSL																		
PCB-1016	27	4.1	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	0.99	0.24	---	**1.6**	< 0.02	**1.5**	< 0.02	**0.34**	< 0.02	0.062	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	1.6	< 0.02	1.5	< 0.02	0.34	< 0.02	0.062	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Table 5 - PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample ID (ft-bgs):				SB-26 (1.5)	SB-26 (2.5)	SB-27 (0.7)	SB-27 (1.7)	SB-28 (1.0)	SB-28 (2.0)	SB-DUP-04		SB-29 (0.8)	SB-29 (1.8)	SB-30 (1.0)	SB-30 (2.0)	SB-31 (0.5)	SB-31 (1.5)	SB-32 (0.7)	SB-32 (1.7)	SB-33 (0.9)	SB-33 (1.9)
Sample Date:				9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
Sample Level:				Upper	Lower	Upper	Lower	Upper	Lower	Lower		Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
	Screening Level									Parent:											
Analyte	Ind	Res	SSL							SB-28 (2.0)	*RPD*										
PCB-1016	27	4.1	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	0.056	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.6**	< 0.02	< 0.02	< 0.02
PCB-1260	0.99	0.24	---	< 0.02	< 0.02	0.091	0.12	< 0.02	< 0.02	< 0.02	---	0.13	0.12	< 0.02	< 0.02	< 0.02	0.022	**0.68**	0.039	< 0.02	< 0.02
PCB-1262	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total PCBs	---	---	---	< 0.02	< 0.02	0.091	0.12	< 0.02	< 0.02	< 0.02	---	0.186	0.12	< 0.02	< 0.02	< 0.02	0.022	1.28	0.039	< 0.02	< 0.02

Table 5 - PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

	Sample ID (ft-bgs):			SB-34 (0.8)	SB-34 (1.8)	SB-35 (0.8)	SB-35 (1.8)	SB-36 (1.3)	SB-36 (2.3)	SB-EB-01
	Sample Date:			9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
	Sample Level:			Upper	Lower	Upper	Lower	Upper	Lower	
	Screening Level									Units:
Analyte	Ind	Res	SSL							ug/l
PCB-1016	27	4.1	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1221	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1232	0.72	0.17	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1242	0.97	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1248	0.94	0.23	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1254	0.97	0.24	0.12	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1260	0.99	0.24	---	< 0.02	0.033	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1262	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
PCB-1268	---	---	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
Total PCBs	---	---	---	< 0.02	0.033	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2

Table 6 - Groundwater Field Parameters
Alden Waterfront Park, Burlington, VT

Monitoring Well	Casing Diameter (in)	Total Depth (ft-btoc	Screen Length (ft)	Static Water Level (ft-btoc)	Spec. Cond. (uS/cm)	D.O. (mg/L)	pH (std)	ORP (mv)	Turbidity (NTU)
MW-01	1	12.83	10	4.6	1,955	0.28	6.75	-98.4	4.45
MW-02	1	12.81	10	5.03	1,782	0.32	6.57	-19.5	6.5

Table 7 - PCB Groundwater Analytical Results Summary
Alden Waterfront Park, Burlington, VT

Sample ID:			MW-01	MW-Dup		MW-02	MW-EB-01
Sample Date:			9/18/2015	9/18/2015		9/18/2015	9/18/2015
Analyte	VGES	Units		Parent: MW-01	*RPD*		
PCB-1016	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1221	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1232	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1242	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1248	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1254	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1260	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1262	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
PCB-1268	---	ug/l	< 0.2	< 0.2	---	< 0.2	< 0.2
Total PCBs	0.5	ug/l	ND	ND	---	ND	ND

ATTACHMENT 4

Laboratory Reports

Eastern Analytical, Inc.

professional laboratory & drilling services

Jeremy Matt
The Johnson Company
100 State Street
Montpelier , VT 05602

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 148044
Client Identification: Leddy Park Burlington, VT
Date Received: 9/16/2015

Dear Mr. Matt :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Jennifer Scott for — Lorraine Olashaw, Lab Director

9.30.15 — Date

108 — # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Temperature upon receipt (°C): 4.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148044.01	Drain Sediment	9/16/15	9/14/15	soil	81.1	Adheres to Sample Acceptance Policy
148044.02	FB-SP-01	9/16/15	9/15/15	aqueous		Adheres to Sample Acceptance Policy
148044.03	SP-A-01 (1.5)	9/16/15	9/15/15	soil	86.3	Adheres to Sample Acceptance Policy
148044.04	SP-A-02 (4.5)	9/16/15	9/15/15	soil	88.2	Adheres to Sample Acceptance Policy
148044.05	SP-A-03 (7.5)	9/16/15	9/15/15	soil	90.1	Adheres to Sample Acceptance Policy
148044.06	SP-A-04 (10.5)	9/16/15	9/15/15	soil	87.9	Adheres to Sample Acceptance Policy
148044.07	SP-A-05 (13.5)	9/16/15	9/15/15	soil	93.5	Adheres to Sample Acceptance Policy
148044.08	SP-A-06 (13.5)	9/16/15	9/15/15	soil	92.4	Adheres to Sample Acceptance Policy
148044.09	SP-A-07 (10.5)	9/16/15	9/15/15	soil	92.1	Adheres to Sample Acceptance Policy
148044.1	SP-A-08 (7.5)	9/16/15	9/15/15	soil	93.9	Adheres to Sample Acceptance Policy
148044.11	SP-A-09 (4.5)	9/16/15	9/15/15	soil	89.8	Adheres to Sample Acceptance Policy
148044.12	SP-A-10 (1.5)	9/16/15	9/15/15	soil	89.0	Adheres to Sample Acceptance Policy
148044.13	SP-A-11 (13.5)	9/16/15	9/15/15	soil	90.0	Adheres to Sample Acceptance Policy
148044.14	SP-A-12 (10.5)	9/16/15	9/15/15	soil	89.2	Adheres to Sample Acceptance Policy
148044.15	SP-A-13 (7.5)	9/16/15	9/15/15	soil	88.1	Adheres to Sample Acceptance Policy
148044.16	SP-A-14 (4.5)	9/16/15	9/15/15	soil	87.6	Adheres to Sample Acceptance Policy
148044.17	SP-A-15 (1.5)	9/16/15	9/15/15	soil	88.5	Adheres to Sample Acceptance Policy
148044.18	SP-A-16 (13.5)	9/16/15	9/15/15	soil	89.3	Adheres to Sample Acceptance Policy
148044.19	SP-A-17 (10.5)	9/16/15	9/15/15	soil	88.9	Adheres to Sample Acceptance Policy
148044.2	SP-A-18 (7.5)	9/16/15	9/15/15	soil	88.2	Adheres to Sample Acceptance Policy
148044.21	SP-A-19 (4.5)	9/16/15	9/15/15	soil	86.9	Adheres to Sample Acceptance Policy
148044.22	SP-A-20 (1.5)	9/16/15	9/15/15	soil	84.9	Adheres to Sample Acceptance Policy
148044.23	SP-A-21 (13.5)	9/16/15	9/15/15	soil	91.0	Adheres to Sample Acceptance Policy
148044.24	SP-A-22 (10.5)	9/16/15	9/15/15	soil	92.9	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
All results contained in this report relate only to the above listed samples.
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3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

SAMPLE CONDITIONS PAGE

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Temperature upon receipt (°C): 4.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148044.25	SP-A-23 (7.5)	9/16/15	9/15/15	soil	92.2	Adheres to Sample Acceptance Policy
148044.26	SP-A-24 (4.5)	9/16/15	9/15/15	soil	89.6	Adheres to Sample Acceptance Policy
148044.27	SP-A-25 (1.5)	9/16/15	9/15/15	soil	86.8	Adheres to Sample Acceptance Policy
148044.28	SP-A-26 (13.5)	9/16/15	9/15/15	soil	90.2	Adheres to Sample Acceptance Policy
148044.29	SP-A-27 (10.5)	9/16/15	9/15/15	soil	90.5	Adheres to Sample Acceptance Policy
148044.3	SP-A-28 (7.5)	9/16/15	9/15/15	soil	89.3	Adheres to Sample Acceptance Policy
148044.31	SP-A-29 (4.5)	9/16/15	9/15/15	soil	89.7	Adheres to Sample Acceptance Policy
148044.32	SP-A-30 (1.5)	9/16/15	9/15/15	soil	87.8	Adheres to Sample Acceptance Policy
148044.33	SP-A-31 (13.5)	9/16/15	9/15/15	soil	90.6	Adheres to Sample Acceptance Policy
148044.34	SP-A-32 (10.5)	9/16/15	9/15/15	soil	90.9	Adheres to Sample Acceptance Policy
148044.35	SP-A-33 (7.5)	9/16/15	9/15/15	soil	91.9	Adheres to Sample Acceptance Policy
148044.36	SP-A-34 (4.5)	9/16/15	9/15/15	soil	90.0	Adheres to Sample Acceptance Policy
148044.37	SP-A-35 (1.5)	9/16/15	9/15/15	soil	84.0	Adheres to Sample Acceptance Policy
148044.38	SP-A-36 (13.5)	9/16/15	9/15/15	soil	90.2	Adheres to Sample Acceptance Policy
148044.39	SP-A-37 (10.5)	9/16/15	9/15/15	soil	90.0	Adheres to Sample Acceptance Policy
148044.4	SP-A-38 (7.5)	9/16/15	9/15/15	soil	89.6	Adheres to Sample Acceptance Policy
148044.41	SP-A-39 (4.5)	9/16/15	9/15/15	soil	89.8	Adheres to Sample Acceptance Policy
148044.42	SP-A-40 (1.5)	9/16/15	9/15/15	soil	86.5	Adheres to Sample Acceptance Policy
148044.43	SP-A-41 (11.25)	9/16/15	9/15/15	soil	87.7	Adheres to Sample Acceptance Policy
148044.44	SP-A-42 (8.75)	9/16/15	9/15/15	soil	89.4	Adheres to Sample Acceptance Policy
148044.45	SP-A-43 (6.25)	9/16/15	9/15/15	soil	88.9	Adheres to Sample Acceptance Policy
148044.46	SP-A-44 (3.75)	9/16/15	9/15/15	soil	90.0	Adheres to Sample Acceptance Policy
148044.47	SP-A-45 (1.25)	9/16/15	9/15/15	soil	88.8	Adheres to Sample Acceptance Policy
148044.48	SP-A-46 (11.25)	9/16/15	9/15/15	soil	88.4	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
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SAMPLE CONDITIONS PAGE

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Temperature upon receipt (°C): 4.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148044.49	SP-A-47 (8.75)	9/16/15	9/15/15	soil	86.0	Adheres to Sample Acceptance Policy
148044.5	SP-A-48 (6.25)	9/16/15	9/15/15	soil	81.9	Adheres to Sample Acceptance Policy
148044.51	SP-A-49 (3.75)	9/16/15	9/15/15	soil	91.1	Adheres to Sample Acceptance Policy
148044.52	SP-A-50 (1.25)	9/16/15	9/15/15	soil	85.4	Adheres to Sample Acceptance Policy
148044.53	SP-A-51 (13.5)	9/16/15	9/15/15	soil	87.8	Adheres to Sample Acceptance Policy
148044.54	SP-A-52 (10.5)	9/16/15	9/15/15	soil	87.7	Adheres to Sample Acceptance Policy
148044.55	SP-A-53 (7.5)	9/16/15	9/15/15	soil	91.3	Adheres to Sample Acceptance Policy
148044.56	SP-A-54 (4.5)	9/16/15	9/15/15	soil	89.6	Adheres to Sample Acceptance Policy
148044.57	SP-A-55 (1.5)	9/16/15	9/15/15	soil	91.4	Adheres to Sample Acceptance Policy
148044.58	SP-A-56 (13.5)	9/16/15	9/15/15	soil	94.8	Adheres to Sample Acceptance Policy
148044.59	SP-A-57 (10.5)	9/16/15	9/15/15	soil	94.1	Adheres to Sample Acceptance Policy
148044.6	SP-A-58 (7.5)	9/16/15	9/15/15	soil	92.7	Adheres to Sample Acceptance Policy
148044.61	SP-A-59 (4.5)	9/16/15	9/15/15	soil	91.7	Adheres to Sample Acceptance Policy
148044.62	SP-A-60 (1.5)	9/16/15	9/15/15	soil	90.4	Adheres to Sample Acceptance Policy
148044.63	SP-A-DUP-01	9/16/15	9/15/15	soil	93.9	Adheres to Sample Acceptance Policy
148044.64	SP-A-DUP-02	9/16/15	9/15/15	soil	89.0	Adheres to Sample Acceptance Policy
148044.65	SP-A-DUP-03	9/16/15	9/15/15	soil	90.1	Adheres to Sample Acceptance Policy
148044.66	SP-B-01 (4.5)	9/16/15	9/14/15	soil	89.1	Adheres to Sample Acceptance Policy
148044.67	SP-B-02 (1.5)	9/16/15	9/14/15	soil	81.2	Adheres to Sample Acceptance Policy
148044.68	SP-B-03 (4.5)	9/16/15	9/14/15	soil	89.4	Adheres to Sample Acceptance Policy
148044.69	SP-B-04 (1.5)	9/16/15	9/14/15	soil	82.2	Adheres to Sample Acceptance Policy
148044.7	SP-B-05 (4.5)	9/16/15	9/14/15	soil	89.3	Adheres to Sample Acceptance Policy
148044.71	SP-B-06 (1.5)	9/16/15	9/14/15	soil	85.1	Adheres to Sample Acceptance Policy
148044.72	SP-B-07 (4.5)	9/16/15	9/14/15	soil	89.2	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

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SAMPLE CONDITIONS PAGE

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Temperature upon receipt (°C): 4.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148044.73	SP-B-08 (1.5)	9/16/15	9/14/15	soil	82.3	Adheres to Sample Acceptance Policy
148044.74	SP-B-DUP-01	9/16/15	9/14/15	soil	81.8	Adheres to Sample Acceptance Policy
148044.75	SP-C-01 (3)	9/16/15	9/14/15	soil	84.5	Adheres to Sample Acceptance Policy
148044.76	SP-C-02 (1)	9/16/15	9/14/15	soil	81.5	Adheres to Sample Acceptance Policy
148044.77	SP-C-03 (3)	9/16/15	9/14/15	soil	86.5	Adheres to Sample Acceptance Policy
148044.78	SP-C-04 (1)	9/16/15	9/14/15	soil	83.4	Adheres to Sample Acceptance Policy
148044.79	SP-C-05 (3)	9/16/15	9/14/15	soil	93.6	Adheres to Sample Acceptance Policy
148044.8	SP-C-06 (1)	9/16/15	9/14/15	soil	80.2	Adheres to Sample Acceptance Policy
148044.81	SP-C-07 (3)	9/16/15	9/14/15	soil	82.6	Adheres to Sample Acceptance Policy
148044.82	SP-C-08 (1)	9/16/15	9/14/15	soil	90.0	Adheres to Sample Acceptance Policy
148044.83	SP-C-DUP-01	9/16/15	9/14/15	soil	82.0	Adheres to Sample Acceptance Policy
148044.84	SP-D-01 (1)	9/16/15	9/14/15	soil	86.3	Adheres to Sample Acceptance Policy
148044.85	SP-D-02 (0.5)	9/16/15	9/14/15	soil	79.4	Adheres to Sample Acceptance Policy
148044.86	SP-D-03 (1)	9/16/15	9/14/15	soil	89.8	Adheres to Sample Acceptance Policy
148044.87	SP-D-04 (0.5)	9/16/15	9/14/15	soil	79.3	Adheres to Sample Acceptance Policy
148044.88	SP-D-05 (1)	9/16/15	9/14/15	soil	88.9	Adheres to Sample Acceptance Policy
148044.89	SP-D-06 (0.5)	9/16/15	9/14/15	soil	81.9	Adheres to Sample Acceptance Policy
148044.9	SP-D-07 (1)	9/16/15	9/14/15	soil	89.0	Adheres to Sample Acceptance Policy
148044.91	SP-D-08 (0.5)	9/16/15	9/14/15	soil	84.5	Adheres to Sample Acceptance Policy
148044.92	SP-D-DUP-01	9/16/15	9/14/15	soil	85.9	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

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4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	FB-SP-01
Lab Sample ID:	148044.02
Matrix:	aqueous
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	ug/l
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.1	1	9/18/15		
2-Methylnaphthalene	< 0.1	1	9/18/15		
Acenaphthylene	< 0.1	1	9/18/15		
Acenaphthene	< 0.1	1	9/18/15		
Fluorene	< 0.1	1	9/18/15		
Phenanthrene	< 0.1	1	9/18/15		
Anthracene	< 0.1	1	9/18/15		
Fluoranthene	< 0.1	1	9/18/15		
Pyrene	< 0.1	1	9/18/15		
Benzo[a]anthracene	< 0.1	1	9/18/15	0.1	< .01
Chrysene	< 0.1	1	9/18/15	0.001	< .0001
Benzo[b]fluoranthene	< 0.1	1	9/18/15	0.1	< .01
Benzo[k]fluoranthene	< 0.1	1	9/18/15	0.01	< .001
Benzo[a]pyrene	< 0.1	1	9/18/15	1	< .1
Indeno[1,2,3-cd]pyrene	< 0.1	1	9/18/15	0.1	< .01
Dibenz[a,h]anthracene	< 0.1	1	9/18/15	1	< .1
Benzo[g,h,i]perylene	< 0.1	1	9/18/15		
p-Terphenyl-D14 (surr)	75 %R		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-02 (4.5)
Lab Sample ID:	148044.04
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.16**	1	9/17/15		
2-Methylnaphthalene	**0.17**	1	9/17/15		
Acenaphthylene	**0.29**	1	9/17/15		
Acenaphthene	**0.035**	1	9/17/15		
Fluorene	**0.052**	1	9/17/15		
Phenanthrene	**0.52**	1	9/17/15		
Anthracene	**0.30**	1	9/17/15		
Fluoranthene	**1.1**	1	9/17/15		
Pyrene	**0.96**	1	9/17/15		
Benzo[a]anthracene	**0.72**	1	9/17/15	0.1	.072
Chrysene	**0.85**	1	9/17/15	0.001	.00085
Benzo[b]fluoranthene	**1.4**	1	9/17/15	0.1	.14
Benzo[k]fluoranthene	**0.47**	1	9/17/15	0.01	.0047
Benzo[a]pyrene	**0.77**	1	9/17/15	1	.77
Indeno[1,2,3-cd]pyrene	**0.70**	1	9/17/15	0.1	.07
Dibenz[a,h]anthracene	**0.19**	1	9/17/15	1	.19
Benzo[g,h,i]perylene	**0.61**	1	9/17/15		
p-Terphenyl-D14 (surr)	**69 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-04 (10.5)
Lab Sample ID:	148044.06
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.13**	1	9/17/15		
2-Methylnaphthalene	**0.15**	1	9/17/15		
Acenaphthylene	**0.23**	1	9/17/15		
Acenaphthene	**0.015**	1	9/17/15		
Fluorene	**0.028**	1	9/17/15		
Phenanthrene	**0.28**	1	9/17/15		
Anthracene	**0.21**	1	9/17/15		
Fluoranthene	**0.71**	1	9/17/15		
Pyrene	**0.59**	1	9/17/15		
Benzo[a]anthracene	**0.46**	1	9/17/15	0.1	.046
Chrysene	**0.55**	1	9/17/15	0.001	.00055
Benzo[b]fluoranthene	**0.88**	1	9/17/15	0.1	.088
Benzo[k]fluoranthene	**0.28**	1	9/17/15	0.01	.0028
Benzo[a]pyrene	**0.51**	1	9/17/15	1	.51
Indeno[1,2,3-cd]pyrene	**0.53**	1	9/17/15	0.1	.053
Dibenz[a,h]anthracene	**0.14**	1	9/17/15	1	.14
Benzo[g,h,i]perylene	**0.46**	1	9/17/15		
p-Terphenyl-D14 (surr)	**60 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-06 (13.5)
Lab Sample ID:	148044.08
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.21**	1	9/17/15		
2-Methylnaphthalene	**0.24**	1	9/17/15		
Acenaphthylene	**0.35**	1	9/17/15		
Acenaphthene	**0.018**	1	9/17/15		
Fluorene	**0.036**	1	9/17/15		
Phenanthrene	**0.39**	1	9/17/15		
Anthracene	**0.32**	1	9/17/15		
Fluoranthene	**0.92**	1	9/17/15		
Pyrene	**0.76**	1	9/17/15		
Benzo[a]anthracene	**0.64**	1	9/17/15	0.1	.064
Chrysene	**0.77**	1	9/17/15	0.001	.00077
Benzo[b]fluoranthene	**1.2**	1	9/17/15	0.1	.12
Benzo[k]fluoranthene	**0.38**	1	9/17/15	0.01	.0038
Benzo[a]pyrene	**0.62**	1	9/17/15	1	.62
Indeno[1,2,3-cd]pyrene	**0.65**	1	9/17/15	0.1	.065
Dibenz[a,h]anthracene	**0.19**	1	9/17/15	1	.19
Benzo[g,h,i]perylene	**0.55**	1	9/17/15		
p-Terphenyl-D14 (surr)	**60 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-08 (7.5)
Lab Sample ID:	148044.1
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.16**	1	9/17/15		
2-Methylnaphthalene	**0.20**	1	9/17/15		
Acenaphthylene	**0.30**	1	9/17/15		
Acenaphthene	**0.011**	1	9/17/15		
Fluorene	**0.027**	1	9/17/15		
Phenanthrene	**0.28**	1	9/17/15		
Anthracene	**0.28**	1	9/17/15		
Fluoranthene	**0.87**	1	9/17/15		
Pyrene	**0.67**	1	9/17/15		
Benzo[a]anthracene	**0.53**	1	9/17/15	0.1	.053
Chrysene	**0.63**	1	9/17/15	0.001	.00063
Benzo[b]fluoranthene	**0.88**	1	9/17/15	0.1	.088
Benzo[k]fluoranthene	**0.28**	1	9/17/15	0.01	.0028
Benzo[a]pyrene	**0.49**	1	9/17/15	1	.49
Indeno[1,2,3-cd]pyrene	**0.43**	1	9/17/15	0.1	.043
Dibenz[a,h]anthracene	**0.13**	1	9/17/15	1	.13
Benzo[g,h,i]perylene	**0.36**	1	9/17/15		
p-Terphenyl-D14 (surr)	**59 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-10 (1.5)
Lab Sample ID:	148044.12
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.17**	1	9/17/15		
2-Methylnaphthalene	**0.19**	1	9/17/15		
Acenaphthylene	**0.33**	1	9/17/15		
Acenaphthene	**0.016**	1	9/17/15		
Fluorene	**0.034**	1	9/17/15		
Phenanthrene	**0.35**	1	9/17/15		
Anthracene	**0.34**	1	9/17/15		
Fluoranthene	**1.1**	1	9/17/15		
Pyrene	**0.86**	1	9/17/15		
Benzo[a]anthracene	**0.68**	1	9/17/15	0.1	.068
Chrysene	**0.77**	1	9/17/15	0.001	.00077
Benzo[b]fluoranthene	**1.0**	1	9/17/15	0.1	.1
Benzo[k]fluoranthene	**0.34**	1	9/17/15	0.01	.0034
Benzo[a]pyrene	**0.61**	1	9/17/15	1	.61
Indeno[1,2,3-cd]pyrene	**0.51**	1	9/17/15	0.1	.051
Dibenz[a,h]anthracene	**0.15**	1	9/17/15	1	.15
Benzo[g,h,i]perylene	**0.41**	1	9/17/15		
p-Terphenyl-D14 (surr)	**56 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-12 (10.5)
Lab Sample ID:	148044.14
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.27**	1	9/17/15		
2-Methylnaphthalene	**0.31**	1	9/17/15		
Acenaphthylene	**0.34**	1	9/17/15		
Acenaphthene	**0.020**	1	9/17/15		
Fluorene	**0.042**	1	9/17/15		
Phenanthrene	**0.41**	1	9/17/15		
Anthracene	**0.38**	1	9/17/15		
Fluoranthene	**0.92**	1	9/17/15		
Pyrene	**0.82**	1	9/17/15		
Benzo[a]anthracene	**0.71**	1	9/17/15	0.1	.071
Chrysene	**0.99**	1	9/17/15	0.001	.00099
Benzo[b]fluoranthene	**1.7**	1	9/17/15	0.1	.17
Benzo[k]fluoranthene	**0.57**	1	9/17/15	0.01	.0057
Benzo[a]pyrene	**0.89**	1	9/17/15	1	.89
Indeno[1,2,3-cd]pyrene	**0.86**	1	9/17/15	0.1	.086
Dibenz[a,h]anthracene	**0.24**	1	9/17/15	1	.24
Benzo[g,h,i]perylene	**0.70**	1	9/17/15		
p-Terphenyl-D14 (surr)	**52 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-14 (4.5)
Lab Sample ID:	148044.16
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.17**	1	9/17/15		
2-Methylnaphthalene	**0.20**	1	9/17/15		
Acenaphthylene	**0.23**	1	9/17/15		
Acenaphthene	**0.018**	1	9/17/15		
Fluorene	**0.032**	1	9/17/15		
Phenanthrene	**0.35**	1	9/17/15		
Anthracene	**0.24**	1	9/17/15		
Fluoranthene	**0.78**	1	9/17/15		
Pyrene	**0.65**	1	9/17/15		
Benzo[a]anthracene	**0.50**	1	9/17/15	0.1	.05
Chrysene	**0.60**	1	9/17/15	0.001	.0006
Benzo[b]fluoranthene	**0.87**	1	9/17/15	0.1	.087
Benzo[k]fluoranthene	**0.30**	1	9/17/15	0.01	.003
Benzo[a]pyrene	**0.53**	1	9/17/15	1	.53
Indeno[1,2,3-cd]pyrene	**0.42**	1	9/17/15	0.1	.042
Dibenz[a,h]anthracene	**0.12**	1	9/17/15	1	.12
Benzo[g,h,i]perylene	**0.34**	1	9/17/15		
p-Terphenyl-D14 (surr)	**52 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-16 (13.5)
Lab Sample ID:	148044.18
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.25**	1	9/17/15		
2-Methylnaphthalene	**0.28**	1	9/17/15		
Acenaphthylene	**0.31**	1	9/17/15		
Acenaphthene	**0.019**	1	9/17/15		
Fluorene	**0.038**	1	9/17/15		
Phenanthrene	**0.44**	1	9/17/15		
Anthracene	**0.29**	1	9/17/15		
Fluoranthene	**0.95**	1	9/17/15		
Pyrene	**0.84**	1	9/17/15		
Benzo[a]anthracene	**0.67**	1	9/17/15	0.1	.067
Chrysene	**0.84**	1	9/17/15	0.001	.00084
Benzo[b]fluoranthene	**1.4**	1	9/17/15	0.1	.14
Benzo[k]fluoranthene	**0.48**	1	9/17/15	0.01	.0048
Benzo[a]pyrene	**0.73**	1	9/17/15	1	.73
Indeno[1,2,3-cd]pyrene	**0.70**	1	9/17/15	0.1	.07
Dibenz[a,h]anthracene	**0.20**	1	9/17/15	1	.2
Benzo[g,h,i]perylene	**0.60**	1	9/17/15		
p-Terphenyl-D14 (surr)	**51 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-18 (7.5)
Lab Sample ID:	148044.2
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.24**	1	9/17/15		
2-Methylnaphthalene	**0.26**	1	9/17/15		
Acenaphthylene	**0.31**	1	9/17/15		
Acenaphthene	**0.027**	1	9/17/15		
Fluorene	**0.046**	1	9/17/15		
Phenanthrene	**0.55**	1	9/17/15		
Anthracene	**0.33**	1	9/17/15		
Fluoranthene	**1.2**	1	9/17/15		
Pyrene	**0.94**	1	9/17/15		
Benzo[a]anthracene	**0.72**	1	9/17/15	0.1	.072
Chrysene	**0.87**	1	9/17/15	0.001	.00087
Benzo[b]fluoranthene	**1.3**	1	9/17/15	0.1	.13
Benzo[k]fluoranthene	**0.46**	1	9/17/15	0.01	.0046
Benzo[a]pyrene	**0.74**	1	9/17/15	1	.74
Indeno[1,2,3-cd]pyrene	**0.65**	1	9/17/15	0.1	.065
Dibenz[a,h]anthracene	**0.18**	1	9/17/15	1	.18
Benzo[g,h,i]perylene	**0.53**	1	9/17/15		
p-Terphenyl-D14 (surr)	**47 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-20 (1.5)
Lab Sample ID:	148044.22
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.30**	1	9/17/15		
2-Methylnaphthalene	**0.28**	1	9/17/15		
Acenaphthylene	**0.43**	1	9/17/15		
Acenaphthene	**0.039**	1	9/17/15		
Fluorene	**0.11**	1	9/17/15		
Phenanthrene	**1.2**	1	9/17/15		
Anthracene	**0.53**	1	9/17/15		
Fluoranthene	**1.9**	1	9/17/15		
Pyrene	**1.4**	1	9/17/15		
Benzo[a]anthracene	**1.1**	1	9/17/15	0.1	.11
Chrysene	**1.3**	1	9/17/15	0.001	.0013
Benzo[b]fluoranthene	**1.9**	1	9/17/15	0.1	.19
Benzo[k]fluoranthene	**0.70**	1	9/17/15	0.01	.007
Benzo[a]pyrene	**1.1**	1	9/17/15	1	1.1
Indeno[1,2,3-cd]pyrene	**0.78**	1	9/17/15	0.1	.078
Dibenz[a,h]anthracene	**0.22**	1	9/17/15	1	.22
Benzo[g,h,i]perylene	**0.57**	1	9/17/15		
p-Terphenyl-D14 (surr)	**45 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-22 (10.5)
Lab Sample ID:	148044.24
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.23**	1	9/17/15		
2-Methylnaphthalene	**0.24**	1	9/17/15		
Acenaphthylene	**0.58**	1	9/17/15		
Acenaphthene	**0.020**	1	9/17/15		
Fluorene	**0.050**	1	9/17/15		
Phenanthrene	**0.42**	1	9/17/15		
Anthracene	**0.57**	1	9/17/15		
Fluoranthene	**1.3**	1	9/17/15		
Pyrene	**1.0**	1	9/17/15		
Benzo[a]anthracene	**0.94**	1	9/17/15	0.1	.094
Chrysene	**1.1**	1	9/17/15	0.001	.0011
Benzo[b]fluoranthene	**1.8**	1	9/17/15	0.1	.18
Benzo[k]fluoranthene	**0.60**	1	9/17/15	0.01	.006
Benzo[a]pyrene	**0.98**	1	9/17/15	1	.98
Indeno[1,2,3-cd]pyrene	**0.64**	1	9/17/15	0.1	.064
Dibenz[a,h]anthracene	**0.19**	1	9/17/15	1	.19
Benzo[g,h,i]perylene	**0.48**	1	9/17/15		
p-Terphenyl-D14 (surr)	**55 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-24 (4.5)
Lab Sample ID:	148044.26
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.21**	1	9/17/15		
2-Methylnaphthalene	**0.24**	1	9/17/15		
Acenaphthylene	**0.55**	1	9/17/15		
Acenaphthene	**0.019**	1	9/17/15		
Fluorene	**0.048**	1	9/17/15		
Phenanthrene	**0.47**	1	9/17/15		
Anthracene	**0.54**	1	9/17/15		
Fluoranthene	**1.9**	1	9/17/15		
Pyrene	**1.5**	1	9/17/15		
Benzo[a]anthracene	**1.4**	1	9/17/15	0.1	.14
Chrysene	**1.5**	1	9/17/15	0.001	.0015
Benzo[b]fluoranthene	**2.1**	1	9/17/15	0.1	.21
Benzo[k]fluoranthene	**0.78**	1	9/17/15	0.01	.0078
Benzo[a]pyrene	**1.3**	1	9/17/15	1	1.3
Indeno[1,2,3-cd]pyrene	**0.75**	1	9/17/15	0.1	.075
Dibenz[a,h]anthracene	**0.23**	1	9/17/15	1	.23
Benzo[g,h,i]perylene	**0.57**	1	9/17/15		
p-Terphenyl-D14 (surr)	**58 %R**		9/17/15		

