

March 22, 2019

John R. Strang, P.E. NYSDEC Region 4 Division of Environmental Remediation 1130 North Westcott Road Schenectady, New York 12306-2014

Re: NYSDEC Comment Response Letter West Well and Parking Area (Amphenol), Site No. 413010 Amphenol Aerospace Facility, 40-60 Delaware Avenue, Sidney Revised Draft PCB Contaminated Concrete Slab Remedial Work Plan

File: 1153.010.001

Dear Mr. Strang:

Amphenol has reviewed the New York State Department of Environmental Conservation (NYSDEC) letter dated March 18, 2019 regarding the Revised Draft PCB Contaminated Concrete Slab Remedial Work Plan and offers the following responses:

1. <u>Concrete Removal</u>

NYSDEC Comment:

It is the Department's understanding that the slab will be fully removed from Area B-1 and Area B-5 (i.e., to the underlying soil or sub-base material). Based on the PCB analytical results from the bottom 1-inch of concrete at the B-5 and B-5-E0 sample locations, the Department requires post-excavation confirmatory sampling of the material (sub-base material or soil or whatever is encountered immediately below the slab). Confirmatory samples should be collected and analyzed for PCBs from Area B-1 (requesting eight confirmatory samples) and Area B-5 (requesting twelve confirmatory samples). The confirmatory sample results will be evaluated to determine if further removal action is required pursuant to Commissioner Policy CP-51, which allows for a level of 25 ppm total PCBs in subsurface soil below cover at Industrial Use sites.

Response:

Subsequent to removal of the concrete slab from Areas B-1 and B-5, Amphenol will collect confirmation PCB soil samples from the top 6-inches of the underlying substratate. A total of 8 confirmation samples will be collected from Area B-1 and 12 confirmation samples from Area B-5. Sample locations will be spaced equally across each exposed area of concern. In the event that a confirmation sample does not meet Industrial cleanup objectives of 25 ppm, an additional soil sample from that location will be collected from a deeper interval and analyzed for PCB



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concentrations. Soils found to be in excess of Industrial use standards will be removed and disposed of accordingly at an appropriate landfilling facility.

2. <u>Concrete Repair</u>

NYSDEC Comment:

The excavation areas are to be temporarily covered with plastic sheeting while confirmatory samples are analyzed, and the results evaluated. The installation and compaction of sub-base material and reinforced cast-in-place concrete may commence pursuant to the subject draft work plan upon receiving Department approval.

Response:

It is understood that plastic sheeting will be installed subsequent to the removal of concrete and the collection of confirmatory substrate samples. Once confirmation samples identify that Industrial PCB standards are met, the plastic sheeting will remain in place and be used as a vapor barrier prior to backfilling.

Sincerely,

BARTON & LOGUIDICE, D.P.C.

Bryce D. Dingman, P.G.

Managing Hydrogeologist

BDD/akg

cc: Joseph Bianchi, Amphenol James Mickam, JTM Associates Joshua Haugh, DEC Region 4 Scott Nostrand, B&L



February 25, 2019

John R. Strang, P.E. NYSDEC Division of Environmental Remediation 1130 North Westcott Road Schenectady, New York 12306

Re: PCB Contaminated Concrete Slab Remedial Work Plan & Remedial Design Amphenol Corporation 40-60 Delaware Avenue Sidney, New York

Dear Mr. Strang:

Barton & Loguidice, D.P.C. (B&L) is submitting this Remedial Work Plan and Remedial Design on behalf of the Amphenol Corporation to address two areas of PCB contaminated concrete slab from the former main plant building located at 40-60 Delaware Avenue, Sidney, New York (Figure 1). The purpose of this document is to define the means and methods proposed to remove two areas of PCB contaminated concrete and replace with new concrete to encapsulate the underlying soil and match the surrounding grade. The New York State Department of Environmental Conservation (NYSDEC) has established a 25 parts per million (ppm) cleanup criteria for industrial sites. Slab areas documented to be < 25 ppm will remain on-site. Slab areas with concentrations >25 ppm but <50 ppm will be removed and disposed of at a regulated solid waste management facility. PCB contaminated concrete > 50 ppm is considered TSCA waste and will require disposal at a regulated chemical waste landfill.

Site Background Information

Two areas of concrete slab from the former Amphenol main plant building were identified for investigation of PCB impacts based on pre-1978 historical manufacturing operations and observed concrete staining. The first area of concern is located in the northwest corner of the former building. This area was used for cutting oil filtering and reclaim. The second location is situated on the eastern side of the former building footprint where the Gridley Screw Machine was located. Former factory operations in this area consisted of cutting bar stock and manufacturing of electrical components which used oil lubricants. Similar to the northwestern area of interest, equipment lubricants likely leaked onto the concrete surface resulting in the observed staining and subsequent PCB impacts.

At total of 37 concrete dust/chip samples were collected between September 6 and December 18, 2018, from the areas of concern identified in Figures 2 and 3. Samples were collected using a hammer drill to break up the concrete surface into dust and chips, which were collected and analyzed for PCBs. Table 1 summarized the laboratory analyses. Concrete dust/chip samples were analyzed by Adirondack Environmental Services, Inc., located in Albany, New York. Concrete core samples were submitted to Alpha Analytical, located in Massachusetts. All samples were analyzed for PCBs using EPA Method 8082A. A summary of PCB sample results have been presented in Table 1; laboratory analytical reports are provided in Appendix A.



The December 3, 2018 sampling event included collecting 4-inch diameter cores of the slab. Samples were collected from three locations (Figures 2 and 3); one sample from the northwest corner (B-1) and two from the eastern area (B-5 and B-5-E0). Following collection a 1-inch cross-section of each core was submitted for PCB analysis. Cross-sectional samples were submitted from the 0 to 1 inch depth interval, the 1 to 2 inch depth interval, and the 2 to 3 inch depth interval. The lab was directed to only analyze the 1- to 2-inch interval, with the subsequent samples available for further analysis if desired.

Elevated concentrations of PCBs were observed within the two areas of concern, which are around and adjacent to sample locations B-1 and B-5. PCB levels ranged from 0.2 ppm to 10,000 ppm.

The western area of concern (B-1) has been defined with the proposed remedial limits identified in Figure 2. Concrete dust/chip and one core sample collected from area B-1 ranged in concentrations of 0.2 ppm to 3500 ppm. PCB concentrations for a portion of the B-1 area were found to be > 25 ppm and < 50 ppm and will be disposed of at a regulated solid waste disposal facility. The remaining B-1 slab area contains PCB concentrations > 50 ppm and will require disposal at a chemical waste landfill.

The eastern area (B-5) has been delineated to the north, east, and west based on observed sample concentrations (<25 ppm Industrial Cleanup Objectives). The southern boundary of the B-5 area was characterized as the former die casting wall, which was a load bearing wall with an underlying footer. All operations north of the die casting wall used PCB oils in manufacturing equipment. Operations south of the die casting wall were related to storage, bathrooms, aluminum die casting, and are not anticipated to result in impacts to the concrete surface. All observed impacts north of the die casting wall would be cut off from the south side of the wall by the subsurface footer.

On Thursday February 14, 2019 the bottom 1-inch of the aforementioned core samples were submitted to Alpha Analytical to determine PCB concentrations from the lower portion of the concrete slab. Analytical results revealed a concentration <25 ppm from location B-1. The bottom 1-inch of concrete core samples collected from locations B-5 and B-5-EO were <50 ppm and >50 ppm, respectively. Core sample results are summarized in Table 1; laboratory analytical results are provided in Appendix A.

Proposed PCB Remedial Cleanup Measures and Design

Concrete slab removal will be performed on the two identified areas of concern. Remedial boundaries have been established for areas B-1 and B-5 and are depicted on Figures 2 and 3, respectively. Area B-5 requires immediate action based on anticipated development activities involving the installation of solar panels starting in the vicinity of the eastern slab area. Area B-1 remediation will be completed subsequent to the B-5 area.



Concrete Removal:

Concrete dust/chip and core samples collected from the B-1 area range in concentration from 0.2 ppm to 3500 ppm. PCB concentrations for a portion of the B-1 area were found to be >25 ppm and < 50 ppm and shall be managed and disposed of at a state regulated municipal solid waste facility. The remaining B-1 slab area contains PCB concentrations >50 ppm and will require disposal at a chemical waste landfill. Concrete dust/chip and core samples collected from the B-5 area, range in concentration from 61 ppm to 10,000 ppm. Based on these concentrations (>50 ppm), the concrete slab within this area will be managed as PCB remediation waste and disposed of at a chemical waste disposal facility.

Removal of concrete from the B-1 and B-5 areas will be saw cut along the proposed delineated boundaries. All saw cutting activities will be performed with a wet saw to eliminate the generation of dust. The areas of contaminated concrete will be demolished using a hoe-ram attachment on an excavator to break the slab into manageable pieces of concrete. Water will be misted over the surface of the concrete during slab demolition to prevent the generation of dust or dust migration. An upwind and downwind particulate monitor will be established during demolition operations to monitor contractor dust mitigation effectiveness. An initial particulate background concentration will be recorded prior to the commencement of work each morning to establish a daily background level for comparison purposes.

The concrete rubble will be removed by the contractor for disposal at a permitted facility. PCB contaminated concrete rubble will be live loaded into trucks and disposed of at an approved disposal facility. No material stockpiling is anticipated during the course of the project. The selected contractor will be responsible for providing all manifests documenting disposal to the Owner.

The work area will be surrounded by a temporary fabric fencing barrier to delineate the work zone. Only authorized personnel will be allowed behind the temporary barrier.

Based on the PCB analytical results from the B-5 and B-5-E0 concrete core bottom samples, it is proposed to encapsulate the underlying soil from these areas with a new concrete replacement slab. This is consistent with the remedial containment approach used at other locations on-site (West Parking lot and 90-day hazardous waste storage area).

All equipment used in the demolition process will require decontamination prior to removal off-site. A decontamination pad will be constructed by the contractor for cleaning of contaminated equipment. All runoff from decontamination procedures will be captured. Decontamination water will be pumped from the decontamination pad into 55 gallon drums for disposal. The selected contractor will be responsible for collecting representative samples of the decontamination water and disposal in accordance with all local, state, and federal regulations. Manifests documenting disposal quantities will be provided to the Owner.



Upon project completion the contractor will be responsible for take down of the decontamination pad and disposal operations.

Please refer to the remedial drawings included in Appendix B, which further outline contractor procedures required for concrete removal and disposal.

Transportation:

Transportation of PCB contaminated material will be handled by a selected contractor containing a current NYSDEC Part 364 Waste Transporter Permit. Manifests will be prepared by the selected contractor, documenting transportation and disposal of PCB contaminated material from the site to the approved regulated landfill facility.

Disposal Facility:

PCB-contaminated media in excess of 50 ppm is considered a TSCA waste, and therefore will require disposal at a chemical waste landfill permitted by the EPA under section 3004 of RCRA, or by a State authorized landfill under section 3006 of RCRA, or a PCB disposal facility approved under 40 CFR 761. The Wayne Disposal facility is the closest chemical waste landfill with the ability to accept TSCA level PCB material at this time. Wayne Disposal Inc. is located in South Belleville, Michigan.

Remediation area B-1 contains a portion of concrete with PCB concentrations greater than 25 and less than 50 ppm. Since the levels are below hazardous waste levels, these areas of concrete will be segregated and disposed of separately at a permitted solid waste disposal facility capable of accepting non-TSCA regulated PCB materials.

Concrete Repair:

Following removal of PCB contaminated concrete, the selected contractor will be responsible to furnish all labor, materials and equipment for the installation and compaction of subbase material and reinforced cast-in-place concrete. Cold weather conditions will likely apply during the placement of concrete for the B-1 and B-5 replacement area and will require heated concrete, if temperatures are below 40°F. All portions of freshly poured concrete shall be continually maintained at a temperature of not less than 50°F for seven days. Specified temperature shall be maintained by heated enclosures, insulating blankets, or whatever approved methods are required to attain the specified results. Based on future use of the site, it is proposed that a Class D concrete with a 28 day compressive strength of 2,500 psi be installed.

Prior to placement of the concrete fill the selected contractor will be responsible for the temporary placement of poly sheeting over the remedial areas until the area has been prepared and ready to receive new concrete. The selected contractor will be responsible for the installation of a 2-inch layer of



granular fill over the existing ground surface. The granular fill will require compaction using a plate tamper to produce an acceptable subbase surface. Where the new concrete will meet the existing concrete, holes will be drilled into the existing concrete and steel dowels will be installed. The dowels will be greased on the end installed into the existing concrete to allow for movement. The dowels will be installed at the frequency outlined in the remedial design drawing provided in Appendix B. A 4-inch x 4-inch wire mesh will be tied into the steel doweling to provide stability of the replacement concrete pad. Steel mesh will be placed no deeper than 2-inches from the finished surface. Concrete will be poured to matching surrounding grade.

Schedule:

The remedial construction design has been provided as an appendix to this remedial work plan. Following the Department's review and approval of the remedial work plan and design, B&L will make arrangements with an environmental contractor to complete the referenced work. Completion of work for the B-1 and B-5 remediation is proposed to be completed in March 2019, to avoid interference with the solar panel installation process. It is estimated that the removal and replacement of concrete in the B-1 and B-5 area should take approximately 3 weeks to complete.

Should you have any questions regarding the presented remedial approach or design, please contact Bryce Dingman at (518)-300-0770 or myself at (315)-457-5200 to discuss.

Sincerely,

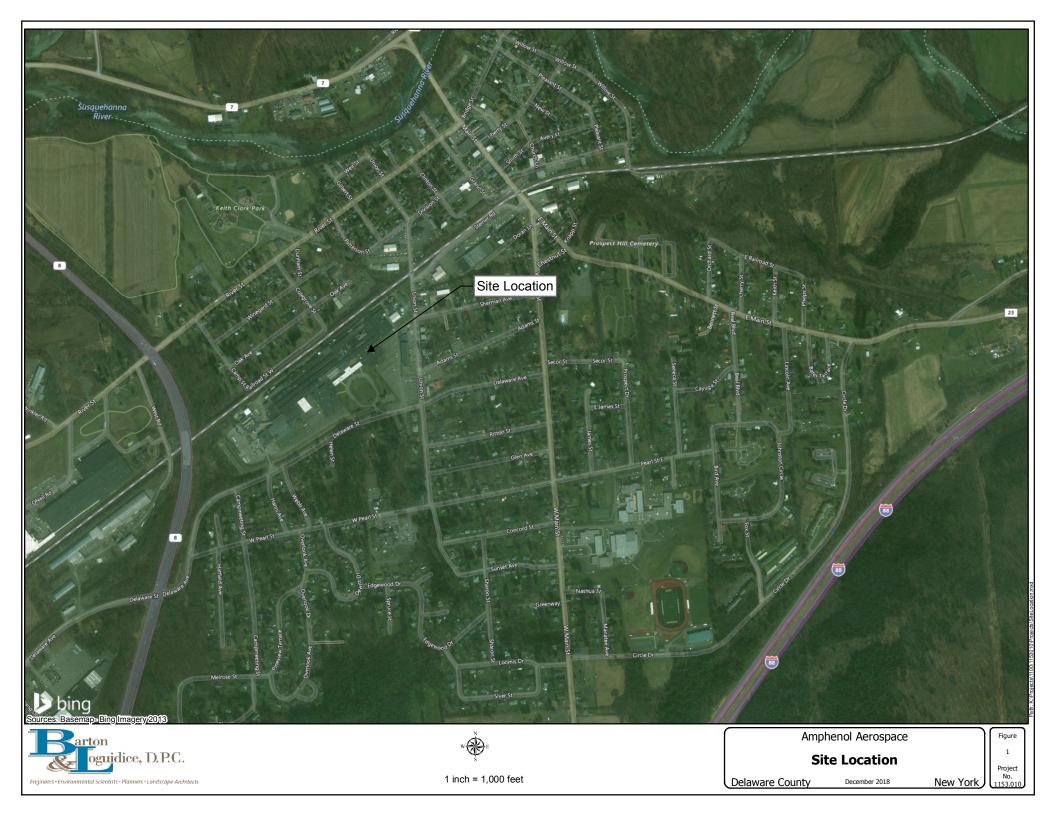
BARTON & LOGUIDICE, D.P.C.

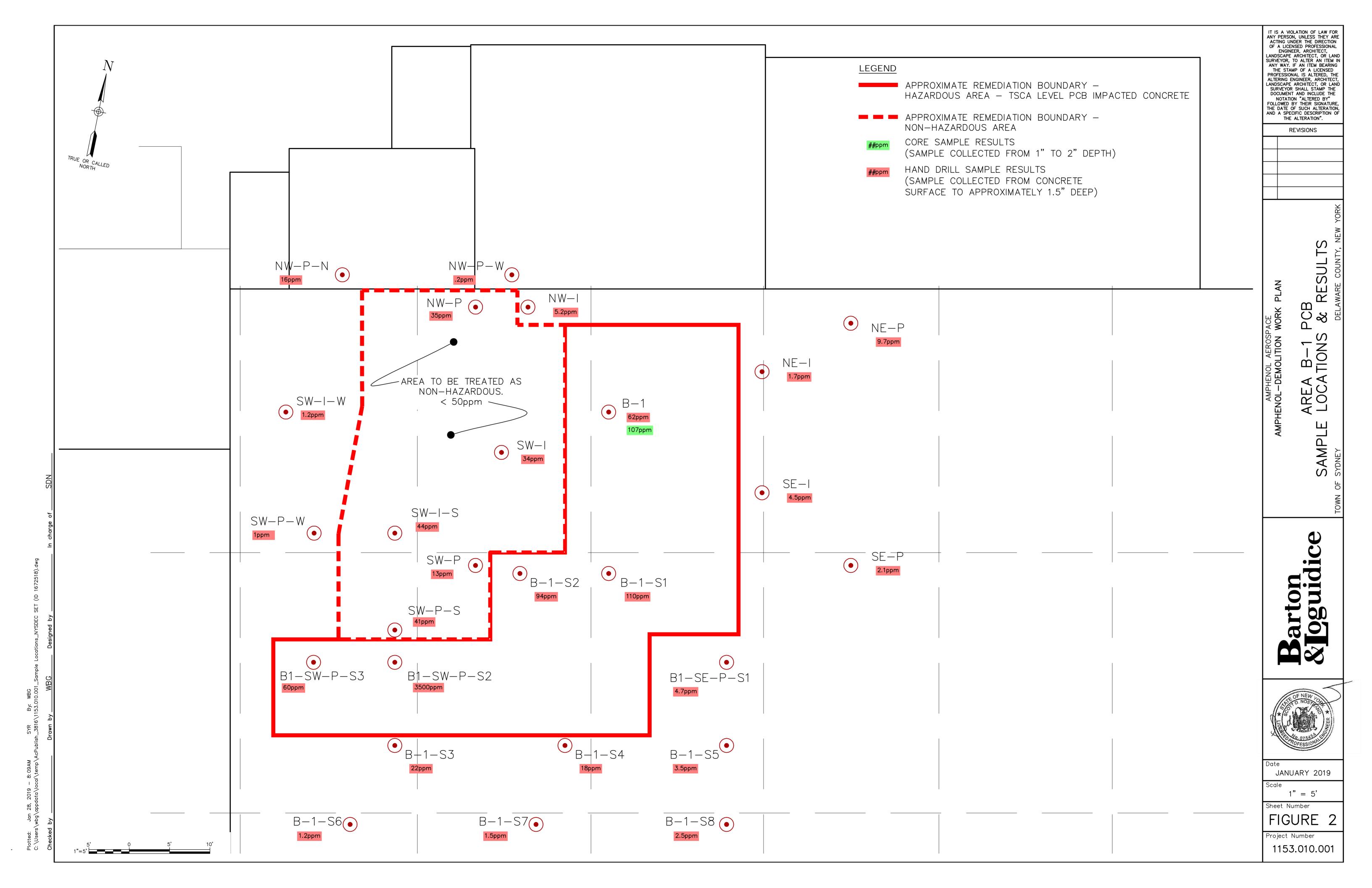
Scott D. Nostrand, P.E. Senior Vice President