TEF: Toxicity Equivalent Factor
TEQ: Toxicity Equivalence to Benzo[a]pyrene
The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-26 (13.5)
Lab Sample ID:	148044.28
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.23**	1	9/17/15		
2-Methylnaphthalene	**0.27**	1	9/17/15		
Acenaphthylene	**0.42**	1	9/17/15		
Acenaphthene	**0.021**	1	9/17/15		
Fluorene	**0.044**	1	9/17/15		
Phenanthrene	**0.39**	1	9/17/15		
Anthracene	**0.44**	1	9/17/15		
Fluoranthene	**1.1**	1	9/17/15		
Pyrene	**0.86**	1	9/17/15		
Benzo[a]anthracene	**0.77**	1	9/17/15	0.1	.077
Chrysene	**0.94**	1	9/17/15	0.001	.00094
Benzo[b]fluoranthene	**1.5**	1	9/17/15	0.1	.15
Benzo[k]fluoranthene	**0.50**	1	9/17/15	0.01	.005
Benzo[a]pyrene	**0.78**	1	9/17/15	1	.78
Indeno[1,2,3-cd]pyrene	**0.49**	1	9/17/15	0.1	.049
Dibenz[a,h]anthracene	**0.15**	1	9/17/15	1	.15
Benzo[g,h,i]perylene	**0.37**	1	9/17/15		
p-Terphenyl-D14 (surr)	**47 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-28 (7.5)
Lab Sample ID:	148044.3
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.30**	1	9/17/15		
2-Methylnaphthalene	**0.25**	1	9/17/15		
Acenaphthylene	**0.70**	1	9/17/15		
Acenaphthene	**0.031**	1	9/17/15		
Fluorene	**0.067**	1	9/17/15		
Phenanthrene	**0.82**	1	9/17/15		
Anthracene	**0.85**	1	9/17/15		
Fluoranthene	**3.8**	1	9/17/15		
Pyrene	**2.9**	1	9/17/15		
Benzo[a]anthracene	**2.8**	1	9/17/15	0.1	.28
Chrysene	**3.6**	1	9/17/15	0.001	.0036
Benzo[b]fluoranthene	**4.4**	1	9/17/15	0.1	.44
Benzo[k]fluoranthene	**1.6**	1	9/17/15	0.01	.016
Benzo[a]pyrene	**2.2**	1	9/17/15	1	2.2
Indeno[1,2,3-cd]pyrene	**1.2**	1	9/17/15	0.1	.12
Dibenz[a,h]anthracene	**0.41**	1	9/17/15	1	.41
Benzo[g,h,i]perylene	**0.86**	1	9/17/15		
p-Terphenyl-D14 (surr)	47 %R		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-30 (1.5)
Lab Sample ID:	148044.32
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.19**	1	9/17/15		
2-Methylnaphthalene	**0.21**	1	9/17/15		
Acenaphthylene	**0.34**	1	9/17/15		
Acenaphthene	**0.019**	1	9/17/15		
Fluorene	**0.036**	1	9/17/15		
Phenanthrene	**0.35**	1	9/17/15		
Anthracene	**0.35**	1	9/17/15		
Fluoranthene	**1.1**	1	9/17/15		
Pyrene	**0.93**	1	9/17/15		
Benzo[a]anthracene	**0.79**	1	9/17/15	0.1	.079
Chrysene	**0.85**	1	9/17/15	0.001	.00085
Benzo[b]fluoranthene	**1.3**	1	9/17/15	0.1	.13
Benzo[k]fluoranthene	**0.47**	1	9/17/15	0.01	.0047
Benzo[a]pyrene	**0.77**	1	9/17/15	1	.77
Indeno[1,2,3-cd]pyrene	**0.51**	1	9/17/15	0.1	.051
Dibenz[a,h]anthracene	**0.15**	1	9/17/15	1	.15
Benzo[g,h,i]perylene	**0.41**	1	9/17/15		
p-Terphenyl-D14 (surr)	43 %R		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-32 (10.5)
Lab Sample ID:	148044.34
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.20**	1	9/17/15		
2-Methylnaphthalene	**0.23**	1	9/17/15		
Acenaphthylene	**0.47**	1	9/17/15		
Acenaphthene	**0.029**	1	9/17/15		
Fluorene	**0.058**	1	9/17/15		
Phenanthrene	**0.47**	1	9/17/15		
Anthracene	**0.52**	1	9/17/15		
Fluoranthene	**1.3**	1	9/17/15		
Pyrene	**1.0**	1	9/17/15		
Benzo[a]anthracene	**0.92**	1	9/17/15	0.1	.092
Chrysene	**1.0**	1	9/17/15	0.001	.001
Benzo[b]fluoranthene	**1.6**	1	9/17/15	0.1	.16
Benzo[k]fluoranthene	**0.56**	1	9/17/15	0.01	.0056
Benzo[a]pyrene	**0.94**	1	9/17/15	1	.94
Indeno[1,2,3-cd]pyrene	**0.56**	1	9/17/15	0.1	.056
Dibenz[a,h]anthracene	**0.16**	1	9/17/15	1	.16
Benzo[g,h,i]perylene	**0.44**	1	9/17/15		
p-Terphenyl-D14 (surr)	**50 %R**		9/17/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-34 (4.5)
Lab Sample ID:	148044.36
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.081**	1	9/18/15		
2-Methylnaphthalene	**0.097**	1	9/18/15		
Acenaphthylene	**0.23**	1	9/18/15		
Acenaphthene	**0.010**	1	9/18/15		
Fluorene	**0.026**	1	9/18/15		
Phenanthrene	**0.34**	1	9/18/15		
Anthracene	**0.19**	1	9/18/15		
Fluoranthene	**0.94**	1	9/18/15		
Pyrene	**0.80**	1	9/18/15		
Benzo[a]anthracene	**0.58**	1	9/18/15	0.1	.058
Chrysene	**0.68**	1	9/18/15	0.001	.00068
Benzo[b]fluoranthene	**0.98**	1	9/18/15	0.1	.098
Benzo[k]fluoranthene	**0.33**	1	9/18/15	0.01	.0033
Benzo[a]pyrene	**0.57**	1	9/18/15	1	.57
Indeno[1,2,3-cd]pyrene	**0.55**	1	9/18/15	0.1	.055
Dibenz[a,h]anthracene	**0.14**	1	9/18/15	1	.14
Benzo[g,h,i]perylene	**0.50**	1	9/18/15		
p-Terphenyl-D14 (surr)	**61 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-36 (13.5)
Lab Sample ID:	148044.38
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.28**	1	9/18/15		
2-Methylnaphthalene	**0.22**	1	9/18/15		
Acenaphthylene	**1.1**	1	9/18/15		
Acenaphthene	**0.047**	1	9/18/15		
Fluorene	**0.091**	1	9/18/15		
Phenanthrene	**1.0**	1	9/18/15		
Anthracene	**0.85**	1	9/18/15		
Fluoranthene	**3.4**	1	9/18/15		
Pyrene	**3.4**	1	9/18/15		
Benzo[a]anthracene	**2.8**	1	9/18/15	0.1	.28
Chrysene	**3.2**	1	9/18/15	0.001	.0032
Benzo[b]fluoranthene	**4.4**	1	9/18/15	0.1	.44
Benzo[k]fluoranthene	**1.4**	1	9/18/15	0.01	.014
Benzo[a]pyrene	**2.9**	1	9/18/15	1	2.9
Indeno[1,2,3-cd]pyrene	**2.3**	1	9/18/15	0.1	.23
Dibenz[a,h]anthracene	**0.66**	1	9/18/15	1	.66
Benzo[g,h,i]perylene	**1.7**	1	9/18/15		
p-Terphenyl-D14 (surr)	**62 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-38 (7.5)
Lab Sample ID:	148044.4
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.24**	1	9/18/15		
2-Methylnaphthalene	**0.24**	1	9/18/15		
Acenaphthylene	**1.1**	1	9/18/15		
Acenaphthene	**0.028**	1	9/18/15		
Fluorene	**0.084**	1	9/18/15		
Phenanthrene	**0.64**	1	9/18/15		
Anthracene	**0.72**	1	9/18/15		
Fluoranthene	**2.5**	1	9/18/15		
Pyrene	**2.5**	1	9/18/15		
Benzo[a]anthracene	**3.0**	1	9/18/15	0.1	.3
Chrysene	**3.3**	1	9/18/15	0.001	.0033
Benzo[b]fluoranthene	**4.4**	1	9/18/15	0.1	.44
Benzo[k]fluoranthene	**1.6**	1	9/18/15	0.01	.016
Benzo[a]pyrene	**3.2**	1	9/18/15	1	3.2
Indeno[1,2,3-cd]pyrene	**2.5**	1	9/18/15	0.1	.25
Dibenz[a,h]anthracene	**0.76**	1	9/18/15	1	.76
Benzo[g,h,i]perylene	**1.8**	1	9/18/15		
p-Terphenyl-D14 (surr)	**58 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-40 (1.5)
Lab Sample ID:	148044.42
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.28**	1	9/18/15		
2-Methylnaphthalene	**0.28**	1	9/18/15		
Acenaphthylene	**0.80**	1	9/18/15		
Acenaphthene	**0.035**	1	9/18/15		
Fluorene	**0.071**	1	9/18/15		
Phenanthrene	**0.71**	1	9/18/15		
Anthracene	**0.75**	1	9/18/15		
Fluoranthene	**2.3**	1	9/18/15		
Pyrene	**2.1**	1	9/18/15		
Benzo[a]anthracene	**1.7**	1	9/18/15	0.1	.17
Chrysene	**1.9**	1	9/18/15	0.001	.0019
Benzo[b]fluoranthene	**2.7**	1	9/18/15	0.1	.27
Benzo[k]fluoranthene	**1.0**	1	9/18/15	0.01	.01
Benzo[a]pyrene	**1.7**	1	9/18/15	1	1.7
Indeno[1,2,3-cd]pyrene	**1.2**	1	9/18/15	0.1	.12
Dibenz[a,h]anthracene	**0.37**	1	9/18/15	1	.37
Benzo[g,h,i]perylene	**0.89**	1	9/18/15		
p-Terphenyl-D14 (surr)	**62 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-42 (8.75)
Lab Sample ID:	148044.44
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.13**	1	9/18/15		
2-Methylnaphthalene	**0.16**	1	9/18/15		
Acenaphthylene	**0.20**	1	9/18/15		
Acenaphthene	**0.012**	1	9/18/15		
Fluorene	**0.024**	1	9/18/15		
Phenanthrene	**0.28**	1	9/18/15		
Anthracene	**0.18**	1	9/18/15		
Fluoranthene	**0.64**	1	9/18/15		
Pyrene	**0.56**	1	9/18/15		
Benzo[a]anthracene	**0.42**	1	9/18/15	0.1	.042
Chrysene	**0.53**	1	9/18/15	0.001	.00053
Benzo[b]fluoranthene	**0.80**	1	9/18/15	0.1	.08
Benzo[k]fluoranthene	**0.29**	1	9/18/15	0.01	.0029
Benzo[a]pyrene	**0.48**	1	9/18/15	1	.48
Indeno[1,2,3-cd]pyrene	**0.38**	1	9/18/15	0.1	.038
Dibenz[a,h]anthracene	**0.11**	1	9/18/15	1	.11
Benzo[g,h,i]perylene	**0.31**	1	9/18/15		
p-Terphenyl-D14 (surr)	**50 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-44 (3.75)
Lab Sample ID:	148044.46
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.17**	1	9/18/15		
2-Methylnaphthalene	**0.20**	1	9/18/15		
Acenaphthylene	**0.27**	1	9/18/15		
Acenaphthene	**0.014**	1	9/18/15		
Fluorene	**0.029**	1	9/18/15		
Phenanthrene	**0.31**	1	9/18/15		
Anthracene	**0.26**	1	9/18/15		
Fluoranthene	**0.82**	1	9/18/15		
Pyrene	**0.66**	1	9/18/15		
Benzo[a]anthracene	**0.54**	1	9/18/15	0.1	.054
Chrysene	**0.67**	1	9/18/15	0.001	.00067
Benzo[b]fluoranthene	**1.0**	1	9/18/15	0.1	.1
Benzo[k]fluoranthene	**0.36**	1	9/18/15	0.01	.0036
Benzo[a]pyrene	**0.56**	1	9/18/15	1	.56
Indeno[1,2,3-cd]pyrene	**0.44**	1	9/18/15	0.1	.044
Dibenz[a,h]anthracene	**0.13**	1	9/18/15	1	.13
Benzo[g,h,i]perylene	**0.34**	1	9/18/15		
p-Terphenyl-D14 (surr)	**50 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-46 (11.25)
Lab Sample ID:	148044.48
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.19**	1	9/18/15		
2-Methylnaphthalene	**0.21**	1	9/18/15		
Acenaphthylene	**0.37**	1	9/18/15		
Acenaphthene	**0.018**	1	9/18/15		
Fluorene	**0.040**	1	9/18/15		
Phenanthrene	**0.39**	1	9/18/15		
Anthracene	**0.37**	1	9/18/15		
Fluoranthene	**1.2**	1	9/18/15		
Pyrene	**0.96**	1	9/18/15		
Benzo[a]anthracene	**0.82**	1	9/18/15	0.1	.082
Chrysene	**1.1**	1	9/18/15	0.001	.0011
Benzo[b]fluoranthene	**1.7**	1	9/18/15	0.1	.17
Benzo[k]fluoranthene	**0.63**	1	9/18/15	0.01	.0063
Benzo[a]pyrene	**0.92**	1	9/18/15	1	.92
Indeno[1,2,3-cd]pyrene	**0.71**	1	9/18/15	0.1	.071
Dibenz[a,h]anthracene	**0.21**	1	9/18/15	1	.21
Benzo[g,h,i]perylene	**0.54**	1	9/18/15		
p-Terphenyl-D14 (surr)	**45 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-48 (6.25)
Lab Sample ID:	148044.5
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.061**	1	9/18/15		
2-Methylnaphthalene	**0.063**	1	9/18/15		
Acenaphthylene	**0.096**	1	9/18/15		
Acenaphthene	< 0.009	1	9/18/15		
Fluorene	**0.013**	1	9/18/15		
Phenanthrene	**0.13**	1	9/18/15		
Anthracene	**0.098**	1	9/18/15		
Fluoranthene	**0.36**	1	9/18/15		
Pyrene	**0.29**	1	9/18/15		
Benzo[a]anthracene	**0.22**	1	9/18/15	0.1	.022
Chrysene	**0.29**	1	9/18/15	0.001	.00029
Benzo[b]fluoranthene	**0.47**	1	9/18/15	0.1	.047
Benzo[k]fluoranthene	**0.15**	1	9/18/15	0.01	.0015
Benzo[a]pyrene	**0.26**	1	9/18/15	1	.26
Indeno[1,2,3-cd]pyrene	**0.19**	1	9/18/15	0.1	.019
Dibenz[a,h]anthracene	**0.053**	1	9/18/15	1	.053
Benzo[g,h,i]perylene	**0.15**	1	9/18/15		
p-Terphenyl-D14 (surr)	**38 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-50 (1.25)
Lab Sample ID:	148044.52
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.070**	1	9/18/15		
2-Methylnaphthalene	**0.093**	1	9/18/15		
Acenaphthylene	**0.21**	1	9/18/15		
Acenaphthene	**0.021**	1	9/18/15		
Fluorene	**0.076**	1	9/18/15		
Phenanthrene	**0.73**	1	9/18/15		
Anthracene	**0.28**	1	9/18/15		
Fluoranthene	**1.0**	1	9/18/15		
Pyrene	**0.82**	1	9/18/15		
Benzo[a]anthracene	**0.49**	1	9/18/15	0.1	.049
Chrysene	**0.48**	1	9/18/15	0.001	.00048
Benzo[b]fluoranthene	**0.58**	1	9/18/15	0.1	.058
Benzo[k]fluoranthene	**0.19**	1	9/18/15	0.01	.0019
Benzo[a]pyrene	**0.43**	1	9/18/15	1	.43
Indeno[1,2,3-cd]pyrene	**0.24**	1	9/18/15	0.1	.024
Dibenz[a,h]anthracene	**0.062**	1	9/18/15	1	.062
Benzo[g,h,i]perylene	**0.19**	1	9/18/15		
p-Terphenyl-D14 (surr)	**43 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-52 (10.5)
Lab Sample ID:	148044.54
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.24**	1	9/18/15		
2-Methylnaphthalene	**0.28**	1	9/18/15		
Acenaphthylene	**0.36**	1	9/18/15		
Acenaphthene	**0.021**	1	9/18/15		
Fluorene	**0.040**	1	9/18/15		
Phenanthrene	**0.48**	1	9/18/15		
Anthracene	**0.37**	1	9/18/15		
Fluoranthene	**1.4**	1	9/18/15		
Pyrene	**1.1**	1	9/18/15		
Benzo[a]anthracene	**0.82**	1	9/18/15	0.1	.082
Chrysene	**1.1**	1	9/18/15	0.001	.0011
Benzo[b]fluoranthene	**1.5**	1	9/18/15	0.1	.15
Benzo[k]fluoranthene	**0.55**	1	9/18/15	0.01	.0055
Benzo[a]pyrene	**0.82**	1	9/18/15	1	.82
Indeno[1,2,3-cd]pyrene	**0.55**	1	9/18/15	0.1	.055
Dibenz[a,h]anthracene	**0.16**	1	9/18/15	1	.16
Benzo[g,h,i]perylene	**0.43**	1	9/18/15		
p-Terphenyl-D14 (surr)	**48 %R**		9/18/15		

TEF: Toxicity Equivalent Factor
TEQ: Toxicity Equivalence to Benzo[a]pyrene
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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-54 (4.5)
Lab Sample ID:	148044.56
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.16**	1	9/18/15		
2-Methylnaphthalene	**0.20**	1	9/18/15		
Acenaphthylene	**0.23**	1	9/18/15		
Acenaphthene	**0.010**	1	9/18/15		
Fluorene	**0.025**	1	9/18/15		
Phenanthrene	**0.27**	1	9/18/15		
Anthracene	**0.23**	1	9/18/15		
Fluoranthene	**0.61**	1	9/18/15		
Pyrene	**0.50**	1	9/18/15		
Benzo[a]anthracene	**0.44**	1	9/18/15	0.1	.044
Chrysene	**0.52**	1	9/18/15	0.001	.00052
Benzo[b]fluoranthene	**0.84**	1	9/18/15	0.1	.084
Benzo[k]fluoranthene	**0.28**	1	9/18/15	0.01	.0028
Benzo[a]pyrene	**0.46**	1	9/18/15	1	.46
Indeno[1,2,3-cd]pyrene	**0.34**	1	9/18/15	0.1	.034
Dibenz[a,h]anthracene	**0.10**	1	9/18/15	1	.1
Benzo[g,h,i]perylene	**0.28**	1	9/18/15		
p-Terphenyl-D14 (surr)	**49 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-56 (13.5)
Lab Sample ID:	148044.58
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.12**	1	9/18/15		
2-Methylnaphthalene	**0.14**	1	9/18/15		
Acenaphthylene	**0.17**	1	9/18/15		
Acenaphthene	**0.012**	1	9/18/15		
Fluorene	**0.024**	1	9/18/15		
Phenanthrene	**0.28**	1	9/18/15		
Anthracene	**0.19**	1	9/18/15		
Fluoranthene	**0.62**	1	9/18/15		
Pyrene	**0.46**	1	9/18/15		
Benzo[a]anthracene	**0.37**	1	9/18/15	0.1	.037
Chrysene	**0.47**	1	9/18/15	0.001	.00047
Benzo[b]fluoranthene	**0.76**	1	9/18/15	0.1	.076
Benzo[k]fluoranthene	**0.23**	1	9/18/15	0.01	.0023
Benzo[a]pyrene	**0.39**	1	9/18/15	1	.39
Indeno[1,2,3-cd]pyrene	**0.26**	1	9/18/15	0.1	.026
Dibenz[a,h]anthracene	**0.076**	1	9/18/15	1	.076
Benzo[g,h,i]perylene	**0.21**	1	9/18/15		
p-Terphenyl-D14 (surr)	**40 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-58 (7.5)
Lab Sample ID:	148044.6
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.085**	1	9/18/15		
2-Methylnaphthalene	**0.096**	1	9/18/15		
Acenaphthylene	**0.18**	1	9/18/15		
Acenaphthene	**0.020**	1	9/18/15		
Fluorene	**0.038**	1	9/18/15		
Phenanthrene	**0.44**	1	9/18/15		
Anthracene	**0.23**	1	9/18/15		
Fluoranthene	**1.1**	1	9/18/15		
Pyrene	**0.81**	1	9/18/15		
Benzo[a]anthracene	**0.58**	1	9/18/15	0.1	.058
Chrysene	**0.61**	1	9/18/15	0.001	.00061
Benzo[b]fluoranthene	**0.87**	1	9/18/15	0.1	.087
Benzo[k]fluoranthene	**0.31**	1	9/18/15	0.01	.0031
Benzo[a]pyrene	**0.60**	1	9/18/15	1	.6
Indeno[1,2,3-cd]pyrene	**0.36**	1	9/18/15	0.1	.036
Dibenz[a,h]anthracene	**0.098**	1	9/18/15	1	.098
Benzo[g,h,i]perylene	**0.30**	1	9/18/15		
p-Terphenyl-D14 (surr)	**55 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-60 (1.5)
Lab Sample ID:	148044.62
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.069**	1	9/18/15		
2-Methylnaphthalene	**0.097**	1	9/18/15		
Acenaphthylene	**0.12**	1	9/18/15		
Acenaphthene	**0.014**	1	9/18/15		
Fluorene	**0.023**	1	9/18/15		
Phenanthrene	**0.22**	1	9/18/15		
Anthracene	**0.13**	1	9/18/15		
Fluoranthene	**0.53**	1	9/18/15		
Pyrene	**0.43**	1	9/18/15		
Benzo[a]anthracene	**0.30**	1	9/18/15	0.1	.03
Chrysene	**0.32**	1	9/18/15	0.001	.00032
Benzo[b]fluoranthene	**0.47**	1	9/18/15	0.1	.047
Benzo[k]fluoranthene	**0.18**	1	9/18/15	0.01	.0018
Benzo[a]pyrene	**0.34**	1	9/18/15	1	.34
Indeno[1,2,3-cd]pyrene	**0.23**	1	9/18/15	0.1	.023
Dibenz[a,h]anthracene	**0.059**	1	9/18/15	1	.059
Benzo[g,h,i]perylene	**0.21**	1	9/18/15		
p-Terphenyl-D14 (surr)	**45 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-DUP-01
Lab Sample ID:	148044.63
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.18**	1	9/18/15		
2-Methylnaphthalene	**0.21**	1	9/18/15		
Acenaphthylene	**0.38**	1	9/18/15		
Acenaphthene	**0.012**	1	9/18/15		
Fluorene	**0.031**	1	9/18/15		
Phenanthrene	**0.31**	1	9/18/15		
Anthracene	**0.38**	1	9/18/15		
Fluoranthene	**1.0**	1	9/18/15		
Pyrene	**0.76**	1	9/18/15		
Benzo[a]anthracene	**0.68**	1	9/18/15	0.1	.068
Chrysene	**0.79**	1	9/18/15	0.001	.00079
Benzo[b]fluoranthene	**1.2**	1	9/18/15	0.1	.12
Benzo[k]fluoranthene	**0.43**	1	9/18/15	0.01	.0043
Benzo[a]pyrene	**0.62**	1	9/18/15	1	.62
Indeno[1,2,3-cd]pyrene	**0.37**	1	9/18/15	0.1	.037
Dibenz[a,h]anthracene	**0.12**	1	9/18/15	1	.12
Benzo[g,h,i]perylene	**0.28**	1	9/18/15		
p-Terphenyl-D14 (surr)	**60 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-DUP-03
Lab Sample ID:	148044.65
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.17**	1	9/18/15		
2-Methylnaphthalene	**0.19**	1	9/18/15		
Acenaphthylene	**0.27**	1	9/18/15		
Acenaphthene	**0.017**	1	9/18/15		
Fluorene	**0.034**	1	9/18/15		
Phenanthrene	**0.37**	1	9/18/15		
Anthracene	**0.30**	1	9/18/15		
Fluoranthene	**0.91**	1	9/18/15		
Pyrene	**0.69**	1	9/18/15		
Benzo[a]anthracene	**0.58**	1	9/18/15	0.1	.058
Chrysene	**0.68**	1	9/18/15	0.001	.00068
Benzo[b]fluoranthene	**1.1**	1	9/18/15	0.1	.11
Benzo[k]fluoranthene	**0.37**	1	9/18/15	0.01	.0037
Benzo[a]pyrene	**0.62**	1	9/18/15	1	.62
Indeno[1,2,3-cd]pyrene	**0.41**	1	9/18/15	0.1	.041
Dibenz[a,h]anthracene	**0.11**	1	9/18/15	1	.11
Benzo[g,h,i]perylene	**0.33**	1	9/18/15		
p-Terphenyl-D14 (surr)	**44 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-B-01 (4.5)
Lab Sample ID:	148044.66
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.25**	1	9/18/15		
2-Methylnaphthalene	**0.40**	1	9/18/15		
Acenaphthylene	**0.24**	1	9/18/15		
Acenaphthene	**0.012**	1	9/18/15		
Fluorene	**0.033**	1	9/18/15		
Phenanthrene	**0.26**	1	9/18/15		
Anthracene	**0.26**	1	9/18/15		
Fluoranthene	**0.63**	1	9/18/15		
Pyrene	**0.48**	1	9/18/15		
Benzo[a]anthracene	**0.40**	1	9/18/15	0.1	.04
Chrysene	**0.44**	1	9/18/15	0.001	.00044
Benzo[b]fluoranthene	**0.75**	1	9/18/15	0.1	.075
Benzo[k]fluoranthene	**0.27**	1	9/18/15	0.01	.0027
Benzo[a]pyrene	**0.45**	1	9/18/15	1	.45
Indeno[1,2,3-cd]pyrene	**0.27**	1	9/18/15	0.1	.027
Dibenz[a,h]anthracene	**0.075**	1	9/18/15	1	.075
Benzo[g,h,i]perylene	**0.21**	1	9/18/15		
p-Terphenyl-D14 (surr)	**53** %R		9/18/15		

TEF: Toxicity Equivalent Factor
TEQ: Toxicity Equivalence to Benzo[a]pyrene
The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-B-04 (1.5)
Lab Sample ID:	148044.69
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.13**	1	9/18/15		
2-Methylnaphthalene	**0.17**	1	9/18/15		
Acenaphthylene	**0.19**	1	9/18/15		
Acenaphthene	**0.016**	1	9/18/15		
Fluorene	**0.033**	1	9/18/15		
Phenanthrene	**0.25**	1	9/18/15		
Anthracene	**0.31**	1	9/18/15		
Fluoranthene	**0.58**	1	9/18/15		
Pyrene	**0.43**	1	9/18/15		
Benzo[a]anthracene	**0.36**	1	9/18/15	0.1	.036
Chrysene	**0.49**	1	9/18/15	0.001	.00049
Benzo[b]fluoranthene	**0.68**	1	9/18/15	0.1	.068
Benzo[k]fluoranthene	**0.21**	1	9/18/15	0.01	.0021
Benzo[a]pyrene	**0.40**	1	9/18/15	1	.4
Indeno[1,2,3-cd]pyrene	**0.23**	1	9/18/15	0.1	.023
Dibenz[a,h]anthracene	**0.062**	1	9/18/15	1	.062
Benzo[g,h,i]perylene	**0.18**	1	9/18/15		
p-Terphenyl-D14 (surr)	**52 %R**		9/18/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-B-05 (4.5)
Lab Sample ID:	148044.7
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/17/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.24**	1	9/18/15		
2-Methylnaphthalene	**0.24**	1	9/18/15		
Acenaphthylene	**0.15**	1	9/18/15		
Acenaphthene	**0.018**	1	9/18/15		
Fluorene	**0.035**	1	9/18/15		
Phenanthrene	**0.20**	1	9/18/15		
Anthracene	**0.16**	1	9/18/15		
Fluoranthene	**0.32**	1	9/18/15		
Pyrene	**0.24**	1	9/18/15		
Benzo[a]anthracene	**0.21**	1	9/18/15	0.1	.021
Chrysene	**0.28**	1	9/18/15	0.001	.00028
Benzo[b]fluoranthene	**0.50**	1	9/18/15	0.1	.05
Benzo[k]fluoranthene	**0.15**	1	9/18/15	0.01	.0015
Benzo[a]pyrene	**0.27**	1	9/18/15	1	.27
Indeno[1,2,3-cd]pyrene	**0.19**	1	9/18/15	0.1	.019
Dibenz[a,h]anthracene	**0.053**	1	9/18/15	1	.053
Benzo[g,h,i]perylene	**0.16**	1	9/18/15		
p-Terphenyl-D14 (surr)	**49 %R**		9/18/15		

TEF: Toxicity Equivalent Factor
TEQ: Toxicity Equivalence to Benzo[a]pyrene
The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-B-08 (1.5)
Lab Sample ID:	148044.73
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.16**	1	9/21/15		
2-Methylnaphthalene	**0.27**	1	9/21/15		
Acenaphthylene	**0.16**	1	9/21/15		
Acenaphthene	**0.0097**	1	9/21/15		
Fluorene	**0.024**	1	9/21/15		
Phenanthrene	**0.18**	1	9/21/15		
Anthracene	**0.19**	1	9/21/15		
Fluoranthene	**0.50**	1	9/21/15		
Pyrene	**0.41**	1	9/21/15		
Benzo[a]anthracene	**0.31**	1	9/21/15	0.1	.031
Chrysene	**0.34**	1	9/21/15	0.001	.00034
Benzo[b]fluoranthene	**0.48**	1	9/21/15	0.1	.048
Benzo[k]fluoranthene	**0.17**	1	9/21/15	0.01	.0017
Benzo[a]pyrene	**0.32**	1	9/21/15	1	.32
Indeno[1,2,3-cd]pyrene	**0.27**	1	9/21/15	0.1	.027
Dibenz[a,h]anthracene	**0.076**	1	9/21/15	1	.076
Benzo[g,h,i]perylene	**0.23**	1	9/21/15		
p-Terphenyl-D14 (surr)	**53 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-B-DUP-01
Lab Sample ID:	148044.74
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.12**	1	9/21/15		
2-Methylnaphthalene	**0.16**	1	9/21/15		
Acenaphthylene	**0.18**	1	9/21/15		
Acenaphthene	**0.011**	1	9/21/15		
Fluorene	**0.026**	1	9/21/15		
Phenanthrene	**0.20**	1	9/21/15		
Anthracene	**0.20**	1	9/21/15		
Fluoranthene	**0.51**	1	9/21/15		
Pyrene	**0.44**	1	9/21/15		
Benzo[a]anthracene	**0.34**	1	9/21/15	0.1	.034
Chrysene	**0.38**	1	9/21/15	0.001	.00038
Benzo[b]fluoranthene	**0.60**	1	9/21/15	0.1	.06
Benzo[k]fluoranthene	**0.19**	1	9/21/15	0.01	.0019
Benzo[a]pyrene	**0.40**	1	9/21/15	1	.4
Indeno[1,2,3-cd]pyrene	**0.29**	1	9/21/15	0.1	.029
Dibenz[a,h]anthracene	**0.081**	1	9/21/15	1	.081
Benzo[g,h,i]perylene	**0.24**	1	9/21/15		
p-Terphenyl-D14 (surr)	**47 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-C-02 (1)
Lab Sample ID:	148044.76
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.79**	1	9/21/15		
2-Methylnaphthalene	**0.32**	1	9/21/15		
Acenaphthylene	**0.42**	1	9/21/15		
Acenaphthene	**0.13**	1	9/21/15		
Fluorene	**0.19**	1	9/21/15		
Phenanthrene	**1.1**	1	9/21/15		
Anthracene	**0.59**	1	9/21/15		
Fluoranthene	**2.1**	1	9/21/15		
Pyrene	**1.7**	1	9/21/15		
Benzo[a]anthracene	**1.3**	1	9/21/15	0.1	.13
Chrysene	**1.5**	1	9/21/15	0.001	.0015
Benzo[b]fluoranthene	**2.2**	1	9/21/15	0.1	.22
Benzo[k]fluoranthene	**0.72**	1	9/21/15	0.01	.0072
Benzo[a]pyrene	**1.3**	1	9/21/15	1	1.3
Indeno[1,2,3-cd]pyrene	**0.86**	1	9/21/15	0.1	.086
Dibenz[a,h]anthracene	**0.24**	1	9/21/15	1	.24
Benzo[g,h,i]perylene	**0.67**	1	9/21/15		
p-Terphenyl-D14 (surr)	**45 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-C-03 (3)
Lab Sample ID:	148044.77
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**1.9**	1	9/21/15		
2-Methylnaphthalene	**0.68**	1	9/21/15		
Acenaphthylene	**0.84**	1	9/21/15		
Acenaphthene	**0.38**	1	9/21/15		
Fluorene	**0.63**	1	9/21/15		
Phenanthrene	**2.1**	1	9/21/15		
Anthracene	**2.8**	1	9/21/15		
Fluoranthene	**5.5**	1	9/21/15		
Pyrene	**4.5**	1	9/21/15		
Benzo[a]anthracene	**3.4**	1	9/21/15	0.1	.34
Chrysene	**5.1**	1	9/21/15	0.001	.0051
Benzo[b]fluoranthene	**4.1**	1	9/21/15	0.1	.41
Benzo[k]fluoranthene	**1.5**	1	9/21/15	0.01	.015
Benzo[a]pyrene	**2.4**	1	9/21/15	1	2.4
Indeno[1,2,3-cd]pyrene	**1.4**	1	9/21/15	0.1	.14
Dibenz[a,h]anthracene	**0.40**	1	9/21/15	1	.4
Benzo[g,h,i]perylene	**1.0**	1	9/21/15		
p-Terphenyl-D14 (surr)	**49 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-C-06 (1)
Lab Sample ID:	148044.8
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.28**	1	9/21/15		
2-Methylnaphthalene	**0.19**	1	9/21/15		
Acenaphthylene	**0.28**	1	9/21/15		
Acenaphthene	**0.040**	1	9/21/15		
Fluorene	**0.067**	1	9/21/15		
Phenanthrene	**0.63**	1	9/21/15		
Anthracene	**0.35**	1	9/21/15		
Fluoranthene	**1.6**	1	9/21/15		
Pyrene	**1.2**	1	9/21/15		
Benzo[a]anthracene	**0.86**	1	9/21/15	0.1	.086
Chrysene	**1.1**	1	9/21/15	0.001	.0011
Benzo[b]fluoranthene	**1.4**	1	9/21/15	0.1	.14
Benzo[k]fluoranthene	**0.50**	1	9/21/15	0.01	.005
Benzo[a]pyrene	**0.85**	1	9/21/15	1	.85
Indeno[1,2,3-cd]pyrene	**0.58**	1	9/21/15	0.1	.058
Dibenz[a,h]anthracene	**0.16**	1	9/21/15	1	.16
Benzo[g,h,i]perylene	**0.47**	1	9/21/15		
p-Terphenyl-D14 (surr)	**45 %R**		9/21/15		