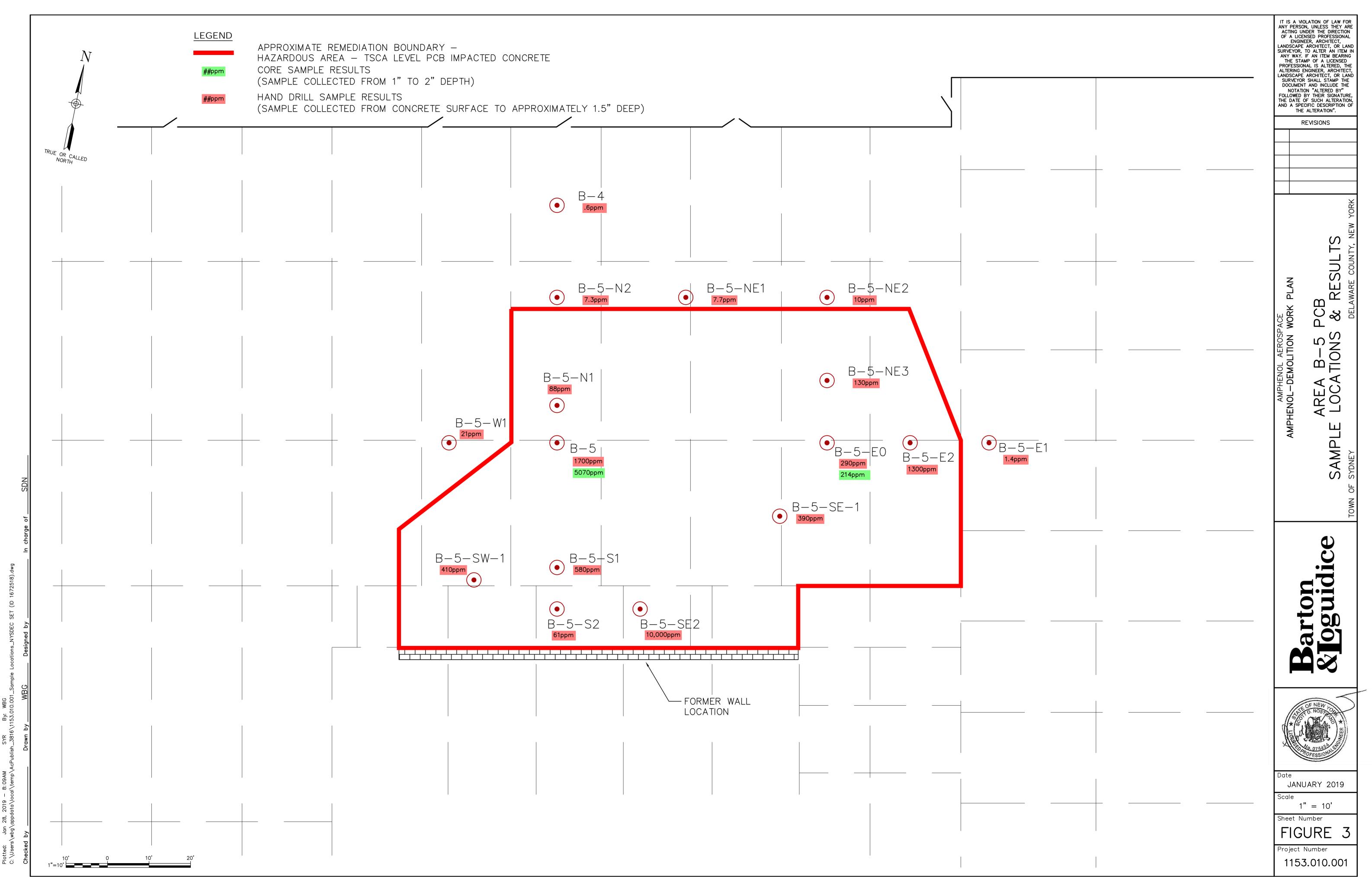
SDN/BDD/akg Attachments

Bryce D. Dingman, P.G. Managing Hydrogeologist

Figures 1-3







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Table 1 – PCB Results Summary

Table 1 PCB Results Summary

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| Projec | t Number: | | | | 1 | 1153.010.00 ⁻ | 1 | | | |
| Analys | sis Method | | | | PC | Bs - EPA 80 | 082 | | | |
| | | | | | | 9/6/2018 | | | | |
| Clier | nt Sample ID: | B-1 | B-2 | B-3 | B-4 | | | | | |
| | Matrix: | chip/dust | chip/dust | chip/dust | chip/dust | | | | | |
| | DATE: | 9/6/2018 | 9/6/2018 | 9/6/2018 | 9/6/2018 | | | | | |
| Analyte | Units | | | | | Results | | | | |
| Aroclor 1016 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1221 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1232 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1242 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1248 | ug/kg | 62000 | 1000 | 390 | 600 | | | | | |
| Aroclor 1254 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1260 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1262 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1268 | ug/kg | ND | ND | ND | ND | | | | | |
| Total PCBs | ug/kg | 62000 | 1000 | 390 | 600 | | | | | |
| | | | | • | • | 10/23/2018 | • | • | • | • |
| | nt Sample ID: | (B-1) NW-P | (B-1) NE-P | (B-1) SE-P | (B-1) SW-P | 10/23/2018 (B-1) NW-I | (B-1) NE-I | (B-1) SE-I | (B-1) SW-1 | B-5 |
| Clier | nt Sample ID: Matrix: | (B-1) NVV-P chip/dust | (B-1) NE-P chip/dust | (B-1) SE-P chip/dust | · · / | (B-1) NVV-I chip/dust | (B-1) NE-I chip/dust | (B-1) SE-I chip/dust | (B-1) SVV-1 chip/dust | B-5 chip/dust |
| | DATE: | 10/23/2018 | 10/23/2018 | 10/23/2018 | chip/dust 10/23/2018 | 10/23/2018 | 10/23/2018 | 10/23/2018 | 10/23/2018 | 10/23/2018 |
| Analyte | Units | 10/23/2018 | 10/23/2018 | 10/23/2018 | 10/23/2018 | Results | 10/23/2018 | 10/23/2018 | 10/23/2018 | 10/23/2018 |
| Analyte Aroclor 1016 | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1016 Aroclor 1221 | ug/kg ug/kg | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| Aroclor 1221 Aroclor 1232 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1232 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1248 | ug/kg | 35000 | 9700 | 2100 | 13000 | 5200 | 1700 | 4500 | 34000 | 1700000 |
| Aroclor 1254 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1260 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1262 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1262 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total PCBs | ug/kg | 35000 | 9700 | 2100 | 13000 | 5200 | 1700 | 4500 | 34000 | 1700000 |
| TOTALECOS | ug/kg | 33000 | 3700 | 2100 | 13000 | 5200 | 1700 | 4300 | 34000 | 1700000 |
| | | | | | | 11/5/2018 | | | | |
| Cliar | | | | | B-5 E1 | | | | | |
| Clie | nt Sample ID: | B-5 S1 DC | B-5 N1 | B-5 W1 | D-0 E I | B-5 S1 | NW-P-N | NW-P-W | SW-I-W | SW-I-S |
| Cile | nt Sample ID: Matrix: | B-5 S1 DC chip/dust | B-5 N1 chip/dust | B-5 W1 chip/dust | chip/dust | | chip/dust | NW-P-W chip/dust | SW-I-W chip/dust | SW-I-S chip/dust |
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| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND 580000 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND ND ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND 390000 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 44000 ND ND ND ND ND ND |
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| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Total PCBs | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND ND S80000 S80000 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND 88000 88000 88000 SW-P-W | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND ND 21000 B-5 S2 | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND ND ND ND B-5 N2 | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND ND ND 390000 390000 11/8/2018 B-5 EO | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND 44000 ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Total PCBs | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND S80000 S80000 | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND ND 88000 88000 SW-P-W chip/dust | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND 21000 B-5 S2 chip/dust | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND 1400 B-5 N2 chip/dust | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND ND 390000 ND ND ND S0000 11/8/2018 B-5 EO chip/dust | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 44000 ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Total PCBs | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND ND S80000 S80000 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND 88000 88000 88000 SW-P-W | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND ND 21000 B-5 S2 | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND ND ND ND B-5 N2 | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND ND ND 390000 390000 11/8/2018 B-5 EO | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1268 Total PCBs Clier | Matrix: DATE: Units Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND S80000 S80000 | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND ND 88000 88000 SW-P-W chip/dust | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND 21000 B-5 S2 chip/dust | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND 1400 B-5 N2 chip/dust | B-5 S1 chip/dust 11/5/2018 Results ND ND ND 390000 ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1268 Total PCBs Clier Analyte | Matrix: DATE: Units Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg DATE: | chip/dust 11/5/2018 ND ND ND 580000 ND ND ND 580000 S8W-P-S chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND ND ND S8000 SW-P-W chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND ND ND 21000 ND ND ND 21000 B-5 S2 chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND ND 1400 B-5 N2 chip/dust 11/8/2018 | B-5 S1 chip/dust 11/5/2018 Results ND ND ND 390000 ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1268 Total PCBs Clier Analyte Aroclor 1016 | Matrix: DATE: Units Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg ht Sample ID: Matrix: DATE: Units Ug/kg | chip/dust 11/5/2018 ND ND ND 580000 ND ND ND S80000 S8W-P-S chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND S8000 SW-P-W chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND ND 21000 B-5 S2 chip/dust 11/8/2018 | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND 1400 B-5 N2 chip/dust 11/8/2018 | B-5 S1 chip/dust 11/5/2018 Results ND ND 390000 ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1268 Total PCBs Clier Analyte Aroclor 1016 Aroclor 1221 | Matrix: DATE: Units Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg to Sample ID: Matrix: DATE: Units Ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 ND ND ND ND ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND ND S8000 SW-P-W chip/dust 11/8/2018 ND ND | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND 21000 B-5 S2 chip/dust 11/8/2018 ND ND | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND 1400 B-5 N2 chip/dust 11/8/2018 ND ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND 390000 ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Total PCBs Clier Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 | Matrix: DATE: Units Ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND ND ND ND ND S80000 SW-P-S chip/dust 11/8/2018 ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND ND ND 88000 88000 SW-P-W chip/dust 11/8/2018 ND ND ND | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND ND 21000 B-5 S2 chip/dust 11/8/2018 ND ND ND | chip/dust 11/5/2018 ND ND ND 1400 ND ND ND ND 1400 B-5 N2 chip/dust 11/8/2018 ND ND ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND ND | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1268 Total PCBs Clier Analyte Aroclor 1016 Aroclor 1221 Aroclor 1242 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg to ATE: Units DATE: Units ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND ND ND ND ND S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 ND ND ND ND ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND ND ND 88000 ND ND SW-P-W chip/dust 11/8/2018 ND ND ND ND | chip/dust 11/5/2018 ND ND ND 21000 ND ND ND 21000 B-5 S2 chip/dust 11/8/2018 ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND ND ND 1400 ND 1400 B-5 N2 chip/dust 11/8/2018 ND ND ND ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Total PCBs Clier Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S8000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 S8000 S8000 S80000 S80000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S8000 S800 | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND 88000 SW-P-W chip/dust 11/8/2018 ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND 21000 ND ND 21000 ND ND ND 21000 B-5 S2 chip/dust 11/8/2018 ND | chip/dust 11/5/2018 ND ND ND ND ND 1400 ND ND ND State Chip/dust 11/8/2018 ND ND ND ND ND State ND ND ND ND ND ND ND ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1268 Total PCBs Clier Analyte Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1248 Aroclor 1254 | Matrix: DATE: Units Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg Ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND S80000 S80000 S80000 S80000 S80000 S80000 S80000 S80000 ND ND ND ND ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND 88000 SW-P-W chip/dust 11/8/2018 ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND 21000 ND ND 21000 ND 21000 ND 21000 ND 21000 ND 21000 ND | chip/dust 11/5/2018 ND ND ND ND ND 1400 ND ND ND 1400 ND ND ND ND ND H400 ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND ND ND ND ND ND ND ND ND ND 290000 ND | chip/dust 11/5/2018 ND ND ND 16000 ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND 1200 | chip/dust 11/5/2018 ND ND ND ND ND ND ND ND ND ND - |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1268 Total PCBs Clien Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1248 Aroclor 1248 Aroclor 1254 Aroclor 1260 | Matrix: DATE: Units ug/kg ug/kg | chip/dust 11/5/2018 ND ND ND S80000 ND ND ND S80000 S8W-P-S chip/dust 11/8/2018 ND ND ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 88000 ND ND ND 88000 SW-P-W chip/dust 11/8/2018 ND ND ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND ND ND 21000 ND ND ND 21000 ND ND 21000 ND ADD ND ND | chip/dust 11/5/2018 ND ND ND ND ND ND 1400 ND ND ND ND ND ND ND 1400 ND ND | B-5 S1 chip/dust 11/5/2018 Results ND ND ND ND ND ND ND 390000 11/8/2018 B-5 EO chip/dust 11/8/2018 Results ND ND ND ND ND ND ND ND ND ND ND ND ND | chip/dust 11/5/2018 ND ND ND 16000 ND ND ND 16000 | chip/dust 11/5/2018 ND ND ND 220 ND ND ND ND 220 | chip/dust 11/5/2018 ND ND ND 1200 ND ND ND 1200 ND 1200 | chip/dust 11/5/2018 ND ND ND 44000 ND ND ND ND ND |

Table 1 PCB Results Summary

| | Account: | | | | Barton | & Loguidice | , D.P.C. | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------|-----------------------------------------|----------------------------------|--------------------------|------------------------------|------------------------|
| | Project: | | | | Amphenol - (| • | - | 3 | | |
| Projec | t Number: | | | | • | 153.010.001 | | | | |
| - | is Method | | | | | Bs - EPA 80 | - | | | |
| Analys | | | | | FU | 53 - EPA 6U | | | | |
| | - | | r | | 1 | 12/3/2018 | | | | |
| Clier | nt Sample ID: Matrix: | B-5 1-2" | B-5-EO 1-2" | B-1 1-2" | B-5-SW-1 | B-5-SE-1 | B-5-SE-2 | B-5-E-2 | B-5-NE-1 | B-5-NE-2 |
| | DATE: | core 12/3/2018 | core 12/4/2018 | core 12/5/2018 | chip/dust 12/3/2018 | chip/dust 12/3/2018 | chip/dust 12/3/2018 | chip/dust 12/3/2018 | chip/dust 12/3/2018 | chip/dust 12/3/2018 |
| Analyte | Units | 12/0/2010 | 12/4/2010 | 12/0/2010 | 12/0/2010 | Results | 12/0/2010 | 12/0/2010 | 12/0/2010 | 12/0/2010 |
| Aroclor 1016 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1221 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1232 Aroclor 1242 | ug/kg | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| Aroclor 1242 | ug/kg ug/kg | 5070000 | 214000 | 107000 | 410000 | 390000 | 10000000 | 1300000 | 7700 | ND 10000 |
| Aroclor 1254 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1260 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1262 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aroclor 1268 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total PCBs | ug/kg | 5070000 | 214000 | 107000 | 410000 | 390000 | 10000000 | 1300000 | 7700 | 10000 |
| | | | | | | 12/3/2018 | | | | |
| Clier | nt Sample ID: | B-5-NE-3 | B-1-S-1 | B-1-S-2 | B1-SW-PS2 | | | | | |
| | Matrix: | chip/dust | chip/dust | chip/dust | chip/dust | | | | | |
| | DATE: | 12/3/2018 | 12/3/2018 | 12/3/2018 | 12/3/2018 | | | | | |
| Analyte | Units | ND | ND | ND | ND | Results | | | | |
| Aroclor 1016 Aroclor 1221 | ug/kg | ND ND | ND ND | ND ND | ND ND | | | | | |
| Aroclor 1221 Aroclor 1232 | ug/kg ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1242 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1248 | ug/kg | 130000 | 110000 | 94000 | 3500000 | | | | | |
| Aroclor 1254 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1260 | ug/kg | ND | ND | ND | ND | | | | | |
| Aroclor 1262 | ug/kg | ND ND | ND ND | ND ND | ND ND | | | | | |
| Aroclor 1268 | ug/kg | | | | | | | | | |
| Total PCBs | ug/kg | 130000 | 110000 | 94000 | 3500000 | | | | | |
| | | 5 / OI / 5 OA | | 5 4 6 6 | | 12/18/2018 | 5 / 64 | 5 4 65 | 5 4 6 6 | |
| Clier | nt Sample ID: Matrix: | B1-SW-P-S3 chip/dust | B1-SE-P-S1 chip/dust | B-1-S3 chip/dust | B-1-S4 chip/dust | B-1-S5 chip/dust | B-1-S6 chip/dust | B-1-S7 chip/dust | B-1-S8 chip/dust | |
| | DATE: | 12/18/2018 | 12/18/2018 | 12/18/2018 | 12/18/2018 | 12/18/2018 | 12/18/2018 | 12/18/2018 | 12/18/2018 | |
| Analyte | Units | 12/10/2010 | 12/10/2010 | 12/10/2010 | 12/10/2010 | Results | 12/10/2010 | 12/10/2010 | 12/10/2010 | |
| Aroclor 1016 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | |
| Aroclor 1221 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | |
| Aroclor 1232 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | |
| Aroclor 1242 Aroclor 1248 | ug/kg | ND 60000 | ND 4700 | ND 22000 | ND 18000 | ND 3500 | ND 1200 | ND 1500 | ND 2500 | |
| Aroclor 1248 Aroclor 1254 | ug/kg ug/kg | 60000 ND | 4700 ND | 22000 ND | 18000 ND | 3500 ND | 1200 ND | ND | 2500 ND | |
| Aroclor 1260 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | |
| Aroclor 1262 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | |
| Aroclor 1268 | ug/kg | ND | ND | ND | ND | ND | ND | ND | ND | |
| Total PCBs | ug/kg | 60000 | 4700 | 22000 | 18000 | 3500 | 1200 | 1500 | 2500 | - |
| | aging | 00000 | 7,00 | 22000 | 10000 | | 1200 | 1300 | 2000 | |
| | | | | | | 2/17/2019 | | | | |
| | | | | B-1 4-5" | | | | | | |
| Clier | nt Sample ID: Matrix: | B-5 5-6" | B-5-EO 4-5" | | | | | | | |
| Clier | Matrix: | core | core | core | | | | | | |
| Clier | | | | | | Results | | | | |
| | Matrix: DATE: | core | core | core | | | | | | |
| Analyte Aroclor 1016 Aroclor 1221 | Matrix: DATE: Units ug/kg ug/kg | core 2/17/2019 ND ND | core 2/17/2019 ND ND | core 2/17/2019 ND ND | | Results | | | | |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 | Matrix: DATE: Units ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND | core 2/17/2019 ND ND ND | core 2/17/2019 ND ND ND | | Results | | | | |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND ND | core 2/17/2019 ND ND ND ND | core 2/17/2019 ND ND ND ND | | Results | | | | |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND ND 37000 | core 2/17/2019 ND ND ND ND 1060000 | core 2/17/2019 ND ND ND ND 16500 | | Results | | | | |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND ND 37000 ND | core 2/17/2019 ND ND ND 1060000 ND | core 2/17/2019 ND ND ND 16500 ND | | Results | | | | |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND ND 37000 | core 2/17/2019 ND ND ND ND 1060000 | core 2/17/2019 ND ND ND ND 16500 | | Results | | | | |
| Analyte Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND 37000 ND ND | core 2/17/2019 ND ND ND 1060000 ND ND | core 2/17/2019 ND ND ND 16500 ND ND | | Results | | | | |
| Analyte Arocior 1016 Arocior 1221 Arocior 1232 Arocior 1242 Arocior 1248 Arocior 1254 Arocior 1260 Arocior 1260 | Matrix: DATE: Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | core 2/17/2019 ND ND ND 37000 ND ND ND ND | Core 2/17/2019 ND ND ND 1060000 ND ND ND ND | core 2/17/2019 ND ND ND 16500 ND ND ND ND | | Results | | | | |

Appendix A

Laboratory Analytical Results



Experience is the solution 314 North Pearl Street

Albany, New York 12207 (800) 848-4983

(518) 434-4546

Fax (518) 434-0891

September 17, 2018

Matt Stodel Barton & Loguidice, P.C. 443 Electronics Parkway Liverpool, NY 13088

TEL: (315) 457-5200

Work Order No: 180907088 PO#: 1153.010.001

RE: Concrete Slab Sampling Amphenol

Dear Matt Stodel:

Adirondack Environmental Services, Inc received 6 samples on 9/7/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Krzysztof Trafalski Laboratory Manager ELAP#: 10709

CASE NARRATIVE

| CLIENT: | Barton & Loguidice, P.C. | Date: 17-Sep-18 |
|------------|--------------------------|-----------------|
| Project: | Concrete Slab Sampling | |
| Lab Order: | 180907088 | |

Sample containers were not supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| Qualifiers: | ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
|-------------|----------------------------------------------|---------------------------------------------------|
| | J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| | B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| | X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| | H: Hold time exceeded | Z: Duplication outside acceptable limits |
| | N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| | N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |
| | | |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

| CLIENT: Barton & Logui Project: Concrete Slab S Amphenol | dice, P.C. ampling | | LabWork (PO#: 1153 | | 60907088 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 180907088-0 | 01 | | Collection Da | | 18 |
| Client Sample ID: W-1 | | | Matı | rix: WIPE | |
| Analyses | Result | RL (| Qual Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYLS (Prep: SW3650 - 9 | | | | | Analyst: KF |
| PCB, Total | 21.8 | 5.0 | µg/100cm2 | 5 | 9/11/2018 2:13:01 PM |
| Surr: Decachlorobiphenyl | 60.0 | 52.3-151 | %REC | 5 | 9/11/2018 2:13:01 PM |
| Lab SampleID: 180907088-0 | 02 | | Collection Da | te: 9/6/202 | 18 |
| Client Sample ID: W-4 | | | Matı | ix: WIPE | |
| Analyses | Result | RL (| Qual Units | DF | Date Analyzed |
| | | | | | Analyst: KF |
| (Prep: SW3650 - S PCB, Total Surr: Decachlorobiphenyl | | 5.0 52.3-151 | μg/100cm2 %REC | 5 5 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM |
| (Prep: SW3650 - S PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 | 9/10/2018) 13.0 55.0 | | %REC Collection Da | 5 ate: 9/6/202 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM |
| (Prep: SW3650 - S PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 | 9/10/2018) 13.0 55.0 | | %REC Collection Da | 5 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM |
| PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 | 9/10/2018) 13.0 55.0 | 52.3-151 | %REC Collection Da | 5 ate: 9/6/202 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A | 52.3-151 | %REC Collection Da Matr | 5 ite: 9/6/202 ita: SOLID | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A | 52.3-151 | %REC Collection Da Matr | 5 ite: 9/6/202 ita: SOLID | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 8 Date Analyzed |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) | 52.3-151 RL | %REC Collection Da Matu Qual Units | 5 ite: 9/6/202 ix: SOLID DF | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND | 52.3-151 RL (3300 | %REC Collection Da Matr Qual Units µg/Kg | 5 ite: 9/6/201 ix: SOLID DF | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 Aroclor 1221 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND ND ND | 52.3-151 RL (3300 3300 | %REC Collection Da Matr Qual Units μg/Kg μg/Kg | 5 ite: 9/6/202 ix: SOLID DF 100 100 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND ND ND ND | 52.3-151 RL (3300 3300 3300 3300 | %REC Collection Da Matr Qual Units μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg | 5 ite: 9/6/202 ix: SOLID DF 100 100 100 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND ND ND ND ND ND ND ND ND ND | 52.3-151 RL 3300 3300 3300 3300 3300 3300 3300 3 | %REC Collection Da Matr Qual Units μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg | 5 ite: 9/6/201 ix: SOLID DF 100 100 100 100 100 100 100 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1232 Aroclor 1248 Aroclor 1254 Aroclor 1260 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND ND ND ND ND ND ND ND ND ND | 52.3-151 RL 3300 3300 3300 3300 3300 3300 3300 3 | %REC Collection Da Matr Qual Units μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg | 5 ite: 9/6/201 ix: SOLID DF 100 100 100 100 100 100 100 100 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND ND ND ND ND ND ND ND ND ND | 52.3-151 RL 3300 3300 3300 3300 3300 3300 3300 3 | %REC Collection Da Matr Qual Units μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg | 5 ite: 9/6/201 ix: SOLID DF 100 100 100 100 100 100 100 100 100 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |
| (Prep: SW3650 - 9 PCB, Total Surr: Decachlorobiphenyl Lab SampleID: 180907088-0 Client Sample ID: B-1 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 9 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1232 Aroclor 1248 Aroclor 1254 Aroclor 1260 | 9/10/2018) 13.0 55.0 003 Result S - EPA 8082A 9/10/2018) ND ND ND ND ND ND ND ND ND ND | 52.3-151 RL 3300 3300 3300 3300 3300 3300 3300 3 | %REC Collection Da Matr Qual Units μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg | 5 ite: 9/6/201 ix: SOLID DF 100 100 100 100 100 100 100 | 9/11/2018 2:26:45 PM 9/11/2018 2:26:45 PM 18 Date Analyzed Analyst: KF 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM 9/10/2018 4:36:04 PM |

| CLIENT: Project: | Barton & Loguidice, P Concrete Slab Samplin Amphenol | | | | 53.010.001 | 30907088 |
|------------------------------|------------------------------------------------------------|---------|----------|---------------------|-------------|----------------------|
| Lab SampleID: | 180907088-004 | | | Collection E | ate: 9/6/20 | 18 |
| Client Sample ID | B- 2 | | | Ma | trix: SOLIE |) |
| Analyses | | Result | RL | Qual Units | DF | Date Analyzed |
| POLYCHLORINA | TED BIPHENYLS - EP | A 8082A | | | | Analyst: KF |
| (Prep | o: SW3545A - 9/10/20 | 18) | | | | |
| Aroclor 1016 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1221 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1232 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1242 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1248 | | 1000 | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1254 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1260 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1262 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Aroclor 1268 | | ND | 330 | μg/Kg | 10 | 9/10/2018 4:49:44 PM |
| Surr: Decachlor | obiphenyl | 80.0 | 48.1-152 | %REC | 10 | 9/10/2018 4:49:44 PM |
| Lab SampleID: | 180907088-005 | | | Collection D | ate: 9/6/20 | 18 |
| Client Sample ID | B-3 | | | Ma | trix: SOLIE |) |
| Analyses | | Result | RL | Qual Units | DF | Date Analyzed |
| | TED BIPHENYLS - EP/ b: SW3545A - 9/10/20 | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1221 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1232 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1242 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1248 | | 390 | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1254 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1260 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |
| Aroclor 1262 | | | | | | |
| Aroclor 1262 Aroclor 1268 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:03:26 PM |

Date: 17-Sep-18

| CLIENT: Project: | Barton & Loguidice, Concrete Slab Sampli Amphenol | | | | A Order: 1 | 80907088 |
|---------------------|---------------------------------------------------------|--------|----------|--------------|-------------------|----------------------|
| Lab SampleII | D: 180907088-006 | | | Collection D | Date: 9/6/20 | 18 |
| Client Sample | e ID: B-4 | | | Ma | trix: SOLII |) |
| Analyses | | Result | RL Q | Qual Units | DF | Date Analyzed |
| | INATED BIPHENYLS - EP Prep: SW3545A - 9/10/2 | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1221 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1232 | | ND | 330 | µg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1242 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1248 | | 600 | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1254 | | ND | 330 | µg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1260 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1262 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| Aroclor 1268 | | ND | 330 | μg/Kg | 10 | 9/10/2018 5:17:04 PM |
| 0 | hlorobiphenyl | 100 | 48.1-152 | %REC | 10 | 9/10/2018 5:17:04 PM |

Date: 17-Sep-18



314 North Pearl Street Albany, NY 12207 ^(R) 518-434-4546 / 518-434-0891 FAX

CHAIN OF CUSTODY RECORD

AES Work Order#:

EXPERIENCE IS THE SOLUTION

| | A full service analyt | | | | | | | | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|--------|------------------|----------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client Na | me: Barton & Loguidice | Address: 4 | 43 Elect | tron | ics Parkwa | y,Li | verp | ool, NY | 13088 | | |
| | oort to: @bartonandloguidice.com, d@bartonandloguidice.com | Project Nar Concrete S | | | | nphe | enol | Sample | ers Name: Ma | att Strodel | |
| Client Ph | one #: 315-457-5200 | Client PO # | : 1153. | 010 | .001 | and a second | 92.002.003 | Sample | ers Signature: | alar an 1974 a la marante a la cola de mora de mor | 1) |
| Client Err | nail: mstrodel@bartonandloguidice.com | | | | | | | ħ | Melto s | All | tel |
| AES Sample Number | Client Sample Identification & Location | Date Sampled | Time A=am P=pm | ו | Sample Matrix | е Ту <u>с</u> | ******* | Number of Cont's | | Analys | is |
| 01 | W-1 | 9/6/2018 | 9:50 | A P | Wipe | <u> </u> | $\overline{\mathbf{X}}$ | 1 | PCBs - 8082 | | |
| an | W-4 | 9/6/2018 | 11:24 | | Wipe | | X | 1 | PCBs - 8082 | | adara 20-20-20 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 201 |
| | | | | A P | | | | | | | |
| ÓB3 | B-1 | 9/6/2018 | 10:00 | A P | Solid | | X | 1 | PCBs - EPA | 8082 | |
| 004 | B-2 | 9/6/2018 | 10:33 | A P | Solid | | X | 1 | PCBs - EPA | 8082 | |
| 005 | B-3 | 9/6/2018 | 11:10 | A P | Solid | | X | 1 | PCBs - EPA | 8082 | |
| 006 | B-4 | 9/6/2018 | 11:30 | L P | Solid | ļ | X | 1 | PCBs - EPA | 8082 | NELEVA TAMATA TA TA TA TA MATERITTE MATINA TA TA MATERIA TA MATA AND AND AND AND AND AND AND AND AND AN |
| 1011771-0117-01171-0117-0117-0117-0117- | | - - | | A P | | | | ļ | | hadaraalimeet waa hadi dol doo doo waa waa waa waa waa waa waa doo doo doo doo doo doo doo doo doo d | |
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| ************************************** | | | ļ | A P | | | | ļ | | | |
| | | | | A P | | ļ | | | | | |
| | | | ļ | A P | | ļ | | ļ | | ernannen son an besar van date van baser aan dat here | |
| | | | | A P | | | | | | | |
| Shipme | nt Arrived Via: | | | Sp | | | | | ks: B-4 Limit | • | |
| Turnarc 1 Day 2 Day | Structure Structure Structure | | | | Sevr pots | 7PI | le >P, | cor lied | by Az | 5 J. 9121, | n. 18- |
| | notes received aner 3.300m are considered i ned by: (Signature) | , | ~ | 1 | ceived by: (S | Signa | ture) | | | Date | Time |
| Relinquist | hed by: (Signature) | 09/06/11 | 8 153 | Re | ceived by: (S | Signa | ture) | ******* | Landra and a second a correct of a second and a second and a second and a second and a second a second a second | Date | Time |
| Relinquish | ned by: (Signature) | | | Re | ceived for La | abora // | tory k | y: | 9 | Date 7/1/18 | Time 1:40Pm |
| | Sample Temperature | | | Pr | operly Pre | eser | ved | | Received | Within H | olding Times |
| | Ambient Chilled | | | (| Y | Ν | | | <u> </u> · (| Y) | N |
| Notes:_ | | | Notes | • | | | | | | Demo 80907088 | |



314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, Inc. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



Experience is the solution 314 North Pearl Street

Albany, New York 12207 (800) 848-4983

(518) 434-4546

Fax (518) 434-0891

October 29, 2018

M. Strodel Barton & Loguidice 10 Airline Drive Albany, NY 12205

Work Order No: 181025010

RE: Concrete Slab Sampling Amphenol

TEL: (518) 218-1801

Dear M. Strodel:

Adirondack Environmental Services, Inc received 10 samples on 10/25/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely, T. Would

ELAP#: 10709

Tara Daniels Laboratory Director

CASE NARRATIVE

| CLIENT: | Barton & Loguidice | Date: 29-Oct-18 |
|------------|------------------------|-----------------|
| Project: | Concrete Slab Sampling | |
| Lab Order: | 181025010 | |

Sample containers were not supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| Qualifiers: | ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
|-------------|----------------------------------------------|---------------------------------------------------|
| | J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| | B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| | X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| | H: Hold time exceeded | Z: Duplication outside acceptable limits |
| | N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| | N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |
| | | |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

| Project: C | arton & Loguidice oncrete Slab Sampling mphenol | 5 | | | LabWork Ord PO#: | er: 18] | 1025010 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: Client Sample ID: | 181025010-001 (B-1) NW-P | | | | Collection Date: Matrix: | |)18 |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | D BIPHENYLS - EPA SW3545A - 10/25/20 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 670 | | µg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1221 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1232 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1242 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1248 | | 35000 | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1254 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1260 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1262 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| Aroclor 1268 | | ND | 670 | | μg/Kg-dry | 20 | 10/25/2018 9:33:16 PM |
| | nhenvl | 40.0 | 48.1-152 | S | %REC | 20 | 10/25/2018 9:33:16 PM |
| Surr: Decachlorobi | NT-ASTM D2216 (NO | | RTIFIED) | | | | Analyst: TSZ |
| MOISTURE CONTE | NT-ASTM D2216 (NO | | RTIFIED) 0.1 | | wt% | 1 | 10/26/2018 |
| MOISTURE CONTE Percent Moisture Lab SampleID: | NT-ASTM D2216 (NO 181025010-002 | T ELAP CE | | | Collection Date: | 10/23/20 | 10/26/2018 |
| MOISTURE CONTE | NT-ASTM D2216 (NO | T ELAP CE | 0.1 | | | 10/23/20 | 10/26/2018 |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE | NT-ASTM D2216 (NO 181025010-002 | T ELAP CE 1.9 Result 8082A | 0.1 | | Collection Date: Matrix: | 10/23/20 SOLID | 10/26/2018)18 |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A | 0.1 | | Collection Date: Matrix: | 10/23/20 SOLID | 10/26/2018 018 Date Analyzed |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) | 0.1 RL | | Collection Date: Matrix: Units µg/Kg-dry | 10/23/20 SOLID DF | 10/26/2018 D18 Date Analyzed Analyst: KF |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND | 0.1 RL 660 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 10/23/20 SOLID DF 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: 3 Aroclor 1016 Aroclor 1221 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND | 0.1 RL 660 660 | | Collection Date: Matrix: Units µg/Kg-dry | 10/23/20 SOLID DF 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND ND | 0.1 RL 660 660 660 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry | 10/23/20 SOLID DF 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND | 0.1 RL 660 660 660 660 660 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 10/23/20 SOLID DF 20 20 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND 9700 | 0.1 RL 660 660 660 660 660 660 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 10/23/20 SOLID DF 20 20 20 20 20 20 | 10/26/2018 D18 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: 3 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND ND 9700 ND | 0.1 RL 660 660 660 660 660 660 660 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 10/23/20 SOLID DF 20 20 20 20 20 20 20 20 | 10/26/2018 D18 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: 3 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND 9700 ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 10/23/20 SOLID DF 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| AOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA SW3545A - 10/25/20 | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 660 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 10/23/20 SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: 3 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlorobi | NT-ASTM D2216 (NO 181025010-002 (B-1) NE-P D BIPHENYLS - EPA SW3545A - 10/25/20 | T ELAP CE 1.9 Result 8082A 018) ND ND ND ND 9700 ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 660 66 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 10/23/20 SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 D18 Date Analyzed Analyst: KF 10/25/2018 3:18:34 PM 10/25/2018 3:18:34 PM |

Date: 29-Oct-18

| CLIENT: Barton & L Project: Concrete SI Amphenol | oguidice lab Sampling | | LabWork O PO#: | rder: 18 | 1025010 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID:1810250Client Sample ID:(B-1) SE | | | Collection Data Matrix | e: 10/23/2 k: SOLID | |
| Analyses | Result | RL | Qual Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHEI (Prep: SW3545A | | | | | Analyst: KF |
| Aroclor 1016 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1221 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1232 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1242 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1248 | 2100 | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1254 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1260 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1262 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Aroclor 1268 | ND | 660 | μg/Kg-dry | 20 | 10/25/2018 3:31:45 PM |
| Surr: Decachlorobiphenyl | 80.0 | 48.1-152 | %REC | 20 | 10/25/2018 3:31:45 PM |
| | D2216 (NOT ELAP CE | RTIFIED) | | | Analyst: TSZ |
| MOISTURE CONTENT-ASTM | 0.5 | RTIFIED) 0.1 | wt% | 1 e• 10/23/2 | 10/26/2018 |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 | 0.5 | - | Collection Date | e: 10/23/2 | 10/26/2018 |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV | 0.5 010-004 V-P | 0.1 | Collection Date Matrix | e: 10/23/2 k: SOLID | 10/26/2018 2018 |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 | 0.5 | 0.1 | Collection Date | e: 10/23/2 | 10/26/2018 |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV Analyses | 0.5 010-004 V-P Result NYLS - EPA 8082A | 0.1 | Collection Date Matrix | e: 10/23/2 k: SOLID | 10/26/2018 2018 |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV Analyses POLYCHLORINATED BIPHEI | 0.5 010-004 V-P Result NYLS - EPA 8082A | 0.1 | Collection Date Matrix | e: 10/23/2 k: SOLID | 10/26/2018 2018 Date Analyzed |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) | 0.1 RL | Collection Data Matrix Qual Units | e: 10/23/2 x: SOLID DF | 10/26/2018 2018 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) ND | 0.1 RL 660 | Collection Data Matrix Qual Units µg/Kg-dry | e: 10/23/2 k: SOLID DF 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SW Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 Aroclor 1221 | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) ND ND | 0.1 RL 660 660 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SW Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 Aroclor 1221 Aroclor 1232 | 0.5 010-004 V-P NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND | 0.1 RL 660 660 660 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| MOISTURE CONTENT-ASTM Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SW Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 0.5 010-004 V-P NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND ND | 0.1 RL 660 660 660 660 660 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| Aroclor 1016 Aroclor 1221 Aroclor 1248 Aroclor 1254 Aroclor 1260 | 0.5 010-004 V-P NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| Aroclor 1016 Aroclor 1222 Aroclor 1248 Aroclor 1254 | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 660 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 k: SOLID DF 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 660 66 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SV Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 660 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 k: SOLID DF 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |
| Percent Moisture Percent Moisture Lab SampleID: 1810250 Client Sample ID: (B-1) SW Analyses POLYCHLORINATED BIPHEI (Prep: SW3545A Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 0.5 010-004 V-P Result NYLS - EPA 8082A A - 10/25/2018) ND ND ND ND ND ND ND ND ND ND | 0.1 RL 660 660 660 660 660 660 660 660 660 66 | Collection Data Matrix Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 3:44:57 PM 10/25/2018 3:44:57 PM |

Date: 29-Oct-18

| Project: Co | arton & Loguidice oncrete Slab Sampling mphenol | 7 | | Lab PO# | Vork Order | r: 18 | 1025010 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: | 181025010-005 | | | Collect | ion Date: 1 | | 018 |
| Client Sample ID: Analyses | (B-1) NW-I | Result | RL | Qual Units | Matrix: S | DF | Date Analyzed |
| POLYCHLORINATE | D BIPHENYLS - EPA SW3545A - 10/25/20 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 660 | μg/Kg- | drv | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1221 | | ND | 660 | μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1221 Aroclor 1232 | | ND | 660 | μg/Kg- μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1242 | | ND | 660 | μg/Kg- μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1242 Aroclor 1248 | | 5200 | 660 | μg/Kg- μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1248 | | 5200 ND | 660 | μg/Kg- μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1260 | | ND | 660 | μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1262 | | ND | 660 | μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Aroclor 1268 | | ND | 660 | μg/Kg- | - | 20 | 10/25/2018 3:58:13 PM |
| Surr: Decachlorobi | phenyl | 80.0 | 48.1-152 | %REC | - | 20 | 10/25/2018 3:58:13 PM |
| MOISTURE CONTEI | NT-ASTM D2216 (NO | T ELAP CE | - | | | | Analyst: TSZ |
| MOISTURE CONTEI | | | RTIFIED) 0.1 | wt% Collect | ion Date: 1 | 1 | 10/26/2018 |
| MOISTURE CONTEI Percent Moisture Lab SampleID: | NT-ASTM D2216 (NO | T ELAP CE | - | | | 0/23/2 | 10/26/2018 |
| MOISTURE CONTEI | NT-ASTM D2216 (NO 181025010-006 | T ELAP CE | 0.1 | | ion Date: 1 Matrix: S | 0/23/2 | 10/26/2018 |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE | NT-ASTM D2216 (NO 181025010-006 | T ELAP CE 0.4 Result 8082A | 0.1 | Collect | ion Date: 1 Matrix: S | 10/23/2 SOLID | 10/26/2018 018 |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A | 0.1 | Collect | ion Date: 1 Matrix: S | 10/23/2 SOLID | 10/26/2018 018 Date Analyzed |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) | 0.1 RL | Collect Qual Units | ion Date: 1 Matrix: S | 10/23/2 SOLID DF | 10/26/2018 018 Date Analyzed Analyst: KF |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND | 0.1 RL 680 | Collect Qual Units µg/Kg- | ion Date: 1 Matrix: S dry dry | 10/23/2 SOLID DF 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND ND | 0.1 RL 680 680 | Collect Qual Units µg/Kg- µg/Kg- | ion Date: 1 Matrix: S dry dry dry | 20 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND | 0.1 RL 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- | ion Date: 1 Matrix: S dry dry dry dry dry | 20 20 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND ND | 0.1 RL 680 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- µg/Kg- | ion Date: 1 Matrix: S dry dry dry dry dry dry | 20 20 20 20 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND ND 1700 | 0.1 RL 680 680 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- | ion Date: 1 Matrix: S dry dry dry dry dry dry dry | 20 20 20 20 20 20 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND ND ND 1700 ND | 0.1 RL 680 680 680 680 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- | ion Date: 1 Matrix: S dry dry dry dry dry dry dry dry | 20 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| Aroclor 1242 Aroclor 1242 Aroclor 1254 Aroclor 1254 Aroclor 1260 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND ND 1700 ND ND ND | 0.1 RL 680 680 680 680 680 680 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- | ion Date: 1 Matrix: S dry dry dry dry dry dry dry dry dry dry | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| AOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA SW3545A - 10/25/20 | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 680 680 680 680 680 680 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/K | ion Date: 1 Matrix: S dry dry dry dry dry dry dry dry dry dry | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlorobi | NT-ASTM D2216 (NO 181025010-006 (B-1) NE-I D BIPHENYLS - EPA SW3545A - 10/25/20 | T ELAP CE 0.4 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 680 680 680 680 680 680 680 680 680 680 | Collect Qual Units µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/Kg- µg/K | ion Date: 1 Matrix: S dry dry dry dry dry dry dry dry dry dry | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 4:11:27 PM 10/25/2018 4:11:27 PM |