TEF: Toxicity Equivalent Factor
TEQ: Toxicity Equivalence to Benzo[a]pyrene
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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-C-07 (3)
Lab Sample ID:	148044.81
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**2.7**	1	9/21/15		
2-Methylnaphthalene	**0.85**	1	9/21/15		
Acenaphthylene	**1.1**	1	9/21/15		
Acenaphthene	**0.55**	1	9/21/15		
Fluorene	**1.4**	1	9/21/15		
Phenanthrene	**4.5**	1	9/21/15		
Anthracene	**3.2**	1	9/21/15		
Fluoranthene	**7.2**	1	9/21/15		
Pyrene	**6.3**	1	9/21/15		
Benzo[a]anthracene	**4.6**	1	9/21/15	0.1	.46
Chrysene	**5.1**	1	9/21/15	0.001	.0051
Benzo[b]fluoranthene	**5.6**	1	9/21/15	0.1	.56
Benzo[k]fluoranthene	**1.9**	1	9/21/15	0.01	.019
Benzo[a]pyrene	**3.4**	1	9/21/15	1	3.4
Indeno[1,2,3-cd]pyrene	**2.1**	1	9/21/15	0.1	.21
Dibenz[a,h]anthracene	**0.63**	1	9/21/15	1	.63
Benzo[g,h,i]perylene	**1.6**	1	9/21/15		
p-Terphenyl-D14 (surr)	**52 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-C-DUP-01
Lab Sample ID:	148044.83
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.71**	1	9/21/15		
2-Methylnaphthalene	**0.27**	1	9/21/15		
Acenaphthylene	**0.40**	1	9/21/15		
Acenaphthene	**0.17**	1	9/21/15		
Fluorene	**0.27**	1	9/21/15		
Phenanthrene	**1.7**	1	9/21/15		
Anthracene	**0.66**	1	9/21/15		
Fluoranthene	**2.9**	1	9/21/15		
Pyrene	**2.1**	1	9/21/15		
Benzo[a]anthracene	**1.4**	1	9/21/15	0.1	.14
Chrysene	**1.6**	1	9/21/15	0.001	.0016
Benzo[b]fluoranthene	**2.0**	1	9/21/15	0.1	.2
Benzo[k]fluoranthene	**0.75**	1	9/21/15	0.01	.0075
Benzo[a]pyrene	**1.3**	1	9/21/15	1	1.3
Indeno[1,2,3-cd]pyrene	**0.75**	1	9/21/15	0.1	.075
Dibenz[a,h]anthracene	**0.20**	1	9/21/15	1	.2
Benzo[g,h,i]perylene	**0.62**	1	9/21/15		
p-Terphenyl-D14 (surr)	**40 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-D-01 (1)
Lab Sample ID:	148044.84
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.089**	1	9/22/15		
2-Methylnaphthalene	**0.11**	1	9/22/15		
Acenaphthylene	**0.20**	1	9/22/15		
Acenaphthene	**0.046**	1	9/22/15		
Fluorene	**0.067**	1	9/22/15		
Phenanthrene	**0.85**	1	9/22/15		
Anthracene	**0.33**	1	9/22/15		
Fluoranthene	**1.6**	1	9/22/15		
Pyrene	**1.4**	1	9/22/15		
Benzo[a]anthracene	**0.82**	1	9/22/15	0.1	.082
Chrysene	**0.88**	1	9/22/15	0.001	.00088
Benzo[b]fluoranthene	**1.1**	1	9/22/15	0.1	.11
Benzo[k]fluoranthene	**0.38**	1	9/22/15	0.01	.0038
Benzo[a]pyrene	**0.79**	1	9/22/15	1	.79
Indeno[1,2,3-cd]pyrene	**0.63**	1	9/22/15	0.1	.063
Dibenz[a,h]anthracene	**0.17**	1	9/22/15	1	.17
Benzo[g,h,i]perylene	**0.58**	1	9/22/15		
p-Terphenyl-D14 (surr)	**78 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-D-04 (0.5)
Lab Sample ID:	148044.87
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.21**	1	9/21/15		
2-Methylnaphthalene	**0.18**	1	9/21/15		
Acenaphthylene	**0.22**	1	9/21/15		
Acenaphthene	**0.045**	1	9/21/15		
Fluorene	**0.086**	1	9/21/15		
Phenanthrene	**0.61**	1	9/21/15		
Anthracene	**0.25**	1	9/21/15		
Fluoranthene	**1.1**	1	9/21/15		
Pyrene	**0.84**	1	9/21/15		
Benzo[a]anthracene	**0.56**	1	9/21/15	0.1	.056
Chrysene	**0.64**	1	9/21/15	0.001	.00064
Benzo[b]fluoranthene	**0.87**	1	9/21/15	0.1	.087
Benzo[k]fluoranthene	**0.31**	1	9/21/15	0.01	.0031
Benzo[a]pyrene	**0.50**	1	9/21/15	1	.5
Indeno[1,2,3-cd]pyrene	**0.31**	1	9/21/15	0.1	.031
Dibenz[a,h]anthracene	**0.087**	1	9/21/15	1	.087
Benzo[g,h,i]perylene	**0.26**	1	9/21/15		
p-Terphenyl-D14 (surr)	**36 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-D-05 (1)
Lab Sample ID:	148044.88
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.14**	1	9/22/15		
2-Methylnaphthalene	**0.20**	1	9/22/15		
Acenaphthylene	**0.23**	1	9/22/15		
Acenaphthene	**0.011**	1	9/22/15		
Fluorene	**0.027**	1	9/22/15		
Phenanthrene	**0.22**	1	9/22/15		
Anthracene	**0.22**	1	9/22/15		
Fluoranthene	**0.67**	1	9/22/15		
Pyrene	**0.62**	1	9/22/15		
Benzo[a]anthracene	**0.45**	1	9/22/15	0.1	.045
Chrysene	**0.51**	1	9/22/15	0.001	.00051
Benzo[b]fluoranthene	**0.77**	1	9/22/15	0.1	.077
Benzo[k]fluoranthene	**0.26**	1	9/22/15	0.01	.0026
Benzo[a]pyrene	**0.49**	1	9/22/15	1	.49
Indeno[1,2,3-cd]pyrene	**0.48**	1	9/22/15	0.1	.048
Dibenz[a,h]anthracene	**0.13**	1	9/22/15	1	.13
Benzo[g,h,i]perylene	**0.45**	1	9/22/15		
p-Terphenyl-D14 (surr)	**82 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-D-08 (0.5)
Lab Sample ID:	148044.91
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.079**	1	9/21/15		
2-Methylnaphthalene	**0.099**	1	9/21/15		
Acenaphthylene	**0.18**	1	9/21/15		
Acenaphthene	**0.019**	1	9/21/15		
Fluorene	**0.030**	1	9/21/15		
Phenanthrene	**0.35**	1	9/21/15		
Anthracene	**0.20**	1	9/21/15		
Fluoranthene	**0.92**	1	9/21/15		
Pyrene	**0.66**	1	9/21/15		
Benzo[a]anthracene	**0.46**	1	9/21/15	0.1	.046
Chrysene	**0.55**	1	9/21/15	0.001	.00055
Benzo[b]fluoranthene	**0.80**	1	9/21/15	0.1	.08
Benzo[k]fluoranthene	**0.29**	1	9/21/15	0.01	.0029
Benzo[a]pyrene	**0.50**	1	9/21/15	1	.5
Indeno[1,2,3-cd]pyrene	**0.32**	1	9/21/15	0.1	.032
Dibenz[a,h]anthracene	**0.084**	1	9/21/15	1	.084
Benzo[g,h,i]perylene	**0.26**	1	9/21/15		
p-Terphenyl-D14 (surr)	**48 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-D-DUP-01
Lab Sample ID:	148044.92
Matrix:	soil
Date Sampled:	9/14/15
Date Received:	9/16/15
Date Prepared:	9/18/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.071**	1	9/21/15		
2-Methylnaphthalene	**0.090**	1	9/21/15		
Acenaphthylene	**0.13**	1	9/21/15		
Acenaphthene	**0.0084**	1	9/21/15		
Fluorene	**0.019**	1	9/21/15		
Phenanthrene	**0.15**	1	9/21/15		
Anthracene	**0.13**	1	9/21/15		
Fluoranthene	**0.43**	1	9/21/15		
Pyrene	**0.35**	1	9/21/15		
Benzo[a]anthracene	**0.26**	1	9/21/15	0.1	.026
Chrysene	**0.31**	1	9/21/15	0.001	.00031
Benzo[b]fluoranthene	**0.50**	1	9/21/15	0.1	.05
Benzo[k]fluoranthene	**0.17**	1	9/21/15	0.01	.0017
Benzo[a]pyrene	**0.29**	1	9/21/15	1	.29
Indeno[1,2,3-cd]pyrene	**0.22**	1	9/21/15	0.1	.022
Dibenz[a,h]anthracene	**0.060**	1	9/21/15	1	.06
Benzo[g,h,i]perylene	**0.20**	1	9/21/15		
p-Terphenyl-D14 (surr)	**40 %R**		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 635779-91838/S091615PAH1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	1.2 (75 %R)	1.1 (66 %R) (13 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.4 (86 %R)	1.3 (76 %R) (12 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.3 (81 %R)	1.2 (74 %R) (9 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.3 (76 %R)	1.2 (70 %R) (8 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.4 (84 %R)	1.3 (78 %R) (7 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.3 (77 %R)	1.2 (75 %R) (3 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.3 (80 %R)	1.3 (75 %R) (6 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.4 (86 %R)	1.4 (82 %R) (5 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.3 (77 %R)	1.2 (73 %R) (5 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.3 (79 %R)	1.3 (75 %R) (5 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.3 (76 %R)	1.2 (73 %R) (4 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.4 (82 %R)	1.3 (79 %R) (4 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.3 (79 %R)	1.3 (77 %R) (3 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.4 (81 %R)	1.3 (79 %R) (3 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.4 (83 %R)	1.3 (81 %R) (2 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.4 (82 %R)	1.3 (79 %R) (4 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.3 (78 %R)	1.3 (75 %R) (4 RPD)	9/16/2015	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	77 %R	81 %R	73 %R	9/16/2015	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 635780-98059/S091715PAH1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	1.1 (66 %R)	1.0 (62 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.3 (76 %R)	1.2 (72 %R) (5 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.2 (72 %R)	1.1 (68 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.1 (67 %R)	1.1 (63 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.3 (76 %R)	1.2 (71 %R) (7 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.2 (70 %R)	1.1 (66 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.2 (70 %R)	1.1 (66 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.3 (76 %R)	1.2 (71 %R) (7 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.2 (70 %R)	1.1 (66 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.2 (71 %R)	1.1 (67 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.1 (68 %R)	1.1 (65 %R) (5 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.2 (74 %R)	1.2 (70 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.2 (71 %R)	1.1 (66 %R) (7 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.2 (73 %R)	1.1 (68 %R) (7 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.2 (75 %R)	1.2 (70 %R) (7 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.2 (73 %R)	1.1 (69 %R) (6 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.2 (71 %R)	1.1 (66 %R) (7 RPD)	9/18/2015	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	63 %R	71 %R	66 %R	9/18/2015	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 635781-68132/A091815PAH1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.1	20 (81 %R)	18 (74 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	22 (90 %R)	21 (82 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Acenaphthylene	< 0.1	23 (91 %R)	21 (83 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Acenaphthene	< 0.1	21 (83 %R)	19 (76 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Fluorene	< 0.1	24 (94 %R)	22 (89 %R) (5 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Phenanthrene	< 0.1	22 (89 %R)	21 (84 %R) (6 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Anthracene	< 0.1	22 (89 %R)	21 (83 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Fluoranthene	< 0.1	24 (97 %R)	23 (90 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Pyrene	< 0.1	22 (89 %R)	21 (83 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	23 (91 %R)	21 (85 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Chrysene	< 0.1	22 (88 %R)	21 (83 %R) (6 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	24 (95 %R)	22 (89 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	23 (92 %R)	21 (85 %R) (8 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	24 (95 %R)	22 (88 %R) (8 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	24 (96 %R)	22 (89 %R) (8 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	23 (93 %R)	22 (87 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	22 (90 %R)	21 (85 %R) (6 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
p-Terphenyl-D14 (surr)	85 %R	90 %R	84 %R	9/18/2015	% Rec	33 - 130	20	8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 635781-64777/S091815PAH1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	1.2 (73 %R)	1.0 (63 %R) (15 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.4 (84 %R)	1.2 (73 %R) (14 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.3 (81 %R)	1.2 (72 %R) (12 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.3 (76 %R)	1.1 (67 %R) (13 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.4 (85 %R)	1.3 (76 %R) (11 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.3 (79 %R)	1.2 (73 %R) (8 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.3 (80 %R)	1.2 (73 %R) (9 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.5 (88 %R)	1.3 (80 %R) (10 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.3 (80 %R)	1.3 (75 %R) (6 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.4 (83 %R)	1.3 (77 %R) (8 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.3 (80 %R)	1.2 (74 %R) (8 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.4 (86 %R)	1.3 (78 %R) (10 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.4 (82 %R)	1.3 (77 %R) (6 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.4 (86 %R)	1.3 (79 %R) (8 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.5 (87 %R)	1.3 (79 %R) (10 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.4 (85 %R)	1.3 (77 %R) (10 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.3 (81 %R)	1.2 (74 %R) (9 RPD)	9/21/2015	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	75 %R	81 %R	75 %R	9/21/2015	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 635784-48361/S092115PAH1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	0.90 (54 %R)	1.0 (60 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	0.97 (58 %R)	1.1 (66 %R) (13 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.0 (61 %R)	1.1 (68 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	0.98 (59 %R)	1.1 (66 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.1 (65 %R)	1.2 (72 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.1 (66 %R)	1.2 (72 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.1 (69 %R)	1.3 (76 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.2 (73 %R)	1.3 (80 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.2 (71 %R)	1.3 (77 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.2 (70 %R)	1.3 (77 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.1 (69 %R)	1.2 (75 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.2 (74 %R)	1.3 (80 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.2 (71 %R)	1.3 (76 %R) (7 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.2 (74 %R)	1.3 (80 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.3 (75 %R)	1.3 (81 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.2 (74 %R)	1.3 (78 %R) (5 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.2 (71 %R)	1.2 (74 %R) (4 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	83 %R	73 %R	90 %R	9/22/2015	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	FB-SP-01
Lab Sample ID:	148044.02
Matrix:	aqueous
Date Sampled:	9/15/15
Date Received:	9/16/15
Units:	ug/l
Date of Extraction/Prep:	9/21/15
Date of Analysis:	9/21/15
Analyst:	AR
Method:	8082
Dilution Factor:	1

PCB-1016	< 0.2
PCB-1221	< 0.2
PCB-1232	< 0.2
PCB-1242	< 0.2
PCB-1248	< 0.2
PCB-1254	< 0.2
PCB-1260	< 0.2
PCB-1262	< 0.2
PCB-1268	< 0.2
TMX (surr)	**90 %R**
DCB (surr)	**92 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	Drain Sediment	SP-A-01 (1.5)	SP-A-02 (4.5)	SP-A-03 (7.5)	SP-A-04 (10.5)	SP-A-05 (13.5)	SP-A-06 (13.5)
Lab Sample ID:	148044.01	148044.03	148044.04	148044.05	148044.06	148044.07	148044.08
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/14/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date of Analysis:	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	**0.16**	**0.13**	**0.13**	**0.14**	**0.12**	**0.054**
PCB-1260	< 0.02	**0.65**	**0.31**	**0.27**	**0.29**	**0.17**	**0.063**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**97 %R**	**84 %R**	**87 %R**	**89 %R**	**83 %R**	**83 %R**	**83 %R**
DCB (surr)	**83 %R**	**74 %R**	**75 %R**	**78 %R**	**74 %R**	**76 %R**	**74 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-01 (1.5): PCB-1260 result obtained from a 4X dilution analyzed on 9/18/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-07 (10.5)	SP-A-08 (7.5)	SP-A-09 (4.5)	SP-A-10 (1.5)	SP-A-11 (13.5)	SP-A-12 (10.5)	SP-A-13 (7.5)
Lab Sample ID:	148044.09	148044.1	148044.11	148044.12	148044.13	148044.14	148044.15
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/18/15
Date of Analysis:	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/19/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	**0.060**	< 0.02	**0.21**
PCB-1260	**0.064**	**0.035**	**0.024**	**0.031**	**0.085**	**0.062**	**0.60**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**88 %R**	**83 %R**	**82 %R**	**83 %R**	**85 %R**	**76 %R**	**85 %R**
DCB (surr)	**77 %R**	**74 %R**	**72 %R**	**74 %R**	**70 %R**	**64 %R**	**73 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-13 (7.5): PCB-1260 result obtained from a 2X dilution analyzed on 9/21/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-14 (4.5)	SP-A-15 (1.5)	SP-A-16 (13.5)	SP-A-17 (10.5)	SP-A-18 (7.5)	SP-A-19 (4.5)	SP-A-20 (1.5)
Lab Sample ID:	148044.16	148044.17	148044.18	148044.19	148044.2	148044.21	148044.22
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15
Date of Analysis:	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.24**	< 0.02	**0.067**	**0.060**	**0.068**	**0.080**	**0.085**
PCB-1260	**0.46**	**1.2**	**0.10**	**0.072**	**0.074**	**0.094**	**0.098**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**87 %R**	**90 %R**	**85 %R**	**81 %R**	**76 %R**	**78 %R**	**77 %R**
DCB (surr)	**80 %R**	**79 %R**	**78 %R**	**73 %R**	**71 %R**	**69 %R**	**69 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-14 (4.5): PCB-1260 result obtained from a 2X dilution analyzed on 9/21/2015.
SP-A-15 (1.5): PCB-1260 result obtained from a 5X dilution analyzed on 9/21/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-21 (13.5)	SP-A-22 (10.5)	SP-A-23 (7.5)	SP-A-24 (4.5)	SP-A-25 (1.5)	SP-A-26 (13.5)	SP-A-27 (10.5)
Lab Sample ID:	148044.23	148044.24	148044.25	148044.26	148044.27	148044.28	148044.29
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	91	92.9	92.2	89.6	86.8	90.2	90.5
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15
Date of Analysis:	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.21**	< 0.02	**0.061**	**0.043**	**0.042**	**0.087**	< 0.02
PCB-1260	**0.23**	**0.043**	**0.078**	**0.069**	**0.063**	**0.13**	**0.044**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**98 %R**	**78 %R**	**84 %R**	**82 %R**	**83 %R**	**85 %R**	**84 %R**
DCB (surr)	**88 %R**	**67 %R**	**71 %R**	**69 %R**	**73 %R**	**75 %R**	**73 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-28 (7.5)	SP-A-29 (4.5)	SP-A-30 (1.5)	SP-A-31 (13.5)	SP-A-32 (10.5)	SP-A-33 (7.5)	SP-A-34 (4.5)
Lab Sample ID:	148044.3	148044.31	148044.32	148044.33	148044.34	148044.35	148044.36
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15
Date of Analysis:	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15	9/19/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	**0.14**	**0.20**	**1.3**	< 0.02	< 0.02
PCB-1254	**0.027**	**0.030**	**0.087**	**0.31**	**1.6**	**0.26**	**0.29**
PCB-1260	**0.047**	**0.053**	**0.081**	**0.70**	**1.5**	**0.65**	**0.64**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**84 %R**	**82 %R**	**81 %R**	**86 %R**	**84 %R**	**88 %R**	**93 %R**
DCB (surr)	**71 %R**	**71 %R**	**67 %R**	**69 %R**	**64 %R**	**73 %R**	**74 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-31 (13.5): PCB-1260 result obtained from a 4X dilution analyzed on 9/21/2015.
SP-A-32 (10.5): PCB-1248, PCB-1254, PCB-1260 result obtained from a 10X dilution analyzed on 9/21/2015.
SP-A-33 (7.5): PCB-1260 result obtained from a 4X dilution analyzed on 9/21/2015.
SP-A-34 (4.5): PCB-1260 result obtained from a 4X dilution analyzed on 9/21/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-35 (1.5)
Lab Sample ID:	148044.37
Matrix:	soil
Date Sampled:	9/15/15
Date Received:	9/16/15
Units:	mg/kg
Date of Extraction/Prep:	9/18/15
Date of Analysis:	9/19/15
Analyst:	AR
Method:	8082
Dilution Factor:	1

PCB-1016	< 0.02
PCB-1221	< 0.02
PCB-1232	< 0.02
PCB-1242	< 0.02
PCB-1248	< 0.02
PCB-1254	**0.28**
PCB-1260	**0.61**
PCB-1262	< 0.02
PCB-1268	< 0.02
TMX (surr)	**91 %R**
DCB (surr)	**74 %R**

Acid clean-up was performed on the samples and associated batch QC.
PCB-1260 result obtained from a 2X dilution analyzed on 9/21/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-36 (13.5)	SP-A-37 (10.5)	SP-A-38 (7.5)	SP-A-39 (4.5)	SP-A-40 (1.5)	SP-A-41 (11.25)	SP-A-42 (8.75)
Lab Sample ID:	148044.38	148044.39	148044.4	148044.41	148044.42	148044.43	148044.44
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	90.2	90	89.6	89.8	86.5	87.7	89.4
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15
Date of Analysis:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.039**	**0.021**	**0.069**	< 0.02	< 0.02	**0.13**	**0.16**
PCB-1260	**0.074**	**0.028**	**0.091**	**0.047**	**0.061**	**0.19**	**0.25**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**83 %R**	**58 %R**	**74 %R**	**82 %R**	**85 %R**	**86 %R**	**86 %R**
DCB (surr)	**78 %R**	**33 %R**	**50 %R**	**60 %R**	**64 %R**	**68 %R**	**74 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-43 (6.25)	SP-A-44 (3.75)	SP-A-45 (1.25)	SP-A-46 (11.25)	SP-A-47 (8.75)
Lab Sample ID:	148044.45	148044.46	148044.47	148044.48	148044.49
Matrix:	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	88.9	90	88.8	88.4	86
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15
Date of Analysis:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Analyst:	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.13**	**0.17**	**0.092**	< 0.02	**0.036**
PCB-1260	**0.24**	**0.26**	**0.13**	< 0.02	**0.050**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**90 %R**	**87 %R**	**85 %R**	**80 %R**	**84 %R**
DCB (surr)	**75 %R**	**65 %R**	**70 %R**	**68 %R**	**71 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-48 (6.25)	SP-A-49 (3.75)	SP-A-50 (1.25)	SP-A-51 (13.5)	SP-A-52 (10.5)	SP-A-53 (7.5)	SP-A-54 (4.5)
Lab Sample ID:	148044.5	148044.51	148044.52	148044.53	148044.54	148044.55	148044.56
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	81.9	91.1	85.4	87.8	87.7	91.3	89.6
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15
Date of Analysis:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	**0.080**	< 0.02	**0.087**	**0.061**	< 0.02	< 0.02	< 0.02
PCB-1254	**0.13**	**0.11**	**0.27**	**0.13**	**0.30**	< 0.02	**0.042**
PCB-1260	**0.15**	**0.23**	**0.33**	**0.19**	**0.91**	**0.041**	**0.073**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**94 %R**	**97 %R**	**88 %R**	**82 %R**	**79 %R**	**85 %R**	**77 %R**
DCB (surr)	**70 %R**	**78 %R**	**75 %R**	**73 %R**	**65 %R**	**70 %R**	**65 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-50 (1.25): PCB-1260 result obtained from a 2X dilution analyzed on 9/23/2015.
SP-A-52 (10.5): PCB-1260 result obtained from a 4X dilution analyzed on 9/23/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-55 (1.5)	SP-A-56 (13.5)	SP-A-57 (10.5)	SP-A-58 (7.5)	SP-A-59 (4.5)	SP-A-60 (1.5)	SP-A-DUP -01
Lab Sample ID:	148044.57	148044.58	148044.59	148044.6	148044.61	148044.62	148044.63
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15	9/15/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	91.4	94.8	94.1	92.7	91.7	90.4	93.9
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Date of Analysis:	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	**0.43**	< 0.02	< 0.02	**0.091**	< 0.02	< 0.02	< 0.02
PCB-1254	**0.21**	**0.28**	**0.53**	**0.21**	**1.2**	**2.6**	< 0.02
PCB-1260	**0.20**	**0.57**	**1.0**	**0.30**	**1.0**	**1.6**	**0.047**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**85 %R**	**90 %R**	**94 %R**	**91 %R**	**88 %R**	**84 %R**	**88 %R**
DCB (surr)	**84 %R**	**85 %R**	**87 %R**	**73 %R**	**72 %R**	**70 %R**	**78 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-55 (1.5): PCB-1248 result obtained from a 2X dilution analyzed on 9/23/2015.
SP-A-56 (13.5): PCB-1254 and PCB-1260 result obtained from a 4X dilution analyzed on 9/23/2015.
SP-A-57 (10.5): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/23/2015.
SP-A-59 (4.5): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/23/2015.
SP-A-60 (1.5): PCB-1254 and PCB-1260 result obtained from a 10X dilution analyzed on 9/23/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-DUP-02	SP-A-DUP -03	SP-B-01 (4.5)	SP-B-02 (1.5)	SP-B-03 (4.5)
Lab Sample ID:	148044.64	148044.65	148044.66	148044.67	148044.68
Matrix:	soil	soil	soil	soil	soil
Date Sampled:	9/15/15	9/15/15	9/14/15	9/14/15	9/14/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	89	90.1	89.1	81.2	89.4
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Date of Analysis:	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
Analyst:	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	**0.19**	< 0.02	< 0.02	< 0.02
PCB-1254	**0.045**	**0.35**	< 0.02	< 0.02	< 0.02
PCB-1260	**0.079**	**0.33**	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**84 %R**	**84 %R**	**83 %R**	**81 %R**	**87 %R**
DCB (surr)	**74 %R**	**76 %R**	**82 %R**	**81 %R**	**78 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-DUP-03: PCB-1254 and PCB-1260 result obtained from a 2X dilution analyzed on 9/23/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-B-04 (1.5)	SP-B-05 (4.5)	SP-B-06 (1.5)	SP-B-07 (4.5)	SP-B-08 (1.5)	SP-B-DUP -01	SP-C-01 (3)
Lab Sample ID:	148044.69	148044.7	148044.71	148044.72	148044.73	148044.74	148044.75
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	82.2	89.3	85.1	89.2	82.3	81.8	84.5
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Date of Analysis:	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.032**	< 0.02	< 0.02	< 0.02	< 0.02	**0.042**	< 0.02
PCB-1260	**0.052**	< 0.02	< 0.02	< 0.02	< 0.02	**0.063**	**0.037**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**87 %R**	**82 %R**	**84 %R**	**81 %R**	**82 %R**	**83 %R**	**72 %R**
DCB (surr)	**79 %R**	**78 %R**	**77 %R**	**75 %R**	**72 %R**	**70 %R**	**60 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-C-02 (1)	SP-C-03 (3)	SP-C-04 (1)	SP-C-05 (3)	SP-C-06 (1)	SP-C-07 (3)	SP-C-08 (1)
Lab Sample ID:	148044.76	148044.77	148044.78	148044.79	148044.8	148044.81	148044.82
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	81.5	86.5	83.4	93.6	80.2	82.6	90
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
Date of Analysis:	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	**0.23**	< 0.02	**0.081**
PCB-1254	**0.056**	< 0.02	< 0.02	**0.072**	**0.12**	**0.053**	**0.11**
PCB-1260	**0.086**	**0.025**	< 0.02	**0.10**	**0.13**	**0.076**	**0.25**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**78 %R**	**76 %R**	**79 %R**	**78 %R**	**85 %R**	**73 %R**	**86 %R**
DCB (surr)	**64 %R**	**64 %R**	**64 %R**	**65 %R**	**67 %R**	**62 %R**	**58 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-C-DUP-01	SP-D-01 (1)	SP-D-02 (0.5)	SP-D-03 (1)	SP-D-04 (0.5)	SP-D-05 (1)	SP-D-06 (0.5)
Lab Sample ID:	148044.83	148044.84	148044.85	148044.86	148044.87	148044.88	148044.89
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15	9/14/15
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
% Solid:	82	86.3	79.4	89.8	79.3	88.9	81.9
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/22/15	9/22/15	9/22/15	9/23/15	9/23/15	9/23/15	9/23/15
Date of Analysis:	9/23/15	9/23/15	9/23/15	9/24/15	9/24/15	9/24/15	9/24/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	**0.27**	< 0.02	< 0.02	< 0.02
PCB-1254	**0.059**	**0.61**	**0.20**	**0.91**	**0.19**	**1.2**	**0.66**
PCB-1260	**0.087**	**0.58**	**0.23**	**0.64**	**0.25**	**0.75**	**1.3**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**77 %R**	**76 %R**	**78 %R**	**80 %R**	**76 %R**	**77 %R**	**80 %R**
DCB (surr)	**63 %R**	**60 %R**	**59 %R**	**66 %R**	**61 %R**	**64 %R**	**63 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-D-01 (1): PCB-1254 and PCB-1260 result obtained from a 2X dilution analyzed on 9/24/2015.
SP-D-03 (1): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/24/2015.
SP-D-05 (1): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/24/2015.
SP-D-06 (0.5): PCB-1254 and PCB-1260 result obtained from a 10X dilution analyzed on 9/24/2015.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-D-07 (1)	SP-D-08 (0.5)	SP-D-DUP -01
Lab Sample ID:	148044.9	148044.91	148044.92
Matrix:	soil	soil	soil
Date Sampled:	9/14/15	9/14/15	9/14/15
Date Received:	9/16/15	9/16/15	9/16/15
% Solid:	89	84.5	85.9
Units:	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/23/15	9/23/15	9/23/15
Date of Analysis:	9/24/15	9/24/15	9/24/15
Analyst:	AR	AR	AR
Extraction Method:	3540C	3540C	3540C
Analysis Method:	8082	8082	8082
Dilution Factor:	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02
PCB-1248	**0.21**	**0.18**	< 0.02
PCB-1254	**0.73**	**0.73**	**2.3**
PCB-1260	**0.64**	**0.85**	**1.1**
PCB-1262	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02
TMX (surr)	**79 %R**	**81 %R**	**76 %R**
DCB (surr)	**65 %R**	**69 %R**	**58 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-D-07 (1): PCB-1254 and PCB-1260 result obtained from a 4X dilution analyzed on 9/24/2015.
SP-D-08 (0.5): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/24/2015.
SP-D-DUP-01: PCB-1254 and PCB-1260 result obtained from a 10X dilution analyzed on 9/24/2015.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578088326/S091715PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.12 (93 %R)	0.12 (90 %R) (3 RPD)	9/18/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
PCB-1260	< 0.02	0.11 (83 %R)	0.11 (84 %R) (1 RPD)	9/18/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/18/2015	mg/kg			8082
TMX (surr)	97 %R	96 %R	95 %R	9/18/2015	% Rec	30 - 150	30	8082
DCB (surr)	101 %R	96 %R	97 %R	9/18/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578177426/S091815PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.13 (99 %R)	0.12 (93 %R) (6 RPD)	9/19/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
PCB-1260	< 0.02	0.12 (87 %R)	0.11 (82 %R) (6 RPD)	9/19/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/19/2015	mg/kg			8082
TMX (surr)	100 %R	106 %R	97 %R	9/19/2015	% Rec	30 - 150	30	8082
DCB (surr)	90 %R	101 %R	90 %R	9/19/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578441918/A092115PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.2	2.1 (103 %R)	2.0 (101 %R) (2 RPD)	9/21/2015	ug/l	40 - 140	20	8082
PCB-1221	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1232	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1242	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1248	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1254	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1260	< 0.2	1.8 (91 %R)	1.8 (92 %R) (1 RPD)	9/21/2015	ug/l	40 - 140	20	8082
PCB-1262	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1268	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
TMX (surr)	108 %R	97 %R	96 %R	9/21/2015	% Rec	30 - 150	20	8082
DCB (surr)	108 %R	97 %R	97 %R	9/21/2015	% Rec	30 - 150	20	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578431625/S092115PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.13 (96 %R)	0.13 (100 %R) (4 RPD)	9/22/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
PCB-1260	< 0.02	0.11 (79 %R)	0.11 (85 %R) (7 RPD)	9/22/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/22/2015	mg/kg			8082
TMX (surr)	101 %R	96 %R	99 %R	9/22/2015	% Rec	30 - 150	30	8082
DCB (surr)	93 %R	85 %R	92 %R	9/22/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578431898/S092115PCB2

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.13 (100 %R)	0.14 (104 %R) (4 RPD)	9/23/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1260	< 0.02	0.12 (87 %R)	0.12 (89 %R) (2 RPD)	9/23/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
TMX (surr)	94 %R	102 %R	103 %R	9/23/2015	% Rec	30 - 150	30	8082
DCB (surr)	92 %R	93 %R	97 %R	9/23/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578517659/S092215PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (108 %R)	0.14 (107 %R) (1 RPD)	9/23/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1260	< 0.02	0.13 (99 %R)	0.13 (97 %R) (2 RPD)	9/23/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/23/2015	mg/kg			8082
TMX (surr)	104 %R	104 %R	105 %R	9/23/2015	% Rec	30 - 150	30	8082
DCB (surr)	103 %R	106 %R	105 %R	9/23/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Batch ID: 63578600812/S092315PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (107 %R)	0.15 (109 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1260	< 0.02	0.13 (95 %R)	0.13 (95 %R) (0 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
TMX (surr)	104 %R	106 %R	106 %R	9/24/2015	% Rec	30 - 150	30	8082
DCB (surr)	93 %R	95 %R	95 %R	9/24/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID: FB-SP-01

Lab Sample ID: 148044.02
Matrix: aqueous
Date Sampled: 9/15/15
Date Received: 9/16/15

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Lead	< 0.001	AqTot	mg/L	9/18/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-02 (4.5)	SP-A-04 (10.5)	SP-A-06 (13.5)	SP-A-08 (7.5)					
Lab Sample ID:	148044.04	148044.06	148044.08	148044.1					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**150**	**210**	**170**	**96**	SolTotDry	mg/kg	9/18/15	6020	DS

Sample ID:	SP-A-10 (1.5)	SP-A-12 (10.5)	SP-A-14 (4.5)	SP-A-16 (13.5)					
Lab Sample ID:	148044.12	148044.14	148044.16	148044.18					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**100**	**370**	**220**	**200**	SolTotDry	mg/kg	9/18/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-18 (7.5)	SP-A-20 (1.5)	SP-A-22 (10.5)	SP-A-24 (4.5)					
Lab Sample ID:	148044.2	148044.22	148044.24	148044.26					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**170**	**220**	**100**	**150**	SolTotDry	mg/kg	9/18/15	6020	DS

Sample ID:	SP-A-26 (13.5)	SP-A-28 (7.5)	SP-A-30 (1.5)	SP-A-32 (10.5)					
Lab Sample ID:	148044.28	148044.3	148044.32	148044.34					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**170**	**110**	**150**	**700**	SolTotDry	mg/kg	9/18/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-34 (4.5)	SP-A-36 (13.5)	SP-A-38 (7.5)	SP-A-40 (1.5)					
Lab Sample ID:	148044.36	148044.38	148044.4	148044.42					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**200**	**130**	**230**	**120**	SolTotDry	mg/kg	9/18/15	6020	DS

Sample ID:	SP-A-42 (8.75)								
Lab Sample ID:	148044.44								
Matrix:	soil								
Date Sampled:	9/15/15				Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15								
Lead	**230**				SolTotDry	mg/kg	9/18/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-44 (3.75)	SP-A-46 (11.25)	SP-A-48 (6.25)	SP-A-50 (1.25)					
Lab Sample ID:	148044.46	148044.48	148044.5	148044.52					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**210**	**120**	**170**	**210**	SolTotDry	mg/kg	9/21/15	6020	DS

Sample ID:	SP-A-52 (10.5)	SP-A-54 (4.5)	SP-A-56 (13.5)	SP-A-58 (7.5)					
Lab Sample ID:	148044.54	148044.56	148044.58	148044.6					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/15/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**250**	**140**	**190**	**220**	SolTotDry	mg/kg	9/21/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-60 (1.5)	SP-A-DUP-01	SP-A-DUP -03	SP-B-01 (4.5)					
Lab Sample ID:	148044.62	148044.63	148044.65	148044.66					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/15/15	9/15/15	9/15/15	9/14/15					
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Lead	**530**	**110**	**240**	**71**	SolTotDry	mg/kg	9/21/15	6020	DS

Sample ID:	SP-B-04 (1.5)	SP-B-05 (4.5)	SP-B-08 (1.5)	SP-B-DUP -01					
Lab Sample ID:	148044.69	148044.7	148044.73	148044.74					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/14/15	9/14/15	9/14/15	9/14/15					
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Lead	**95**	**80**	**72**	**97**	SolTotDry	mg/kg	9/21/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-C-02 (1)	SP-C-03 (3)	SP-C-06 (1)	SP-C-07 (3)					
Lab Sample ID:	148044.76	148044.77	148044.8	148044.81					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/14/15	9/14/15	9/14/15	9/14/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**170**	**170**	**180**	**200**	SolTotDry	mg/kg	9/21/15	6020	DS

Sample ID:	SP-C-DUP-01	SP-D-04 (0.5)	SP-D-08 (0.5)	SP-D-DUP -01					
Lab Sample ID:	148044.83	148044.87	148044.91	148044.92					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/14/15	9/14/15	9/14/15	9/14/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/16/15	9/16/15	9/16/15	9/16/15					
Lead	**170**	**190**	**630**	**390**	SolTotDry	mg/kg	9/21/15	6020	DS

LABORATORY REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-D-01 (1)	SP-D-05 (1)
Lab Sample ID:	148044.84	148044.88
Matrix:	soil	soil
Date Sampled:	9/14/15	9/14/15
Date Received:	9/16/15	9/16/15

			Analytical Matrix	Units	Date of Analysis	Method	Analyst
Lead	**340**	**1100**	SolTotDry	mg/kg	9/22/15	6020	DS

QC REPORT

EAI ID#: **148044**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Lead	< 0.5	37 (93 %R)		mg/kg	9/18/15	80 - 120	20	6020
Lead	< 0.001	0.93 (93 %R)		mg/L	9/18/15	80 - 120	20	6020
Lead	< 0.5	39 (97 %R)		mg/kg	9/21/15	80 - 120	20	6020
Lead	< 0.5	40 (99 %R)		mg/kg	9/22/15	80 - 120	20	6020

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

CHAIN-OF-CUSTODY RECORD

148044

JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
Drain Sediment	9-14-15 11:00	soil (Grab) or Comp	SolTotDry/PCB	X 7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
FB-SP-01	9-15-15 9:10	aqueous Grab or Comp	AqTot/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-01(1.5)	9-15-15 10:07	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-02(4.5)	10:05	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-03(7.5)	10:07	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Project Name Leddy Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
Email: jem@jcomail.com
Direct

Results Needed by: Preferred date 5-day TAT
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

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PO# Verbal
Quote#: 1012878
Temp 4.1 °C
Ice Y ☒ N ☐

Samples Collected by: Jeremy Matt 9-16-15 10:20

Relinquished by	Date/Time	Received by
	9-16-15 13:00	
Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148044

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-04(10.5)	9-15-15	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-05(13.5)	9:45	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-06(13.5)	9:58	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-07(10.5)	10:19	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-08(7.5)	10:26	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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CHAIN-OF-CUSTODY RECORD

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-09(4.5)	9-15-15 10:31	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-10(1.5)	10:36	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-11(13.5)	10:43 10:48	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-12(10.5)	10:50	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-13(7.5)	10:52	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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CHAIN-OF-CUSTODY RECORD

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JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-14(4.5)	10:54 9-15-15	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-15(1.5)	10:56	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-16(13.5)	11:16	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-17(10.5)	10:22	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-18(7.5)	10:24	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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CHAIN-OF-CUSTODY RECORD

148044

JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-19(4.5)	9-15-15 11:26	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-20(1.5)	11:28	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-21(13.5)	11:44	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-22(10.5)	11:46	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-23(7.5)	11:48	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ~~ICE~~	Dissolved Sample Field Filtered ☐

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Samples Collected by:

Relinquished by	Date/Time	Received by
	9-16-15 10:20	
	9-16-15 13:00	

Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148044

JCO

95

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-24(4.5)	9-15-15 11:52	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-25(1.5)	11:55	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-26(13.5)	12:06	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-27(10.5)	12:10	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-28(2.5)	12:13	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Quote#: 1012878

Temp 4.1 °C

Ice Y ☒ N ☐

Samples Collected by:

9-16-15 10:30

Relinquished by	Date/Time	Received by
	9-16-15 13:00	
Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148044
JCO

96

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-29(4.5)	9-15-15 12:15	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-30(1.5)	12:18	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-31(13.5)	13:10	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-32(10.5)	13:14	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-33(2.5)	13:17	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Samples Collected by:

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CHAIN-OF-CUSTODY RECORD

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JCO

97

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-34(4.5)	9-15-15 13:19	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-35(1.5)	13:21	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-36(13.5)	1328	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-37(~~12.5~~ 10.5)	1330	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-38(2.5)	1333	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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CHAIN-OF-CUSTODY RECORD

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-39(9.5)	9-15-15 1336	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-40(1.5)	1338	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-41(11.25)	1351	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-42(8.75)	1355 ~~1400~~ JKm	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-43(6.25)	1357 ~~1404~~ JKm	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-44(3.75)	* 9/15/15 1400	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-45(1.25)	1402	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-46(11.25)	1406	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-47(8.75)	1408	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-48(6.25)	1409	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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EAI Project ID 4692
Project Name Leddy Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
Email: jem@jcomail.com
Direct

Results Needed by: Preferred date 5-day
Notes:
* Date of collection per J.Matt 9/16/15 jm

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
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PO# Verbal
Quote#: 1012878
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Samples Collected by:

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	9-16-15 10:20	
	9-16-15 13:00	

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100

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-49(3.75)	1412 * 9/15/15	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-50(1.25)	1413	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-51(13.5)	1415	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-52(10.5)	1418	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-53(7.5)	1420	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
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Samples Collected by:

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	9-16-15 10:20	
	9-16-15 13:00	

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JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-54(4.5)	1421 9/15/15 *	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-55(1.5)	1425	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-56(13.5)	1430	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-57(10.5)	1436	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-58(7.5)	1440	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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	9-16-15 13:00	
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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-59(4.5)	1441 9/15/15	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-60(1.5)	1445	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-DUP-01	9-15-15 12:00	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-DUP-02	9-15-15 12:01	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-DUP-03	9-15-15 1202	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Direct

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QC deliverables
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Samples Collected by
9-16-15 10:20

Relinquished by	Date/Time	Received by
	9-16-15 13:00	
Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148044
JCO

103

Sample IDs	Date/Time Composites need start and stop dates/times	Matrix	Parameters and Sample Notes	# of containers
SP-B-01(4.5)	11:30 ~~9/15/15~~ 9-14-15	soil Grab or Comp	SolTotDry/PCB, ~~PAH, PL~~ PCB, PAH, PL	1
☑ Sampler confirms ID and parameters are accurate			Circle preservative/s: HCL HNO$_3$ H$_2$SO$_4$ NaOH MEOH Na$_2$S$_2$O$_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-02(1.5)	11:35 9-14-15	soil Grab or Comp	SolTotDry/PCB/~~PAH/ICPMets.Pb~~ PCB only per customer. ADB 9/29/15	
☑ Sampler confirms ID and parameters are accurate			Circle preservative/s: HCL HNO$_3$ H$_2$SO$_4$ NaOH MEOH Na$_2$S$_2$O$_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-03(4.5)	9-14-15 11:40	soil Grab or Comp	SolTotDry/PCB, ~~PAH, PL~~	
☑ Sampler confirms ID and parameters are accurate			Circle preservative/s: HCL HNO$_3$ H$_2$SO$_4$ NaOH MEOH Na$_2$S$_2$O$_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-04(1.5)	11:45	soil Grab or Comp	SolTotDry/PCB/~~PAH/ICPMets.Pb~~ PCB, PAH, PL	
☑ Sampler confirms ID and parameters are accurate			Circle preservative/s: HCL HNO$_3$ H$_2$SO$_4$ NaOH MEOH Na$_2$S$_2$O$_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-05(4.5)	11:55	soil Grab or Comp	SolTotDry/PCB PCB, PAH, PL	
☑ Sampler confirms ID and parameters are accurate			Circle preservative/s: HCL HNO$_3$ H$_2$SO$_4$ NaOH MEOH Na$_2$S$_2$O$_3$ ~~ICE~~	Dissolved Sample Field Filtered ☑

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State VT
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Customer The Johnson Company
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Email: jem@jcomail.com
Direct

Results Needed by: Preferred date 5-day
Notes:
~~* Date of collection per J. Matt~~

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC
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☐ EQUIS

PO# Verbal
Quote#: 1012878
Temp 4.1 °C
Ice Y ☒ N ☐

Samples Collected by: JEM

Relinquished by	Date/Time	Received by
	9-16-15 10:20	
	9-16-15 13:00	

CHAIN-OF-CUSTODY RECORD

148044

JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-B-06(1.5)	9-14-15 12:00	soil Grab or Comp	SolTotDry/~~PCB/PAH/ICPMets.Pb~~ PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-07(4.5)	12:05	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-08(1.5)	12:10	soil Grab or Comp	SolTotDry/PCB/~~PAH/ICPMets.Pb~~ PCB, PAH, Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-B-DUP-01	9-14-15 12:01	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-01(3)	14:05	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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EAI Project ID 4692
Project Name Leddy Park Burlington, VT

State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
Email: jem@jcomail.com
Direct

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
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Samples Collected by:

Relinquished by	Date/Time	Received by
	9-16-15 10:20	
	9-16-15 13:00	

Relinquished by Date/Time Received by

CHAIN-OF-CUSTODY RECORD

148044
JCO

105

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-C-02(1)	9-14-15 1406	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-03(3)	1410	soil Grab or Comp	SolTotDry/PCB PCB, PAH, Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-04(1)	1415	soil Grab or Comp	SolTotDry/~~PCB/PAH/ICPMets.Pb~~ PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-05(3)	1420	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-06(1)	1425	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Results Needed by: Preferred date 5-Da,
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QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

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Samples Collected by:

Relinquished by	Date/Time	Received by
	9-16-15 10:20	
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CHAIN-OF-CUSTODY RECORD

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JCO

106

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-C-07(3)	9-14-15 14:30	soil Grab or Comp	SolTotDry/PCB PCB, PAH, Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-08(1)	1435	soil Grab or Comp	SolTotDry/~~PCB/PAH/ICPMets.Pb~~ PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-C-DUP-01	1200	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-01(1)	1515	soil Grab or Comp	SolTotDry/PCB/PAH/Pb per customer ADB 9/29/15	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-02(0.5)	1520	soil Grab or Comp	SolTotDry/PCB/~~PAH/ICPMets.Pb~~ PCB only per customer ADB 9/29/15	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Samples Collected by: 9-16-15 10:20 JD

Relinquished by	Date/Time	Received by
JD	9-16-15 13:00	
Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148044
JCO

107

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-D-03(1)	9/14/15 1525	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-04(0.5)	1530	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-05(1)	1535	soil Grab or Comp	SolTotDry/PCB/PAH/Pb per customer AOB 9/29/15	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-06(0.5)	1540	soil Grab or Comp	SolTotDry/PCB~~/PAH/ICPMets.Pb~~ PCB only per customer AOB 9/29/15	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-07(1)	1545	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Samples Collected by:

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	9-16-15 10:20	
	9-16-15 13:00	

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CHAIN-OF-CUSTODY RECORD

148044
JCO

108

Sample IDs	Date/Time *Composites need start and stop dates/times*	Matrix	Parameters and Sample Notes	# of containers
SP-D-08(0.5)	9-14-15 1550	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-D-DUP-01	1203	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Email: jem@jcomail.com
Direct

Results Needed by: Preferred date 5-days
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 4.1 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-16-15 10:20	
	9-16-15 13:00	

Relinquished by Date/Time Received by

Eastern Analytical, Inc.

professional laboratory & drilling services

Jeremy Matt
The Johnson Company
100 State Street
Montpelier , VT 05602

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 148121
Client Identification: Leddy Park Burlington, VT
Date Received: 9/17/2015

Dear Mr. Matt :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director — 9/20/15 Date — 36 # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Temperature upon receipt (°C): 3.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148121.01	SP-A-61 (13.5)	9/17/15	9/16/15	soil	89.2	Adheres to Sample Acceptance Policy
148121.02	SP-A-62 (10.5)	9/17/15	9/16/15	soil	87.5	Adheres to Sample Acceptance Policy
148121.03	SP-A-63 (7.5)	9/17/15	9/16/15	soil	88.1	Adheres to Sample Acceptance Policy
148121.04	SP-A-64 (4.5)	9/17/15	9/16/15	soil	85.9	Adheres to Sample Acceptance Policy
148121.05	SP-A-65 (1.5)	9/17/15	9/16/15	soil	88.6	Adheres to Sample Acceptance Policy
148121.06	SP-A-66 (13.5)	9/17/15	9/16/15	soil	88.7	Adheres to Sample Acceptance Policy
148121.07	SP-A-67 (10.5)	9/17/15	9/16/15	soil	90.4	Adheres to Sample Acceptance Policy
148121.08	SP-A-68 (7.5)	9/17/15	9/16/15	soil	87.3	Adheres to Sample Acceptance Policy
148121.09	SP-A-69 (4.5)	9/17/15	9/16/15	soil	88.2	Adheres to Sample Acceptance Policy
148121.1	SP-A-70 (1.5)	9/17/15	9/16/15	soil	84.5	Adheres to Sample Acceptance Policy
148121.11	SP-A-71 (13.5)	9/17/15	9/16/15	soil	90.8	Adheres to Sample Acceptance Policy
148121.12	SP-A-72 (10.5)	9/17/15	9/16/15	soil	91.1	Adheres to Sample Acceptance Policy
148121.13	SP-A-73 (7.5)	9/17/15	9/16/15	soil	91.8	Adheres to Sample Acceptance Policy
148121.14	SP-A-74 (4.5)	9/17/15	9/16/15	soil	88.8	Adheres to Sample Acceptance Policy
148121.15	SP-A-75 (1.5)	9/17/15	9/16/15	soil	88.0	Adheres to Sample Acceptance Policy
148121.16	SP-A-76 (13.5)	9/17/15	9/16/15	soil	88.2	Adheres to Sample Acceptance Policy
148121.17	SP-A-77 (10.5)	9/17/15	9/16/15	soil	89.1	Adheres to Sample Acceptance Policy
148121.18	SP-A-78 (7.5)	9/17/15	9/16/15	soil	87.0	Adheres to Sample Acceptance Policy
148121.19	SP-A-79 (4.5)	9/17/15	9/16/15	soil	87.0	Adheres to Sample Acceptance Policy
148121.2	SP-A-80 (1.5)	9/17/15	9/16/15	soil	87.7	Adheres to Sample Acceptance Policy
148121.21	SP-A-81 (11.25)	9/17/15	9/16/15	soil	69.5	Adheres to Sample Acceptance Policy
148121.22	SP-A-82 (10.5)	9/17/15	9/16/15	soil	85.7	Adheres to Sample Acceptance Policy
148121.23	SP-A-83 (7.5)	9/17/15	9/16/15	soil	89.3	Adheres to Sample Acceptance Policy
148121.24	SP-A-84 (4.5)	9/17/15	9/16/15	soil	91.1	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
All results contained in this report relate only to the above listed samples.
References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater,20th Edition, 1998 and 22nd Edition, 2012
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

SAMPLE CONDITIONS PAGE

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Temperature upon receipt (°C): 3.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148121.25	SP-A-85(1.5)	9/17/15	9/16/15	soil	81.9	Adheres to Sample Acceptance Policy
148121.26	SP-A-86 (13.5)	9/17/15	9/16/15	soil	89.4	Adheres to Sample Acceptance Policy
148121.27	SP-A-87 (10.5)	9/17/15	9/16/15	soil	86.9	Adheres to Sample Acceptance Policy
148121.28	SP-A-88 (7.5)	9/17/15	9/16/15	soil	90.3	Adheres to Sample Acceptance Policy
148121.29	SP-A-89 (4.5)	9/17/15	9/16/15	soil	90.0	Adheres to Sample Acceptance Policy
148121.3	SP-A-90 (1.5)	9/17/15	9/16/15	soil	91.5	Adheres to Sample Acceptance Policy
148121.31	SP-A-DUP-04	9/17/15	9/16/15	soil	91.0	Adheres to Sample Acceptance Policy
148121.32	SP-A-DUP-05	9/17/15	9/16/15	soil	91.5	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater,20th Edition, 1998 and 22nd Edition, 2012
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-62 (10.5)
Lab Sample ID:	148121.02
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.18**	1	9/23/15		
2-Methylnaphthalene	**0.20**	1	9/23/15		
Acenaphthylene	**0.28**	1	9/23/15		
Acenaphthene	**0.020**	1	9/23/15		
Fluorene	**0.035**	1	9/23/15		
Phenanthrene	**0.49**	1	9/23/15		
Anthracene	**0.26**	1	9/23/15		
Fluoranthene	**1.2**	1	9/23/15		
Pyrene	**0.94**	1	9/23/15		
Benzo[a]anthracene	**0.68**	1	9/23/15	0.1	.068
Chrysene	**0.86**	1	9/23/15	0.001	.00086
Benzo[b]fluoranthene	**1.2**	1	9/23/15	0.1	.12
Benzo[k]fluoranthene	**0.40**	1	9/23/15	0.01	.004
Benzo[a]pyrene	**0.63**	1	9/23/15	1	.63
Indeno[1,2,3-cd]pyrene	**0.65**	1	9/23/15	0.1	.065
Dibenz[a,h]anthracene	**0.18**	1	9/23/15	1	.18
Benzo[g,h,i]perylene	**0.57**	1	9/23/15		
p-Terphenyl-D14 (surr)	**65 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-64 (4.5)
Lab Sample ID:	148121.04
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.14**	1	9/23/15		
2-Methylnaphthalene	**0.17**	1	9/23/15		
Acenaphthylene	**0.099**	1	9/23/15		
Acenaphthene	**0.020**	1	9/23/15		
Fluorene	**0.028**	1	9/23/15		
Phenanthrene	**0.65**	1	9/23/15		
Anthracene	**0.13**	1	9/23/15		
Fluoranthene	**1.1**	1	9/23/15		
Pyrene	**1.0**	1	9/23/15		
Benzo[a]anthracene	**0.52**	1	9/23/15	0.1	.052
Chrysene	**0.66**	1	9/23/15	0.001	.00066
Benzo[b]fluoranthene	**0.88**	1	9/23/15	0.1	.088
Benzo[k]fluoranthene	**0.30**	1	9/23/15	0.01	.003
Benzo[a]pyrene	**0.60**	1	9/23/15	1	.6
Indeno[1,2,3-cd]pyrene	**0.54**	1	9/23/15	0.1	.054
Dibenz[a,h]anthracene	**0.13**	1	9/23/15	1	.13
Benzo[g,h,i]perylene	**0.53**	1	9/23/15		
p-Terphenyl-D14 (surr)	**59 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-66 (13.5)
Lab Sample ID:	148121.06
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.25**	1	9/23/15		
2-Methylnaphthalene	**0.29**	1	9/23/15		
Acenaphthylene	**0.24**	1	9/23/15		
Acenaphthene	**0.017**	1	9/23/15		
Fluorene	**0.035**	1	9/23/15		
Phenanthrene	**0.49**	1	9/23/15		
Anthracene	**0.21**	1	9/23/15		
Fluoranthene	**0.82**	1	9/23/15		
Pyrene	**0.68**	1	9/23/15		
Benzo[a]anthracene	**0.52**	1	9/23/15	0.1	.052
Chrysene	**0.73**	1	9/23/15	0.001	.00073
Benzo[b]fluoranthene	**1.1**	1	9/23/15	0.1	.11
Benzo[k]fluoranthene	**0.34**	1	9/23/15	0.01	.0034
Benzo[a]pyrene	**0.57**	1	9/23/15	1	.57
Indeno[1,2,3-cd]pyrene	**0.61**	1	9/23/15	0.1	.061
Dibenz[a,h]anthracene	**0.18**	1	9/23/15	1	.18
Benzo[g,h,i]perylene	**0.52**	1	9/23/15		
p-Terphenyl-D14 (surr)	**70 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-68 (7.5)
Lab Sample ID:	148121.08
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.19**	1	9/23/15		
2-Methylnaphthalene	**0.19**	1	9/23/15		
Acenaphthylene	**0.30**	1	9/23/15		
Acenaphthene	**0.020**	1	9/23/15		
Fluorene	**0.037**	1	9/23/15		
Phenanthrene	**0.59**	1	9/23/15		
Anthracene	**0.26**	1	9/23/15		
Fluoranthene	**1.4**	1	9/23/15		
Pyrene	**1.1**	1	9/23/15		
Benzo[a]anthracene	**0.68**	1	9/23/15	0.1	.068
Chrysene	**1.1**	1	9/23/15	0.001	.0011
Benzo[b]fluoranthene	**1.6**	1	9/23/15	0.1	.16
Benzo[k]fluoranthene	**0.50**	1	9/23/15	0.01	.005
Benzo[a]pyrene	**0.82**	1	9/23/15	1	.82
Indeno[1,2,3-cd]pyrene	**0.83**	1	9/23/15	0.1	.083
Dibenz[a,h]anthracene	**0.23**	1	9/23/15	1	.23
Benzo[g,h,i]perylene	**0.70**	1	9/23/15		
p-Terphenyl-D14 (surr)	**59 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-70 (1.5)
Lab Sample ID:	148121.1
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.23**	1	9/23/15		
2-Methylnaphthalene	**0.21**	1	9/23/15		
Acenaphthylene	**0.40**	1	9/23/15		
Acenaphthene	**0.058**	1	9/23/15		
Fluorene	**0.083**	1	9/23/15		
Phenanthrene	**1.5**	1	9/23/15		
Anthracene	**0.51**	1	9/23/15		
Fluoranthene	**2.6**	1	9/23/15		
Pyrene	**2.1**	1	9/23/15		
Benzo[a]anthracene	**1.2**	1	9/23/15	0.1	.12
Chrysene	**1.4**	1	9/23/15	0.001	.0014
Benzo[b]fluoranthene	**1.7**	1	9/23/15	0.1	.17
Benzo[k]fluoranthene	**0.64**	1	9/23/15	0.01	.0064
Benzo[a]pyrene	**1.2**	1	9/23/15	1	1.2
Indeno[1,2,3-cd]pyrene	**0.90**	1	9/23/15	0.1	.09
Dibenz[a,h]anthracene	**0.26**	1	9/23/15	1	.26
Benzo[g,h,i]perylene	**0.73**	1	9/23/15		
p-Terphenyl-D14 (surr)	**61 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-72 (10.5)
Lab Sample ID:	148121.12
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.31**	1	9/23/15		
2-Methylnaphthalene	**0.34**	1	9/23/15		
Acenaphthylene	**0.64**	1	9/23/15		
Acenaphthene	**0.025**	1	9/23/15		
Fluorene	**0.056**	1	9/23/15		
Phenanthrene	**0.56**	1	9/23/15		
Anthracene	**0.60**	1	9/23/15		
Fluoranthene	**1.7**	1	9/23/15		
Pyrene	**1.5**	1	9/23/15		
Benzo[a]anthracene	**1.3**	1	9/23/15	0.1	.13
Chrysene	**1.5**	1	9/23/15	0.001	.0015
Benzo[b]fluoranthene	**2.2**	1	9/23/15	0.1	.22
Benzo[k]fluoranthene	**0.75**	1	9/23/15	0.01	.0075
Benzo[a]pyrene	**1.2**	1	9/23/15	1	1.2
Indeno[1,2,3-cd]pyrene	**0.96**	1	9/23/15	0.1	.096
Dibenz[a,h]anthracene	**0.31**	1	9/23/15	1	.31
Benzo[g,h,i]perylene	**0.76**	1	9/23/15		
p-Terphenyl-D14 (surr)	**73 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-74 (4.5)
Lab Sample ID:	148121.14
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.099**	1	9/23/15		
2-Methylnaphthalene	**0.11**	1	9/23/15		
Acenaphthylene	**0.18**	1	9/23/15		
Acenaphthene	**0.019**	1	9/23/15		
Fluorene	**0.030**	1	9/23/15		
Phenanthrene	**0.48**	1	9/23/15		
Anthracene	**0.17**	1	9/23/15		
Fluoranthene	**0.95**	1	9/23/15		
Pyrene	**0.80**	1	9/23/15		
Benzo[a]anthracene	**0.49**	1	9/23/15	0.1	.049
Chrysene	**0.64**	1	9/23/15	0.001	.00064
Benzo[b]fluoranthene	**0.86**	1	9/23/15	0.1	.086
Benzo[k]fluoranthene	**0.30**	1	9/23/15	0.01	.003
Benzo[a]pyrene	**0.56**	1	9/23/15	1	.56
Indeno[1,2,3-cd]pyrene	**0.45**	1	9/23/15	0.1	.045
Dibenz[a,h]anthracene	**0.12**	1	9/23/15	1	.12
Benzo[g,h,i]perylene	**0.37**	1	9/23/15		
p-Terphenyl-D14 (surr)	**68 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-76 (13.5)
Lab Sample ID:	148121.16
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.21**	1	9/23/15		
2-Methylnaphthalene	**0.21**	1	9/23/15		
Acenaphthylene	**0.27**	1	9/23/15		
Acenaphthene	**0.017**	1	9/23/15		
Fluorene	**0.036**	1	9/23/15		
Phenanthrene	**0.40**	1	9/23/15		
Anthracene	**0.26**	1	9/23/15		
Fluoranthene	**0.97**	1	9/23/15		
Pyrene	**0.87**	1	9/23/15		
Benzo[a]anthracene	**0.67**	1	9/23/15	0.1	.067
Chrysene	**0.88**	1	9/23/15	0.001	.00088
Benzo[b]fluoranthene	**1.4**	1	9/23/15	0.1	.14
Benzo[k]fluoranthene	**0.48**	1	9/23/15	0.01	.0048
Benzo[a]pyrene	**0.77**	1	9/23/15	1	.77
Indeno[1,2,3-cd]pyrene	**0.65**	1	9/23/15	0.1	.065
Dibenz[a,h]anthracene	**0.19**	1	9/23/15	1	.19
Benzo[g,h,i]perylene	**0.53**	1	9/23/15		
p-Terphenyl-D14 (surr)	**71 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-78 (7.5)
Lab Sample ID:	148121.18
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.21**	1	9/23/15		
2-Methylnaphthalene	**0.23**	1	9/23/15		
Acenaphthylene	**0.34**	1	9/23/15		
Acenaphthene	**0.019**	1	9/23/15		
Fluorene	**0.035**	1	9/23/15		
Phenanthrene	**0.42**	1	9/23/15		
Anthracene	**0.33**	1	9/23/15		
Fluoranthene	**1.1**	1	9/23/15		
Pyrene	**0.96**	1	9/23/15		
Benzo[a]anthracene	**0.76**	1	9/23/15	0.1	.076
Chrysene	**0.87**	1	9/23/15	0.001	.00087
Benzo[b]fluoranthene	**1.3**	1	9/23/15	0.1	.13
Benzo[k]fluoranthene	**0.45**	1	9/23/15	0.01	.0045
Benzo[a]pyrene	**0.75**	1	9/23/15	1	.75
Indeno[1,2,3-cd]pyrene	**0.53**	1	9/23/15	0.1	.053
Dibenz[a,h]anthracene	**0.16**	1	9/23/15	1	.16
Benzo[g,h,i]perylene	**0.41**	1	9/23/15		
p-Terphenyl-D14 (surr)	**63 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-80 (1.5)
Lab Sample ID:	148121.2
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.15**	1	9/23/15		
2-Methylnaphthalene	**0.16**	1	9/23/15		
Acenaphthylene	**0.25**	1	9/23/15		
Acenaphthene	**0.033**	1	9/23/15		
Fluorene	**0.053**	1	9/23/15		
Phenanthrene	**0.67**	1	9/23/15		
Anthracene	**0.26**	1	9/23/15		
Fluoranthene	**1.5**	1	9/23/15		
Pyrene	**1.3**	1	9/23/15		
Benzo[a]anthracene	**0.84**	1	9/23/15	0.1	.084
Chrysene	**0.96**	1	9/23/15	0.001	.00096
Benzo[b]fluoranthene	**1.3**	1	9/23/15	0.1	.13
Benzo[k]fluoranthene	**0.48**	1	9/23/15	0.01	.0048
Benzo[a]pyrene	**0.90**	1	9/23/15	1	.9
Indeno[1,2,3-cd]pyrene	**0.73**	1	9/23/15	0.1	.073
Dibenz[a,h]anthracene	**0.20**	1	9/23/15	1	.2
Benzo[g,h,i]perylene	**0.65**	1	9/23/15		
p-Terphenyl-D14 (surr)	**65 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-82 (10.5)
Lab Sample ID:	148121.22
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.38**	1	9/23/15		
2-Methylnaphthalene	**0.34**	1	9/23/15		
Acenaphthylene	**0.42**	1	9/23/15		
Acenaphthene	**0.049**	1	9/23/15		
Fluorene	**0.070**	1	9/23/15		
Phenanthrene	**0.85**	1	9/23/15		
Anthracene	**0.48**	1	9/23/15		
Fluoranthene	**1.7**	1	9/23/15		
Pyrene	**1.4**	1	9/23/15		
Benzo[a]anthracene	**1.2**	1	9/23/15	0.1	.12
Chrysene	**1.3**	1	9/23/15	0.001	.0013
Benzo[b]fluoranthene	**2.1**	1	9/23/15	0.1	.21
Benzo[k]fluoranthene	**0.75**	1	9/23/15	0.01	.0075
Benzo[a]pyrene	**1.2**	1	9/23/15	1	1.2
Indeno[1,2,3-cd]pyrene	**0.88**	1	9/23/15	0.1	.088
Dibenz[a,h]anthracene	**0.26**	1	9/23/15	1	.26
Benzo[g,h,i]perylene	**0.64**	1	9/23/15		
p-Terphenyl-D14 (surr)	**54 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-84 (4.5)
Lab Sample ID:	148121.24
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.091**	1	9/23/15		
2-Methylnaphthalene	**0.067**	1	9/23/15		
Acenaphthylene	**0.13**	1	9/23/15		
Acenaphthene	**0.030**	1	9/23/15		
Fluorene	**0.045**	1	9/23/15		
Phenanthrene	**0.42**	1	9/23/15		
Anthracene	**0.17**	1	9/23/15		
Fluoranthene	**0.72**	1	9/23/15		
Pyrene	**0.56**	1	9/23/15		
Benzo[a]anthracene	**0.39**	1	9/23/15	0.1	.039
Chrysene	**0.41**	1	9/23/15	0.001	.00041
Benzo[b]fluoranthene	**0.60**	1	9/23/15	0.1	.06
Benzo[k]fluoranthene	**0.19**	1	9/23/15	0.01	.0019
Benzo[a]pyrene	**0.41**	1	9/23/15	1	.41
Indeno[1,2,3-cd]pyrene	**0.28**	1	9/23/15	0.1	.028
Dibenz[a,h]anthracene	**0.074**	1	9/23/15	1	.074
Benzo[g,h,i]perylene	**0.25**	1	9/23/15		
p-Terphenyl-D14 (surr)	**70 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-86 (13.5)
Lab Sample ID:	148121.26
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.18**	1	9/23/15		
2-Methylnaphthalene	**0.21**	1	9/23/15		
Acenaphthylene	**0.31**	1	9/23/15		
Acenaphthene	**0.017**	1	9/23/15		
Fluorene	**0.036**	1	9/23/15		
Phenanthrene	**0.45**	1	9/23/15		
Anthracene	**0.30**	1	9/23/15		
Fluoranthene	**1.2**	1	9/23/15		
Pyrene	**1.0**	1	9/23/15		
Benzo[a]anthracene	**0.79**	1	9/23/15	0.1	.079
Chrysene	**0.93**	1	9/23/15	0.001	.00093
Benzo[b]fluoranthene	**1.3**	1	9/23/15	0.1	.13
Benzo[k]fluoranthene	**0.45**	1	9/23/15	0.01	.0045
Benzo[a]pyrene	**0.78**	1	9/23/15	1	.78
Indeno[1,2,3-cd]pyrene	**0.56**	1	9/23/15	0.1	.056
Dibenz[a,h]anthracene	**0.16**	1	9/23/15	1	.16
Benzo[g,h,i]perylene	**0.46**	1	9/23/15		
p-Terphenyl-D14 (surr)	**71 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-88 (7.5)
Lab Sample ID:	148121.28
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.19**	1	9/23/15		
2-Methylnaphthalene	**0.20**	1	9/23/15		
Acenaphthylene	**0.28**	1	9/23/15		
Acenaphthene	**0.036**	1	9/23/15		
Fluorene	**0.051**	1	9/23/15		
Phenanthrene	**0.58**	1	9/23/15		
Anthracene	**0.31**	1	9/23/15		
Fluoranthene	**1.1**	1	9/23/15		
Pyrene	**0.90**	1	9/23/15		
Benzo[a]anthracene	**0.66**	1	9/23/15	0.1	.066
Chrysene	**0.79**	1	9/23/15	0.001	.00079
Benzo[b]fluoranthene	**1.2**	1	9/23/15	0.1	.12
Benzo[k]fluoranthene	**0.40**	1	9/23/15	0.01	.004
Benzo[a]pyrene	**0.69**	1	9/23/15	1	.69
Indeno[1,2,3-cd]pyrene	**0.46**	1	9/23/15	0.1	.046
Dibenz[a,h]anthracene	**0.13**	1	9/23/15	1	.13
Benzo[g,h,i]perylene	**0.37**	1	9/23/15		
p-Terphenyl-D14 (surr)	**68 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-90 (1.5)
Lab Sample ID:	148121.3
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.074**	1	9/23/15		
2-Methylnaphthalene	**0.085**	1	9/23/15		
Acenaphthylene	**0.10**	1	9/23/15		
Acenaphthene	**0.024**	1	9/23/15		
Fluorene	**0.032**	1	9/23/15		
Phenanthrene	**0.40**	1	9/23/15		
Anthracene	**0.14**	1	9/23/15		
Fluoranthene	**0.87**	1	9/23/15		
Pyrene	**0.71**	1	9/23/15		
Benzo[a]anthracene	**0.54**	1	9/23/15	0.1	.054
Chrysene	**0.56**	1	9/23/15	0.001	.00056
Benzo[b]fluoranthene	**0.81**	1	9/23/15	0.1	.081
Benzo[k]fluoranthene	**0.30**	1	9/23/15	0.01	.003
Benzo[a]pyrene	**0.63**	1	9/23/15	1	.63
Indeno[1,2,3-cd]pyrene	**0.46**	1	9/23/15	0.1	.046
Dibenz[a,h]anthracene	**0.11**	1	9/23/15	1	.11
Benzo[g,h,i]perylene	**0.43**	1	9/23/15		
p-Terphenyl-D14 (surr)	**65 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Client Sample ID:	SP-A-DUP-05
Lab Sample ID:	148121.32
Matrix:	soil
Date Sampled:	9/16/15
Date Received:	9/17/15
Date Prepared:	9/22/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.035**	1	9/23/15		
2-Methylnaphthalene	**0.034**	1	9/23/15		
Acenaphthylene	**0.082**	1	9/23/15		
Acenaphthene	**0.014**	1	9/23/15		
Fluorene	**0.021**	1	9/23/15		
Phenanthrene	**0.23**	1	9/23/15		
Anthracene	**0.099**	1	9/23/15		
Fluoranthene	**0.52**	1	9/23/15		
Pyrene	**0.41**	1	9/23/15		
Benzo[a]anthracene	**0.29**	1	9/23/15	0.1	.029
Chrysene	**0.29**	1	9/23/15	0.001	.00029
Benzo[b]fluoranthene	**0.42**	1	9/23/15	0.1	.042
Benzo[k]fluoranthene	**0.15**	1	9/23/15	0.01	.0015
Benzo[a]pyrene	**0.30**	1	9/23/15	1	.3
Indeno[1,2,3-cd]pyrene	**0.20**	1	9/23/15	0.1	.02
Dibenz[a,h]anthracene	**0.052**	1	9/23/15	1	.052
Benzo[g,h,i]perylene	**0.17**	1	9/23/15		
p-Terphenyl-D14 (surr)	**70 %R**		9/23/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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QC REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Batch ID: 635785-08437/S092215PAH1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	0.94 (56 %R)	1.1 (65 %R) (15 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.1 (65 %R)	1.3 (75 %R) (14 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.0 (60 %R)	1.2 (71 %R) (17 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	0.94 (56 %R)	1.1 (66 %R) (16 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.0 (63 %R)	1.2 (73 %R) (15 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.0 (62 %R)	1.2 (71 %R) (14 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.1 (65 %R)	1.2 (74 %R) (13 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.3 (75 %R)	1.4 (83 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.2 (71 %R)	1.3 (79 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.3 (75 %R)	1.4 (81 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.2 (71 %R)	1.3 (78 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.3 (77 %R)	1.4 (84 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.2 (75 %R)	1.3 (81 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.3 (77 %R)	1.4 (84 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.3 (77 %R)	1.4 (85 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.3 (76 %R)	1.4 (83 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.2 (73 %R)	1.3 (79 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	70 %R	77 %R	81 %R	9/22/2015	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-61 (13.5)	SP-A-62 (10.5)	SP-A-63 (7.5)	SP-A-64 (4.5)	SP-A-65 (1.5)	SP-A-66 (13.5)	SP-A-67 (10.5)
Lab Sample ID:	148121.01	148121.02	148121.03	148121.04	148121.05	148121.06	148121.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	89.2	87.5	88.1	85.9	88.6	88.7	90.4
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
Date of Analysis:	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	**0.030**	< 0.02	**0.035**	< 0.02	< 0.02	< 0.02
PCB-1260	**0.023**	**0.037**	**0.033**	**0.044**	**0.026**	**0.025**	**0.023**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**73 %R**	**79 %R**	**76 %R**	**84 %R**	**83 %R**	**83 %R**	**83 %R**
DCB (surr)	**63 %R**	**67 %R**	**65 %R**	**73 %R**	**64 %R**	**70 %R**	**73 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-68 (7.5)	SP-A-69 (4.5)	SP-A-70 (1.5)	SP-A-71 (13.5)	SP-A-72 (10.5)	SP-A-73 (7.5)	SP-A-74 (4.5)
Lab Sample ID:	148121.08	148121.09	148121.1	148121.11	148121.12	148121.13	148121.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	87.3	88.2	84.5	90.8	91.1	91.8	88.8
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
Date of Analysis:	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	**0.20**	**0.29**	< 0.02	**0.075**	**0.095**
PCB-1260	**0.027**	**0.036**	**0.22**	**0.22**	**0.037**	**0.10**	**0.15**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**79 %R**	**77 %R**	**92 %R**	**84 %R**	**77 %R**	**82 %R**	**88 %R**
DCB (surr)	**70 %R**	**66 %R**	**69 %R**	**71 %R**	**65 %R**	**71 %R**	**68 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-75 (1.5)	SP-A-76 (13.5)	SP-A-77 (10.5)	SP-A-78 (7.5)	SP-A-79 (4.5)	SP-A-80 (1.5)	SP-A-81 (11.25)
Lab Sample ID:	148121.15	148121.16	148121.17	148121.18	148121.19	148121.2	148121.21
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	88	88.2	89.1	87	87	87.7	69.5
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/23/15	9/23/15	9/23/15	9/23/15	9/24/15	9/24/15	9/24/15
Date of Analysis:	9/24/15	9/24/15	9/24/15	9/24/15	9/25/15	9/25/15	9/25/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	**0.069**	**0.047**	**0.091**
PCB-1254	**0.059**	< 0.02	< 0.02	**0.043**	**0.059**	**0.080**	**0.16**
PCB-1260	**0.025**	< 0.02	< 0.02	**0.057**	**0.069**	**0.077**	**0.34**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**87 %R**	**79 %R**	**83 %R**	**78 %R**	**85 %R**	**76 %R**	**84 %R**
DCB (surr)	**71 %R**	**67 %R**	**71 %R**	**67 %R**	**69 %R**	**60 %R**	**66 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-82 (10.5)	SP-A-83 (7.5)	SP-A-84 (4.5)	SP-A-85(1.5)	SP-A-86 (13.5)	SP-A-87 (10.5)	SP-A-88 (7.5)
Lab Sample ID:	148121.22	148121.23	148121.24	148121.25	148121.26	148121.27	148121.28
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	85.7	89.3	91.1	81.9	89.4	86.9	90.3
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15
Date of Analysis:	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	**0.038**	< 0.02	< 0.02	< 0.02	**0.030**	**0.058**	**0.070**
PCB-1254	**0.049**	**0.024**	**0.33**	**0.12**	**0.067**	**0.14**	**0.14**
PCB-1260	**0.052**	**0.029**	**0.48**	**0.13**	**0.13**	**0.27**	**0.27**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**71 %R**	**69 %R**	**84 %R**	**82 %R**	**73 %R**	**78 %R**	**76 %R**
DCB (surr)	**58 %R**	**55 %R**	**67 %R**	**67 %R**	**60 %R**	**64 %R**	**62 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-84 (4.5): PCB-1260 result obtained from a 2X dilution analyzed on 9/28/2015.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-89 (4.5)	SP-A-90 (1.5)	SP-A-DUP -04	SP-A-DUP -05
Lab Sample ID:	148121.29	148121.3	148121.31	148121.32
Matrix:	soil	soil	soil	soil
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	90	91.5	91	91.5
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/24/15	9/24/15	9/24/15	9/24/15
Date of Analysis:	9/25/15	9/25/15	9/25/15	9/25/15
Analyst:	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082
Dilution Factor:	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	**0.041**	**0.28**	< 0.02	**0.17**
PCB-1254	**0.087**	**0.86**	< 0.02	**0.49**
PCB-1260	**0.12**	**0.98**	**0.022**	**0.75**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**81 %R**	**83 %R**	**80 %R**	**87 %R**
DCB (surr)	**62 %R**	**66 %R**	**63 %R**	**66 %R**