Date: 29-Oct-18

| Project: Con | rton & Loguidice ncrete Slab Sampling nphenol | | | LabWork O PO#: | order: 18 | 31025010 |
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| 1 | 181025010-007 (B-1) SE-I | | | Collection Dat Matri | e: 10/23/2 x: SOLID | |
| Analyses |] | Result | RL | Qual Units | DF | Date Analyzed |
| |) BIPHENYLS - EPA 80 W3545A - 10/25/2018 | - | | | | Analyst: KF |
| Aroclor 1016 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PM |
| Aroclor 1221 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PM |
| Aroclor 1232 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PM |
| Aroclor 1242 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PN |
| Aroclor 1248 | | 4500 | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PN |
| Aroclor 1254 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PN |
| Aroclor 1260 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PM |
| Aroclor 1262 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PM |
| Aroclor 1268 | | ND | 680 | μg/Kg-dry | 20 | 10/25/2018 6:42:34 PM |
| Surr: Decachlorobipl | henvl | 80.0 | 48.1-152 | %REC | 20 | 10/25/2018 6:42:34 PM |
| | T-ASTM D2216 (NOT E | | RTIFIED) | | | Analyst: TSZ |
| MOISTURE CONTEN | | ELAP CEI 2.6 | RTIFIED) 0.1 | wt% Collection Dat | 1 e: 10/23/2 | 10/26/2018 |
| MOISTURE CONTEN | T-ASTM D2216 (NOT E 181025010-008 (B-1) SW-I | | · | Collection Dat | | 10/26/2018 |
| MOISTURE CONTEN | 181025010-008 (B-1) SW-I | | 0.1 | Collection Dat | e: 10/23/2 | 10/26/2018 |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: (Analyses POLYCHLORINATED | 181025010-008 (B-1) SW-I | 2.6 Result 82A | 0.1 | Collection Dat Matri | e: 10/23/2 x: SOLID | 10/26/2018 2018 |
| MOISTURE CONTEN Percent Moisture Lab SampleID: (Client Sample ID: (Analyses POLYCHLORINATED | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 | 2.6 Result 82A | 0.1 | Collection Dat Matri | e: 10/23/2 x: SOLID | 10/26/2018 2018 Date Analyzed Analyst: KF |
| MOISTURE CONTEN Percent Moisture Lab SampleID: 1 Client Sample ID: (Analyses POLYCHLORINATED (Prep: S) | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 | 2.6 Result (82A (5) | 0.1 RL | Collection Dat Matri Qual Units | e: 10/23/2 x: SOLID DF | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: (Client Sample ID: (Analyses POLYCHLORINATED (Prep: SV Aroclor 1016 | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 | 2.6 Result 82A ;) ND | 0.1 RL 670 | Collection Dat Matri Qual Units µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTENT Percent Moisture Lab SampleID: (Client Sample ID: (Analyses POLYCHLORINATED (Prep: ST Aroclor 1016 Aroclor 1221 | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 | 2.6 Result 82A 5) ND ND | 0.1 RL 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTENT Percent Moisture Lab SampleID: Client Sample ID: (Analyses POLYCHLORINATED (Prep: SV Aroclor 1016 Aroclor 1221 Aroclor 1232 | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result 82A 5) ND ND ND | 0.1 RL 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTENT Percent Moisture Lab SampleID: (Analyses POLYCHLORINATED (Prep: SV Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result 82A 3) ND ND ND ND ND | 0.1 RL 670 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTENT Percent Moisture Lab SampleID: (Client Sample ID: (Cl | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result (82A (5) ND ND ND 34000 | 0.1 RL 670 670 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: (Analyses POLYCHLORINATED (Prep: SV Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result 82A 5) ND ND ND ND 34000 ND | 0.1 RL 670 670 670 670 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTENT Percent Moisture Lab SampleID: Client Sample ID: (Analyses POLYCHLORINATED (Prep: ST Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 | 181025010-008 (B-1) SW-I J BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result 82A 5) ND ND ND ND 34000 ND ND | 0.1 RL 670 670 670 670 670 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |
| MOISTURE CONTENT Percent Moisture Lab SampleID: Client Sample ID: (Analyses POLYCHLORINATED (Prep: ST Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 181025010-008 (B-1) SW-I D BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result 82A) ND ND ND 34000 ND ND ND ND ND ND ND | 0.1 RL 670 670 670 670 670 670 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed |
| Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlorobiph | 181025010-008 (B-1) SW-I D BIPHENYLS - EPA 80 W3545A - 10/25/2018 | 2.6 Result 82A 5) ND ND ND 34000 ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 670 670 670 670 670 670 670 670 670 670 | Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | e: 10/23/2 x: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10/26/2018 2018 Date Analyzed Analyst: KF 10/25/2018 6:55:45 PM 10/25/2018 6:55:45 PM |

Date: 29-Oct-18

| CLIENT: Barton & Log Project: Concrete Slal Amphenol | | | | LabWork Or PO#: | der: 181 | 025010 |
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| Lab SampleID: 181025010 Client Sample ID: B-5 | 0-009 | | | Collection Date Matrix | : 10/23/20 : SOLID |)18 |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHEN (Prep: SW3545A | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 35000 | | µg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1221 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1232 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1242 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1248 | 1700000 | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1254 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1260 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1262 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Aroclor 1268 | ND | 35000 | | μg/Kg-dry | 1000 | 10/25/2018 9:19:54 PM |
| Surr: Decachlorobiphenyl | 0 | 48.1-152 | S | %REC | 1000 | 10/25/2018 9:19:54 PM |
| MOISTURE CONTENT-ASTM [| 02216 (NOT ELAP CE | RTIFIED) | | | | Analyst: TSZ |
| Percent Moisture | 6.2 | RTIFIED) 0.1 | | wt% Collection Date | 1 : 10/23/20 | 10/26/2018 |
| Percent Moisture Lab SampleID: 181025010 | 6.2 | - | | Collection Date | | 10/26/2018 |
| Lab SampleID: 181025010 | 6.2 | 0.1 | | Collection Date | : 10/23/20 | 10/26/2018 |
| Percent Moisture Lab SampleID: 181025010 Client Sample ID: B-1 DUPE | 6.2 0-010 2 Result YLS - EPA 8082A | 0.1 | | Collection Date Matrix | : 10/23/20 : SOLID | 10/26/2018)18 |
| Percent Moisture Lab SampleID: 181025010 Client Sample ID: B-1 DUPE Analyses POLYCHLORINATED BIPHEN | 6.2 0-010 2 Result YLS - EPA 8082A | 0.1 | | Collection Date Matrix | : 10/23/20 : SOLID | 10/26/2018 018 Date Analyzed |
| Percent Moisture Lab SampleID: 181025010 Client Sample ID: B-1 DUPE Analyses POLYCHLORINATED BIPHEN (Prep: SW3545A | 6.2 0-010 2 Result YLS - EPA 8082A - 10/25/2018) | 0.1 RL | | Collection Date Matrix Units | : 10/23/20 : SOLID DF | 10/26/2018 018 Date Analyzed Analyst: KF |
| Percent Moisture Lab SampleID: 181025010 Client Sample ID: B-1 DUPE Analyses POLYCHLORINATED BIPHEN (Prep: SW3545A - Aroclor 1016 | 6.2 0-010 2 Result YLS - EPA 8082A - 10/25/2018) ND | 0.1 RL 670 | | Collection Date Matrix Units μg/Kg-dry | : 10/23/20 : SOLID DF 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 7:22:19 PM 10/25/2018 7:22:19 PM |
| Percent Moisture Lab SampleID: 181025010 Client Sample ID: B-1 DUPE Analyses POLYCHLORINATED BIPHEN (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 6.2 0-010 2 Result YLS - EPA 8082A - 10/25/2018) ND ND | 0.1 RL 670 670 | | Collection Date Matrix Units μg/Kg-dry μg/Kg-dry | : 10/23/20 : SOLID DF 20 20 | 10/26/2018 018 Date Analyzed Analyst: KF 10/25/2018 7:22:19 PM |
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Date: 29-Oct-18



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314 North Pearl Street Albany, New York 12207 518-434-4546/434-0891 FAX

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AES Work Order #

| AE Date Date Sample free infection & Location Date Sample free infection Sample free infection Sample free infection Real price Real prind Real prind Rea price | |
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314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, Inc. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



Experience is the solution 314 North Pearl Street

Albany, New York 12207 (800) 848-4983

(518) 434-4546

Fax (518) 434-0891

November 06, 2018

M. Strodel Barton & Loguidice, P.C. 443 Electronics Parkway Liverpool, NY 13088

Work Order No: 181105047

TEL: (315) 457-5200

RE: Concrete Slab Sampling Amphenol

Dear M. Strodel:

Adirondack Environmental Services, Inc received 9 samples on 11/5/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Krzysztof Trafalski Laboratory Manager

ELAP#: 10709

CASE NARRATIVE

| CLIENT: | Barton & Loguidice, P.C. | Date: 06-Nov-18 |
|------------|--------------------------|------------------------|
| Project: | Concrete Slab Sampling | |
| Lab Order: | 181105047 | |

Sample containers were supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| Qualifiers: | ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
|-------------|----------------------------------------------|---------------------------------------------------|
| | J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| | B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| | X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| | H: Hold time exceeded | Z: Duplication outside acceptable limits |
| | N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| | N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |
| | | |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

| CLIENT: Barton & Log Project: Concrete Slab Amphenol | guidice, P.C. Sampling | | | LabWork (PO#: | Order: 18 | 1105047 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181105047 Client Sample ID: B-5 S1 DC | | | | Collection Da Matr | te: 11/5/20 ix: SOLID | 18 |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENY (Prep: SW3545A - | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 35000 | | µg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1221 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1232 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1242 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1248 | 580000 | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1254 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1260 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1262 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Aroclor 1268 | ND | 35000 | | μg/Kg-dry | 1000 | 11/5/2018 5:39:33 PM |
| Surr: Decachlorobiphenyl | 0 | 48.1-152 | S | %REC | 1000 | 11/5/2018 5:39:33 PM |
| MOISTURE CONTENT-ASTM D | - | RTIFIED) | | | | Analyst: TS 2 |
| MOISTURE CONTENT-ASTM D | 2216 (NOT ELAP CE | RTIFIED) 0.1 | | wt% Collection Da | 1 . te: 11/5/20 | 11/5/2018 |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 | 2216 (NOT ELAP CE | · | | Collection Da | | 11/5/2018 |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 | 2216 (NOT ELAP CE | 0.1 | | Collection Da | te: 11/5/20 | 11/5/2018 |
| MOISTURE CONTENT-ASTM D | 22216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A | 0.1 | | Collection Da Matr | te: 11/5/20 ix: SOLID | 11/5/2018 18 |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY | 22216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A | 0.1 | | Collection Da Matr Units | te: 11/5/20 ix: SOLID | 11/5/2018 18 Date Analyzed |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - | 2216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A - 11/5/2018) | 0.1 RL | | Collection Da Matr Units µg/Kg-dry | te: 11/5/20 ix: SOLID DF | 11/5/2018 18 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 | 2216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A 11/5/2018) ND | 0.1 RL 3500 | | Collection Da Matr Units | te: 11/5/20 ix: SOLID DF 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 2216 (NOT ELAP CE 5.4 7-002 Result (LS - EPA 8082A 11/5/2018) ND ND | 0.1 RL 3500 3500 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 | 2216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A 11/5/2018) ND ND ND ND | 0.1 RL 3500 3500 3500 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 2216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A 11/5/2018) ND ND ND ND ND | 0.1 RL 3500 3500 3500 3500 3500 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | 2216 (NOT ELAP CE 5.4 7-002 Result /LS - EPA 8082A 11/5/2018) ND ND ND ND ND ND 88000 | 0.1 RL 3500 3500 3500 3500 3500 3500 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 2216 (NOT ELAP CE 5.4 7-002 Result (LS - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 3500 3500 3500 3500 3500 3500 3500 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 100 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 2216 (NOT ELAP CE 5.4 7-002 Result (LS - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 3500 3500 3500 3500 3500 3500 3500 350 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 100 100 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 22216 (NOT ELAP CE 5.4 7-002 Result (LS - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 3500 3500 3500 3500 3500 3500 3500 350 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 100 100 100 100 100 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |
| MOISTURE CONTENT-ASTM D Percent Moisture Lab SampleID: 181105047 Client Sample ID: B-5 N1 Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 2216 (NOT ELAP CE 5.4 7-002 Result (LS - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 3500 3500 3500 3500 3500 3500 3500 350 | Qual | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 100 100 100 100 100 100 100 100 100 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 7:08:54 PM 11/5/2018 7:08:54 PM |

Date: 06-Nov-18

| | a & Loguidice, P.C. ete Slab Sampling enol | | LabWork PO#: | Order: 18 | 31105047 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181 Client Sample ID: B-5 | 105047-003 W1 | | | Date: 11/5/2 trix: SOLIE | |
| Analyses | Result | RL | Qual Units | DF | Date Analyzed |
| POLYCHLORINATED BI (Prep: SW3 | PHENYLS - EPA 8082A 545A - 11/5/2018) | | | | Analyst: KF |
| Aroclor 1016 | ND | 740 | µg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1221 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1232 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1242 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1248 | 21000 | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1254 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1260 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1262 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| Aroclor 1268 | ND | 740 | μg/Kg-dry | 20 | 11/5/2018 6:15:23 PM |
| | | 48.1-152 | %REC | 20 | 11/5/2018 6:15:23 PM |
| | STM D2216 (NOT ELAP CE | RTIFIED) | | | Analyst: TS 2 |
| MOISTURE CONTENT-A | - | | wt% | 1 Date: 11/5/2 | 11/5/2018 |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 | STM D2216 (NOT ELAP CE 10.8 105047-004 | RTIFIED) | wt% Collection I | 1 | 11/5/2018 018 |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 | STM D2216 (NOT ELAP CE 10.8 105047-004 | RTIFIED) | wt% Collection I | 1 Date: 1 1/5/2 | 11/5/2018 018 |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result | RTIFIED) | wt% Collection I Ma | 1 Date: 11/5/2 trix: SOLIE | 11/5/2018 018 |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A | RTIFIED) | wt% Collection I Ma Qual Units | 1 Date: 11/5/2 trix: SOLIE | 11/5/2018 018 Date Analyzed |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A 545A - 11/5/2018) | RTIFIED) 0.1 RL | wt% Collection I Ma | 1 Date: 11/5/2 trix: SOLIE DF | 11/5/2018 018 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A 545A - 11/5/2018) ND | RTIFIED) 0.1 RL 370 | wt% Collection I Ma Qual Units µg/Kg-dry | 1 Date: 11/5/2/ trix: SOLIE DF 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND | RTIFIED) 0.1 RL 370 370 | wt% Collection I Ma Qual Units پیو/Kg-dry | 1 Date: 11/5/2 trix: SOLIE DF 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1232 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 | wt% Collection I Ma Qual Units پیو/Kg-dry پیg/Kg-dry | 1 Date: 11/5/24 trix: SOLIE DF 10 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 | wt% Collection I Ma Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 1 Date: 11/5/20 trix: SOLIE DF 10 10 10 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 Result PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND ND 1400 | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 | wt% Collection I Ma Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 1 Date: 11/5/2 trix: SOLIE DF 10 10 10 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | wt% Collection I Ma Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 1 Date: 11/5/2/ trix: SOLIE DF 10 10 10 10 10 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | wt% Collection I Ma Qual Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 Date: 11/5/2/ trix: SOLIE DF 10 10 10 10 10 10 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | wt% Collection I Ma Qual Units بیβ/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 Date: 11/5/2 trix: SOLIE DF 10 10 10 10 10 10 10 10 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |
| MOISTURE CONTENT-A Percent Moisture Lab SampleID: 181 Client Sample ID: B-5 Analyses POLYCHLORINATED BI (Prep: SW3 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlorobiphen | ASTM D2216 (NOT ELAP CE 10.8 105047-004 E1 PHENYLS - EPA 8082A 545A - 11/5/2018) ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | wt% Collection I Ma Qual Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 Date: 11/5/24 trix: SOLIE DF 10 10 10 10 10 10 10 10 10 10 10 10 | 11/5/2018 018 Date Analyzed Analyst: KF 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM 11/5/2018 5:26:11 PM |

Date: 06-Nov-18

| CLIENT: Barton & Log Project: Concrete Slab Amphenol | | | | LabWork (PO#: | Order: 18 | 1105047 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181105047 Client Sample ID: B-5 S1 | -005 | | | Collection Da Matr | te: 11/5/20 ix: SOLID | 18 |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENY (Prep: SW3545A - | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1221 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1232 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1242 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1248 | 390000 | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1254 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1260 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1262 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| Aroclor 1268 | ND | 36000 | | μg/Kg-dry | 1000 | 11/5/2018 7:22:17 PM |
| | 0 | 48.1-152 | S | %REC | 1000 | 11/5/2018 7:22:17 PM |
| Surr: Decachlorobiphenyl MOISTURE CONTENT-ASTM D2 | - | RTIFIED) | | | | Analyst: TS2 |
| MOISTURE CONTENT-ASTM D2 | 2216 (NOT ELAP CE 9.6 | RTIFIED) 0.1 | | wt% Collection Da | 1 te: 11/5/20 | 11/5/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047 | 2216 (NOT ELAP CE 9.6 | | | Collection Da | | 11/5/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047 | 2216 (NOT ELAP CE 9.6 | 0.1 | | Collection Da | te: 11/5/20 | 11/5/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047 Client Sample ID: NW-P-N | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A | 0.1 | | Collection Da Matr | te: 11/5/20 ix: SOLID | 11/5/2018 18 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A | 0.1 | | Collection Da Matr Units | te: 11/5/20 ix: SOLID | 11/5/2018 18 Date Analyzed |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A 11/5/2018) | 0.1 RL | | Collection Da Matr Units µg/Kg-dry | te: 11/5/20 ix: SOLID DF | 11/5/2018 18 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A 11/5/2018) ND ND | 0.1 RL 360 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A 11/5/2018) ND ND ND | 0.1 RL 360 360 | | Collection Da Matr Units µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A 11/5/2018) ND ND | 0.1 RL 360 360 360 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A 11/5/2018) ND ND ND ND ND | 0.1 RL 360 360 360 360 360 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | 2216 (NOT ELAP CE 9.6 -006 Result LS - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND | 0.1 RL 360 360 360 360 360 360 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 2216 (NOT ELAP CE 9.6 -006 -006 -006 -006 -006 -006 -006 -0 | 0.1 RL 360 360 360 360 360 360 360 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENY (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 | 2216 (NOT ELAP CE 9.6 -006 -006 -006 -006 -006 -006 -006 -0 | 0.1 RL 360 360 360 360 360 360 360 360 360 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 2216 (NOT ELAP CE 9.6 -006 -006 -006 -006 -006 -006 -006 -0 | 0.1 RL 360 360 360 360 360 360 360 360 360 360 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047- Client Sample ID: NW-P-N Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 2216 (NOT ELAP CE 9.6 -006 -006 -006 -006 -006 -006 -006 -0 | 0.1 RL 360 360 360 360 360 360 360 360 360 360 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 10 10 10 10 | 11/5/2018 18 Date Analyzed Analyst: KF 11/5/2018 6:42:08 PM 11/5/2018 6:42:08 PM |

Date: 06-Nov-18

| CLIENT: Barton & Logu Project: Concrete Slab S Amphenol | | | LabWork (PO#: |)rder: 18 | 1105047 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181105047-(Client Sample ID: NW-P-W | 007 | | Collection Dat Matri | te: 11/5/20 ix: SOLID | |
| Analyses | Result | RL | Qual Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYL (Prep: SW3545A - | | | | | Analyst: KF |
| Aroclor 1016 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1221 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1232 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1242 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1248 | 220 | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1254 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1260 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1262 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| Aroclor 1268 | ND | 35 | μg/Kg-dry | 1 | 11/5/2018 |
| | 56.0 | 48.1-152 | %REC | 1 | 11/5/2018 |
| | 216 (NOT ELAP CE | - | | | Analyst: TS2 |
| MOISTURE CONTENT-ASTM D2 | 216 (NOT ELAP CE 7.0 | RTIFIED) 0.1 | wt% Collection Dat | 1 te: 11/5/20 | 11/5/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 | 216 (NOT ELAP CE 7.0 | - | wt% Collection Dat | | 11/5/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W | 216 (NOT ELAP CE 7.0 | 0.1 | wt% Collection Dat | te: 11/5/20 | 11/5/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A | 0.1 | wt% Collection Dat Matri | te: 11/5/20 ix: SOLID | 11/5/2018 018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A | 0.1 | wt% Collection Dat Matri Qual Units | te: 11/5/20 ix: SOLID | 11/5/2018 018 Date Analyzed |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A 11/5/2018) | 0.1 RL | wt% Collection Dat Matri | te: 11/5/20 ix: SOLID DF | 11/5/2018 018 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D2: Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A 11/5/2018) ND | 0.1 RL 350 | wt% Collection Dat Matri Qual Units µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2: Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A 11/5/2018) ND ND | 0.1 RL 350 350 | wt% Collection Dat Matr Qual Units پیو/Kg-dry پیg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A 11/5/2018) ND ND ND | 0.1 RL 350 350 350 | wt% Collection Dat Matr Qual Units پیو/Kg-dry پیg/Kg-dry پیg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 216 (NOT ELAP CE 7.0 008 Result .S - EPA 8082A 11/5/2018) ND ND ND ND ND | 0.1 RL 350 350 350 350 350 | wt% Collection Dat Matr Qual Units پی۹/Kg-dry پی۹/Kg-dry پی۹/Kg-dry پی۹/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1244 Aroclor 1254 Aroclor 1254 Aroclor 1260 | 216 (NOT ELAP CE 7.0 008 Result S - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 | wt% Collection Dat Matr Qual Units پی (Kg-dry پی (Kg-dry پی (Kg-dry پی (Kg-dry پی (Kg-dry پی (Kg-dry) | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 216 (NOT ELAP CE 7.0 008 Result S EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 | vt% Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1244 Aroclor 1254 Aroclor 1254 Aroclor 1260 | 216 (NOT ELAP CE 7.0 008 Result S - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 350 350 | wt% Collection Dat Matri Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 216 (NOT ELAP CE 7.0 008 Result S - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 350 350 350 | | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181105047-0 Client Sample ID: SW-I-W Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 216 (NOT ELAP CE 7.0 008 Result S - EPA 8082A 11/5/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 350 350 350 | یلا% Collection Dat Matr Qual Units پیالا پیالا پیالا پیالا پیالا پیالا پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیل پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیل پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پیال پی | te: 11/5/20 ix: SOLID DF 10 10 10 10 10 10 10 10 10 10 10 | 11/5/2018 Date Analyzed Analyst: KF 11/5/2018 6:55:31 PM 11/5/2018 6:55:31 PM |