Acid clean-up was performed on the samples and associated batch QC.
SP-A-90 (1.5): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/28/2015.
SP-A-DUP-05: PCB-1254 and PCB-1260 result obtained from a 4X dilution analyzed on 9/28/2015.

QC REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Batch ID: 63578601005/S092315PCB2

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.12 (92 %R)	0.12 (90 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1260	< 0.02	0.11 (84 %R)	0.11 (82 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
TMX (surr)	92 %R	94 %R	92 %R	9/24/2015	% Rec	30 - 150	30	8082
DCB (surr)	87 %R	88 %R	86 %R	9/24/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Batch ID: 63578600812/S092315PCB1

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (107 %R)	0.15 (109 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1260	< 0.02	0.13 (95 %R)	0.13 (95 %R) (0 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
TMX (surr)	104 %R	106 %R	106 %R	9/24/2015	% Rec	30 - 150	30	8082
DCB (surr)	93 %R	95 %R	95 %R	9/24/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-62 (10.5)	SP-A-64 (4.5)	SP-A-66 (13.5)	SP-A-68 (7.5)					
Lab Sample ID:	148121.02	148121.04	148121.06	148121.08					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15					
Lead	**140**	**190**	**160**	**160**	SolTotDry	mg/kg	9/22/15	6020	DS

Sample ID:	SP-A-70 (1.5)	SP-A-72 (10.5)	SP-A-74 (4.5)	SP-A-76 (13.5)					
Lab Sample ID:	148121.1	148121.12	148121.14	148121.16					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15					
Lead	**210**	**140**	**180**	**140**	SolTotDry	mg/kg	9/22/15	6020	DS

LABORATORY REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Sample ID:	SP-A-78 (7.5)	SP-A-80 (1.5)	SP-A-82 (10.5)	SP-A-84 (4.5)					
Lab Sample ID:	148121.18	148121.2	148121.22	148121.24					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15					
Lead	**910**	**140**	**190**	**380**	SolTotDry	mg/kg	9/22/15	6020	DS

Sample ID:	SP-A-86 (13.5)	SP-A-88 (7.5)	SP-A-90 (1.5)	SP-A-DUP -05					
Lab Sample ID:	148121.26	148121.28	148121.3	148121.32					
Matrix:	soil	soil	soil	soil					
Date Sampled:	9/16/15	9/16/15	9/16/15	9/16/15	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15					
Lead	**160**	**170**	**370**	**280**	SolTotDry	mg/kg	9/22/15	6020	DS

QC REPORT

EAI ID#: **148121**

Client: **The Johnson Company**

Client Designation: **Leddy Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Lead	< 0.5	40 (99 %R)		mg/kg	9/22/15	80 - 120	20	6020

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

CHAIN-OF-CUSTODY RECORD

148121

JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
~~SP-A-( )~~ SP-A-61 (13.5)	9-16-16 9:19	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-62(10.5)	9:20	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-63(7.5)	9:21	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-64(4.5)	9:23	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-65(1.5)	9:24	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4692
Project Name Leddy Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 **Fax** 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15 11:20	
	9-17-15 15:45	

Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148121
JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-66(13.5)	9-16-15 10:33	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
SP-A-67(10.5)	10:34	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-68(7.5)	10:35	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-69(4.5)	10:37	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-70(1.5)	10:39	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	4
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4692
Project Name Leddy Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☒ N ☐

Samples Collected by: 9-16-15, 9-17-15 11:20 DD

Relinquished by	Date/Time	Received by
DD	9-17-15 15:45	
Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148121
JCO

32

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-71(13.5)	9-16-15 11:00	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-72(10.5)	11:01	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-73(7.5)	11:02	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-74(4.5)	11:03	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-75(1.5)	11:04	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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EAI Project ID 4692
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State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-06-15
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
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PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15 11:20	
	9-17-15 15:45	

Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148121

33

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-76(13.5)	9-16-15 11:15	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	4
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-77(10.5)	11:16	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-78(7.5)	11:18	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-79(4.5)	11:19	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-80(1.5)	11:20	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4692
Project Name Leddy Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
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PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☑ N ☐

Samples Collected by: 9-17-15 11:20

Relinquished by	Date/Time	Received by
	9-17-15 15:45	
Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148121
JCO

34

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-81(11.25)	9-16-15 11:34	soil Grab or Comp	SolTotDry/PCB	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-82(10.5)	11:35	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-83(7.5)	11:37	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-84(4.5)	11:38	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-85(1.5)	11:40	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Notes:

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PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☒ N ☐

Samples Collected by: 9-17-15 11:30

Relinquished by	Date/Time	Received by
	9-17-15 15:45	
Relinquished by	**Date/Time**	**Received by**

CHAIN-OF-CUSTODY RECORD

148121
JCO

35

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SP-A-86(13.5)	9-16-15 1205	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	1
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-87(10.5)	1206	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-88(2.5)	1207	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-89(4.5)	1208	soil Grab or Comp	SolTotDry/PCB	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SP-A-90(1.5)	1210	soil Grab or Comp	SolTotDry/PCB/PAH/ICPMets.Pb	
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☑

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4692
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State VT
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EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-days
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

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PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15 11:20	
	9-17-15 15:45	

Relinquished by Date/Time Received by

CHAIN-OF-CUSTODY RECORD

148121
JCO

36

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
~~SP-A-DUP-01~~ SP-A-DUP-04	9-16-15 1200	soil (Grab or Comp)	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
SP-A-DUP-05	1201	soil (Grab or Comp)	SolTotDry/PCB/PAH/ICPMets.Pb	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4692
Project Name Leddy Park Burlington, VT

State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

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☒ PDF prelim, NO FAX ☐ EQUIS
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PO# Verbal
Quote#: 1012878
Temp 3.1 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-16-15 11:20	
	9-17-15 15:45	

Relinquished by	Date/Time	Received by

Eastern Analytical, Inc.

professional laboratory & drilling services

J. Kurt Muller
The Johnson Company
100 State Street
Montpelier , VT 05602

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 148158
Client Identification: Waterfront Park | 3-3049-03
Date Received: 9/18/2015

Dear Mr. Muller :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw — 9.24.15 — 4

Lorraine Olashaw, Lab Director | Date | # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **148158**

Client: **The Johnson Company**

Client Designation: **Waterfront Park | 3-3049-03**

Temperature upon receipt (°C): 3.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148158.01	MW-01	9/18/15	9/18/15	aqueous		Adheres to Sample Acceptance Policy
148158.02	MW-02	9/18/15	9/18/15	aqueous		Adheres to Sample Acceptance Policy
148158.03	MW-Dup	9/18/15	9/18/15	aqueous		Adheres to Sample Acceptance Policy
148158.04	MW-EB-01	9/18/15	9/18/15	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
All results contained in this report relate only to the above listed samples.
References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater,20th Edition, 1998 and 22nd Edition, 2012
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **148158**

Client: **The Johnson Company**

Client Designation: **Waterfront Park | 3-3049-03**

Sample ID:	MW-01	MW-02	MW-Dup	MW-EB-01
Lab Sample ID:	148158.01	148158.02	148158.03	148158.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/18/15	9/18/15	9/18/15	9/18/15
Date Received:	9/18/15	9/18/15	9/18/15	9/18/15
Units:	ug/l	ug/l	ug/l	ug/l
Date of Extraction/Prep:	9/21/15	9/21/15	9/21/15	9/21/15
Date of Analysis:	9/21/15	9/21/15	9/21/15	9/21/15
Analyst:	AR	AR	AR	AR
Method:	8082	8082	8082	8082
Dilution Factor:	1	1	1	1
PCB-1016	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1221	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1232	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1242	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1248	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1254	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1260	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1262	< 0.2	< 0.2	< 0.2	< 0.2
PCB-1268	< 0.2	< 0.2	< 0.2	< 0.2
TMX (surr)	**95 %R**	**95 %R**	**101 %R**	**96 %R**
DCB (surr)	**90 %R**	**88 %R**	**95 %R**	**94 %R**

Acid clean-up was performed on the samples and associated batch QC.

QC REPORT

EAI ID#: **148158**

Client: **The Johnson Company**

Batch ID: 63578441918/A092115PCB1

Client Designation: **Waterfront Park | 3-3049-03**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.2	2.1 (103 %R)	2.0 (101 %R) (2 RPD)	9/21/2015	ug/l	40 - 140	20	8082
PCB-1221	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1232	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1242	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1248	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1254	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1260	< 0.2	1.8 (91 %R)	1.8 (92 %R) (1 RPD)	9/21/2015	ug/l	40 - 140	20	8082
PCB-1262	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1268	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
TMX (surr)	108 %R	97 %R	96 %R	9/21/2015	% Rec	30 - 150	20	8082
DCB (surr)	108 %R	97 %R	97 %R	9/21/2015	% Rec	30 - 150	20	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

148158

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 524.2 BTEX 524.2 MTBE ONLY	VOC: 8260B 624 VTICs 1, 4 DIOXANE	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MAVPH	SVOC: 8270D 625 SVTICs EDB DBCP ABN A BN PAH 524	SVOC: TPH8100 L1 L2	SVOC: 8015B DRO MAEPH	SVOC: PEST 608 PEST 8081A PCB 608 PCB 8082	SVOC: OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.	INORGANICS: BR CI F SO_4 NO_2 NO_3 NO_3NO_2	INORGANICS: BOD CBOD T. ALK.	INORGANICS: TKN NH_3 T. PHOS. O. PHOS.	INORGANICS: pH T. RES. CHLORINE	INORGANICS: COD PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM	MICRO: ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER	OTHER	OTHER	# OF CONTAINERS	NOTES MEOH VIAL #
MW-01	9-18-15 / 845	GW	G					X			X																			2	
MW-02	/ 940							X			X																			2	
MW-DUP	/ 1200							X			X																			2	
MW-EB-01	/ 1010							X			X																			2	

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER

PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER: Kurt Muller

COMPANY: The Johnson Co

ADDRESS: 100 State ST

CITY: Montpelier STATE: VT ZIP: 05602

PHONE: 802-229-4600 EXT.:

FAX: 802-229-5876

E-MAIL: JKM@JCOmail.com

SITE NAME: Waterfront Park

PROJECT #: 3-3049-03

STATE: NH MA ME VT OTHER:

REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: PO #:

DATE NEEDED: 5-day

QA/QC REPORTING LEVEL

A B C

OR

PRESUMPTIVE CERTAINTY

REPORTING OPTIONS

PRELIMS: YES OR NO

IF YES: FAX OR PDF

ELECTRONIC OPTIONS

NO FAX E-MAIL PDF EQUIS Excel

TEMP. 3.1 °C

ICE? YES NO

SAMPLER(S):

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	9-18-15	1120	DB
Dennis Boulle	9-18-15	1420	[signature]

METALS: 8 RCRA 13 PP FE, MN PB, CU

OTHER METALS:

SAMPLES FIELD FILTERED? ☐ YES ☐ NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

CC:

JEM@JCOmail.com

* PAH analysis cancelled

SITE HISTORY: PA 9/24/15

SUSPECTED CONTAMINATION:

FIELD READINGS:

Eastern Analytical, Inc.
professional laboratory & drilling services

25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMERSERVICE@EAILABS.COM | WWW.EAILABS.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

Eastern Analytical, Inc.

professional laboratory & drilling services

Jeremy Matt
The Johnson Company
100 State Street
Montpelier , VT 05602

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 148138
Client Identification: Waterfront Park Burlington, VT
Date Received: 9/17/2015

Dear Mr. Matt :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Jennifer Gratt for

Lorraine Olashaw, Lab Director

10.2.15

Date

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# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Temperature upon receipt (°C): 3.7 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148138.01	SB-01 (1.4)	9/17/15	9/17/15	soil	88.7	Adheres to Sample Acceptance Policy
148138.02	SB-01 (2.0)	9/17/15	9/17/15	soil	94.9	Adheres to Sample Acceptance Policy
148138.03	SB-02 (1.9)	9/17/15	9/17/15	soil	90.3	Adheres to Sample Acceptance Policy
148138.04	SB-02 (2.7)	9/17/15	9/17/15	soil	87.2	Adheres to Sample Acceptance Policy
148138.05	SB-03 (1.0)	9/17/15	9/17/15	soil	87.7	Adheres to Sample Acceptance Policy
148138.06	SB-03 (2.0)	9/17/15	9/17/15	soil	70.9	Adheres to Sample Acceptance Policy
148138.07	SB-04 (1.5)	9/17/15	9/17/15	soil	81.1	Adheres to Sample Acceptance Policy
148138.08	SB-04 (2.5)	9/17/15	9/17/15	soil	78.1	Adheres to Sample Acceptance Policy
148138.09	SB-05 (1.4)	9/17/15	9/17/15	soil	81.4	Adheres to Sample Acceptance Policy
148138.1	SB-05 (2.4)	9/17/15	9/17/15	soil	90.2	Adheres to Sample Acceptance Policy
148138.11	SB-06 (1.3)	9/17/15	9/17/15	soil	83.8	Adheres to Sample Acceptance Policy
148138.12	SB-06 (2.3)	9/17/15	9/17/15	soil	82.5	Adheres to Sample Acceptance Policy
148138.13	SB-07 (1.3)	9/17/15	9/17/15	soil	85.2	Adheres to Sample Acceptance Policy
148138.14	SB-07 (2.3)	9/17/15	9/17/15	soil	81.5	Adheres to Sample Acceptance Policy
148138.15	SB-08 (1.3)	9/17/15	9/17/15	soil	86.1	Adheres to Sample Acceptance Policy
148138.16	SB-08 (2.3)	9/17/15	9/17/15	soil	86.3	Adheres to Sample Acceptance Policy
148138.17	SB-09 (1.4)	9/17/15	9/17/15	soil	95.3	Adheres to Sample Acceptance Policy
148138.18	SB-09 (2.0)	9/17/15	9/17/15	soil	86.5	Adheres to Sample Acceptance Policy
148138.19	SB-10 (1.4)	9/17/15	9/17/15	soil	91.3	Adheres to Sample Acceptance Policy
148138.2	SB-10 (2.2)	9/17/15	9/17/15	soil	89.4	Adheres to Sample Acceptance Policy
148138.21	SB-11 (2.0)	9/17/15	9/17/15	soil	88.0	Adheres to Sample Acceptance Policy
148138.22	SB-11 (2.5)	9/17/15	9/17/15	soil	87.8	Adheres to Sample Acceptance Policy
148138.23	SB-12 (1.9)	9/17/15	9/17/15	soil	87.0	Adheres to Sample Acceptance Policy
148138.24	SB-12 (2.3)	9/17/15	9/17/15	soil	88.2	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater,20th Edition, 1998 and 22nd Edition, 2012
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

SAMPLE CONDITIONS PAGE

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Temperature upon receipt (°C): 3.7 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148138.25	SB-13 (1.8)	9/17/15	9/17/15	soil	88.5	Adheres to Sample Acceptance Policy
148138.26	SB-13 (2.3)	9/17/15	9/17/15	soil	89.5	Adheres to Sample Acceptance Policy
148138.27	SB-14 (2.0)	9/17/15	9/17/15	soil	88.8	Adheres to Sample Acceptance Policy
148138.28	SB-14 (3.0)	9/17/15	9/17/15	soil	88.3	Adheres to Sample Acceptance Policy
148138.29	SB-15 (1.5)	9/17/15	9/17/15	soil	90.9	Adheres to Sample Acceptance Policy
148138.3	SB-15 (2.5)	9/17/15	9/17/15	soil	93.0	Adheres to Sample Acceptance Policy
148138.31	SB-16 (1.4)	9/17/15	9/17/15	soil	86.9	Adheres to Sample Acceptance Policy
148138.32	SB-16 (2.2)	9/17/15	9/17/15	soil	88.2	Adheres to Sample Acceptance Policy
148138.33	SB-17 (0.9)	9/17/15	9/17/15	soil	83.7	Adheres to Sample Acceptance Policy
148138.34	SB-17 (1.9)	9/17/15	9/17/15	soil	85.1	Adheres to Sample Acceptance Policy
148138.35	SB-18 (1.5)	9/17/15	9/17/15	soil	79.4	Adheres to Sample Acceptance Policy
148138.36	SB-18 (2.5)	9/17/15	9/17/15	soil	91.2	Adheres to Sample Acceptance Policy
148138.37	SB-19 (1.2)	9/17/15	9/17/15	soil	78.8	Adheres to Sample Acceptance Policy
148138.38	SB-19 (2.2)	9/17/15	9/17/15	soil	84.3	Adheres to Sample Acceptance Policy
148138.39	SB-20 (0.8)	9/17/15	9/17/15	soil	86.0	Adheres to Sample Acceptance Policy
148138.4	SB-20 (1.8)	9/17/15	9/17/15	soil	90.7	Adheres to Sample Acceptance Policy
148138.41	SB-21 (1.4)	9/17/15	9/17/15	soil	84.7	Adheres to Sample Acceptance Policy
148138.42	SB-21 (2.4)	9/17/15	9/17/15	soil	85.0	Adheres to Sample Acceptance Policy
148138.43	SB-22 (1.2)	9/17/15	9/17/15	soil	87.0	Adheres to Sample Acceptance Policy
148138.44	SB-22 (2.2)	9/17/15	9/17/15	soil	92.2	Adheres to Sample Acceptance Policy
148138.45	SB-23 (0.9)	9/17/15	9/17/15	soil	89.7	Adheres to Sample Acceptance Policy
148138.46	SB-23 (1.9)	9/17/15	9/17/15	soil	88.6	Adheres to Sample Acceptance Policy
148138.47	SB-24 (0.9)	9/17/15	9/17/15	soil	85.7	Adheres to Sample Acceptance Policy
148138.48	SB-24 (1.9)	9/17/15	9/17/15	soil	93.2	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater,20th Edition, 1998 and 22nd Edition, 2012
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

SAMPLE CONDITIONS PAGE

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Temperature upon receipt (°C): 3.7 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148138.49	SB-25 (1.2)	9/17/15	9/17/15	soil	82.9	Adheres to Sample Acceptance Policy
148138.5	SB-25 (2.2)	9/17/15	9/17/15	soil	92.6	Adheres to Sample Acceptance Policy
148138.51	SB-26 (1.5)	9/17/15	9/17/15	soil	91.7	Adheres to Sample Acceptance Policy
148138.52	SB-26 (2.5)	9/17/15	9/17/15	soil	90.8	Adheres to Sample Acceptance Policy
148138.53	SB-27 (0.7)	9/17/15	9/17/15	soil	92.2	Adheres to Sample Acceptance Policy
148138.54	SB-27 (1.7)	9/17/15	9/17/15	soil	88.4	Adheres to Sample Acceptance Policy
148138.55	SB-28 (1.0)	9/17/15	9/17/15	soil	83.4	Adheres to Sample Acceptance Policy
148138.56	SB-28 (2.0)	9/17/15	9/17/15	soil	91.2	Adheres to Sample Acceptance Policy
148138.57	SB-29 (0.8)	9/17/15	9/17/15	soil	95.3	Adheres to Sample Acceptance Policy
148138.58	SB-29 (1.8)	9/17/15	9/17/15	soil	92.4	Adheres to Sample Acceptance Policy
148138.59	SB-30 (1.0)	9/17/15	9/17/15	soil	84.9	Adheres to Sample Acceptance Policy
148138.6	SB-30 (2.0)	9/17/15	9/17/15	soil	90.1	Adheres to Sample Acceptance Policy
148138.61	SB-31 (0.5)	9/17/15	9/17/15	soil	80.7	Adheres to Sample Acceptance Policy
148138.62	SB-31 (1.5)	9/17/15	9/17/15	soil	77.9	Adheres to Sample Acceptance Policy
148138.63	SB-32 (0.7)	9/17/15	9/17/15	soil	92.0	Adheres to Sample Acceptance Policy
148138.64	SB-32 (1.7)	9/17/15	9/17/15	soil	88.8	Adheres to Sample Acceptance Policy
148138.65	SB-33 (0.9)	9/17/15	9/17/15	soil	97.2	Adheres to Sample Acceptance Policy
148138.66	SB-33 (1.9)	9/17/15	9/17/15	soil	90.8	Adheres to Sample Acceptance Policy
148138.67	SB-34 (0.8)	9/17/15	9/17/15	soil	94.2	Adheres to Sample Acceptance Policy
148138.68	SB-34 (1.8)	9/17/15	9/17/15	soil	87.4	Adheres to Sample Acceptance Policy
148138.69	SB-35 (0.8)	9/17/15	9/17/15	soil	92.8	Adheres to Sample Acceptance Policy
148138.7	SB-35 (1.8)	9/17/15	9/17/15	soil	94.0	Adheres to Sample Acceptance Policy
148138.71	SB-36 (1.3)	9/17/15	9/17/15	soil	91.2	Adheres to Sample Acceptance Policy
148138.72	SB-36 (2.3)	9/17/15	9/17/15	soil	95.4	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

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3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