Date: 06-Nov-18

| CLIENT:Barton & Loguidice, P.C.Project:Concrete Slab Sampling Amphenol | | | | | LabWork (PO#: |)rder: 18 | 81105047 |
|---------------------------------------------------------------------------|------------------------------------------------|------------|----------|------|-------------------|-------------|----------------------|
| Lab SampleID |): 181105047-009 | | | | Collection Da | te: 11/5/20 | 018 |
| Client Sample | ID: SW-I-S | | | | Matr | ix: SOLID |) |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | NATED BIPHENYLS - EP rep: SW3545A - 11/5/20 | | | | | | Analyst: KF |
| Aroclor 1016 | • | ND | 3500 | | µg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1221 | | ND | 3500 | | μg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1232 | | ND | 3500 | | μg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1242 | | ND | 3500 | | μg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1248 | | 44000 | 3500 | | μg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1254 | | ND | 3500 | | µg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1260 | | ND | 3500 | | µg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1262 | | ND | 3500 | | µg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Aroclor 1268 | | ND | 3500 | | µg/Kg-dry | 100 | 11/5/2018 7:48:59 PM |
| Surr: Decacl | hlorobiphenyl | 0 | 48.1-152 | S | %REC | 100 | 11/5/2018 7:48:59 PM |
| MOISTURE CO | ONTENT-ASTM D2216 (No | OT ELAP CE | RTIFIED) | | | | Analyst: TSZ |
| Percent Moistu | ire | 5.9 | 0.1 | | wt% | 1 | 11/5/2018 |

Date: 06-Nov-18

314 North Pearl Street Albany, New York 12207 518-434-4546/434-0891 FAX CHAIN OF CUSTODY RECORD

AES Work Order #

181105047

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|---------------------------------------------|--------------------------------------------------------|---------------------------|---------------|--------------------|------------------|--------|-------------------------|--------------|----------------------------------|
| end Report To: | | Project Nar | ne (Location) | | 1 10 | Sam | plers: (N | lames) | 1001 NJ 1308 Iandam |
| Scott NI | ostrand | Ampha | 101 S | lab | | | Dar | <u> </u> | andam |
| lient Phone No: | SZOO snost | ail: 1 a t | PO N | umber: | ° A | Sam | plers: (8 | Signature) | S/A |
| <u>) < 7 < 1</u> | >200 shost | rand C Dar | ronjarg | 1 Uguloic | Time | Samn | e Tvpe | Number | Ver |
| AES Sample Number | C Sample Identif | ient cation & Location | | Date Sampled | A=a.m. P=p.m. | Matrix | Comp. Grab | of Cont's | Analysis Required |
| 001 | 8-5 51 | $\mathbb{D}C$ | | 11,5/19 | | | | ١ | PCBs |
| | B-5 N1 | | | | 930 P | 1 | | ١ | PCBs |
| 003 | B-5 W1 | | | | 10:2 P | | | Ì | |
| 004 | B-5 E1 | | | | 1230 P | | | 1 | |
| COS | B-5 51. | | | | 1300 A | | | 1 | |
| 006 | NW-P- | \mathcal{N}° | | | 1350 A | - | | 5 | |
| C07 | NW-P- | W | | | (350 P | | <u> </u> | 1 | |
| 300 | SW - I - SW - I - | W | | | 14 Cop | | | - | |
| 009 | SW-I- | 5 | | | 1700 A | | | | 4 |
| | | | | | р F | | | | |
| | | | | | A F | | | | |
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| | | | | - | | | | | |
| Shipment Arrive | ed Via [.] | | CC Repor | t To / Special In: | | | | | |
| FedEx UPS Furnaround Time | 🗆 3 Day 🔲 Norm | al | | | | | | | |
| 2 Day Note: Samples reg Relinquished by | 5 Day ceived after 3:30 pm are considere : (Signature) | d next business day | Received | by: (Signature) | | | 6 | | Date/Time |
| Drug | Land | | 44 | har | ~ | | Na International States | | 11/5/18 2:2 |
| Relinquished by | : (Signature) | | Received | by: (Signature) | | | | | Date/Time |
| Relingwished by | : (Signature) | | | for Laboratory I | | ^ | | 11 41 - 2 | Date/Time |
| MCE | | AES | | itlin | | zarl | 20- | D | 11/5/18 413p |
| Ai | TEMPERATURE | Bottles Y N | | DPERLY PRESERVE | IJ | | | MECEIV | ed Within Holding Times (Y) N |
| Notes: | | | otes: | | | | | | |
| | WHITE - Lab Copy | Λ | | N - Sampler Cop | | Hara | | | |
| | | Adirond | ack Env | <i>lironment</i> | al Serv | lices, | | | |



314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, Inc. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



Experience is the solution 314 North Pearl Street

Albany, New York 12207 (800) 848-4983

(518) 434-4546

Fax (518) 434-0891

November 12, 2018

M. Strodel Barton & Loguidice, P.C. 443 Electronics Parkway Liverpool, NY 13088

Work Order No: 181109007

TEL: (315) 457-5200

RE: Concrete Slab Sampling Amphenol

Dear M. Strodel:

Adirondack Environmental Services, Inc received 5 samples on 11/9/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Krzysztof Trafalski Laboratory Manager

ELAP#: 10709

CASE NARRATIVE

| CLIENT: | Barton & Loguidice, P.C. | Date: 12-Nov-18 |
|------------|--------------------------|------------------------|
| Project: | Concrete Slab Sampling | |
| Lab Order: | 181109007 | |

Sample containers were supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| Qualifiers: | ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
|-------------|----------------------------------------------|---------------------------------------------------|
| | J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| | B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| | X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| | H: Hold time exceeded | Z: Duplication outside acceptable limits |
| | N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| | N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |
| | | |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

| CLIENT: Barton & Loguic Project: Concrete Slab Sa Amphenol | | | | LabWork Ord PO#: | ler: 18 | 1109007 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID:181109007-00Client Sample ID:SW-P-S | 01 | | | Collection Date: Matrix: | | |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1221 | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1232 | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1242 | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1248 | 41000 | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1254 | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1260 | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1262 | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Aroclor 1268 | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:12:41 PM |
| Surr: Decachlorobiphenyl | 0 | 48.1-152 | S | %REC | 100 | 11/9/2018 5:12:41 PM |
| MOISTURE CONTENT-ASTM D22 | | - | | | | Analyst: TSZ |
| MOISTURE CONTENT-ASTM D22 | 2.7 | RTIFIED) 0.1 | | wt% Collection Date: | 1 | 11/9/2018 |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 | 2.7 | - | | | 11/8/20 | 11/9/2018 |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 | 2.7 | 0.1 | | Collection Date: | 11/8/20 | 11/9/2018 |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses | 2.7 02 Result S - EPA 8082A | 0.1 | | Collection Date: Matrix: | 11/8/20 SOLID | 11/9/2018 018 |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS | 2.7 02 Result S - EPA 8082A | 0.1 | | Collection Date: Matrix: | 11/8/20 SOLID | 11/9/2018 018 Date Analyzed |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 | 2.7 02 Result 5 - EPA 8082A 1/9/2018) | 0.1 RL | | Collection Date: Matrix: Units | 11/8/20 SOLID DF | 11/9/2018 018 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 | 2.7 02 Result 5 - EPA 8082A 1/9/2018) ND | 0.1 RL 340 | | Collection Date: Matrix: Units µg/Kg-dry | 11/8/20 SOLID DF 10 | 11/9/2018 D18 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 | 2.7 02 Result S - EPA 8082A 1/9/2018) ND ND | 0.1 RL 340 340 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 11/8/20 SOLID DF 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 Aroclor 1232 | 2.7 02 Result 5 - EPA 8082A 1/9/2018) ND ND ND ND | 0.1 RL 340 340 340 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/20 SOLID DF 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 2.7 02 Result 5 - EPA 8082A 1/9/2018) ND ND ND ND ND ND | 0.1 RL 340 340 340 340 340 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/20 SOLID DF 10 10 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1248 | 2.7 02 Result S - EPA 8082A 1/9/2018) ND ND ND ND ND ND 1000 | 0.1 RL 340 340 340 340 340 340 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 11/8/20 SOLID DF 10 10 10 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 2.7 02 Result 5 - EPA 8082A 1/9/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340 340 340 340 340 340 340 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 11/8/20 SOLID DF 10 10 10 10 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1212 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 | 2.7 02 Result S - EPA 8082A 1/9/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340 340 340 340 340 340 340 340 340 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/20 SOLID DF 10 10 10 10 10 10 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1260 | 2.7 02 Result S - EPA 8082A 1/9/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340 340 340 340 340 340 340 340 340 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/20 SOLID DF 10 10 10 10 10 10 10 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181109007-00 Client Sample ID: SW-P-W Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 1 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 2.7 02 Result 5 - EPA 8082A 1/9/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340 340 340 340 340 340 340 340 340 340 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/20 SOLID DF 10 10 10 10 10 10 10 10 10 10 10 | 11/9/2018 Date Analyzed Analyst: KF 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM 11/9/2018 3:25:51 PM |

Date: 12-Nov-18

| Project: Co | arton & Loguidice, P.C. oncrete Slab Sampling mphenol | | | | LabWork Ord PO#: | ler: 181 | 109007 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 181109007-003 B-5 S2 | | | | Collection Date: Matrix: | | 8 |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | D BIPHENYLS - EPA 8 SW3545A - 11/9/2018 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1221 | | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1232 | | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1242 | | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1248 | | 61000 | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1254 | | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1260 | | ND | 3400 | | μg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1262 | | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| Aroclor 1268 | | ND | 3400 | | µg/Kg-dry | 100 | 11/9/2018 5:26:01 PM |
| | ohenvl | 0 | 48.1-152 | S | %REC | 100 | 11/9/2018 5:26:01 PM |
| Surr: Decachlorobip | NT-ASTM D2216 (NOT | ELAP CE | RTIFIED) | | | | Analyst: TS |
| MOISTURE CONTEN | | - | RTIFIED) 0.1 | | wt% Collection Date: | 1 | 11/9/2018 |
| MOISTURE CONTEN Percent Moisture Lab SampleID: | NT-ASTM D2216 (NOT | ELAP CE | - | | | 11/8/201 | 11/9/2018 |
| MOISTURE CONTEN Percent Moisture Lab SampleID: | NT-ASTM D2216 (NOT 181109007-004 | ELAP CE | 0.1 | | Collection Date: | 11/8/201 | 11/9/2018 |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI | NT-ASTM D2216 (NOT 181109007-004 | ELAP CE 2.7 Result 082A | 0.1 | | Collection Date: Matrix: | 11/8/201 SOLID | 11/9/2018 8 |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A | 0.1 | | Collection Date: Matrix: | 11/8/201 SOLID | 11/9/2018 8 Date Analyzed |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) | 0.1 RL | | Collection Date: Matrix: Units | 11/8/201 SOLID DF | 11/9/2018 8 Date Analyzed Analyst: KF |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND | 0.1 RL 350 | | Collection Date: Matrix: Units µg/Kg-dry | 11/8/201 SOLID DF | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND ND ND | 0.1 RL 350 350 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 11/8/201 SOLID DF 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND ND ND ND | 0.1 RL 350 350 350 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/201 SOLID DF 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND ND ND ND ND | 0.1 RL 350 350 350 350 350 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/201 SOLID DF 10 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND ND ND ND 7300 | 0.1 RL 350 350 350 350 350 350 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 11/8/201 SOLID DF 10 10 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND ND ND ND 7300 ND | 0.1 RL 350 350 350 350 350 350 350 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 11/8/201 SOLID DF 10 10 10 10 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1244 Aroclor 1254 Aroclor 1254 Aroclor 1260 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 | ELAP CE 2.7 Result 082A) ND ND ND ND 7300 ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 350 350 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/201 SOLID DF 10 10 10 10 10 10 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 SW3545A - 11/9/2018 | ELAP CE 2.7 Result 082A) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 350 350 350 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/201 SOLID DF 10 10 10 10 10 10 10 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |
| MOISTURE CONTEN Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATEI (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1268 Surr: Decachlorobip | NT-ASTM D2216 (NOT 181109007-004 B-5 N2 D BIPHENYLS - EPA 8 SW3545A - 11/9/2018 | ELAP CE 2.7 Result 082A) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 350 350 350 350 350 350 350 350 350 350 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 11/8/201 SOLID DF 10 10 10 10 10 10 10 10 10 10 10 10 | 11/9/2018 8 Date Analyzed Analyst: KF 11/9/2018 3:52:26 PM 11/9/2018 3:52:26 PM |

Date: 12-Nov-18

| CLIENT:Barton & Loguidice, P.C.Project:Concrete Slab SamplingAmphenol | | | | | LabWork (PO#: |)rder: 18 | 31109007 |
|-----------------------------------------------------------------------|---------------------------------------------|------------|----------|------|-------------------|-------------|----------------------|
| Lab SampleID: | 181109007-005 | | | (| Collection Da | te: 11/8/20 |)18 |
| Client Sample I | D: B-5 EO | | | | Matr | ix: SOLID |) |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | ATED BIPHENYLS - EP p: SW3545A - 11/9/20 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 17000 | | µg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1221 | | ND | 17000 | | μg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1232 | | ND | 17000 | | μg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1242 | | ND | 17000 | | µg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1248 | | 290000 | 17000 | | μg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1254 | | ND | 17000 | | µg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1260 | | ND | 17000 | | µg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1262 | | ND | 17000 | | µg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Aroclor 1268 | | ND | 17000 | | µg/Kg-dry | 500 | 11/9/2018 5:39:21 PM |
| Surr: Decachlo | probiphenyl | 0 | 48.1-152 | S | %REC | 500 | 11/9/2018 5:39:21 PM |
| MOISTURE CON | ITENT-ASTM D2216 (N | OT ELAP CE | RTIFIED) | | | | Analyst: TSZ |
| Percent Moisture | | 3.8 | 0.1 | | wt% | 1 | 11/9/2018 |

| Adirono Environmental Se | tack | Albany, N 518-434-4 | Pearl Stree ew York 122 1546/434-08 | 207 391 FAX | | | | AI | ES Work | (Orde | r # | 181 | JSTODY RECORD |
|-----------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|------------------------|--------------------|----------------|------------|---------|--------------------------------------|-----------------|------------------------|--------------------------|
| Experience is the Client Name: | | | | | | | | | | | | | $\sqrt{2}$ |
| Barton Send Report To: Scott No Client Phone No: | astrand | Client Email: | Project Nam Ampher | e (Location) | ۰۰. ۱۹۲۱ lumber: | | <u> </u> | | Sam | plers: 2 ₀₋₁ plers: | (Na \ (Si | ames) Va gnature | 7 13088 ndam 2002 |
| 315 457 | 5200 | saustra | nde bart | enalley | ruidi | LQ109 | ~\ Tim | , | Sampl | e Type | 12 | L/ Number | 262 |
| AES Sample Number | | Client mple Identificatio | | | Sar | ate npled | A=a.r P=p.r | n. | Matrix | Comp | Grab | of Cont's | Analysis Required |
| 001 | SW- | | | | 111 | 8/18 | | | 5 | | X | 1 | PCB, |
| 002 | 5W - | <u> </u> | J | | | | 1: 20 | | 5 | ļ | F | 1 | PCBS |
| 003 | B-5 B-5 | 52 | | | | | 2:00 | | \$ | | L | ١ | PCB, |
| C-C-H | B-5 | N2 | | | | | 2 45 | | 5 | | F | 1 | PCBs |
| cos | B-5 | ÉΘ | | | J | / | 3:20 | A P | \$ | | * | l | PCBs |
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| Shipment Arriv | od Via: | | | CC Repo | rt To / S | necial In | structio | P ns/Be | emarks: | | | <u> </u> | |
| Fedex UPS Turnaround Tim A 1 Day 2 Day | Client AES | Other: | | | | | | | | | | | |
| Relinguished by | (Signature) | and and the second s | Yanna a gar a gan da | Received | l by: (Si | gnature) | | | | | | | Date/Time |
| Relinquished b | y: (Signature) | , | | Received | l by: (Si | gnature) | | | | | | | Date/Time |
| Relinquished b | y: (Signature) | | | Received | | | يەسىر. | ja | bo | | | | Date/Time |
| A Notes: | TEMPERATURE | | AES Bottles / N] _ Not | (es: | Ŷ) | PRESERVE | | | - | N | lote | | YED WITHIN HOLDING TIMES |
| | WHITE - Li | | Adirondo | | | npler Cop menti | | ervi | ices | · | | | |



314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, Inc. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



Experience is the solution 314 North Pearl Street

Albany, New York 12207 (800) 848-4983

(518) 434-4546

Fax (518) 434-0891

December 05, 2018

Matthew Strodel Barton & Loguidice, P.C. 443 Electronics Parkway Liverpool, NY 13088

TEL: (315) 457-5200

Work Order No: 181204003

RE: Amphenol

Dear Matthew Strodel:

Adirondack Environmental Services, Inc received 10 samples on 12/4/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jon David

ELAP#: 10709

Tara Daniels Laboratory Director

CASE NARRATIVE

| CLIENT: | Barton & Loguidice, P.C. | Date: 05-Dec-18 |
|------------|--------------------------|------------------------|
| Project: | Amphenol | |
| Lab Order: | 181204003 | |

Sample containers were not supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| Qualifiers: | ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
|-------------|----------------------------------------------|---------------------------------------------------|
| | J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| | B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| | X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| | H: Hold time exceeded | Z: Duplication outside acceptable limits |
| | N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| | N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |
| | | |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

| CLIENT: Barton & Logu Project: Amphenol | idice, P.C. | | | LabWork (PO#: | Order: 18 | 1204003 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181204003-(| 001 | | (| Collection Da | te: 12/3/20 | 18 |
| Client Sample ID: B-5-SW-1 | | | | Matr | ix: SOLID | |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYL (Prep: SW3545A - | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 14000 | | µg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1221 | ND | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1232 | ND | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1242 | ND | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1248 | 410000 | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1254 | ND | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1260 | ND | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1262 | ND | 14000 | | μg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Aroclor 1268 | ND | 14000 | | µg/Kg-dry | 400 | 12/4/2018 3:18:28 PM |
| Surr: Decachlorobiphenyl | 0 | 48.1-152 | S | %REC | 400 | 12/4/2018 3:18:28 PM |
| | 216 (NOT ELAP CE | RTIFIED) | | | | Analyst: TS |
| MOISTURE CONTENT-ASTM D2 | 4.0 | RTIFIED) 0.1 | | wt% | 1 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-0 | 4.0 | - | | Collection Da | te: 12/3/20 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-0 | 4.0 | - | | Collection Da | | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 | 4.0 | 0.1 | | Collection Da | te: 12/3/20 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses | 4.0 002 Result -S - EPA 8082A | 0.1 | | Collection Da Matr | te: 12/3/20 ix: SOLID | 12/4/2018 18 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL | 4.0 002 Result -S - EPA 8082A | 0.1 | | Collection Da Matr | te: 12/3/20 ix: SOLID | 12/4/2018 18 Date Analyzed |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-(Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - | 4.0 002 Result .S - EPA 8082A 12/4/2018) | 0.1 RL | | Collection Da Matr Units | te: 12/3/20 ix: SOLID DF | 12/4/2018 18 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 | 4.0 002 Result .S - EPA 8082A 12/4/2018) ND | 0.1 RL 13000 | | Collection Da Matr Units μg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 4.0 002 Result -S - EPA 8082A 12/4/2018) ND ND | 0.1 RL 13000 13000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 | 4.0 002 Result -S - EPA 8082A 12/4/2018) ND ND ND ND | 0.1 RL 13000 13000 13000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 4.0 002 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND | 0.1 RL 13000 13000 13000 13000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1248 | 4.0 002 Result .S - EPA 8082A 12/4/2018) ND ND ND ND ND ND 390000 | 0.1 RL 13000 13000 13000 13000 13000 13000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 4.0 002 Result .S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 13000 13000 13000 13000 13000 13000 13000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 400 400 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 | 4.0 002 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 13000 13000 13000 13000 13000 13000 13000 13000 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 400 400 400 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 4.0 002 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 13000 13000 13000 13000 13000 13000 13000 13000 13000 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 400 400 400 400 400 400 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-5-SE-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 4.0 002 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 13000 13000 13000 13000 13000 13000 13000 13000 13000 48.1-152 | Qual | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 400 400 400 400 400 400 400 400 400 40 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 6:35:26 PM 12/4/2018 6:35:26 PM |

Date: 05-Dec-18

| | on & Loguidice, P.C. henol | | | LabWork () PO#: | Order: 18] | 1204003 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 18 | 31204003-003 | | (| Collection Dat | te: 12/3/20 | 18 |
| Client Sample ID: B- | -5-SE-2 | | | Matri | ix: SOLID | |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| | BIPHENYLS - EPA 8082A 3545A - 12/4/2018) | | | | | Analyst: KF |
| Aroclor 1016 | ND | 350000 | | µg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1221 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1232 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1242 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1248 | 1000000 | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1254 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1260 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1262 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| Aroclor 1268 | ND | 350000 | | μg/Kg-dry | 10000 | 12/4/2018 6:48:49 PM |
| | | | ~ | %REC | 10000 | 12/4/2018 6:48:49 PM |
| Surr: Decachlorobiphe | onyl 0 ASTM D2216 (NOT ELAP C | 48.1-152 ERTIFIED) | S | | 10000 | Analyst: TS2 |
| MOISTURE CONTENT- | ASTM D2216 (NOT ELAP C | | - | wt% | 1 | Analyst: TS2 12/4/2018 |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 | ERTIFIED) | - | wt% Collection Dat | 1 te: 12/3/20 | Analyst: TS2 12/4/2018 |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 | ERTIFIED) 0.1 | | wt% Collection Dat Matri | 1 te: 12/3/20 ix: SOLID | Analyst: TS2 12/4/2018 18 |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result | ERTIFIED) 0.1 | | wt% Collection Dat | 1 te: 12/3/20 | Analyst: TS2 12/4/2018 18 Date Analyzed |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 | ERTIFIED) 0.1 | | wt% Collection Dat Matri | 1 te: 12/3/20 ix: SOLID | Analyst: TS2 12/4/2018 18 |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A | ERTIFIED) 0.1 | | wt% Collection Dat Matri | 1 te: 12/3/20 ix: SOLID | Analyst: TS2 12/4/2018 18 Date Analyzed |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A 3545A - 12/4/2018) | ERTIFIED) 0.1 RL | | wt% Collection Dat Matri Units μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A 3545A - 12/4/2018) ND | ERTIFIED) 0.1 RL 34000 | | wt% Collection Dat Matri Units | 1 te: 12/3/20 ix: SOLID DF 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A (3545A - 12/4/2018) ND ND | ERTIFIED) 0.1 RL 34000 34000 | | wt% Collection Dat Matri Units μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1232 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result 3IPHENYLS - EPA 8082A (3545A - 12/4/2018) ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 | | wt% Collection Dat Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A (3545A - 12/4/2018) ND ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 34000 34000 | | wt% Collection Dat Matri Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 1000 | Analyst: TS 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A 3545A - 12/4/2018) ND ND ND ND ND ND ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 34000 34000 34000 | | wt% Collection Dat Matri Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 1000 1000 | Analyst: TS 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result 3545A - 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 34000 34000 34000 | | wt% Collection Dat Matri Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 1000 1000 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result BIPHENYLS - EPA 8082A 3545A - 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 34000 34000 34000 34000 34000 | | wt% Collection Dat Matri Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 1000 1000 1000 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result 3100000 3545A - 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 34000 34000 34000 34000 34000 34000 | | wt% Collection Dat Matri Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 1000 1000 1000 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |
| MOISTURE CONTENT- Percent Moisture Lab SampleID: 18 Client Sample ID: B- Analyses POLYCHLORINATED E (Prep: SW Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1242 Aroclor 1244 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlorobiphe | ASTM D2216 (NOT ELAP C 5.8 31204003-004 -5-E-2 Result 3100000 3545A - 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | ERTIFIED) 0.1 RL 34000 34000 34000 34000 34000 34000 34000 34000 34000 34000 34000 34000 34000 34000 | Qual | wt% Collection Dat Matri Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 te: 12/3/20 ix: SOLID DF 1000 1000 1000 1000 1000 1000 1000 | Analyst: TS2 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 7:02:10 PM 12/4/2018 7:02:10 PM |