SAMPLE CONDITIONS PAGE

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Temperature upon receipt (°C): 3.7 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
148138.73	SB-DUP-01	9/17/15	9/17/15	soil	88.6	Adheres to Sample Acceptance Policy
148138.74	SB-DUP-02	9/17/15	9/17/15	soil	87.6	Adheres to Sample Acceptance Policy
148138.75	SB-DUP-03	9/17/15	9/17/15	soil	88.3	Adheres to Sample Acceptance Policy
148138.76	SB-DUP-04	9/17/15	9/17/15	soil	90.7	Adheres to Sample Acceptance Policy
148138.77	SB-EB-01	9/17/15	9/17/15	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater,20th Edition, 1998 and 22nd Edition, 2012
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Client Sample ID:	SB-01 (1.4)
Lab Sample ID:	148138.01
Matrix:	soil
Date Sampled:	9/17/15
Date Received:	9/17/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.10**	1	9/22/15		
2-Methylnaphthalene	**0.094**	1	9/22/15		
Acenaphthylene	**0.015**	1	9/22/15		
Acenaphthene	< 0.008	1	9/22/15		
Fluorene	< 0.008	1	9/22/15		
Phenanthrene	**0.13**	1	9/22/15		
Anthracene	**0.016**	1	9/22/15		
Fluoranthene	**0.11**	1	9/22/15		
Pyrene	**0.078**	1	9/22/15		
Benzo[a]anthracene	**0.053**	1	9/22/15	0.1	.0053
Chrysene	**0.12**	1	9/22/15	0.001	.00012
Benzo[b]fluoranthene	**0.11**	1	9/22/15	0.1	.011
Benzo[k]fluoranthene	**0.030**	1	9/22/15	0.01	.0003
Benzo[a]pyrene	**0.054**	1	9/22/15	1	.054
Indeno[1,2,3-cd]pyrene	**0.061**	1	9/22/15	0.1	.0061
Dibenz[a,h]anthracene	**0.020**	1	9/22/15	1	.02
Benzo[g,h,i]perylene	< 0.008	1	9/22/15		
p-Terphenyl-D14 (surr)	**64 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Client Sample ID:	SB-02 (1.9)
Lab Sample ID:	148138.03
Matrix:	soil
Date Sampled:	9/17/15
Date Received:	9/17/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.041**	1	9/22/15		
2-Methylnaphthalene	**0.055**	1	9/22/15		
Acenaphthylene	**0.053**	1	9/22/15		
Acenaphthene	< 0.007	1	9/22/15		
Fluorene	**0.0076**	1	9/22/15		
Phenanthrene	**0.073**	1	9/22/15		
Anthracene	**0.065**	1	9/22/15		
Fluoranthene	**0.15**	1	9/22/15		
Pyrene	**0.23**	1	9/22/15		
Benzo[a]anthracene	**0.15**	1	9/22/15	0.1	.015
Chrysene	**0.18**	1	9/22/15	0.001	.00018
Benzo[b]fluoranthene	**0.33**	1	9/22/15	0.1	.033
Benzo[k]fluoranthene	**0.10**	1	9/22/15	0.01	.001
Benzo[a]pyrene	**0.18**	1	9/22/15	1	.18
Indeno[1,2,3-cd]pyrene	**0.18**	1	9/22/15	0.1	.018
Dibenz[a,h]anthracene	**0.050**	1	9/22/15	1	.05
Benzo[g,h,i]perylene	**0.17**	1	9/22/15		
p-Terphenyl-D14 (surr)	**80 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Client Sample ID:	SB-10 (1.4)
Lab Sample ID:	148138.19
Matrix:	soil
Date Sampled:	9/17/15
Date Received:	9/17/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.014**	1	9/22/15		
2-Methylnaphthalene	**0.011**	1	9/22/15		
Acenaphthylene	< 0.008	1	9/22/15		
Acenaphthene	< 0.008	1	9/22/15		
Fluorene	< 0.008	1	9/22/15		
Phenanthrene	**0.053**	1	9/22/15		
Anthracene	**0.011**	1	9/22/15		
Fluoranthene	**0.074**	1	9/22/15		
Pyrene	**0.060**	1	9/22/15		
Benzo[a]anthracene	**0.036**	1	9/22/15	0.1	.0036
Chrysene	**0.043**	1	9/22/15	0.001	.000043
Benzo[b]fluoranthene	**0.052**	1	9/22/15	0.1	.0052
Benzo[k]fluoranthene	**0.018**	1	9/22/15	0.01	.00018
Benzo[a]pyrene	**0.035**	1	9/22/15	1	.035
Indeno[1,2,3-cd]pyrene	**0.039**	1	9/22/15	0.1	.0039
Dibenz[a,h]anthracene	**0.0086**	1	9/22/15	1	.0086
Benzo[g,h,i]perylene	**0.040**	1	9/22/15		
p-Terphenyl-D14 (surr)	**78 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Client Sample ID:	SB-28 (1.0)
Lab Sample ID:	148138.55
Matrix:	soil
Date Sampled:	9/17/15
Date Received:	9/17/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.47**	1	9/22/15		
2-Methylnaphthalene	**0.30**	1	9/22/15		
Acenaphthylene	**0.054**	1	9/22/15		
Acenaphthene	**0.083**	1	9/22/15		
Fluorene	**0.11**	1	9/22/15		
Phenanthrene	**1.3**	1	9/22/15		
Anthracene	**0.19**	1	9/22/15		
Fluoranthene	**1.6**	1	9/22/15		
Pyrene	**1.4**	1	9/22/15		
Benzo[a]anthracene	**0.74**	1	9/22/15	0.1	.074
Chrysene	**1.0**	1	9/22/15	0.001	.001
Benzo[b]fluoranthene	**1.1**	1	9/22/15	0.1	.11
Benzo[k]fluoranthene	**0.32**	1	9/22/15	0.01	.0032
Benzo[a]pyrene	**0.77**	1	9/22/15	1	.77
Indeno[1,2,3-cd]pyrene	**0.67**	1	9/22/15	0.1	.067
Dibenz[a,h]anthracene	**0.17**	1	9/22/15	1	.17
Benzo[g,h,i]perylene	**0.67**	1	9/22/15		
p-Terphenyl-D14 (surr)	**72 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Client Sample ID:	SB-DUP-01
Lab Sample ID:	148138.73
Matrix:	soil
Date Sampled:	9/17/15
Date Received:	9/17/15
Date Prepared:	9/21/15
Units	mg/kg
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	**0.11**	1	9/22/15		
2-Methylnaphthalene	**0.10**	1	9/22/15		
Acenaphthylene	**0.016**	1	9/22/15		
Acenaphthene	< 0.008	1	9/22/15		
Fluorene	< 0.008	1	9/22/15		
Phenanthrene	**0.15**	1	9/22/15		
Anthracene	**0.018**	1	9/22/15		
Fluoranthene	**0.14**	1	9/22/15		
Pyrene	**0.11**	1	9/22/15		
Benzo[a]anthracene	**0.069**	1	9/22/15	0.1	.0069
Chrysene	**0.14**	1	9/22/15	0.001	.00014
Benzo[b]fluoranthene	**0.13**	1	9/22/15	0.1	.013
Benzo[k]fluoranthene	**0.036**	1	9/22/15	0.01	.00036
Benzo[a]pyrene	**0.071**	1	9/22/15	1	.071
Indeno[1,2,3-cd]pyrene	**0.076**	1	9/22/15	0.1	.0076
Dibenz[a,h]anthracene	**0.024**	1	9/22/15	1	.024
Benzo[g,h,i]perylene	**0.084**	1	9/22/15		
p-Terphenyl-D14 (surr)	**70 %R**		9/22/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Client Sample ID:	SB-EB-01
Lab Sample ID:	148138.77
Matrix:	aqueous
Date Sampled:	9/17/15
Date Received:	9/17/15
Date Prepared:	9/18/15
Units	ug/l
Method	8270D
Analyst	JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.1	1	9/21/15		
2-Methylnaphthalene	< 0.1	1	9/21/15		
Acenaphthylene	< 0.1	1	9/21/15		
Acenaphthene	< 0.1	1	9/21/15		
Fluorene	< 0.1	1	9/21/15		
Phenanthrene	< 0.1	1	9/21/15		
Anthracene	< 0.1	1	9/21/15		
Fluoranthene	< 0.1	1	9/21/15		
Pyrene	< 0.1	1	9/21/15		
Benzo[a]anthracene	< 0.1	1	9/21/15	0.1	< .01
Chrysene	< 0.1	1	9/21/15	0.001	< .0001
Benzo[b]fluoranthene	< 0.1	1	9/21/15	0.1	< .01
Benzo[k]fluoranthene	< 0.1	1	9/21/15	0.01	< .001
Benzo[a]pyrene	< 0.1	1	9/21/15	1	< .1
Indeno[1,2,3-cd]pyrene	< 0.1	1	9/21/15	0.1	< .01
Dibenz[a,h]anthracene	< 0.1	1	9/21/15	1	< .1
Benzo[g,h,i]perylene	< 0.1	1	9/21/15		
p-Terphenyl-D14 (surr)	77 %R		9/21/15		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635781-68132/A091815PAH1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.1	20 (81 %R)	18 (74 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	22 (90 %R)	21 (82 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Acenaphthylene	< 0.1	23 (91 %R)	21 (83 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Acenaphthene	< 0.1	21 (83 %R)	19 (76 %R) (9 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Fluorene	< 0.1	24 (94 %R)	22 (89 %R) (5 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Phenanthrene	< 0.1	22 (89 %R)	21 (84 %R) (6 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Anthracene	< 0.1	22 (89 %R)	21 (83 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Fluoranthene	< 0.1	24 (97 %R)	23 (90 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Pyrene	< 0.1	22 (89 %R)	21 (83 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	23 (91 %R)	21 (85 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Chrysene	< 0.1	22 (88 %R)	21 (83 %R) (6 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	24 (95 %R)	22 (89 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	23 (92 %R)	21 (85 %R) (8 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	24 (95 %R)	22 (88 %R) (8 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	24 (96 %R)	22 (89 %R) (8 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	23 (93 %R)	22 (87 %R) (7 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	22 (90 %R)	21 (85 %R) (6 RPD)	9/18/2015	ug/l	40 - 140	20	8270D
p-Terphenyl-D14 (surr)	85 %R	90 %R	84 %R	9/18/2015	% Rec	33 - 130	20	8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635784-48361/S092115PAH1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	0.90 (54 %R)	1.0 (60 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	0.97 (58 %R)	1.1 (66 %R) (13 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.0 (61 %R)	1.1 (68 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	0.98 (59 %R)	1.1 (66 %R) (11 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.1 (65 %R)	1.2 (72 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.1 (66 %R)	1.2 (72 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.1 (69 %R)	1.3 (76 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.2 (73 %R)	1.3 (80 %R) (9 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.2 (71 %R)	1.3 (77 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.2 (70 %R)	1.3 (77 %R) (10 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.1 (69 %R)	1.2 (75 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.2 (74 %R)	1.3 (80 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.2 (71 %R)	1.3 (76 %R) (7 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.2 (74 %R)	1.3 (80 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.3 (75 %R)	1.3 (81 %R) (8 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.2 (74 %R)	1.3 (78 %R) (5 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.2 (71 %R)	1.2 (74 %R) (4 RPD)	9/22/2015	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	83 %R	73 %R	90 %R	9/22/2015	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-01 (1.4)	SB-01 (2.0)	SB-02 (1.9)	SB-02 (2.7)	SB-03 (1.0)	SB-03 (2.0)	SB-04 (1.5)
Lab Sample ID:	148138.01	148138.02	148138.03	148138.04	148138.05	148138.06	148138.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	88.7	94.9	90.3	87.2	87.7	70.9	81.1
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15
Date of Analysis:	9/25/15	9/25/15	9/25/15	9/25/15	10/1/15	10/1/15	9/25/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.060**	< 0.02	< 0.02	**0.078**	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	**0.023**	**0.18**	**0.13**	**0.27**	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**86 %R**	**65 %R**	**103 %R**	**97 %R**	**76 %R**	**66 %R**	**80 %R**
DCB (surr)	**85 %R**	**83 %R**	**94 %R**	**94 %R**	**73 %R**	**61 %R**	**74 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-03 (1.0), SB-03 (2.0) and associated batch QC.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-04 (2.5)	SB-05 (1.4)	SB-05 (2.4)	SB-06 (1.3)	SB-06 (2.3)	SB-07 (1.3)	SB-07 (2.3)
Lab Sample ID:	148138.08	148138.09	148138.1	148138.11	148138.12	148138.13	148138.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	78.1	81.4	90.2	83.8	82.5	85.2	81.5
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15	9/24/15
Date of Analysis:	10/1/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	3	1	1	1	1	1	1
PCB-1016	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.04	< 0.02	< 0.02	**0.54**	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.04	< 0.02	< 0.02	**0.56**	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**52 %R**	**66 %R**	**100 %R**	**97 %R**	**88 %R**	**92 %R**	**97 %R**
DCB (surr)	**MI**	**68 %R**	**89 %R**	**79 %R**	**82 %R**	**78 %R**	**91 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-04 (2.5) and associated batch QC.
SB-06 (1.3): PCB-1254 and PCB-1260 result obtained from a 4X dilution analyzed on 9/28/2015.
SB-04 (2.5): Detection limits elevated due to higher than normal final extract volume.
MI: Matrix Interference

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-08 (1.3)	SB-08 (2.3)	SB-09 (1.4)	SB-09 (2.0)	SB-10 (1.4)	SB-10 (2.2)	SB-11 (2.0)
Lab Sample ID:	148138.15	148138.16	148138.17	148138.18	148138.19	148138.2	148138.21
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	86.1	86.3	95.3	86.5	91.3	89.4	88
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/24/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15
Date of Analysis:	10/1/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.30**	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02	**0.046**	**0.29**	**0.88**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**95 %R**	**99 %R**	**107 %R**	**101 %R**	**99 %R**	**102 %R**	**92 %R**
DCB (surr)	**72 %R**	**87 %R**	**96 %R**	**95 %R**	**90 %R**	**85 %R**	**75 %R**

Acid clean-up was performed on the samples and associated batch QC.
SB-11 (2.0): PCB-1260 result obtained from a 5X dilution analyzed on 9/28/2015.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-11 (2.5)	SB-12 (1.9)	SB-12 (2.3)	SB-13 (1.8)	SB-13 (2.3)	SB-14 (2.0)	SB-14 (3.0)
Lab Sample ID:	148138.22	148138.23	148138.24	148138.25	148138.26	148138.27	148138.28
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	87.8	87	88.2	88.5	89.5	88.8	88.3
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15
Date of Analysis:	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	**2.8**	**0.48**	**1.4**	< 0.02	< 0.02	< 0.02
PCB-1260	**0.024**	**1.3**	**0.40**	**0.69**	**0.21**	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**104 %R**	**81 %R**	**95 %R**	**100 %R**	**93 %R**	**95 %R**	**104 %R**
DCB (surr)	**88 %R**	**66 %R**	**78 %R**	**80 %R**	**68 %R**	**81 %R**	**93 %R**

Acid clean-up was performed on the samples and associated batch QC.
SB-12 (1.9): PCB-1254 and PCB-1260 result obtained from a 10X dilution analyzed on 9/28/2015.
SB-12 (2.3): PCB-1254 and PCB-1260 result obtained from a 2X dilution analyzed on 9/28/2015.
SB-13 (1.8): PCB-1254 and PCB-1260 result obtained from a 5X dilution analyzed on 9/28/2015.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-15 (1.5)	SB-15 (2.5)	SB-16 (1.4)	SB-16 (2.2)	SB-17 (0.9)	SB-17 (1.9)	SB-18 (1.5)
Lab Sample ID:	148138.29	148138.3	148138.31	148138.32	148138.33	148138.34	148138.35
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	90.9	93	86.9	88.2	83.7	85.1	79.4
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15
Date of Analysis:	10/1/15	9/28/15	10/1/15	9/28/15	9/28/15	9/28/15	9/28/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	**0.23**	< 0.02	**1.6**	< 0.02	**1.5**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**70 %R**	**102 %R**	**70 %R**	**93 %R**	**77 %R**	**82 %R**	**86 %R**
DCB (surr)	**59 %R**	**78 %R**	**65 %R**	**83 %R**	**54 %R**	**49 %R**	**52 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-15 (1.5), SB-16 (1.4) and associated batch QC.
SB-17 (0.9) , SB-18 (1.5): PCB-1260 result obtained from a 10X dilution analyzed on 9/28/2015.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-18 (2.5)	SB-19 (1.2)	SB-19 (2.2)	SB-20 (0.8)	SB-20 (1.8)	SB-21 (1.4)	SB-21 (2.4)
Lab Sample ID:	148138.36	148138.37	148138.38	148138.39	148138.4	148138.41	148138.42
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	91.2	78.8	84.3	86	90.7	84.7	85
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/28/15	9/28/15
Date of Analysis:	9/28/15	9/28/15	9/28/15	10/1/15	9/28/15	9/29/15	9/29/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	**0.34**	< 0.02	**0.062**	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**104 %R**	**80 %R**	**101 %R**	**66 %R**	**105 %R**	**99 %R**	**96 %R**
DCB (surr)	**69 %R**	**57 %R**	**71 %R**	**57 %R**	**83 %R**	**91 %R**	**87 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-20 (0.8) and associated batch QC.
SB-19 (1.2): PCB-1260 result obtained from a 5X dilution analyzed on 9/28/2015.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-22 (1.2)	SB-22 (2.2)	SB-23 (0.9)	SB-23 (1.9)	SB-24 (0.9)	SB-24 (1.9)	SB-25 (1.2)
Lab Sample ID:	148138.43	148138.44	148138.45	148138.46	148138.47	148138.48	148138.49
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	87	92.2	89.7	88.6	85.7	93.2	82.9
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15
Date of Analysis:	10/1/15	9/29/15	9/29/15	9/29/15	10/1/15	9/29/15	9/29/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**72 %R**	**102 %R**	**99 %R**	**99 %R**	**85 %R**	**100 %R**	**89 %R**
DCB (surr)	**63 %R**	**90 %R**	**85 %R**	**91 %R**	**64 %R**	**92 %R**	**77 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-22 (1.2), SB-24 (0.9) and associated batch QC.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-25 (2.2)	SB-26 (1.5)	SB-26 (2.5)	SB-27 (0.7)	SB-27 (1.7)	SB-28 (1.0)	SB-28 (2.0)
Lab Sample ID:	148138.5	148138.51	148138.52	148138.53	148138.54	148138.55	148138.56
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	92.6	91.7	90.8	92.2	88.4	83.4	91.2
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15
Date of Analysis:	9/29/15	9/29/15	9/29/15	9/29/15	9/29/15	10/1/15	10/1/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	**0.091**	**0.12**	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**93 %R**	**100 %R**	**101 %R**	**88 %R**	**88 %R**	**73 %R**	**52 %R**
DCB (surr)	**88 %R**	**98 %R**	**102 %R**	**84 %R**	**78 %R**	**81 %R**	**56 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-28 (1.0), SB-28 (2.0) and associated batch QC.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-29 (0.8)	SB-29 (1.8)	SB-30 (1.0)	SB-30 (2.0)	SB-31 (0.5)	SB-31 (1.5)	SB-32 (0.7)
Lab Sample ID:	148138.57	148138.58	148138.59	148138.6	148138.61	148138.62	148138.63
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	95.3	92.4	84.9	90.1	80.7	77.9	92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15	9/28/15
Date of Analysis:	9/29/15	9/29/15	9/29/15	10/1/15	9/29/15	9/29/15	9/29/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	**0.056**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.60**
PCB-1260	**0.13**	**0.12**	< 0.02	< 0.02	< 0.02	**0.022**	**0.68**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**86 %R**	**57 %R**	**74 %R**	**81 %R**	**101 %R**	**95 %R**	**86 %R**
DCB (surr)	**76 %R**	**59 %R**	**65 %R**	**68 %R**	**90 %R**	**82 %R**	**71 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-30 (2.0) and associated batch QC.
SB-32 (0.7): PCB-1254 and PCB-1260 result obtained from a 4X dilution analyzed on 9/29/2015.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-32 (1.7)	SB-33 (0.9)	SB-33 (1.9)	SB-34 (0.8)	SB-34 (1.8)	SB-35 (0.8)	SB-35 (1.8)
Lab Sample ID:	148138.64	148138.65	148138.66	148138.67	148138.68	148138.69	148138.7
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	88.8	97.2	90.8	94.2	87.4	92.8	94
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/28/15	9/28/15	9/28/15	9/28/15	9/29/15	9/29/15	9/29/15
Date of Analysis:	9/29/15	9/29/15	9/29/15	9/29/15	9/29/15	9/30/15	9/30/15
Analyst:	AR	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	**0.039**	< 0.02	< 0.02	< 0.02	**0.033**	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**83 %R**	**93 %R**	**68 %R**	**81 %R**	**75 %R**	**100 %R**	**104 %R**
DCB (surr)	**77 %R**	**88 %R**	**82 %R**	**83 %R**	**99 %R**	**102 %R**	**105 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-36 (1.3)	SB-36 (2.3)	SB-DUP-01	SB-DUP-02	SB-DUP-03	SB-DUP-04
Lab Sample ID:	148138.71	148138.72	148138.73	148138.74	148138.75	148138.76
Matrix:	soil	soil	soil	soil	soil	soil
Date Sampled:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
Date Received:	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
% Solid:	91.2	95.4	88.6	87.6	88.3	90.7
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	9/29/15	9/29/15	9/29/15	9/29/15	9/29/15	9/29/15
Date of Analysis:	9/30/15	9/30/15	9/30/15	9/30/15	9/30/15	10/1/15
Analyst:	AR	AR	AR	AR	AR	AR
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082
Dilution Factor:	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	**0.33**	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**107 %R**	**104 %R**	**90 %R**	**97 %R**	**102 %R**	**52 %R**
DCB (surr)	**112 %R**	**116 %R**	**91 %R**	**83 %R**	**97 %R**	**60 %R**

Acid clean-up was performed on the samples and associated batch QC.
Additional Sulfur clean-up was performed on SB-DUP-04 and associated batch QC.

LABORATORY REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Client Designation: **Waterfront Park Burlington, VT**

Sample ID:	SB-EB-01
Lab Sample ID:	148138.77
Matrix:	aqueous
Date Sampled:	9/17/15
Date Received:	9/17/15
Units:	ug/l
Date of Extraction/Prep:	9/21/15
Date of Analysis:	9/21/15
Analyst:	AR
Method:	8082
Dilution Factor:	1

PCB-1016	< 0.2
PCB-1221	< 0.2
PCB-1232	< 0.2
PCB-1242	< 0.2
PCB-1248	< 0.2
PCB-1254	< 0.2
PCB-1260	< 0.2
PCB-1262	< 0.2
PCB-1268	< 0.2
TMX (surr)	**95 %R**
DCB (surr)	**92 %R**

Acid clean-up was performed on the samples and associated batch QC.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635784-41918/A092115PCB1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.2	2.1 (103 %R)	2.0 (101 %R) (2 RPD)	9/21/2015	ug/l	40 - 140	20	8082
PCB-1221	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1232	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1242	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1248	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1254	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1260	< 0.2	1.8 (91 %R)	1.8 (92 %R) (1 RPD)	9/21/2015	ug/l	40 - 140	20	8082
PCB-1262	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
PCB-1268	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	9/21/2015	ug/l			8082
TMX (surr)	108 %R	97 %R	96 %R	9/21/2015	% Rec	30 - 150	20	8082
DCB (surr)	108 %R	97 %R	97 %R	9/21/2015	% Rec	30 - 150	20	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635786-00812/S092315PCB1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (107 %R)	0.15 (109 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1260	< 0.02	0.13 (95 %R)	0.13 (95 %R) (0 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
TMX (surr)	104 %R	106 %R	106 %R	9/24/2015	% Rec	30 - 150	30	8082
DCB (surr)	93 %R	95 %R	95 %R	9/24/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 63578601005/S092315PCB2

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.12 (92 %R)	0.12 (90 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1260	< 0.02	0.11 (84 %R)	0.11 (82 %R) (2 RPD)	9/24/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/24/2015	mg/kg			8082
TMX (surr)	92 %R	94 %R	92 %R	9/24/2015	% Rec	30 - 150	30	8082
DCB (surr)	87 %R	88 %R	86 %R	9/24/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635786-92592/S092415PCB1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.13 (100 %R)	0.14 (101 %R) (1 RPD)	9/25/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
PCB-1260	< 0.02	0.11 (85 %R)	0.12 (88 %R) (3 RPD)	9/25/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/25/2015	mg/kg			8082
TMX (surr)	97 %R	98 %R	100 %R	9/25/2015	% Rec	30 - 150	30	8082
DCB (surr)	91 %R	92 %R	96 %R	9/25/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635787-80312/S092515PCB1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (101 %R)	0.14 (108 %R) (7 RPD)	9/28/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
PCB-1260	< 0.02	0.12 (86 %R)	0.12 (93 %R) (8 RPD)	9/28/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/28/2015	mg/kg			8082
TMX (surr)	100 %R	102 %R	106 %R	9/28/2015	% Rec	30 - 150	30	8082
DCB (surr)	93 %R	95 %R	99 %R	9/28/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635790-38454/S092815PCB1

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (108 %R)	0.14 (105 %R) (3 RPD)	9/29/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1260	< 0.02	0.13 (94 %R)	0.12 (90 %R) (4 RPD)	9/29/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
TMX (surr)	106 %R	107 %R	102 %R	9/29/2015	% Rec	30 - 150	30	8082
DCB (surr)	94 %R	98 %R	93 %R	9/29/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

QC REPORT

EAI ID#: **148138**

Client: **The Johnson Company**

Batch ID: 635790-38769/S092815PCB2

Client Designation: **Waterfront Park Burlington, VT**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (102 %R)	0.14 (101 %R) (1 RPD)	9/29/2015	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1260	< 0.02	0.12 (87 %R)	0.12 (88 %R) (1 RPD)	9/29/2015	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD	9/29/2015	mg/kg			8082
TMX (surr)	99 %R	101 %R	102 %R	9/29/2015	% Rec	30 - 150	30	8082
DCB (surr)	86 %R	89 %R	89 %R	9/29/2015	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

CHAIN-OF-CUSTODY RECORD

148138

32

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-01(1.4)	9-17-15 9:51	soil Grab or Comp	SolTotDry/PCB/PAH	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-01(2.0)	9:53	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-02(1.9)	8:45	soil Grab or Comp	SolTotDry/PCB/PAH	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-02(2.2)	8:47	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-03(1.0)	10:30	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC
☒ EDD PDF
☒ EDD email
☒ PDF prelim, NO FAX
☒ e-mail Login Confirmation
☐ NO FAX
☐ Partial FAX
☐ PDF Invoice
☐ EQUIS

PO# Verbal
Quote#: 1012878
Temp 3.7 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1515	
	9-17-15/1915	

Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148138

33

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-03(2.0)	9-17-15 9:34	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-04(1.5)	10:40	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-04(2-5)	10:42	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-05(1.4)	10:48	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-05(2-4)	10:50	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.7 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1515	
	9-17-15/1915	

Relinquished by Date/Time Received by

CHAIN-OF-CUSTODY RECORD

148138

34

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-06(1-3)	9-17-15 10:55	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-06(2-3)	10:56	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-07(1-3)	11:03	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-07(2-3)	11:04	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-08(1-3)	11:14	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.7 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1515	
	9-17-15/1915	

CHAIN-OF-CUSTODY RECORD

148138
JCO

35

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-08(2.3)	9-17-15 11:15	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-09(1.4)	11:28	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-09(2.0)	11:29	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-10(1.4)	11:35	soil Grab or Comp	SolTotDry/PCB/PAH	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-10(2.2)	11:36	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
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PO# Verbal
Quote#: 1012878
Temp 3.7 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1515	
Relinquished by	Date/Time	Received by
	9-17-15/1915	

CHAIN-OF-CUSTODY RECORD

148138
JCO

36

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-11(2.0)	9-17-15 11:45	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
SB-11(2.5)	11:47	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-12(1.9)	11:50	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-12(2.3)	11:52	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-13(1.8)	11:58	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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EAI Project ID 4693
Project Name Waterfront Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

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	9-17-15/1845	

CHAIN-OF-CUSTODY RECORD

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-13(2-3)	9-17-15 11:59	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-14(2.0)	12:03	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-14(3.0)	12:04	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-15(1.5)	12:11	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-15(2.5)	12:12	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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	9/15/15 1515	
	9-17-15 1915	

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CHAIN-OF-CUSTODY RECORD

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JCO

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-16(1-4)	9-17-15 12:16	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-16(2-2)	12:18	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-17(0-9)	12:22	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-17(1-9)	12:23	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-18(1-5)	12:32	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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39

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-18(2-5)	9-17-15 12:38	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-19(1-2)	12:41	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-19(2-2)	12:42	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-20(0-8)	12:48	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-20(1-8)	12:49	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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State VT

Client (Pro Mgr) Jeremy Matt

Customer The Johnson Company

Address 100 State Street

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Phone 802-229-4600 Fax 802-229-5876 (58)

EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day

Notes:

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Samples Collected by:

Relinquished by	Date/Time	Received by
	9/17-15/1515	
	9/17-15/1915	

Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

MS138

JCO

40

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-21(1.4)	9-17-15 12:56	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
SB-21(2.4)	12:57	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-22(1.2)	13:00 ~~13:02~~	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-22(2.2)	13:01	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-23(0.9)	13:16	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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State VT

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Address 100 State Street

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Phone 802-229-4600 Fax 802-229-5876 (58)

EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-27-15

Notes:

QC deliverables

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Quote#: 1012878

Temp 3.7 °C

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Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1525	
	9-17-15/1915	

Relinquished by Date/Time Received by

CHAIN-OF-CUSTODY RECORD

148138
JCO

41

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-23(1-9)	9-17-15 13:12	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-24(0-9)	13:24	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-24(1-9)	13:25	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-25(1, 2)	13:30	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-25(2-2)	13:31	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Relinquished by Date/Time Received by

CHAIN-OF-CUSTODY RECORD

148138

JCO

42

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-26(~~1.5~~ 1-5)	9-17-15 13:37	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-26(2-5)	13:38	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-27(0.7)	13:44	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-27(1-2)	13:45	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-28(1.0)	13:52	soil Grab or Comp	SolTotDry/PCB/PAH	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ~~ICE~~	Dissolved Sample Field Filtered ☐

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Samples Collected by:

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Relinquished by Date/Time Received by

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CHAIN-OF-CUSTODY RECORD

148138

JCO

43

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-28(2.0)	9-17-15 13:54	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-29(0.8)	14:07	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-29(1.8)	14:08	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-30(1.0)	14:14	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-30(2.0)	14:15	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-31(0-5)	9-17-15 1420	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-31(1-5)	1421	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-32(0-1)	1425	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-32(1-2)	1426	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-33(0-1)	1433	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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45

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-33(1.9)	9-17-15 1432	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-34(0.8)	14:41	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-34(1.8)	14:42	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-35(0.8)	14:46	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-35(1.8)	14:47	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT
State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.7°C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15 1135	
	9/17/15 1915	

Relinquished by	Date/Time	Received by

CHAIN-OF-CUSTODY RECORD

148138
JCO

46

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-36(1,3)	9-17-15 1452	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-36(2,5)	1453	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-DUP-01	9-17-15 1200	soil Grab or Comp	~~SolTotDry/PCB~~ PCB / PAH	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-DUP-02	9-17-15 1201	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-DUP-03	9-17-15 1202	soil Grab or Comp	SolTotDry/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT

State VT
Client (Pro Mgr) Jeremy Matt
Customer The Johnson Company
Address 100 State Street
City Montpelier VT 05602
Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.7 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1525	
	9-17-15/1915	

CHAIN-OF-CUSTODY RECORD

148138
JCO

47

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SB-DUP-04	9-17-15 12:05	soil Grab or Comp	SolTotDry/PCB	1
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SB-EB-01	9-17-15 9:00	aqueous Grab or Comp	AqTot/PCB/PAH	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
MW-01		aqueous Grab or Comp	AqTot/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
MW-02		aqueous Grab or Comp	AqTot/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
MW-DUP		aqueous Grab or Comp	AqTot/PCB	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 4693
Project Name Waterfront Park Burlington, VT

State VT
Client (Pro Mgr) Jeremy Matt
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Address 100 State Street
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Phone 802-229-4600 Fax 802-229-5876 (58)
EmailAddress: jem@jcomail.com

Results Needed by: Preferred date 5-day
Notes:

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ PC

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☐ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☒ e-mail Login Confirmation

PO# Verbal
Quote#: 1012878
Temp 3.7 °C
Ice Y ☒ N ☐

Samples Collected by:

Relinquished by	Date/Time	Received by
	9-17-15/1515	
	9-17-15/1915	

Relinquished by Date/Time Received by

E

ATTACHMENT 5

Field Notes and Sample Logs

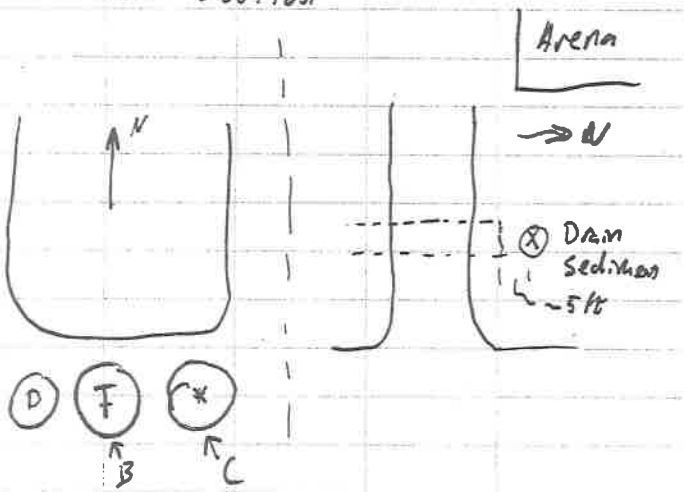
JEM #6

Leddy Park Stockpile Date 9-14-15
Burlington, VT

JEM - Jeremy Mah

10:00 - JEM onsite
Overcast, light drizzle, calm, ~65°F

- Stockpile A - 180 ft long (meas. w/ 300 ft tape)
  - each section ~30 ft long edge 9-14-15
  - Part marks @ Approx center of each section



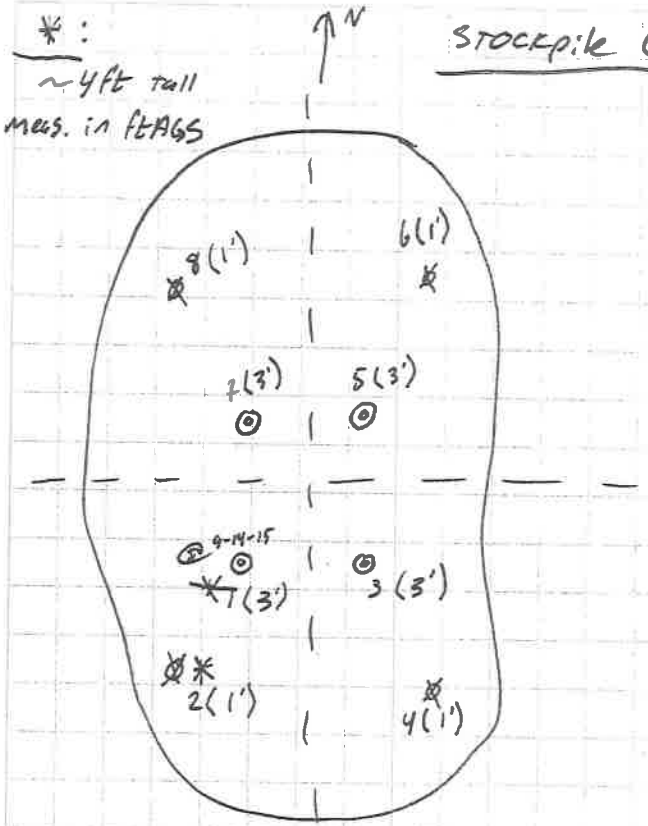
ft APS - ft above parking lot surface
ft bgs - ft below ground surface

11:00 - collect Drain Sediment (PCBs) from ~5 ft north of N. end of culvert from ~0-0.5 ft bgs fine gravel/sand w/ organic silt/muck. Organic odor.