Date: 05-Dec-18

| CLIENT: Barton & Loguid Project: Amphenol | lice, P.C. | | LabWork (PO#: | Order: 18 | 1204003 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181204003-00 |)5 | | Collection Da | te: 12/3/20 | 018 |
| Client Sample ID: B-5-NE-1 | | | Matr | ix: SOLID | |
| Analyses | Result | RL | Qual Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 | | | | | Analyst: KF |
| Aroclor 1016 | ND | 690 | µg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1221 | ND | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1232 | ND | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1242 | ND | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1248 | 7700 | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1254 | ND | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1260 | ND | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1262 | ND | 690 | µg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Aroclor 1268 | ND | 690 | μg/Kg-dry | 20 | 12/4/2018 4:24:59 PM |
| Surr: Decachlorobiphenyl | 120 | 48.1-152 | %REC | 20 | 12/4/2018 4:24:59 PM |
| | - | RTIFIED) | | | Analyst: TSZ |
| MOISTURE CONTENT-ASTM D221 Percent Moisture | 16 (NOT ELAP CE 4.7 | RTIFIED) 0.1 | wt% | 1 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D221 | 16 (NOT ELAP CE 4.7 | - | Collection Da | te: 12/3/20 | 12/4/2018 018 |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 | 16 (NOT ELAP CE 4.7 | - | Collection Da | | 12/4/2018 |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 | 16 (NOT ELAP CE 4.7 | 0.1 | Collection Da | te: 12/3/20 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A | 0.1 | Collection Da Matr | te: 12/3/20 ix: SOLID | 12/4/2018 018 |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A | 0.1 | Collection Da Matr | te: 12/3/20 ix: SOLID | 12/4/2018 018 Date Analyzed |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) | 0.1 RL | Collection Da Matr Qual Units | te: 12/3/20 ix: SOLID DF | 12/4/2018 118 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND | 0.1 RL 690 | Collection Da Matr Qual Units µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND | 0.1 RL 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1232 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND ND | 0.1 RL 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND ND ND ND | 0.1 RL 690 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 20 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND ND ND ND ND ND ND | 0.1 RL 690 690 690 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 20 20 20 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 690 690 690 690 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 690 690 690 690 690 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 16 (NOT ELAP CE 4.7 06 Result - EPA 8082A 2/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 690 690 690 690 690 690 690 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |
| MOISTURE CONTENT-ASTM D221 Percent Moisture Lab SampleID: 181204003-00 Client Sample ID: B-5-NE-2 Analyses POLYCHLORINATED BIPHENYLS (Prep: SW3545A - 12 Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 16 (NOT ELAP CE 4.7 6 Result - EPA 8082A 2/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 690 690 690 690 690 690 690 690 690 690 | Collection Da Matr Qual Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 20 20 20 20 20 20 20 20 20 20 20 20 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 4:38:23 PM 12/4/2018 4:38:23 PM |

Date: 05-Dec-18

| CLIENT: Barton & Logu Project: Amphenol | idice, P.C. | | | LabWork (PO#: | Order: 18 | 1204003 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181204003-(| 007 | | (| Collection Da | te: 12/3/20 | 18 |
| Client Sample ID: B-5-NE-3 | | | | Matr | rix: SOLID | |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYL (Prep: SW3545A - | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 6800 | | µg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1221 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1232 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1242 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1248 | 130000 | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1254 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1260 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1262 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Aroclor 1268 | ND | 6800 | | μg/Kg-dry | 200 | 12/4/2018 4:51:44 PM |
| Surr: Decachlorobiphenyl | 0 | 48.1-152 | S | %REC | 200 | 12/4/2018 4:51:44 PM |
| MOISTURE CONTENT-ASTM D2 | 216 (NOT ELAP CE | RTIFIED) | | | | Analyst: TS2 |
| MOISTURE CONTENT-ASTM D2 | 2.7 | RTIFIED) 0.1 | | wt% | 1 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2: Percent Moisture Lab SampleID: 181204003-0 | 2.7 | - | | Collection Da | te: 12/3/20 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 | 2.7 | 0.1 | | Collection Da | | 12/4/2018 |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 | 2.7 008 Result .S - EPA 8082A | 0.1 | | Collection Da Matr | ite: 12/3/20 | 12/4/2018 118 |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL | 2.7 008 Result S - EPA 8082A 12/4/2018) | 0.1 | | Collection Da Matr Units | ite: 12/3/20 | 12/4/2018 118 Date Analyzed |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-(Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - | 2.7 008 Result .S - EPA 8082A 12/4/2018) ND | 0.1 RL | | Collection Da Matr Units μg/Kg-dry | ite: 12/3/20 ix: SOLID DF | 12/4/2018 118 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 | 2.7 008 Result S - EPA 8082A 12/4/2018) | 0.1 RL 6700 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND | 0.1 RL 6700 6700 | | Collection Da Matr Units μg/Kg-dry | ate: 12/3/20 ix: SOLID DF 200 200 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D23 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND ND | 0.1 RL 6700 6700 6700 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | ate: 12/3/20 ix: SOLID DF 200 200 200 200 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND | 0.1 RL 6700 6700 6700 6700 6700 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 200 200 200 200 200 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1248 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND | 0.1 RL 6700 6700 6700 6700 6700 6700 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 200 200 200 200 200 200 20 | 12/4/2018 118 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-(Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 6700 6700 6700 6700 6700 6700 6700 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 200 200 200 200 200 200 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 6700 6700 6700 6700 6700 6700 6700 670 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 200 200 200 200 200 200 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 6700 6700 6700 6700 6700 6700 6700 670 | | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 200 200 200 200 200 200 20 | 12/4/2018 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |
| MOISTURE CONTENT-ASTM D22 Percent Moisture Lab SampleID: 181204003-0 Client Sample ID: B-1-S-1 Analyses POLYCHLORINATED BIPHENYL (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 2.7 008 Result S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 6700 6700 6700 6700 6700 6700 6700 670 | Qual | Collection Da Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | tte: 12/3/20 ix: SOLID DF 200 200 200 200 200 200 200 20 | 12/4/2018 Date Analyzed Analyst: KF 12/4/2018 5:05:06 PM 12/4/2018 5:05:06 PM |

Date: 05-Dec-18

| CLIENT: Barton & Logu Project: Amphenol | iidice, P.C. | | | LabWork (PO#: | Order: 18] | 1204003 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: 181204003- | 009 | | | Collection Da | te: 12/3/20 | 18 |
| Client Sample ID: B-1-S-2 | | | | Matr | ix: SOLID | |
| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
| POLYCHLORINATED BIPHENYI (Prep: SW3545A - | | | | | | Analyst: KF |
| Aroclor 1016 | ND | 6700 | | µg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1221 | ND | 6700 | | μg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1232 | ND | 6700 | | μg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1242 | ND | 6700 | | μg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1248 | 94000 | 6700 | | µg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1254 | ND | 6700 | | µg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1260 | ND | 6700 | | µg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1262 | ND | 6700 | | µg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Aroclor 1268 | ND | 6700 | | µg/Kg-dry | 200 | 12/4/2018 5:28:27 PM |
| Surr: Decachlorobiphenyl | 0 | 48.1-152 | S | %REC | 200 | 12/4/2018 5:28:27 PM |
| MOISTURE CONTENT-ASTM D2 | 216 (NOT ELAP CE | RTIFIED) | | | | Analyst: TS2 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture | 1.6 | RTIFIED) 0.1 | | wt% | 1 te: 12/3/20 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- | 1.6 | · | | Collection Da | te: 12/3/20 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S | 1.6 | 0.1 | | Collection Da Matr | | 12/4/2018 18 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI | 1.6 010 S-2 Result -S - EPA 8082A | 0.1 | | Collection Da | te: 12/3/202 | 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses | 1.6 010 S-2 Result -S - EPA 8082A | 0.1 | | Collection Da Matr | te: 12/3/202 | 12/4/2018 18 Date Analyzed |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI | 1.6 010 S-2 Result | 0.1 | | Collection Da Matr | te: 12/3/202 | 12/4/2018 18 Date Analyzed |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - | 1.6 010 5-2 Result -S - EPA 8082A 12/4/2018) | 0.1 RL | | Collection Da Matr Units | te: 12/3/201 ix: SOLID DF | 12/4/2018 18 Date Analyzed Analyst: KF |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 | 1.6 010 3-2 Result .S - EPA 8082A 12/4/2018) ND | 0.1 RL 340000 | | Collection Da Matr Units µg/Kg-dry | te: 12/3/201 ix: SOLID DF 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 | 1.6 010 S-2 Result -S - EPA 8082A 12/4/2018) ND ND | 0.1 RL 340000 340000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry | te: 12/3/201 ix: SOLID DF 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 | 1.6 010 S-2 Result -S - EPA 8082A 12/4/2018) ND ND ND ND | 0.1 RL 340000 340000 340000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/20 ix: SOLID DF 10000 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 1.6 010 3-2 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND | 0.1 RL 340000 340000 340000 340000 | | Collection Dat Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/201 ix: SOLID DF 10000 10000 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 12/4/2018 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | 1.6 010 3-2 Result -S - EPA 8082A 12/4/2018) ND ND ND ND 3500000 | 0.1 RL 340000 340000 340000 340000 340000 | | Collection Dar Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/201 ix: SOLID DF 10000 10000 10000 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 |
| MOISTURE CONTENT-ASTM D2 Percent Moisture Lab SampleID: 181204003- Client Sample ID: B-1-SW-P-S Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 1.6 010 3-2 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340000 340000 340000 340000 340000 340000 | | Collection Da Matr Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | te: 12/3/201 ix: SOLID DF 10000 10000 10000 10000 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 |
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| Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 1.6 010 S-2 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340000 340000 340000 340000 340000 340000 340000 340000 | | Collection Dat Matr Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 10000 10000 10000 10000 10000 10000 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 |
| Analyses POLYCHLORINATED BIPHENYI (Prep: SW3545A - Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 | 1.6 010 3-2 Result -S - EPA 8082A 12/4/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 340000 340000 340000 340000 340000 340000 340000 340000 340000 340000 340000 | Qual | Collection Dat Matr Units Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | te: 12/3/20 ix: SOLID DF 10000 10000 10000 10000 10000 10000 10000 10000 10000 | 12/4/2018 18 Date Analyzed Analyst: KF 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 12/4/2018 |

Date: 05-Dec-18

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314 North Pearl Street Albany, New York 12207 518-434-4546/434-0891 FAX

| CHAIN OF | CUSTODY | RECORD |
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AES Work Order #

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

| lient Name: | | Address: | | | | | | a fill a second | |
|---------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|----------------|------------------|------------------------|----------------------------|--|
| B+L Send Report To: | Scott Nestrand | 443 Efectronics Nemp Live 443 Efectronics Nemp Live 644 Efectronics Nemp Live 644 Broject Name (Location) 644 Amplement 644 A | | | Names) | prof at 13083 | | | |
| Client Email: | | SNOSTRODE 205 | PO Number: | b.æ/ | Sam | plers: (| Signature | Hotel | |
| AES Sample Number | Client Sample Identificatio | | Date Sampled | Time A=a.m. P=p.m. | Samp Matrix | le Type Comb | Number of Cont's | Analysis Required | |
| 001 | B-5-5W-1 | | 12/3/18 | - 1.50 A | | 1.1 | 1 | PCBs | |
| DUD | 0-5-5E-1 | | | Nil P | -> | | | | |
| 23 | B-5-5E-2 | | | Pio P | \downarrow | | | | |
| 204 | 8-5-E-2 | | | P.J.C.P | 5 | | | | |
| 200 | 13-5-NE-1 | | | P'SS P | 5 | | | | |
| 206 | B-5-NE-2 | | | (2)5 P | 1 | | | | |
| 307 | B-5-NE-3 | | | Rive P | | | | | |
| 208- | 1-1-5-1 | | | 12 t | | | | | |
| XU9 | B-1-5-2 | | | | | | | | |
| 276 | B-1-5W-A | 2-2-2 | 1 | P-35 P | 3, 4 | \mathbb{V}_{-} | | | |
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| hipment Arriv | and Via: | l. | C Report To / Special | Instructions/ | | <u> </u> | | | |
| edEx UPS urnaround Tim 1 Day 2 Day | Client AES Other: le Request: | | Pleese e jinick | olse æm e | jth | per | 4 4. .con | s Jim Micken | |
| | eceived after 3:30 pm are considered ne. y; (Signature) | R | leceived by: (Signatur | | | , | | Date/Time 13/3/18 17:00 | |
| elinquished b | y: (Signature) | R | Received by: (Signatur | e) | | | | Date/Time | |
| elinquished b | y: (Signature) | | Received for Laborator | ry by: | | | | Date/Time 12/4/18 8:33 | |
| A Notes: | TEMPERATURE | AES Bottles Y N D X Notes: | PROPERLY PRESER | | | | Receiv | ed Within Holding Times | |
| | WHITE - Lab Copy | Adirondack | YELLOW - Sampler C Environmer | | /ices | | | 181204003 | |



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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, Inc. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



ANALYTICAL REPORT

| Lab Number: | L1849352 |
|-----------------|------------------------------------------------------------------------|
| Client: | Barton & Loguidice, P.C 443 Electronics Pkwy Liverpool, NY 13088 |
| ATTN: Phone: | Matthew Strodel (716) 352-2102 |
| Project Name: | AMPHENOLL |
| Project Number: | 1153.010.001 |
| Report Date: | 12/05/18 |
| | |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:12051817:32

| Project Name: | AMPHENOLL |
|-----------------|--------------|
| Project Number: | 1153.010.001 |

| Lab Number: | L1849352 |
|--------------|----------|
| Report Date: | 12/05/18 |

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-------------|--------|--------------------|-------------------------|--------------|
| L1849352-01 | B-5 0-1" | SOLID | SIDNEY, NY | 12/03/18 11:03 | 12/03/18 |
| L1849352-02 | B-5 0-1-2" | SOLID | SIDNEY, NY | 12/03/18 11:05 | 12/03/18 |
| L1849352-03 | B-5 2-3" | SOLID | SIDNEY, NY | 12/03/18 11:07 | 12/03/18 |
| L1849352-04 | B-5-E0 0-1" | SOLID | SIDNEY, NY | 12/03/18 11:28 | 12/03/18 |
| L1849352-05 | B-5-E0 1-2" | SOLID | SIDNEY, NY | 12/03/18 11:30 | 12/03/18 |
| L1849352-06 | B-5-E0 2-3" | SOLID | SIDNEY, NY | 12/03/18 11:32 | 12/03/18 |
| L1849352-07 | B-1 0-1" | SOLID | SIDNEY, NY | 12/03/18 11:57 | 12/03/18 |
| L1849352-08 | B-1 1-2" | SOLID | SIDNEY, NY | 12/03/18 11:59 | 12/03/18 |
| L1849352-09 | B-1 2-3" | SOLID | SIDNEY, NY | 12/03/18 12:01 | 12/03/18 |

Project Name:AMPHENOLLProject Number:1153.010.001

 Lab Number:
 L1849352

 Report Date:
 12/05/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name:AMPHENOLLProject Number:1153.010.001

 Lab Number:
 L1849352

 Report Date:
 12/05/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1849352-02, -05, and -08: The sample was received in an inappropriate container for the PCBs analysis.

PCBs

L1849352-02, -05, and -08: The surrogate recoveries are below the acceptance criteria for 2,4,5,6tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Michelle M. Morris Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 12/05/18



ORGANICS



PCBS



| | | | | Serial_No | :12051817:32 |
|--------------------|----------------|---|----------------|-------------------|----------------|
| Project Name: | AMPHENOLL | | | Lab Number: | L1849352 |
| Project Number: | 1153.010.001 | | | Report Date: | 12/05/18 |
| | | | SAMPLE RESULTS | | |
| Lab ID: | L1849352-02 | D | | Date Collected: | 12/03/18 11:05 |
| Client ID: | B-5 0-1-2" | | | Date Received: | 12/03/18 |
| Sample Location: | SIDNEY, NY | | | Field Prep: | Not Specified |
| Sample Depth: | | | | | |
| Matrix: | Solid | | | Extraction Method | : EPA 3540C |
| Analytical Method: | 1,8082A | | | Extraction Date: | 12/04/18 06:09 |
| Analytical Date: | 12/05/18 16:31 | | | Cleanup Method: | EPA 3665A |
| Analyst: | AWS | | | Cleanup Date: | 12/05/18 |
| Percent Solids: | 96% | | | Cleanup Method: | EPA 3660B |
| | | | | Cleanup Date: | 12/05/18 |
| | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column | | | |
|---------------------------------------------------|---------|-----------|-------|--------|--------|-----------------|--------|--|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab | | | | | | | | | | |
| Assesses 4040 | | | | 470000 | 44000 | 5000 | | | | |
| Aroclor 1016 | ND | | ug/kg | 472000 | 41900 | 5000 | A | | | |
| Aroclor 1221 | ND | | ug/kg | 472000 | 47200 | 5000 | А | | | |
| Aroclor 1232 | ND | | ug/kg | 472000 | 100000 | 5000 | А | | | |
| Aroclor 1242 | ND | | ug/kg | 472000 | 63600 | 5000 | А | | | |
| Aroclor 1248 | 5070000 | | ug/kg | 472000 | 70700 | 5000 | В | | | |
| Aroclor 1254 | ND | | ug/kg | 472000 | 51600 | 5000 | А | | | |
| Aroclor 1260 | ND | | ug/kg | 472000 | 87100 | 5000 | А | | | |
| Aroclor 1262 | ND | | ug/kg | 472000 | 59900 | 5000 | А | | | |
| Aroclor 1268 | ND | | ug/kg | 472000 | 48800 | 5000 | А | | | |
| PCBs, Total | 5070000 | | ug/kg | 472000 | 41900 | 5000 | В | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | А |
| Decachlorobiphenyl | 0 | Q | 30-150 | А |
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | В |
| Decachlorobiphenyl | 0 | Q | 30-150 | В |



| | | | | Serial_No | :12051817:32 |
|--------------------|----------------|---|----------------|-------------------|----------------|
| Project Name: | AMPHENOLL | | | Lab Number: | L1849352 |
| Project Number: | 1153.010.001 | | | Report Date: | 12/05/18 |
| | | | SAMPLE RESULTS | | |
| Lab ID: | L1849352-05 | D | | Date Collected: | 12/03/18 11:30 |
| Client ID: | B-5-E0 1-2" | | | Date Received: | 12/03/18 |
| Sample Location: | SIDNEY, NY | | | Field Prep: | Not Specified |
| Sample Depth: | | | | | |
| Matrix: | Solid | | | Extraction Method | : EPA 3540C |
| Analytical Method: | 1,8082A | | | Extraction Date: | 12/04/18 06:09 |
| Analytical Date: | 12/05/18 15:50 | | | Cleanup Method: | EPA 3665A |
| Analyst: | AWS | | | Cleanup Date: | 12/05/18 |
| Percent Solids: | 96% | | | Cleanup Method: | EPA 3660B |
| | | | | Cleanup Date: | 12/05/18 |
| | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column | | | |
|---------------------------------------------------|--------|-----------|-------|-------|-------|------------------------|--------|--|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab | | | | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 50300 | 4460 | 500 | A | | | |
| Aroclor 1221 | ND | | ug/kg | 50300 | 5040 | 500 | А | | | |
| Aroclor 1232 | ND | | ug/kg | 50300 | 10600 | 500 | А | | | |
| Aroclor 1242 | ND | | ug/kg | 50300 | 6780 | 500 | А | | | |
| Aroclor 1248 | 214000 | | ug/kg | 50300 | 7540 | 500 | В | | | |
| Aroclor 1254 | ND | | ug/kg | 50300 | 5500 | 500 | А | | | |
| Aroclor 1260 | ND | | ug/kg | 50300 | 9290 | 500 | А | | | |
| Aroclor 1262 | ND | | ug/kg | 50300 | 6380 | 500 | А | | | |
| Aroclor 1268 | ND | | ug/kg | 50300 | 5210 | 500 | А | | | |
| PCBs, Total | 214000 | | ug/kg | 50300 | 4460 | 500 | В | | | |

| | | | Acceptance | |
|------------------------------|------------|-----------|------------|--------|
| Surrogate | % Recovery | Qualifier | Criteria | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | A |
| Decachlorobiphenyl | 0 | Q | 30-150 | А |
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | В |
| Decachlorobiphenyl | 0 | Q | 30-150 | В |



| | | | | Serial_No | :12051817:32 |
|--------------------|----------------|---|----------------|-------------------|----------------|
| Project Name: | AMPHENOLL | | | Lab Number: | L1849352 |
| Project Number: | 1153.010.001 | | | Report Date: | 12/05/18 |
| | | | SAMPLE RESULTS | | |
| Lab ID: | L1849352-08 | D | | Date Collected: | 12/03/18 11:59 |
| Client ID: | B-1 1-2" | | | Date Received: | 12/03/18 |
| Sample Location: | SIDNEY, NY | | | Field Prep: | Not Specified |
| Sample Depth: | | | | | |
| Matrix: | Solid | | | Extraction Method | : EPA 3540C |
| Analytical Method: | 1,8082A | | | Extraction Date: | 12/04/18 06:09 |
| Analytical Date: | 12/05/18 16:19 | | | Cleanup Method: | EPA 3665A |
| Analyst: | AWS | | | Cleanup Date: | 12/05/18 |
| Percent Solids: | 96% | | | Cleanup Method: | EPA 3660B |
| | | | | Cleanup Date: | 12/05/18 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column | | | |
|---------------------------------------------------|--------|-----------|-------|-------|------|------------------------|--------|--|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab | | | | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 24100 | 2140 | 250 | A | | | |
| Aroclor 1221 | ND | | ug/kg | 24100 | 2420 | 250 | А | | | |
| Aroclor 1232 | ND | | ug/kg | 24100 | 5110 | 250 | А | | | |
| Aroclor 1242 | ND | | ug/kg | 24100 | 3250 | 250 | А | | | |
| Aroclor 1248 | 107000 | | ug/kg | 24100 | 3620 | 250 | В | | | |
| Aroclor 1254 | ND | | ug/kg | 24100 | 2640 | 250 | А | | | |
| Aroclor 1260 | ND | | ug/kg | 24100 | 4460 | 250 | А | | | |
| Aroclor 1262 | ND | | ug/kg | 24100 | 3060 | 250 | А | | | |
| Aroclor 1268 | ND | | ug/kg | 24100 | 2500 | 250 | А | | | |
| PCBs, Total | 107000 | | ug/kg | 24100 | 2140 | 250 | В | | | |

| | | | Acceptance | |
|------------------------------|------------|-----------|------------|--------|
| Surrogate | % Recovery | Qualifier | Criteria | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | А |
| Decachlorobiphenyl | 0 | Q | 30-150 | А |
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | В |
| Decachlorobiphenyl | 0 | Q | 30-150 | В |



L1849352 12/05/18

| Project Name: | AMPHENOLL | Lab Number: |
|-----------------|--------------|--------------|
| Project Number: | 1153.010.001 | Report Date: |

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: Analyst:

1,8082A 12/05/18 14:02 AWS Extraction Method:EPA 3540CExtraction Date:12/04/18 06:09Cleanup Method:EPA 3665ACleanup Date:12/05/18Cleanup Method:EPA 3660BCleanup Date:12/05/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---------------------------------|--------------|-------------|-----------|----------|------------|----------|
| Polychlorinated Biphenyls by GC | - Westboroug | h Lab for s | ample(s): | 02,05,08 | Batch: WG1 | 185256-1 |
| Aroclor 1016 | ND | | ug/kg | 97.6 | 8.67 | А |
| Aroclor 1221 | ND | | ug/kg | 97.6 | 9.78 | А |
| Aroclor 1232 | ND | | ug/kg | 97.6 | 20.7 | А |
| Aroclor 1242 | ND | | ug/kg | 97.6 | 13.2 | А |
| Aroclor 1248 | ND | | ug/kg | 97.6 | 14.6 | А |
| Aroclor 1254 | ND | | ug/kg | 97.6 | 10.7 | А |
| Aroclor 1260 | ND | | ug/kg | 97.6 | 18.0 | А |
| Aroclor 1262 | ND | | ug/kg | 97.6 | 12.4 | А |
| Aroclor 1268 | ND | | ug/kg | 97.6 | 10.1 | А |
| PCBs, Total | ND | | ug/kg | 97.6 | 8.67 | А |

| | | Acceptanc | e |
|------------------------------|------------------|--------------|--------|
| Surrogate | %Recovery Qualif | ier Criteria | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 91 | 30-150 | А |
| Decachlorobiphenyl | 79 | 30-150 | А |
| 2,4,5,6-Tetrachloro-m-xylene | 90 | 30-150 | В |
| Decachlorobiphenyl | 80 | 30-150 | В |



Lab Control Sample Analysis Batch Quality Control

Project Name:AMPHENOLLProject Number:1153.010.001

 Lab Number:
 L1849352

 Report Date:
 12/05/18

| | LCS | | LCSD | | %Recovery | | | RPD | |
|-----------------------------------------|---------------------|---------------|--------------|-----------|-----------------|--------|------|--------|--------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | Column |
| Polychlorinated Biphenyls by GC - West | borough Lab Associa | ted sample(s) | · 02.05.08 B | atch: WG1 | 185256-2 WG118 | 5256-3 | | | |
| r olychiofinated Diphenyis by CO - West | bolough Lab Associa | | . 02,00,00 D | | 100200-2 100110 | 0200-0 | | | |
| Aroclor 1016 | 83 | | 77 | | 40-140 | 8 | | 50 | А |
| Aroclor 1260 | 83 | | 76 | | 40-140 | 9 | | 50 | А |

| | LCS | LCSD | Accepta | nce |
|------------------------------|-----------|----------------|--------------|-----------|
| Surrogate | %Recovery | Qual %Recovery | Qual Criteri | ia Column |
| 2,4,5,6-Tetrachloro-m-xylene | 95 | 88 | 30-150 | А (|
| Decachlorobiphenyl | 77 | 71 | 30-150 |) A |
| 2,4,5,6-Tetrachloro-m-xylene | 92 | 85 | 30-150 |) В |
| Decachlorobiphenyl | 80 | 74 | 30-150 |) В |



INORGANICS & MISCELLANEOUS



| Serial | No:12051817:32 |
|--------|------------------|
| Ochai_ | _110.12001011.02 |

RI

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analys |
|------------------|-------------|-----------|-------|----------|--------|--------------------|------------------|------------------|----------------------|--------|
| Matrix: | Solid | | | | | | | | | |
| Sample Depth: | | | | | | | | | | |
| Sample Location: | SIDNEY, NY | / | | | | | Field F | rep: | Not Specified | |
| Client ID: | B-5 0-1-2" | | | | | | Date R | Received: | 12/03/18 | |
| Lab ID: | L1849352-02 | 2 | | | | | Date C | Collected: | 12/03/18 11:05 | 1 |
| | | | | SAIVIPLE | RESUL | 13 | | | | |
| | | | | SAMPLE | DEGUIT | re | | | | |
| Project Number: | 1153.010.00 | 1 | | | | | Repor | t Date: | 12/05/18 | |
| Project Name: | AMPHENOL | L | | | | | Lab N | umber: | L1849352 | |

| Solids, Total | 96.4 | % | 0.100 | NA | 1 | - | 12/04/18 10:36 | 121,2540G | |
|---------------|------|---|-------|----|---|---|----------------|-----------|--|
| | | | | | | | | | |



| Serial No:12051817: | No:1205 | 1817:32 |
|---------------------|---------|---------|
|---------------------|---------|---------|

RI

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|-------------|-----------|-------|--------|-------|--------------------|------------------|------------------|----------------------|---------|
| Sample Depth: Matrix: | Solid | | | | | | | | | |
| Sample Location: | SIDNEY, NY | | | | | | Field P | rep: | Not Specified | |
| Client ID: | B-5-E0 1-2" | | | | | | Date R | leceived: | 12/03/18 | |
| Lab ID: | L1849352-0 | 5 | | | | | Date C | collected: | 12/03/18 11:30 | |
| | | | | SAMPLE | RESUL | rs | | | | |
| Project Number: | 1153.010.00 | 1 | | | | | Repor | t Date: | 12/05/18 | |
| Project Name: | AMPHENOL | L | | | | | | umber: | L1849352 | |

| Contortal Chlonnoury | rrootborougir Eab | | | | | | | | |
|----------------------|-------------------|---|-------|----|---|---|----------------|-----------|--|
| Solids, Total | 95.8 | % | 0.100 | NA | 1 | - | 12/04/18 10:36 | 121,2540G | |
| | | | | | | | | | |



| Serial | No:12051817:32 |
|--------|----------------|
| oonal_ | |

Date

Analyzed

12/04/18 10:36

Analytical Method

121,2540G

Analyst

RI

| Project Name: | AMPHENOLL | Lab Number: | L1849352 |
|--------------------------------|------------------------|-------------------------------|---------------------------|
| Project Number: | 1153.010.001 | Report Date: | 12/05/18 |
| | SAMPLE RESULTS | | |
| Lab ID: | L1849352-08 | Date Collected: | 12/03/18 11:59 |
| Client ID: Sample Location: | B-1 1-2" SIDNEY, NY | Date Received: Field Prep: | 12/03/18 Not Specified |

MDL

NA

RL

0.100

Dilution

Factor

1

Date

Prepared

-



Matrix:

Parameter

Solids, Total

Sample Depth:

General Chemistry - Westborough Lab

Solid

96.3

Result Qualifier Units

%

| Project Name: | AMPHENOLL | Lab Duplicate Analysis Batch Quality Control | Lab Number: | L1849352 |
|-----------------|--------------|-------------------------------------------------|--------------|----------|
| Project Number: | 1153.010.001 | | Report Date: | 12/05/18 |
| | | | | |
| | | | | |

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------|--------------------------------|--------------------------|------------|-----------|--------------|--------------|
| General Chemistry - Westborough Lab | Associated sample(s): 02,05,08 | QC Batch ID: WG1185370-1 | QC Sample: | L1848879- | 02 Client ID | : DUP Sample |
| Solids, Total | 85.6 | 80.2 | % | 7 | | 20 |



Project Name:AMPHENOLLProject Number:1153.010.001

Serial_No:12051817:32 *Lab Number:* L1849352 *Report Date:* 12/05/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A | Absent |

| Container Info | Container Information | | Initial | Final | Temp | | | Frozen | |
|----------------|-----------------------|--------|---------|-------|-------|------|--------|-----------|----------------------------|
| Container ID | Container Type | Cooler | | pН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L1849352-01A | Bag | А | NA | | 2.0 | Y | Absent | | HOLD-8082() |
| L1849352-02A | Bag | А | NA | | 2.0 | Y | Absent | | TS(7),NYTCL-8082-CNCRT(14) |
| L1849352-03A | Bag | А | NA | | 2.0 | Y | Absent | | HOLD-8082() |
| L1849352-04A | Bag | А | NA | | 2.0 | Y | Absent | | HOLD-8082() |
| L1849352-05A | Bag | А | NA | | 2.0 | Y | Absent | | TS(7),NYTCL-8082-CNCRT(14) |
| L1849352-06A | Bag | А | NA | | 2.0 | Y | Absent | | HOLD-8082() |
| L1849352-07A | Bag | А | NA | | 2.0 | Y | Absent | | HOLD-8082() |
| L1849352-08A | Bag | А | NA | | 2.0 | Y | Absent | | TS(7),NYTCL-8082-CNCRT(14) |
| L1849352-09A | Bag | А | NA | | 2.0 | Y | Absent | | HOLD-8082() |
| | | | | | | | | | |



Serial_No:12051817:32

Project Name: AMPHENOLL

Project Number: 1153.010.001

Lab Number: L1849352

Report Date: 12/05/18

GLOSSARY

Acronyms

| - | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EDL | Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample is toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |
| Footnotes | |

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum. Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

DU Report with 'J' Qualifiers Report Format:



Project Name: AMPHENOLL

Project Number: 1153.010.001

 Lab Number:
 L1849352

 Report Date:
 12/05/18

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Project Name:AMPHENOLLProject Number:1153.010.001

 Lab Number:
 L1849352

 Report Date:
 12/05/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene **EPA 8260C:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270D:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil. Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. EPA 245.1 Hg. SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| 1 | CHAIN OF | CUSTO | DY | PAGE 1 OF | 1 | Date | e Rec'd | in Lab: | 12 | 4 | 18 | 1 AC | 18 | ALP | HA J | ob #: | 6 | 1849352 | |
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| ALPHA | | Project Inform | mation | | | Re | port l | nform | ation | Data | Deli | verab | les | Billi | ng In | forma | Contraction of the local division of the loc | | |
| ANALYJICA | 2 | | | | | | FAX | | | 🖾 E | MAIL | | | 🖾 s | Same a | s Client | t info | PO #: 1153.010.0 | |
| Westborough, MA | Mansfield, MA | Drainet Names | Amabasall | | | | ADEx | | | | dd'l De | liverab | les | | | | | | |
| | TEL: 508-822-9300 FAX: 508-822-3288 | Project Name: / | Amphenoli | | | Reg | gulate | ory Re | equire | ement | s/Re | port L | imits | | , de | 10 J | | | |
| Client Informati | | Project Location | n: Sidney, N | IY | | Stat | e/Fed F | Program | 1 | | | | _ | Criter | ia | | | | _ |
| Client: Barton & Lo | | Project #: 1153.010.001 | | | | | | | | | | | | | | | | | |
| | | Project Manager: Matthew Strodel | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Phone: 315-457-52 | | | | | | AN | ALYS | SIS | | | | 8 | | | | | | | TOT |
| Fax: | | Standard | | | | | | | | | | | | | SAMPLE HANDLING | Å | | | |
| | artonandloguidice.co | | E-APPROVED | | | | | | | | | | | | | Done Done Not Needed | | | |
| | been Previously analyzed by Alpha | Due Date: 12/06 | 5/18 Tir | ne: | | | | | | | | | | | | | | | в |
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| ALPHA Lab ID | Sample ID | Colle | sction | Sample | Sampler's | 0 | | | | | | | | | | | | | |
| (Lab Use Only) | Gampie is | Date | Time | Matrix | Initials | PCBs | | | | | | | | | | | | Sample Specific Comments | |
| 49352 -01 | B-5 0-1" | 12/03/18 | 11:03 | Solid | MPS | | | | | | | | | | | | | | 1 |
| -02 | B-5 1-2" | 12/03/18 | 11:05 | Solid | Solid | | | | | | | | | | | | | | 1 |
| - 03 | B-5 2-3" | 12/03/18 | 11:07 | Solid | Solid | | | | | | | | | | | | | | 1 |
| -04 | B-5-E0 0-1" | 12/03/18 | 11:28 | Solid | Solid | | | | | | | | | | | | | | 1 |
| -05 | B-5-E0 1-2" | 12/03/18 | 11:30 | Solid | Solid | \boxtimes | | | | | | | | | | | | | 1 |
| -06 | B-5-E0 2-3" | 12/03/18 | 11:32 | Solid | Solid | | | | | | | | | | | | | | 1 |
| -07 | B-1 0-1* | 12/03/18 | 11:57 | Solid | Solid | | | | | | | | | | | | | | 1 |
| -08 | B-1 1-2" | 12/03/18 | 11:59 | Solid | Solid | | | | | | | | | | | | | | 1 |
| -09 | B-1 2-3" | 12/03/18 | 12:01 | Solid | Solid | | | | | 닏 | | | | Ц | | | H | | 1 |
| | | | | _ | | | | Ш | | Ц | Ш | Ш | Ш | Ц | Ц | | | | _ |
| * Alease a | mly run 1-2" theors for an eccipt of and sults & | Soomple. | 2.4 | | ntainer Type | • | • | • | • | • | | • | • | • | • | | • | Please print clearly, legibly | |
| retain o | theors for an | RSis | 1000 | | Preservative | • | | • | | | • | | • | | | | · | and completely. Samples not be logged in and | can |
| Estains " | eccipt of amon | Rhad A | Reli | nquished By: | | Di | ate/Tim | | 1 |), | Receiv | red By | 10 | - | 1 | Date/Tin | ne a 1 | turnaround time clock will r start until any ambiguities a | are |
| 10 net al re | s AS SA | 114 | and | Topla | au | 20 | 181 | 7:3 | PA | asy | Pa d | <i>De</i> | the | 5 | 104 | 3/1 | 8 40 | submitted are subject to | |
| FORM NO: 01-01(FNJ) (rw. 5-JAN-12) | arriscy | | | | | - | - | | - | N | le | - | | | 12/0 | 1/18 | 01.1 | Alpha's Payment Terms. | |
| | | | | | | 1 | | | | | | | | | | 1 | | | |
| Page 22 of 22 | | | | | | | | | | | | | | | | | | | |



Experience is the solution 314 North Pearl Street

Albany, New York 12207 (800) 848-4983

(518) 434-4546

Fax (518) 434-0891

January 02, 2019

Matthew Strodel Barton & Loguidice, P.C. 443 Electronics Parkway Liverpool, NY 13088

Work Order No: 181218069

TEL: (315) 457-5200

RE: Amphenol Slab Sampling PCB Analysis

Dear Matthew Strodel:

Adirondack Environmental Services, Inc received 8 samples on 12/18/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Krzysztof Trafalski Laboratory Manager ELAP#: 10709

CASE NARRATIVE

| CLIENT: | Barton & Loguidice, P.C. | Date: 02-Jan-19 |
|------------|--------------------------|------------------------|
| Project: | Amphenol Slab Sampling | |
| Lab Order: | 181218069 | |

Sample containers were supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| Qualifiers: | ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
|-------------|----------------------------------------------|---------------------------------------------------|
| | J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| | B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| | X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| | H: Hold time exceeded | Z: Duplication outside acceptable limits |
| | N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| | N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |
| | | |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

| Project: A | arton & Loguidice, P. mphenol Slab Sampli CB Analysis | | | | LabWork Ord PO#: | ler: 181 | 218069 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: Client Sample ID: | 181218069-001 B1-SW-P-S3 | | | | Collection Date: Matrix: | | 018 |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | D BIPHENYLS - EPA SW3545A - 12/19/20 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 3600 | | µg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1221 | | ND | 3600 | | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1232 | | ND | 3600 | | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1242 | | ND | 3600 | | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1248 | | 60000 | 3600 | | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1254 | | ND | 3600 | | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1260 | | ND | 3600 | S | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1262 | | ND | 3600 | - | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| Aroclor 1268 | | ND | 3600 | | μg/Kg-dry | 100 | 12/19/2018 4:07:43 PM |
| | nhonyl | 100 | 48.1-152 | | %REC | 100 | 12/19/2018 4:07:43 PM |
| Surr: Decachlorobi | NT-ASTM D2216 (NC | | RTIFIED) | | | | Analyst: TSZ |
| MOISTURE CONTE | NT-ASTM D2216 (NC | | RTIFIED) 0.1 | | wt% | 1 | 12/28/2018 |
| MOISTURE CONTEL Percent Moisture Lab SampleID: | | T ELAP CE | · | | ^{wt%} Collection Date: Matrix: | 12/18/20 | 12/28/2018 |
| | NT-ASTM D2216 (NC 181218069-002 | T ELAP CE | 0.1 | | Collection Date: | 12/18/20 | 12/28/2018 |
| MOISTURE CONTE Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE | NT-ASTM D2216 (NC 181218069-002 | T ELAP CE 7.8 Result | 0.1 | | Collection Date: Matrix: | 12/18/20 SOLID | 12/28/2018 018 |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | PT ELAP CE 7.8 Result 8082A 018) | 0.1 | | Collection Date: Matrix: Units | 12/18/20 SOLID | 12/28/2018 018 Date Analyzed |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result | 0.1 RL | | Collection Date: Matrix: Units µg/Kg-dry | 12/18/20 SOLID DF | 12/28/2018 D18 Date Analyzed Analyst: KF |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result 8082A 018) ND ND | 0.1 RL 360 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result 8082A 018) ND ND ND | 0.1 RL 360 360 | | Collection Date: Matrix: Units µg/Kg-dry | 12/18/20 SOLID DF 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| AOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result 8082A 018) ND ND ND ND ND | 0.1 RL 360 360 360 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| AOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result 8082A 018) ND ND ND | 0.1 RL 360 360 360 360 360 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: S Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result 8082A 018) ND ND ND ND ND 4700 | 0.1 RL 360 360 360 360 360 360 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| MOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | PT ELAP CE 7.8 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 360 360 360 360 360 360 360 | Qual | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 CD BIPHENYLS - EPA | T ELAP CE 7.8 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 360 360 360 360 360 360 360 360 | Qual | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 10 | 12/28/2018 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| AOISTURE CONTER Percent Moisture Lab SampleID: Client Sample ID: Analyses POLYCHLORINATE (Prep: \$ Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 D BIPHENYLS - EPA SW3545A - 12/19/20 | T ELAP CE 7.8 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 360 360 360 360 360 360 360 360 360 360 | Qual | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 10 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |
| Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1268 Surr: Decachlorobi | NT-ASTM D2216 (NC 181218069-002 B1-SE-P-S1 D BIPHENYLS - EPA SW3545A - 12/19/20 | T ELAP CE 7.8 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | 0.1 RL 360 360 360 360 360 360 360 360 360 360 | Qual | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 10 10 10 10 10 | 12/28/2018 D18 Date Analyzed Analyst: KF 12/19/2018 5:13:04 PM 12/19/2018 5:13:04 PM |