JEM #6

Location Leddy Park Stockpile Date 9-14-15
Project / Client Burlington, VT

*:
~4 ft tall
Meas. in ft AGS



*- Dup collected from Loc. #2 @ 9-14-15 @ false time (12:00)

JEW #6

Location Burlington, VT Date 9-14-15

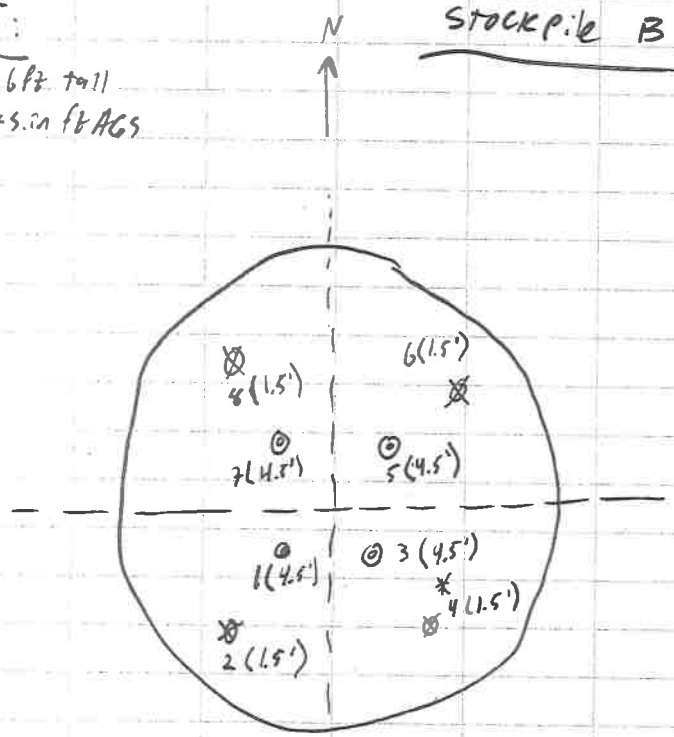
Project / Client Ledge Park

JEW

F:

~6ft tall

meas. in ft AGS



* - Dup collected from Loc #4 false time 12:01

JEW #6

Location Burlington, VT Date 9-14-15

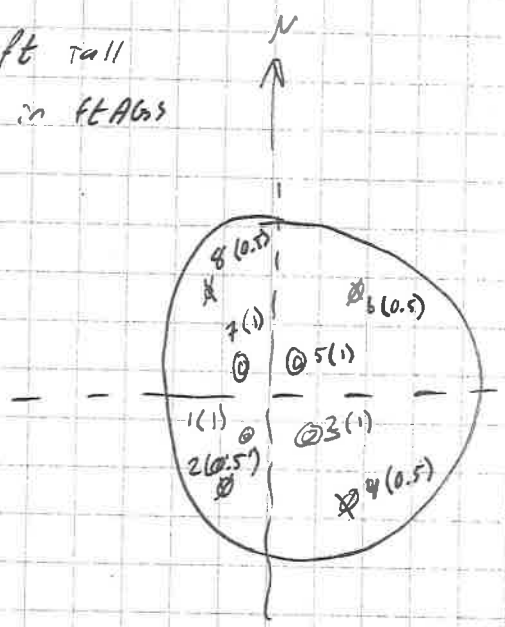
Project / Client Ledge Park

JEW

D:

~3ft tall

meas in ft AGS



* Dup collected from Loc #8 @ 12:03

Decon: Alconox, DI Rinse, wipe w/ Hexane soaked paper towel & Truck Tailgate. no drips/spills of Hexane

16:15 - Left close fence ; offsite

JEM #6

Burlington, VT Date 9-15-15
Leddy Park

JEM- Jeremy Mott / SKM- Kurt Mullen / Daly - Paul Daly

7:40 - JEM onsite open fence, org field supplies
clear, calm, ~70°f

8:00 - SKM onsite
to open plastic, prep for ramp construction

8:30 - Daly onsite, Begin Ramp const.

9:10 - collect ~~FB~~ @ FB-SP-01 @ 9:10 over decanned hand auger

Dups:
SB-A-Dup-01 from SP-A-05 @1200

Typical Soil Characteristics.
Drk Brn Med/fine Sand w/ some SR gravel No odor, some Organic material present

SB-A-Dup 02 from SP-A-30 @1201
SB-A-Dup 03 from SP-A-44 @1202

1600 - JEM / SKM / Daly offsite

JEM #6

Location Burlington, VT Date 9-16-15
Project / Client Leddy Park

JEM- Jeremy Mott / EAI - Eastern Analytical

9:00 - JEM onsite
clear, 1T breeze, ~70°f

replace, re Ice Samples, open fence, peel back plastic

9:10 - EAI drillers onsite

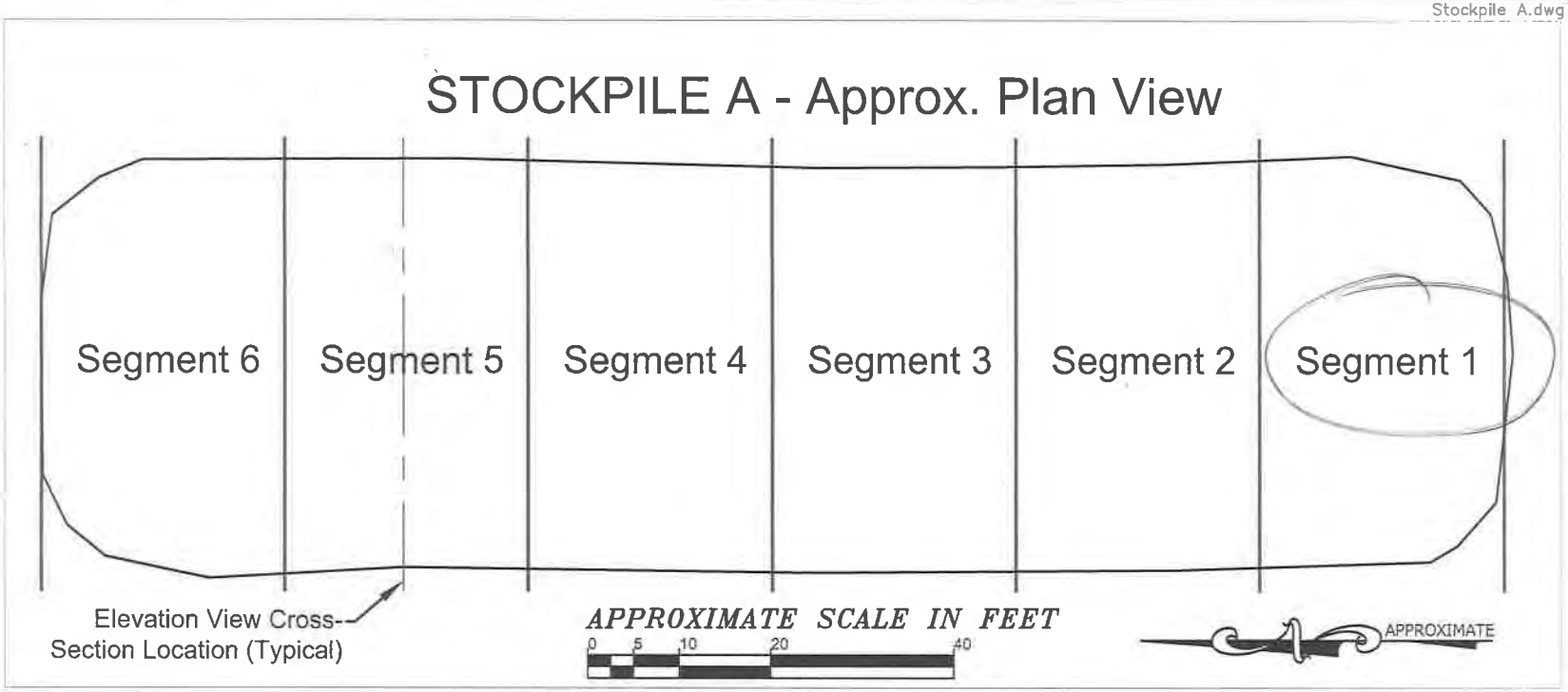
SP-A-Dup-04 collected from SP-A-61 (13.5) @ false time 1200

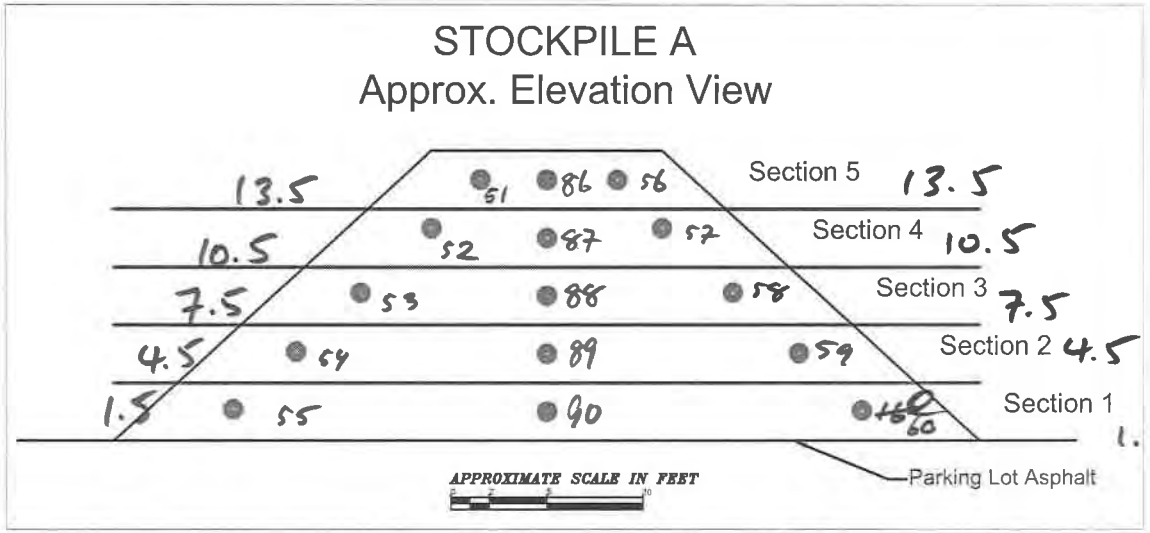
SP-A-Dup-05 collected from SP-A-90 (1.5) @ false time 12:01
recover pile A

14:30 - EAI offsite

15:00 - JEM offsite

Stockpile A.dwg





LEGEND

- Approximate Proposd Sample Location
- Approximate Segment/Section Boundary
- Approximate Pile Outline

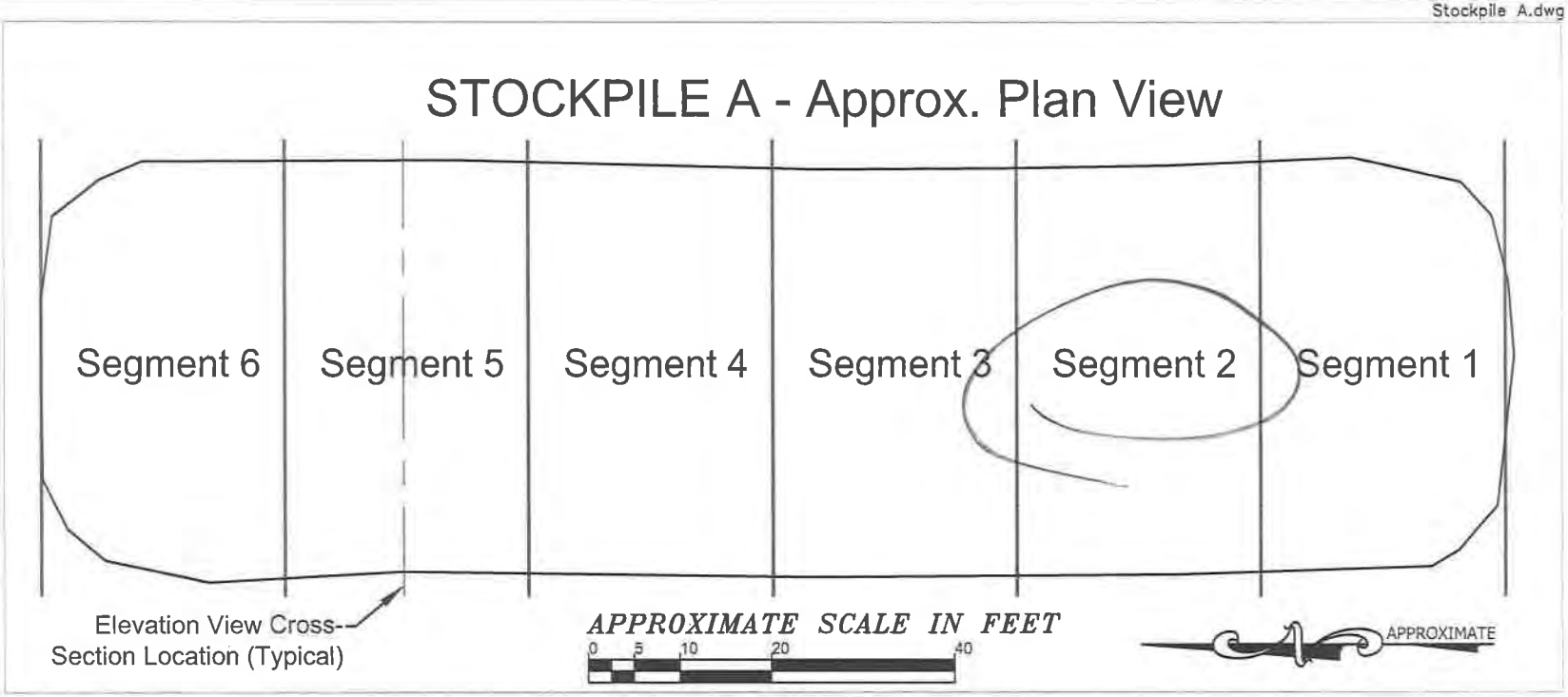
Area

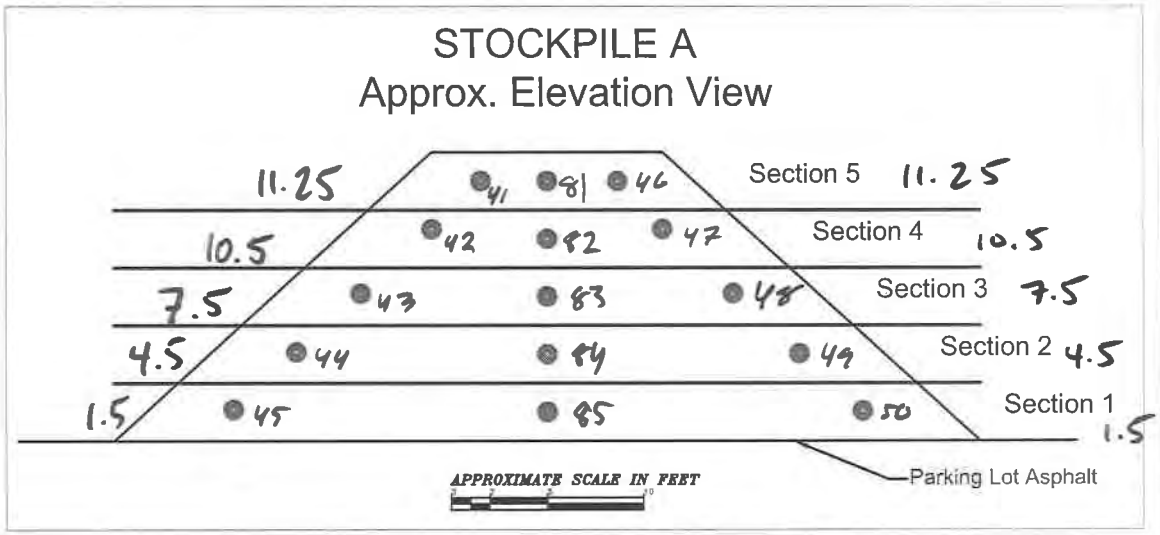
Figure 1 - Stockpile A Layout & Proposed Sample Locations
Leddy Park
Burlington, Vermont

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM	Date: 8/28/15
Chk'd by: JKM	Date: 8/28/15
Scale: As Shown	Project: 3-3049-02

Stockpile A.dwg





LEGEND

- Approximate Proposd Sample Location
- Approximate Segment/Section Boundary
- Approximate Pile Outline

Arena

Figure 1 - Stockpile A Layout & Proposed Sample Locations
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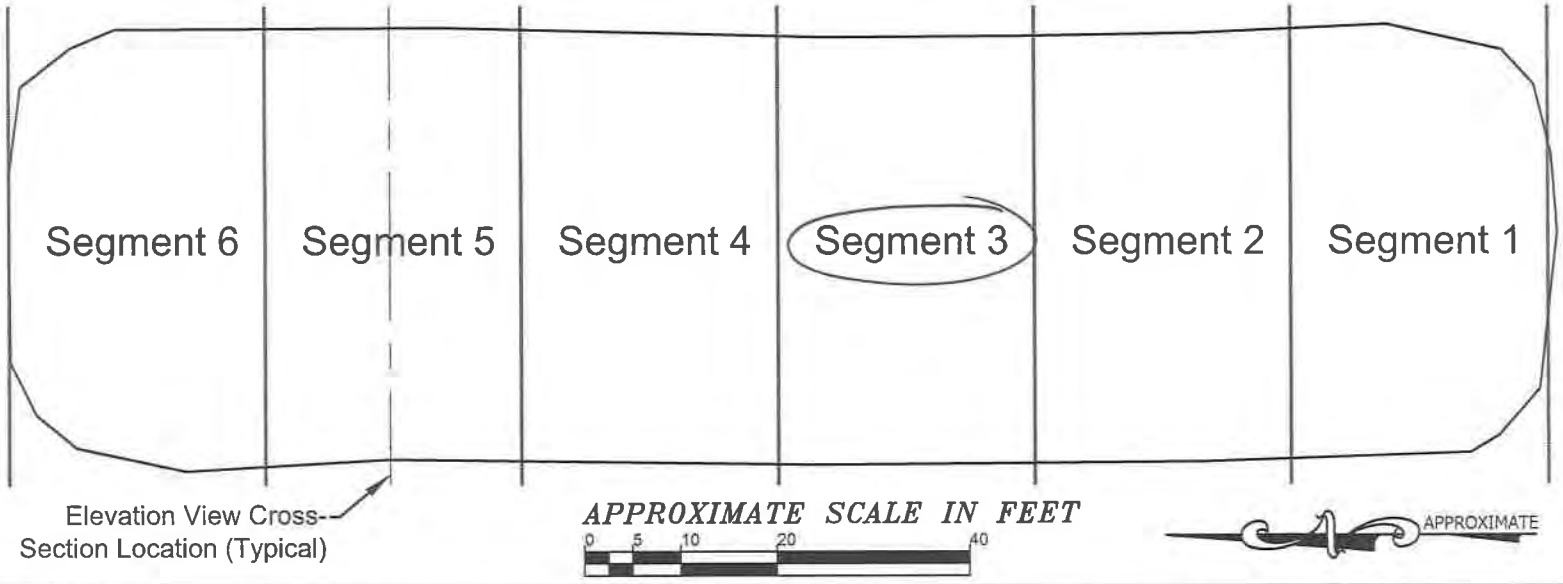
The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM	Date: 8/28/15
Chk'd by: JKM	Date: 8/28/15
Scale: As Shown	Project: 3-3049-02

Stockpile A.dwg

STOCKPILE A - Approx. Plan View



LEGEND

- Approximate Proposd Sample Location
- Approximate Segment/Section Boundary
- Approximate Pile Outline

Arena

STOCKPILE A
Approx. Elevation View

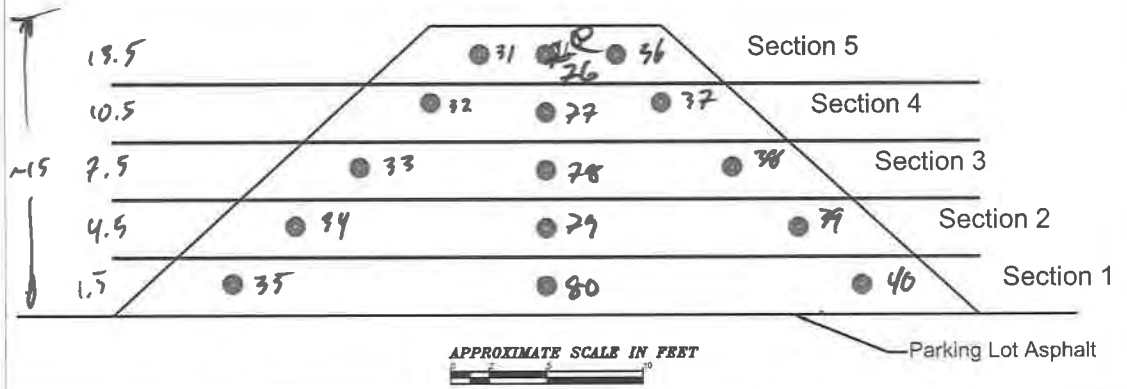


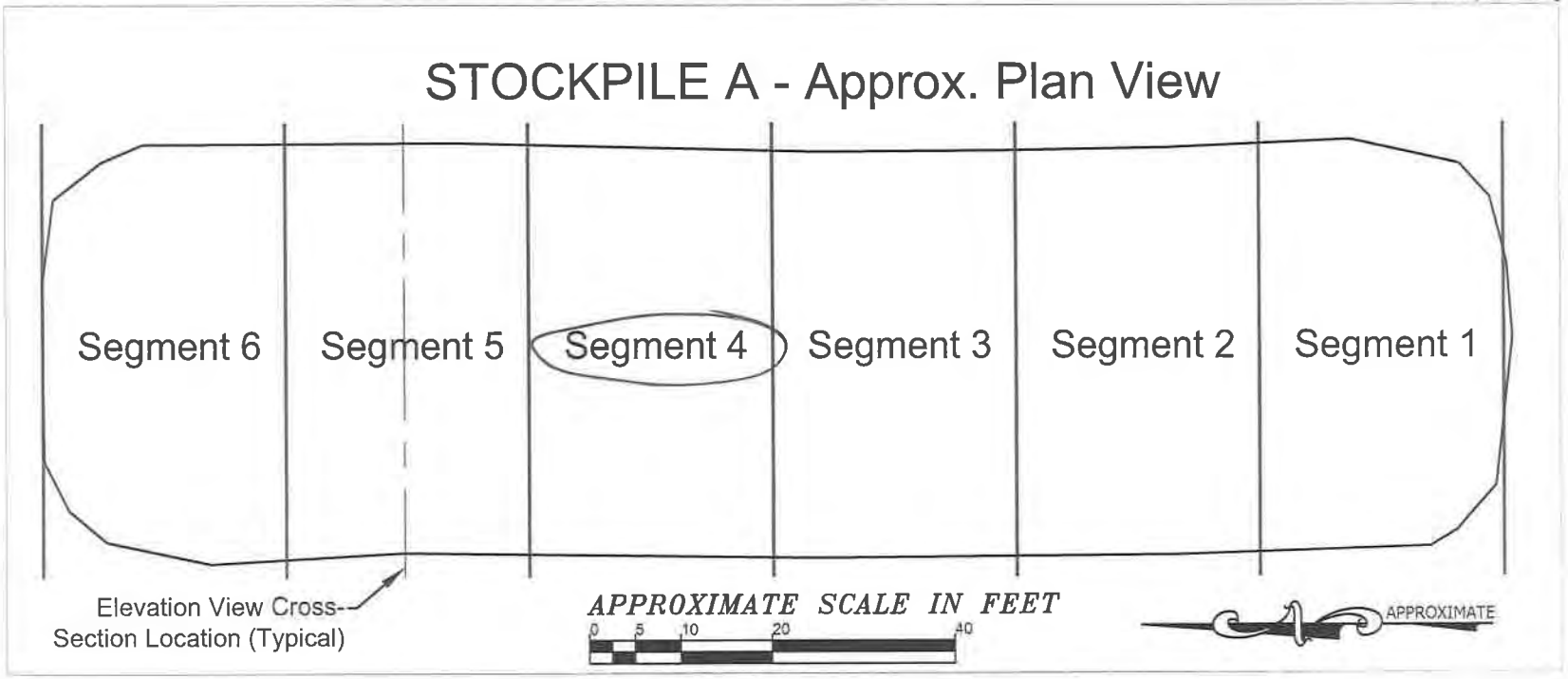
Figure 1 - Stockpile A Layout & Proposed Sample Locations
Leddy Park
Burlington, Vermont

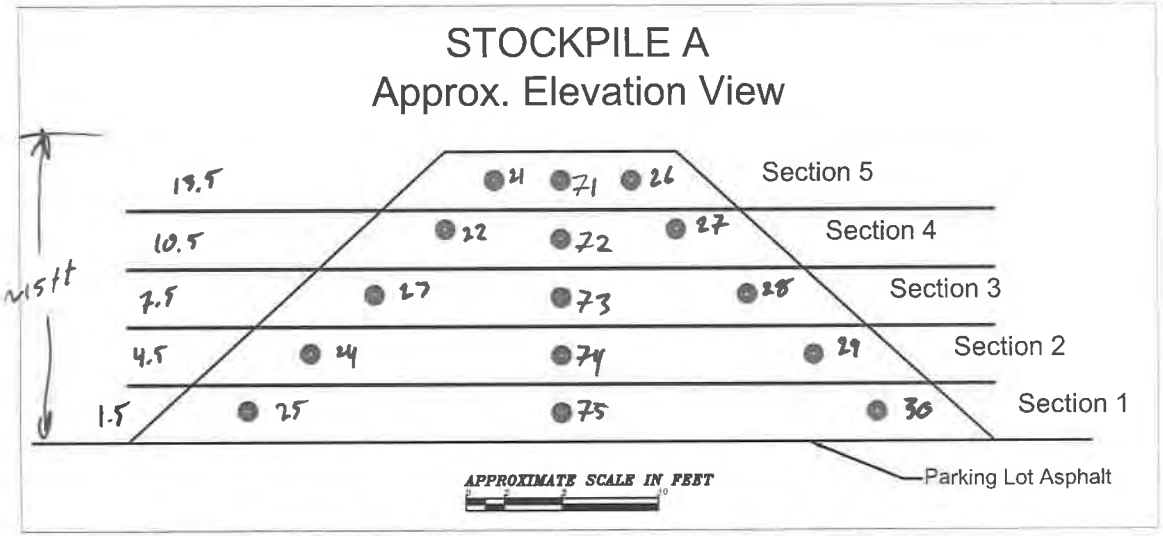
The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM	Date: 8/28/15
Chk'd by: JKM	Date: 8/28/15
Scale: As Shown	Project: 3-3049-02

Stockpile A.dwg





LEGEND

- Approximate Proposd Sample Location
- Approximate Segment/Section Boundary
- Approximate Pile Outline

Areas

Figure 1 - Stockpile A Layout & Proposed Sample Locations
Leddy Park
Burlington, Vermont

The Johnson Company

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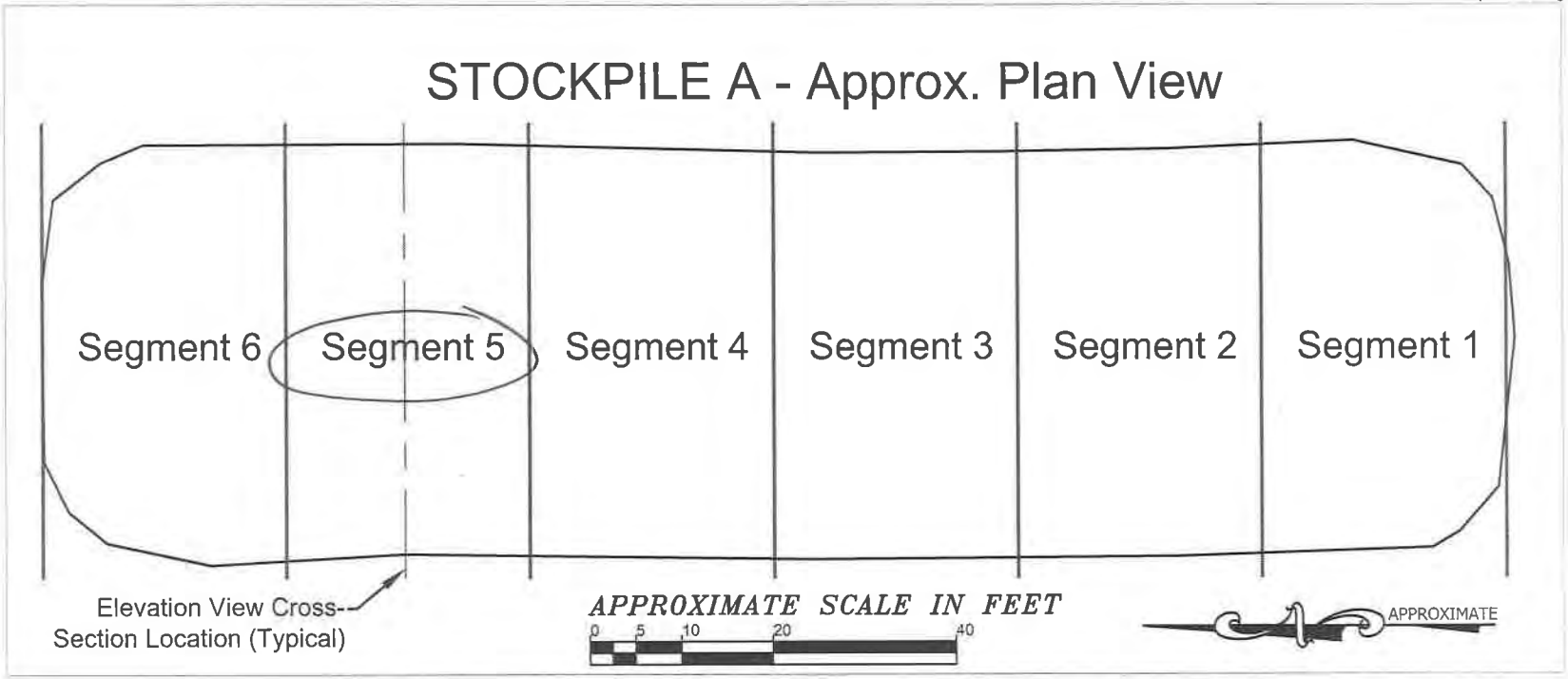
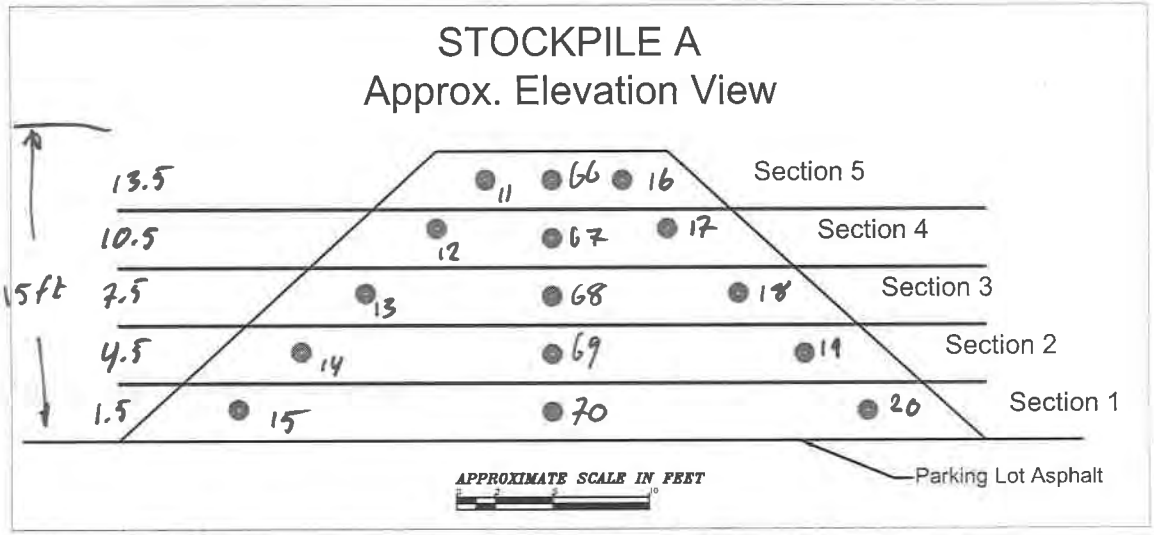
Montpelier, VT 05602
(802) 229-4600

Drawn by: JEM	Date: 8/28/15
Chk'd by: JKM	Date: 8/28/15
Scale: As Shown	Project: 3-3049-02

Stockpile A.dwg





LEGEND

- Approximate Proposd Sample Location
- Approximate Segment/Section Boundary
- Approximate Pile Outline

Area

Figure 1 - Stockpile A Layout & Proposed Sample Locations
Leddy Park
Burlington, Vermont

The Johnson Company
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Montpelier, VT 05602
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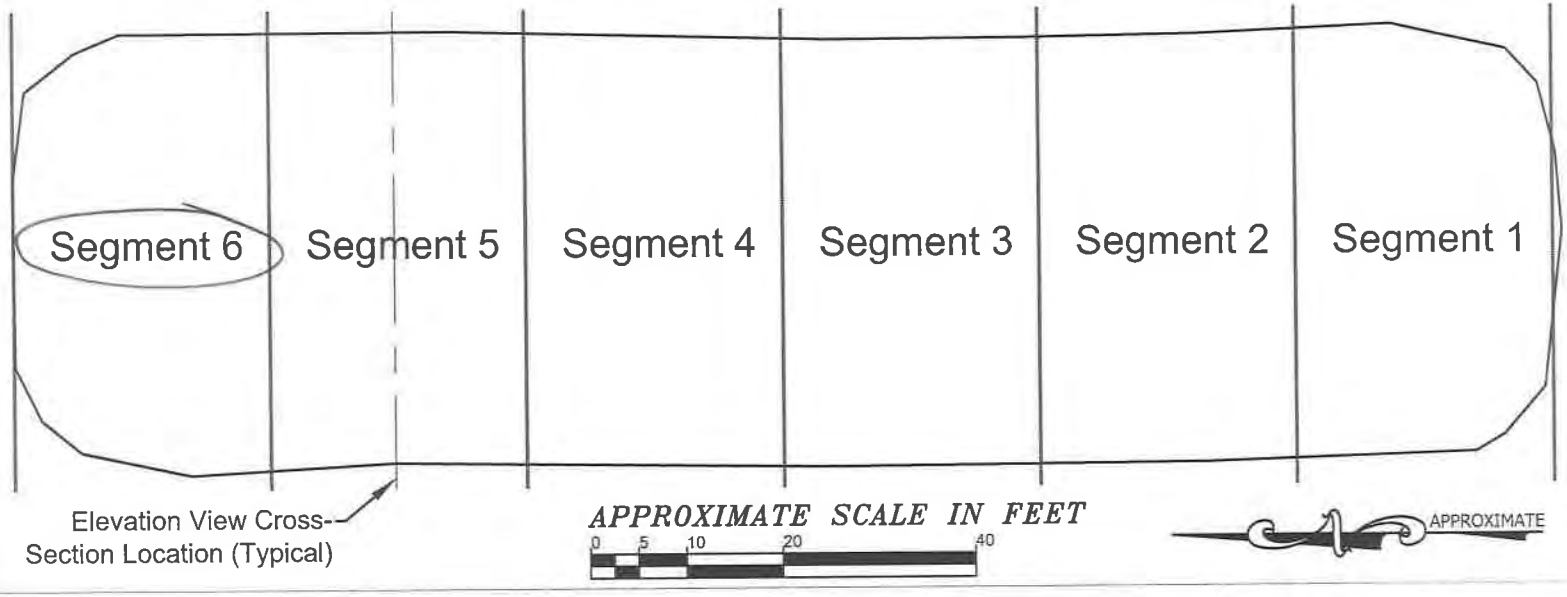
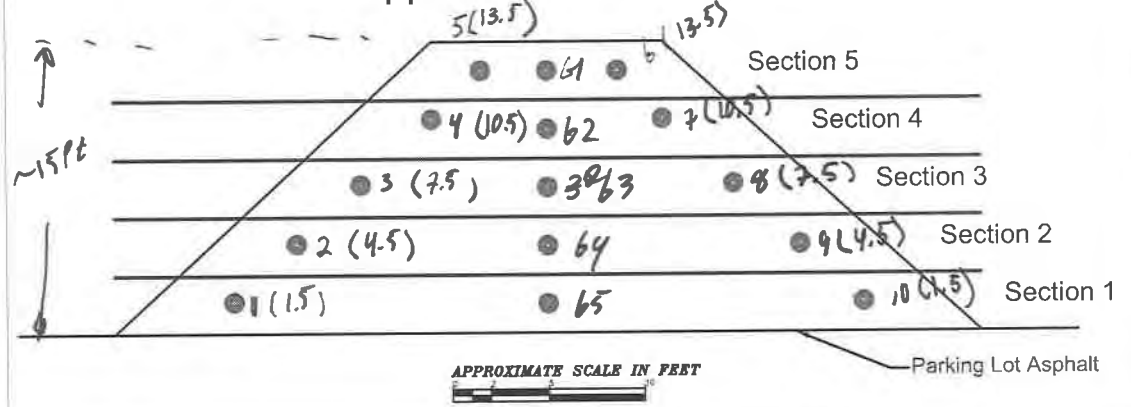
Drawn by: JEM	Date: 8/28/15
Chk'd by: JKM	Date: 8/28/15
Scale: As Shown	Project: 3-3049-02

Stockpile A.dwg

STOCKPILE A - Approx. Plan View



STOCKPILE A
Approx. Elevation View



LEGEND

- Approximate Proposd Sample Location
- Approximate Segment/Section Boundary
- Approximate Pile Outline

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Leddy Park
Burlington, Vermont

The Johnson Company
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Montpelier, VT 05602
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Drawn by: JEM	Date: 8/28/15
Chk'd by: JKM	Date: 8/28/15
Scale: As Shown	Project: 3-3049-02

JEM #6

26

Location Burlington, VT Date 9-17-15

Project / Client Waterfront Park

JEM - Jeremy Mott

7:10 - JEM onsite, clear, ~65°F
IT breeze

7:30 - City onsite to mark out utilities
Field-adjusted borings locations as necessary

7:40 - EAI onsite, install monitoring wells, set up work area on plastic sheeting
- begin drilling

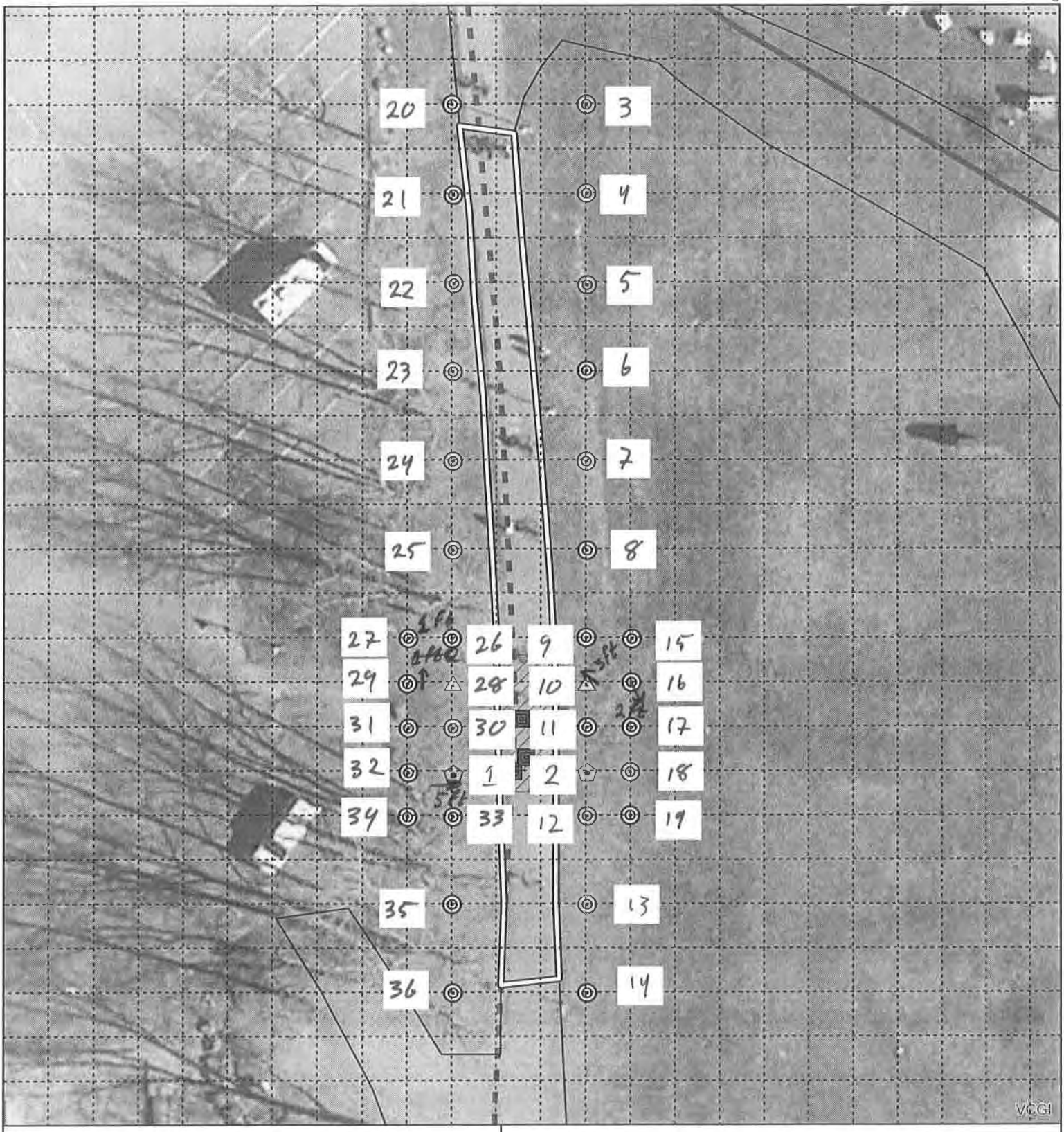
- collect SB-EB-01 @ 9:00 over clean nitrile

- return deeper soils to bottom of borings

- return cap material to upper portions of Borings, fill remaining voids w/ driller's sand

- develop MW-1 & MW-2 (~5-gal each, H_2O clear)

15:20 - EAI offsite 1630 - JEM offsite



Legend

- Phase 1a Limit of Disturbance
- Stockpile D Excavation Area
- 10 X 10 ft. Grid Spacing Oriented True North
- Area of Heaviest Observed Soil Staining
- Bike Path Current Alignment
- Bike Path Former Alignment
- SS-D-1 Discrete Sample Location (2014)
- Proposed Soil Boring - PCB* analysis
- Proposed Soil Boring - PCB and SVOC analysis
- Proposed Soil Boring- PCB and SVOC analysis/Monitoring Well - PCB analysis

Figure 3: Proposed Soil Boring Plan
Burlington Bike Path Rehabilitation Project
Waterfront Park, Burlington, VT

August 10, 2015

Background: Orthophoto by VCGI (2014); Stockpile Excavation Area, Heaviest Observation Staining Area, and Boring Locations by VHB (2015).

0 30 60 Feet

N

vhb

Document Path: \\vhfdata\projects\57634.00\GIS\Project\OHM\Waterfront Park_PCB Grid8.5X11.mxd

Project:	Waterfront Park	Boring ID Number:	SB-1	
Boring Location:	---	Elevation & Datum:		
Drilling Contractor:	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-5	3.7/5	0-0.8: f. Sand & S.R. gravel, some org. Material	cap?
		0.8-1.5: Dk brn S.I.Ty f. Sand some S.R. gravel, few coal frags	Dup-01 @1200
		1.5-2.5: Tan f. Sand, some S.I.T, tr. f. S.R. gravel	
		2.5-3.3: SAA, Stained blue/black, strong Pet. odor	
5-6	0/1	Refusal @ 6 ft. no recovery. Collected soil analytical from this hole. reset - 5 ft E. to install mw-5	

Project Number: 3-3049-03

Project:	Waterfront Park	Boring ID Number:	MW-1
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-5	3.1/5	0-1.5: f. Sand ? S.R. gravel, some organics	Cap
		1.5-2: Brn orange mottled f. Sand, some Silt	
		2-2.5: orange f-m Sand, some Silt	water table est. @ 5ft-bgs
		2.5-3.1: Sat. f. Brn Silty Sand ↳ no odor	
5-10	3.8/5	flowing Sands in borehole 0-1.8: SAA, tr loose 1.8-2.9: med Brn Sand, little Silt 2.9-3.8: Silty f. Sand	
10-13	3/3	flowing Sands 0-3: Brn m-c Sand, some f. R. gravel, little Silt	
		well: Screen: 3-13 Sand: 2-13 Bent. seal: 1-2	

Project:	Waterfront Park	Boring ID Number:	SB-2 / MW-2	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished: 9-17-15
Drilling Method:	Direct Push	Total Depth:	13	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	~6 ft	
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-5	2.7/5	0-0.8: Brn m. Sand, some f. fine gravel 0.8-1.3 fine crushed stone 1.3-2.7 Brn f. Sand, some Silt	CAP material
5-10	1.4/5	0-0.5: SAA, saturated 0.5-1.1: Angular gravel 1.1-1.4: Silty f. Sand, few f. gravel	water @ ~5 ft bgs
10-13	2.8/3	0-0.6: Brn Silty f. Sand 0.6-1.2: Brn m. Sand, some f. Rounded gravel, 1.2-2.8: Brn f. Sand, little Silt. Silt/clay chunk in tip MW-02 Screen 3-13 Sand 2-13 Bent 1-2	

Project:	Waterfront Park	Boring ID Number:	SB-3	
Boring Location:	---	Elevation & Datum:		
Drilling Contractor	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.6/4	0-0.6 : Typical cap material: f. Sand & org. material, Some R. gravel	Dup-2 @ 12:01 from upper sample
		0.6-1.6 : Dark brn/black silty sand & coal frags	
		1.6-2.6 : SAA	

Project:	Waterfront Park	Boring ID Number:	SB-4
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	3/4	0-1 : Typ. Cap 1-1.8 : Brn f. silty Sand & coal frags 1.8-2.2 : SAA, no coal 2.2-2.4 : Brick frags 2.4-3 : Tan Silty Sand	Samp 1.5, 2.5

Project:	Waterfront Park	Boring ID Number:	SB-5	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.7/4	0 - 0.6 : Cap 0.6 - ~~2.0~~ 1.2 : Silty sand, brick/coal frags 1.2 - 1.3 : White ashy material 1.3 - 2.1 : Wet Brn. Sandy silt, few f. gravel 2.1 - 2.7 : Brn. f. Sand, little silt, little f. gravel	Sample 1.4, 2.4

Project:	Waterfront Park	Boring ID Number:	SB-6
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.8/4	0-0.7: Cap 0.7-2.3: Brn Sand, some silt, some f. R. gravel, occasional coal frags 2.3-2.8: f. R. gravel & M. Sand (Brn	Sample 1.3 2.3

Project:	Waterfront Park	Boring ID Number:	SB-7	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	3/4	0 - 0.7 : CAP 0.7 - 0.9 : Dk brn/black Sand, some silt 0.9 - 1.4 : Tan M. Sand, Some f. R. gravel 1.4 - 1.6 : Coal frags & Sand 1.6 - 2.6 : f. R gravel & M. silty sand, few coal frags 2.6 - 3 : yellow Brn f. silty Sand	Sample 1.3, 2.3

Project:	Waterfront Park	Boring ID Number:	SB-8
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.8/4	0 - 0.7 : Cap 0.7 - 1.1 : DK Brn/blk silt w/ coal frags 1.1 - 1.3 : orange c. Sand & f. gravel 1.3 - 1.8 : SAA (0.7 - 1.1) 1.8 - 2.8 : orange m. Sand, some silt	Sample 1.3, 2.3

Project:	Waterfront Park	Boring ID Number:	SB-9	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2/4	0-1.3 : Top Soil w/ Ash & Gravel 1.3-2 : Brn. M. Sand	Sample 1-4, 2.0

Project:	Waterfront Park	Boring ID Number:	SB-10
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.3/4	0-1.2: Typical cap 1.2-2.3: Brn f-m sand for R. gravel	Sample 1.4, 2.2

Project:	Waterfront Park	Boring ID Number:	SB-11	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.6/4	0-1.6 Typ cap material over crushed stone ~0.3ft thick 1.6-2.6: Brn Silty f. Sand	Cap Sample 2.0, 2.5

Project:	Waterfront Park	Boring ID Number:	SB SB-12
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	24/4	0-0.8 : Typical Cap 0.8-1.8 : crushed stone 1.8-2.4 : Brn Silty Sand & R Gravel	Sample 1.9, 2.3

Project:	Waterfront Park	Boring ID Number:	SB-17	
Boring Location:	---	Elevation & Datum:		
Drilling Contractor	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.4/4	0 - 0.8: Typ. Cap 0.8 - ~~0.6~~ 1.0: Crushed Stone ~~0.6~~ 1.6 1.6 - 2.4: Brn M. Sand, few R. Gravel	Sample 1.8, 2.3

Project:	Waterfront Park	Boring ID Number:	SB-14	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	3/4	0 - 1.7 : Typ. Sandy Cap 1.7 - 3 : Brn f-m. Sand, tr. coal frags, some R. Gravel	Sample 2.0, 3.0 ↑ Dup @ 12:02 -03

Project:	Waterfront Park	Boring ID Number:	SB-15
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.5/4	0-1 : Typ. Cap 1-1.5 : Orange M. Sand, some R. gravel 1.5-2.5 : Brn SILTy f. sand ? R. gravel	Sample 1.5, 2.5

Project:	Waterfront Park	Boring ID Number:	SB-16
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.2 ft / 4 (50)	0 - 0.5 - Typ. Cap } cap 0.5 - 0.8: White m. Sand 0.8 - 0.9: Dk brn. Silt, some sand, coal @ frags ~~0.8~~ 0.9 - 1.2: Tan f.m. Sand 1.2 - 1.8: Dk brn Sand, SILT 1.8 - 2.2: Brn m. Sand	Sample 1.4, 2.2

Project:	Waterfront Park	Boring ID Number:	SB-17
Boring Location:	---	Elevation & Datum:	
Drilling Contractor	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	1.9/4	0-0.4 : Typ. Cap 0.4-1.0 : Brn m. Sand w/ wood frags (rotten) 1.0-1.9 : Brn Silt ? Sand	Sample 0.9, 1.9

Project:	Waterfront Park	Boring ID Number:	SB-18
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	3/4	0-1: Typ. Cap 1-2: Brn Silt, some sand & R gravel 2-3: Brn f-m Sand & some silt	Sample 1.5, 2.5

Project:	Waterfront Park	Boring ID Number:	SB-19
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.6/4	0-0.7 : Topsoil Cap? 0.7-1.6 : Dk brn Silt, some f. Sand 1.6-2.6 : Brn f. Sand, some Silt	Sample ~~1.3, 2.3~~ ID 1.2, 2.2

Project:	Waterfront Park	Boring ID Number:	SB-20
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.1/4	0 - 0.3 : Topsoil (Cap?) 0.3 - 1.4 : Brn Silt ? Sand & V.f. gravel + coal frags 1.4 - 2.1 : Wet m. Brn. Sand, some Silt	Sample ~~1.8~~, ② ~~1.5, 2.0~~ 0.8, 1.8

Project:	Waterfront Park	Boring ID Number:	SB-21
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.6/4	0-0.3: Topsoil & Gravel } Cgl ? 0.3-0.9: Crushed Stone } 0.9-1.8: Brn M. Sand & f. gravel Some Silt 1.8-2.6: Tan M. Sand. Some Silt	Sample 1.4-2.4

Project:	Waterfront Park	Boring ID Number:	SB-22
Boring Location:	---	Elevation & Datum:	
Drilling Contractor	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	28/4	0-0.2 - Topsoil 0.2-0.7: crushed stone } cap? 0.7-1.7: Dk Brn f. sand & f. R. gravel + coal frass some silt 1.7-2.8: Tan M. Sand	Sample 1.2, 2.2

Project:	Waterfront Park	Boring ID Number:	SB-23
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.6/4	0-0.3 : Top Soil } cap 0.3-0.4 : crushed stone } 0.4-1.1 : m-c Sand, Dk brn, some silt/gravel coal frags/ash (?) 1.1-2.6 : Tan m. Sand some silt	sample 0.9, 1.9

Project:	Waterfront Park	Boring ID Number:	SB-24
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.8/4	0-0.4 : TOPSOIL (cap?) 0.4-1.4: DK brn SILTY, sandy f. gravel coal fragg 1.4-1.8: DK brn SILT (V. faint Pet. odor) 1.8-2.8: Tan m. Sand	Sample 0.9, 1.9

Project:	Waterfront Park	Boring ID Number:	SB-25	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	29/4	0-0.7: TOPSOIL (cap?) 0.7-0.9: tan f. Sand 0.9-1.7: DK. Brn SILT w/ sand, some f. Gravel coal frags 1.7-2.9: Brn. M. SILTy f. Sand	Sample 1, 2, 22

Project:	Waterfront Park	Boring ID Number:	SB-26
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 8-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	3.2/4	0-0.6: TOPSOIL 0.6-1.0: f. sand, f. gravel } Cap? 1.0-1.7: DK Brn SILT w/ coal frags 1.7-1.8: Brn M. Sand 1.8-3.2: SAA w/ lenses of grey silt	Sample 1.5, 2.5

Project:	Waterfront Park	Boring ID Number:	SB-27
Boring Location:	—	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.1/4	0-0.2 : TOPSOIL (cap?) 0.2-2.1 : Brn SILTY f. Sand, some gravel	Sample 0.7, 1.7

Project:	Waterfront Park	Boring ID Number:	SB-28
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.7/4	0-0.5 : TOPSOIL (cap?) 0.5-1.2 : Tan f. Sand & f. gravel silty 1.2-1.4 : Dk brn silty silt 1.4-1.9 : coal frags, coal dust 1.9-2.7 : grey m. Sand, Ref. odor	Sample 1.0, 2.0 ↑ Dup-04 @ 12:05

Project:	Waterfront Park	Boring ID Number:	SB-29
Boring Location:	—	Elevation & Datum:	
Drilling Contractor	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.9/4	0-0.6: V. fine silty sand, some f. gravel	Sample
		0.6-1.2: gravel, possible coal frags	0.8
		1.2-2.0: Brn silty f. sand some f. gravel	1.8
		2.0-2.9: grey f. sand, some gravel, pet. odor (faint) @ fainter than SB-29 grey wood in tip	

Project:	Waterfront Park	Boring ID Number:	SB-30
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	3/4	0-0.5 = Sandy Topsoil 0.5-1.0: lt brn Silty Coarse Sand / f. Gravel 1.0-1.7: Dk Silt ? coal / fines 1.7-3.0: grey f. Sand. some Silt, faint Pet odor	Sample 1.0 2.0

Project:	Waterfront Park	Boring ID Number:	SB-31
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.6/4	0-0.2: dry SILT ? f. Sand (lt. Brn) 0.2-2.6: Brn SILT ? f. Sand (moist	sample 0.5 1.5

Project:	Waterfront Park	Boring ID Number:	SB-32
Boring Location:	---	Elevation & Datum:	
Drilling Contracto	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2.5/4	0-0.2 : TOPSOIL 0.2-1.6: V.F. Tan Sand ? Silt some gravel 1.6-2.1 : wood brass 2.1-2.5 : Tan Silt ? coarse sand	Sample 0.7 1.7

Project:	Waterfront Park	Boring ID Number:	SB-33
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation Ground Surface	Notes/Details/Comments
0-4	2.7/4	0 - 0.4 : TOPSOIL 0.4 - 0.6 : crushed stone } Cap 0.6 - 2.4 : LT. Brn m. Sand, few SILT 2.4 - 2.7 : SAA w/ grey/blue SILT chunks ? faint PET odor	Sample 0.9 1.9

Project:	Waterfront Park	Boring ID Number: SB-34	
Boring Location:	---	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 9-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2/4	0-0.3 : Topsoil (cap?) 0.3-0.9 : Dk brn f-c. Sand & coal frags 0.9-1.5 : Brn f. Sand, some gravel 1.5-2 : Brn f. Sand & coal frags (wood/root)	Sample 0.8 1.8

Project:	Waterfront Park	Boring ID Number:	SB-26	
Boring Location:	---	Elevation & Datum:		
Drilling Contracto	Eastern Analytical	Date Started:	4-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:		Comments:
Drilling Equipmen	Geoprobe	Depth to H2O:		
Sample Method:	Butylrate core liner	Logged By:	JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	2/4	0-0.3 : topsoil (Cgr 2) 0.3-0.7: Gray f. Sand & Ang gravel 0.7-1.2: Dk brn/blk f. sand & coal frags wood/root 1.2-2.0: Brn f. Sand some silt	Sample 0.8 1.8

Project:	Waterfront Park	Boring ID Number:	SB-36
Boring Location:	—	Elevation & Datum:	
Drilling Contractor:	Eastern Analytical	Date Started: 4-17-15	Date Finished:
Drilling Method:	Direct Push	Total Depth:	Comments:
Drilling Equipment:	Geoprobe	Depth to H2O:	
Sample Method:	Butylrate core liner	Logged By: JEM	

Depth (ft)	Recovery	Description: Name, color, moisture, structure, geologic interpretation	Notes/Details/Comments
		Ground Surface	
0-4	3/4	0-0.8: TOPSOIL & crushed STONE (cap?) 0.8-1.5: DK SILT w/ coal ash frags some f. Sand 1.5-3.0: Brn/Orng f-m Sand, some SILT few R. f. gravel	Sample 1.3 2.3

JEM #6

Location Burlington, VT Date 9-18-15

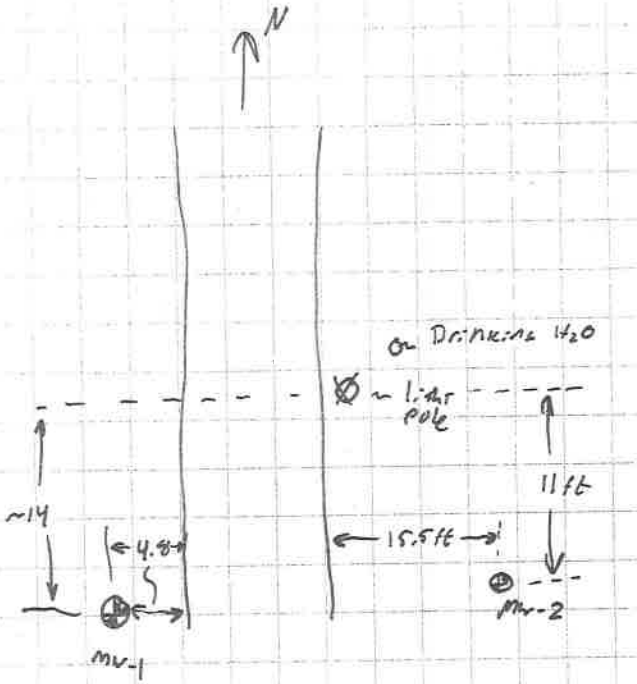
Project / Client Waterfront Park

JEM - Jeremy Matt

7:00 - JEM onsite

Clear, calm. ~ 65°f

- Calibrate instruments



10:10 - MW-EB-01 collected @ 1010

- Package sample containers
- repack truck
- Transfer samples to courier

11:00 - JEM off site

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Ground Water Monitoring Well Sample Collection Record

Project Name: Waterfront Park Project #: 3-3049-03 Well ID: MW-01

Site Location: Burlington, VT Sampler: JEM Date: 9-18-15

Weather Conditions: Clear, Calm, ~70°F Time on Site: 7:50

MW-04 @1200

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) Top of PVC Casing Depth to water below MP (ft): 4.60

Total well depth (ft): 12.83 Well Dia.(in): 1 Length of water column in well (ft): 8.23

Gallons per foot[1]: 0.041 Well volume (gal): 0.34

2. PURGING DATA: Method: Peristaltic Pump Stabilized intake depth: ~8.5

Purge Volume @ 3 well volumes: 3.86 (gal) Purge Rate: 200 (ml/min)

Parameter equipment: YSI, Lamotte Turbidimeter

Time	Depth (ft.)	volume removed ( )	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
815								
~~805~~ @	4.60	START	PUMP	ON				
820	4.65	1.0	16.84	1,967	0.34	6.90	-79.5	20.4
825	4.65	2.0	16.69	1,971	0.30	6.86	-82.4	16.7
830	4.65	3.0	16.60	1,966	0.24	6.81	-88.9	11.2
835	4.65	4.0	16.55	1,959	0.23	6.78	-92.3	10.5
840	4.65	5.0	16.60	1,955	0.28	6.75	-98.4	4.45
845	SAMPLE	COLLECTED						

Purge Water Disposal Method Ground Comments (e g. color, odor): none / none

3. SAMPLE COLLECTION: Method: Peristaltic Pump Sample Time: 8:45

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)
–	–	–	–	–

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	EAI 9-18-15	Courier	1/1L Amber	IcE	PCB 8082
"	"	"	"	"	PAH 8270

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: Dup collected @ 1200

F:\STANDARD\JCO Forms\MW GW sample form.doc

Time Off Site 910

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602 USA

Phone: (802) 229-4600
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Ground Water Monitoring Well Sample Collection Record

Project Name: Waterfront Park Project #: 3-3049-03 Well ID: MW-02

Site Location: Burlington, VT Sampler: JFM Date: 9-18-15

Weather Conditions: Clear, lt. breeze, ~75°F Time on Site: 910

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) Top of PVC Casing Depth to water below MP (ft): 5.03

Total well depth (ft): 12.81 Well Dia.(in): 1 Length of water column in well (ft): 7.78

Gallons per foot[1]: 0.041 Well volume (gal): 0.32

2. PURGING DATA: Method: Peristaltic Pump Stabilized intake depth: ~8.5

Purge Volume @ 3 well volumes: 3.63 L (gal) Purge Rate: 200 (ml/min)

Parameter equipment: YSI, Lamotte Turbidimeter

Time	Depth (ft.)	volume removed ( )	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
915	START	PUMP ON						
920	5.03	1.0	15.99	1,740	0.28	6.71	-16.1	14.9
925	5.04	2.0	16.44	1,757	0.28	6.63	-16.5	12.3
930	5.05	3.0	16.23	1,769	0.31	6.58	-17.3	7.36
935	5.05	4.0	16.61	1,782	0.32	6.57	-19.5	6.50
940	SAMPLE COLLECTED							

Purge Water Disposal Method ground Comments (e g. color, odor): none / none

3. SAMPLE COLLECTION: Method: Peristaltic Pump Sample Time: 940

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)
—	—	—	—	—

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	EAI 9-18-15	Courier	1 X 1L Amber	ICE	PCB 8082
"	"	"	"	"	PAH 8270

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments:

Time Off Site 10:00

Turb Cal

Standard	Reading
0	0.11
15	14.5
100	100
750	750

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YSI CALIBRATION SHEET **Job Name:** **Job # :**

Equipment ID : YSI # **Serial # :**

Brand of Standard		----------	YSI	Oakton	Oakton	Oakton	Oakton	Oakton	YSI	YSI	YSI		Oakton
Lot #		----------	–	RP-1	–	RP-1	SZ-1	SY-1	13L100447	–	–		SC-1
Expiration Date		----------	–	11-15	–	11-15		2-16	11-15	–	–		12-15
Date	Time	Initials	YSI Temp. - °C	Specific Cond. 1.413 ms/cm	Specific Cond. ____ ms/cm	pH 7.00	pH 4.01	pH 10.00	ORP-Zobell Solution (200-275mV) Reading / target	Barometric Pressure (mmHg)	100% D.O. (%)	100% D.O. (mg/L)	Zero O_2 Solution (mg/L)
Calibration	7:00	JEM	24.26	1.413	–	6.99	4.00	9.98	231 / 231	759.6	100.0	9.06	0.31
End of Day Check													
Calibration													
End of Day Check													
Calibration													
End of Day Check													
Calibration													
End of Day Check													
Calibration													
End of Day Check													

NIST Certified Thermometer Check (Date/Results): _____ (must be completed at least once per year)

Notes: Calibration order is left to right on chart. The optimum pH mV range for pH7 is -70 to +70 after calibration.