Date: 02-Jan-19

| CLIENT: Project: | Barton & Loguidice, P Amphenol Slab Sampli PCB Analysis | | | | LabWork Ord PO#: | ler: 18] | 1218069 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: Client Sample II | 181218069-003): B-1-S3 | | | | Collection Date: Matrix: | | 018 |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | TED BIPHENYLS - EPA 5: SW3545A - 12/19/2 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 3500 | | µg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1221 | | ND | 3500 | | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1232 | | ND | 3500 | | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1242 | | ND | 3500 | | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1248 | | 22000 | 3500 | | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1254 | | ND | 3500 | | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1260 | | ND | 3500 | S | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1262 | | ND | 3500 | - | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| Aroclor 1268 | | ND | 3500 | | μg/Kg-dry | 100 | 12/19/2018 4:46:54 PM |
| | | | 48.1-152 | | %REC | 100 | 12/19/2018 4:46:54 PM |
| Surr: Decachloi | robiphenyl TENT-ASTM D2216 (NC | | | | | | Analyst: TSZ |
| MOISTURE CON | | | | | wt% Collection Date: | 1 | 12/28/2018 |
| MOISTURE CON Percent Moisture Lab SampleID: | TENT-ASTM D2216 (NC 181218069-004 | OT ELAP CE | RTIFIED) | | | 12/18/20 | 12/28/2018 |
| MOISTURE CON | TENT-ASTM D2216 (NC 181218069-004 | OT ELAP CE | RTIFIED) | | Collection Date: | 12/18/20 | 12/28/2018 |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA | TENT-ASTM D2216 (NC 181218069-004 | DT ELAP CE 5.0 Result A 8082A | RTIFIED) | | Collection Date: Matrix: | 12/18/20 SOLID | 12/28/2018 018 |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A | RTIFIED) | | Collection Date: Matrix: | 12/18/20 SOLID | 12/28/2018 018 Date Analyzed |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prep | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 2018) | RTIFIED) 0.1 RL | | Collection Date: Matrix: Units | 12/18/20 SOLID DF | 12/28/2018 018 Date Analyzed Analyst: KF |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample ID Analyses POLYCHLORINA (Preg Aroclor 1016 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 018) ND | RTIFIED) 0.1 RL 370 | | Collection Date: Matrix: Units µg/Kg-dry | 12/18/20 SOLID DF 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 2018) ND ND ND | RTIFIED) 0.1 RL 370 370 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1232 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 2018) ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| MOISTURE CON Percent Moisture Cab SampleID: Client Sample II Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 2018) ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 | | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample ID Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 2018) ND ND ND ND ND 18000 | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 | | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample ID Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 2018) ND ND ND ND 18000 ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | Qual | Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| AOISTURE CON Percent Moisture Lab SampleID: Client Sample ID Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 | TENT-ASTM D2216 (NC 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA | DT ELAP CE 5.0 Result A 8082A 018) ND ND ND ND 18000 ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | Qual | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| AOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | TENT-ASTM D2216 (NO 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA D: SW3545A - 12/19/2 | DT ELAP CE 5.0 Result A 8082A 018) ND ND ND ND 18000 ND ND ND ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 370 370 | Qual | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |
| MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlor | TENT-ASTM D2216 (NO 181218069-004 D: B-1-S4 TED BIPHENYLS - EPA D: SW3545A - 12/19/2 | DT ELAP CE 5.0 Result A 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 370 370 370 370 370 370 370 370 | Qual | Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/20 SOLID DF 10 10 10 10 10 10 10 10 10 10 10 10 | 12/28/2018 018 Date Analyzed Analyst: KF 12/19/2018 4:59:59 PM 12/19/2018 4:59:59 PM |

Date: 02-Jan-19

| CLIENT: Project: | Barton & Loguidice, P. Amphenol Slab Sampli PCB Analysis | | | | LabWork Ord PO#: | ler: 18 | 1218069 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleID: Client Sample II | 181218069-005 D: B-1-S5 | | | | Collection Date: Matrix: | | |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | ATED BIPHENYLS - EPA p: SW3545A - 12/19/2 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 400 | | µg/Kg-dry | 10 | 12/19/2018 5:47:38 PM |
| Aroclor 1221 | | ND | 400 | | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PM |
| Aroclor 1232 | | ND | 400 | | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PN |
| Aroclor 1242 | | ND | 400 | | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PN |
| Aroclor 1248 | | 3500 | 400 | | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PN |
| Aroclor 1254 | | ND | 400 | | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PN |
| Aroclor 1260 | | ND | 400 | S | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PM |
| Aroclor 1262 | | ND | 400 | _ | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PM |
| Aroclor 1268 | | ND | 400 | | μg/Kg-dry | 10 | 12/19/2018 5:47:38 PM |
| | | | | | %REC | 10 | 12/19/2018 5:47:38 PM |
| Surr: Decachlo | orobiphenyl | | · | | | | Analyst: TSZ |
| Surr: Decachlo MOISTURE CON Percent Moisture | | | | | wt% Collection Date: | 1 | 12/28/2018 |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: | ITENT-ASTM D2216 (NC 181218069-006 | OT ELAP CE | RTIFIED) | | wt% | 12/18/2 | 12/28/2018 |
| Surr: Decachlo | ITENT-ASTM D2216 (NC 181218069-006 | OT ELAP CE | RTIFIED) | | wt% Collection Date: | 12/18/2 | 12/28/2018 |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA | ITENT-ASTM D2216 (NC 181218069-006 | DT ELAP CE 16.7 Result A 8082A | RTIFIED) | | ^{wt%} Collection Date: Matrix: | 12/18/2 SOLID | 12/28/2018 2018 |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A | RTIFIED) | | ^{wt%} Collection Date: Matrix: | 12/18/2 SOLID | 12/28/2018 2018 Date Analyzed |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Pre | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result & 8082A 018) | RTIFIED) 0.1 RL | | wt% Collection Date: Matrix: Units | 12/18/2 SOLID DF | 12/28/2018 2018 Date Analyzed Analyst: KF |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prej Aroclor 1016 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND | RTIFIED) 0.1 RL 360 | | wt% Collection Date: Matrix: Units µg/Kg-dry | 12/18/2 SOLID DF | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prej Aroclor 1016 Aroclor 1221 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND ND | RTIFIED) 0.1 RL 360 360 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prej Aroclor 1016 Aroclor 1221 Aroclor 1232 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND ND ND ND | RTIFIED) 0.1 RL 360 360 360 360 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Pre Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND ND ND ND ND ND | RTIFIED) 0.1 RL 360 360 360 360 360 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Pre Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND ND ND ND ND ND 1200 | RTIFIED) 0.1 RL 360 360 360 360 360 360 360 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 10 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Pre Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND ND ND 1200 ND | RTIFIED) 0.1 RL 360 360 360 360 360 360 360 360 | Qual | wt% Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 12/18/2 SOLID DF 10 10 10 10 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Pre Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 | 181218069-006 D: B-1-S6 | DT ELAP CE 16.7 Result A 8082A 018) ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 360 360 360 360 360 360 360 360 360 360 | Qual | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 10 10 10 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prep Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 | 181218069-006 D: B-1-S6 ATED BIPHENYLS - EPA p: SW3545A - 12/19/2 | DT ELAP CE 16.7 Result 8082A 018) ND ND ND ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 360 360 360 360 360 360 360 360 360 360 | Qual | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 10 10 10 10 10 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |
| Surr: Decachlo MOISTURE CON Percent Moisture Lab SampleID: Client Sample II Analyses POLYCHLORINA (Prej Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Surr: Decachlo | 181218069-006 D: B-1-S6 ATED BIPHENYLS - EPA p: SW3545A - 12/19/2 | DT ELAP CE 16.7 Result A 8082A 018) ND ND ND ND 1200 ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 360 360 360 360 360 360 360 360 | Qual | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 12/18/2 SOLID DF 10 10 10 10 10 10 10 10 10 10 10 | 12/28/2018 2018 Date Analyzed Analyst: KF 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM 12/19/2018 6:36:01 PM |

Date: 02-Jan-19

| CLIENT: Project: | Barton & Loguidice, Amphenol Slab Samj PCB Analysis | | | | LabWork Ord PO#: | ler: 18 | 1218069 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab SampleII Client Sample | | | | | Collection Date: Matrix: | | |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed |
| | NATED BIPHENYLS - E rep: SW3545A - 12/19 | | | | | | Analyst: KF |
| Aroclor 1016 | | ND | 340 | | µg/Kg-dry | 10 | 12/19/2018 6:49:04 PN |
| Aroclor 1221 | | ND | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PM |
| Aroclor 1232 | | ND | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PM |
| Aroclor 1242 | | ND | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PN |
| Aroclor 1248 | | 1500 | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PN |
| Aroclor 1254 | | ND | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PN |
| Aroclor 1260 | | ND | 340 | S | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PM |
| Aroclor 1262 | | ND | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PM |
| | | ND | 340 | | μg/Kg-dry | 10 | 12/19/2018 6:49:04 PM |
| Aroclor 1268 | | | | | | 10 | 10/10/0010 C:40:04 DM |
| Surr: Decac | hlorobiphenyl DNTENT-ASTM D2216 (I | 52.0 NOT ELAP CE | - | | %REC | 10 | 12/19/2018 6:49:04 PM Analyst: TSZ |
| Surr: Decac MOISTURE CO Percent Moistu | ONTENT-ASTM D2216 (I | 52.0 | | | %REC wt% Collection Date: | 1 | Analyst: TSZ 12/28/2018 |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII | DNTENT-ASTM D2216 (I are D: 181218069-008 | 52.0 NOT ELAP CE | RTIFIED) | | wt% | 1 12/18/2 | Analyst: TSZ 12/28/2018 2018 |
| Surr: Decac | DNTENT-ASTM D2216 (I are D: 181218069-008 | 52.0 NOT ELAP CE | RTIFIED) | | wt% Collection Date: | 1 12/18/2 | Analyst: TSZ 12/28/2018 2018 |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleIE Client Sample Analyses POLYCHLORI | DNTENT-ASTM D2216 (I are D: 181218069-008 | 52.0 NOT ELAP CE 3.3 Result PA 8082A | RTIFIED) | | wt% Collection Date: Matrix: | 1 12/18/2 SOLID | Analyst: TSZ 12/28/2018 2018 |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A | RTIFIED) | | wt% Collection Date: Matrix: Units | 1 12/18/2 SOLID | Analyst: TSZ 12/28/2018 2018 Date Analyzed |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) | RTIFIED) 0.1 RL | | wt% Collection Date: Matrix: | 1 12/18/2 SOLID DF | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) ND | RTIFIED) 0.1 RL 340 | | wt% Collection Date: Matrix: Units µg/Kg-dry | 1 12/18/2 SOLID DF 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 Aroclor 1221 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A //2018) ND ND | RTIFIED) 0.1 RL 340 340 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry | 1 12/18/2 SOLID DF 10 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 Aroclor 1221 Aroclor 1232 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) ND ND ND ND | RTIFIED) 0.1 RL 340 340 340 340 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 12/18/2 SOLID DF 10 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) ND ND ND ND ND | RTIFIED) 0.1 RL 340 340 340 340 340 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 12/18/2 SOLID DF 10 10 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) ND ND ND ND ND 2500 | RTIFIED) 0.1 RL 340 340 340 340 340 340 340 | | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 12/18/2 SOLID DF 10 10 10 10 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 340 340 340 340 340 340 340 340 | Qual | wt% Collection Date: Matrix: Units µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry | 1 12/18/2 SOLID DF 10 10 10 10 10 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM |
| Surr: Decac MOISTURE CO Percent Moistu Lab SampleII Client Sample Analyses POLYCHLORI (P Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 | DNTENT-ASTM D2216 (I are D: 181218069-008 ID: B-1-S8 NATED BIPHENYLS - E | 52.0 NOT ELAP CE 3.3 Result PA 8082A 0/2018) ND ND ND ND ND ND ND ND ND ND ND ND ND | RTIFIED) 0.1 RL 340 340 340 340 340 340 340 340 340 340 | Qual | wt% Collection Date: Matrix: Units μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry | 1 12/18/2 SOLID DF 10 10 10 10 10 10 10 10 | Analyst: TSZ 12/28/2018 2018 Date Analyzed Analyst: KF 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM 12/20/2018 3:36:07 PM |
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Date: 02-Jan-19

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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, Inc. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



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Alpha Analytical

Laboratory Code: 11148

SDG Number: L1906025

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Project Name:AMPHENOL CONCRETEProject Number:1153.010.001

 Lab Number:
 L1906025

 Report Date:
 02/18/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time Receive Date | е |
|--------------------|-------------|--------|--------------------|-----------------------------------|---|
| L1906025-01 | B-1 4-5" | SOLID | SIDNEY, NY | 02/14/19 10:15 02/14/19 | |
| L1906025-02 | B-5 5-6" | SOLID | SIDNEY, NY | 02/14/19 10:30 02/14/19 | |
| L1906025-03 | B-5-EO 4-5" | SOLID | SIDNEY, NY | 02/14/19 10:45 02/14/19 | |



Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1906025-01, -02, and -03: The sample was received in an inappropriate container for the PCB analysis.

PCBs

L1906025-01, -02, and -03: The surrogate recoveries are below the acceptance criteria for 2,4,5,6tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

600, Sharow Kelly Stenstrom

Report Date: 02/18/19

Title: Technical Director/Representative



Project Name: AMPHENOL CONCRETE

Project Number: 1153.010.001

Lab Number: L1906025

Report Date: 02/18/19

GLOSSARY

Acronyms

| • | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EDL | Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |
| Footnotes | |

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum. Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total'

Report Format: DU Report with 'J' Qualifiers



Project Name: AMPHENOL CONCRETE

Project Number: 1153.010.001

Report Date: 02/18/19

result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.









Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD Trap: Supelco K Trap (VOACARB 3000) Concentrator: EST Encon (or equivalent) Autosampler: EST Centurion (or equivalent) Purge time: 11 min

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent) Trap: Supelco K Trap (VOACARB 3000) Concentrator: EST Encon (or equivalent) Autosampler: EST Centurion (or equivalent)

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD Trap: Supelco K Trap (VOACARB 3000) Concentrator: Tekmar Velocity / EST Encon Autosampler: Varian Archon / EST Centurion Purge time: 11 min Columns (length x ID x df): RTX-VMS 20m x 0.18mm x 1um RTX-VMS 30m x 0.25mm x 1.4um RTX-502.2 40m x 0.18mm x 1um

Column Type: Restek RTX 502.2 Column Length: 105 Meters df: 3.00 um ID: 0.53mm

Column Type: DB-VRX Column Length: 60 Meters df: 1.40 um ID: 0.25 mm Desorb: 1 min

Volatile Organics: Dissolved Gas Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column Column Length: 2 Meters packed (100/200 mesh) Purge time: 0.6 min

Autosampler: LEAP Headspace

Volatile Organics in Air Instruments

Volatile Organics in Air: Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200 Autosampler: Entech 7016CA or 7016D Column Type: Restek RTX-1 Column Length: 60 Meters df: 1.00 um ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material Trap 2: Tenax: manufacturer-Entech: 20 cm packing material





Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

| Instrument: Agilent 5973N MSD | Injection volume: 1 ul;2 uL LVI |
|--------------------------------|---------------------------------|
| Column Type: Restek RXI-5SILMS | df: 0.32 um |
| Column Length: 30 Meters | ID: 0.25 mm |

Polynuclear Aromatic Hydrocarbons by 8270 SIM:Instrument: Agilent 5973 MSDInjeColumn Type: Restek RXI-5SILMSdf:Column Length: 30 MetersID:

Injection volume: 1 ul;2 uL LVI df: 0.25 um ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs Column A: Restek RTX-CL/STX-CL Column B: Restek RTX/STX-CLPPesticide II Column Length: 30 Meters

Petroleum/EPH: Instrument: Agilent 6890 w/FID / HP 5890 w/ FID Column: Restek RTX 5 Column Length: 30 Meters ID: 0.32 mm

df: 0.32 df: 0.25 ID: 0.32 mm

Injection Volume: 1uL

Injection Volume: 1uL df: 0.25





Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD Column Type: ZB-5 Column Length: 60 Meters

Semivolatile Organics (8270): Instrument: Agilent 5973N / 5975 MSD Column Type: ZB-Semivolatiles Column Length: 30 Meters

Semivolatile Organics (8270 SIM): Instrument: Agilent 5973N / 5975 MSD Column Type: ZB-5 Column Length: 30 Meters

Semivolatile Organics (1,4-Dioxane):Instrument: Agilent 5973N / 5975 / 5977 MSDColumn Type: RTX-5Column Length: 30 MetersID: 0.25

Semivolatile Organics (209 Congener): Instrument: Agilent 5973N / 5975 MSD Column Type: RTX-5, RTX-PCB Column Length: 60 Meters

Semivolatile Organics (8081): Instrument: Agilent 6890 / 7890 Column Type: RTX-5 / RTX-CLP II Column Length: 60 Meters

Semivolatile Organics (8082): Instrument: Agilent 6890 w/Dual Micro ECDs Column A: Restek RTX-CL/STX-CL Column B: Restek RTX/STX-CLPPesticide II Column Length: 30 Meters

Semivolatile Organics (SHC Extractables): Instrument: Agilent 6890 Column Type: RTX-5 Column Length: 60 Meters Injection volume: 1 ul df: 0.25 um ID: 0.25 mm

Injection volume: 2 ul df: 0.25 um ID: 0.25 mm

Injection volume: 3 ul df: 0.25 um ID: 0.25 mm

Injection volume: 3 ul df: 0.25um, 0.18 um ID: 0.25um, 0.18 mm

Injection volume: 3 ul df: 0.25um, 0.18 um ID: 0.25um, 0.18 mm

Injection volume: 1 ul df: 0.25 um ID: 0.25 mm

Injection Volume: 1uL df: 0.32 df: 0.25 ID: 0.32 mm

Injection volume: 1 ul df: 0.25 um ID: 0.25 mm



Sample Delivery Group Summary

| Alpha Job Number: L1906025 | | :14-FEB-2019 :Wendy Morency | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---------------------|--|--|--|--|--|
| Account Name : Barton & Log Project Number : 1153.010.00 Project Name : AMPHENOL | | | | | | | | |
| Delivery Information | | | | | | | | |
| Samples Delivered By: Alpha Co | Samples Delivered By : Alpha Courier | | | | | | | |
| Chain of Custody : Present | | | | | | | | |
| Cooler Information | | | | | | | | |
| Cooler Seal/Seal# A Absent/ | Preservation Ice | Temperature(°C) Add 4.4 | itional Information | | | | | |
| Condition Information | | | | | | | | |
| 1) All samples on COC received? | | YES | YES | | | | | |
| 2) Extra samples received? | | NO | NO | | | | | |
| Are there any sample container discrepancies? L1906025-01A (NYTCL-8082-CNCRT) was received in inappropriate container. L1906025-02A (NYTCL-8082-CNCRT) was received in inappropriate container. L1906025-03A (NYTCL-8082-CNCRT) was received in inappropriate container. | | | | | | | | |
| 4) Are there any discrepancies bet | ween sample labels & | COC? NO | | | | | | |
| 5) Are samples in appropriate cont Please refer to information note | | | | | | | | |
| 6) Are samples properly preserved | ? YES | | | | | | | |
| 7) Are samples within holding time | ? YES | | | | | | | |
| 8) All sampling equipment returned | NA | | | | | | | |
| Volatile Organics/VPH | | | | | | | | |
| | | N . A | | | | | | |

1) Reagent Water Vials Frozen by Client? NA

ALPHA ANALYTICAL LABORATORIES, INC. LOGIN CHAIN OF CUSTODY REPORT Feb 18 2019, 12:40 pm

Login Number: L1906025

Account: BARTON2 Barton & Loguidice, P.CProject: 1153.010.001

Received: 14FEB19 Due Date: 18FEB19

Sample # Client ID

Mat PR Collected

| L1906025-01 B-1 4-5" ASP-A Package Due Date: 02/18/19 | 4 1B 14FEB19 10:15 |
|------------------------------------------------------------|--------------------|
| ASP-A,NYTCL-8082-CNCRT,SIZEREDUX,TS | |
| L1906025-02 B-5 5-6" Package Due Date: 02/18/19 | 4 1B 14FEB19 10:30 |
| NYTCL-8082-CNCRT, SIZEREDUX, TS | |
| L1906025-03 B-5-EO 4-5" Package Due Date: 02/18/19 | 4 1B 14FEB19 10:45 |
| NYTCL-8082-CNCRT, SIZEREDUX, TS | |

Page 1 Logged By: Candace Fox

| | NEW YORK CHAIN OF CUSTODY | Service Centers Mahwah, NJ 07430: 35 Whitne Albany, NY 12205: 14 Walker V Tonawanda, NY 14150: 275 Co | Nay | 05 | Page / of | 7 | in | | 2/14 | 119 | ile. | ALPHA JOD # L1906023 | 5 |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------|----------------------------|----------------------------------|------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3268 | Project Information Project Name: Ann Project Location: | bend o Silver | Concre | elez | | | A S (1 File) | | SP-B QuIS (4 F | | Billing Information | |
| Client Information | | Project # // 53.0 | | 7 | | | Othe | and the second se | | 10000 | - | 1153.010.001 | |
| Client: 27-2 | | (Use Project name as P | | -1 0 | 0 | | CONTRACTOR OF CONTRACTOR | Requireme | _ | | | Disposal Site Information | |
| Address: 443 Ele | itronics Rmg 13088 | Project Manager: Ma ALPHAQuote #: | Then | Stral | Y | | | OGS Standards | | ' Part 375 ' CP-51 | | Please identify below location applicable disposal facilities. | of |
| Fax: | 5300 | Turn-Around Time Standar Rush (only if pre approve | | Due Date # of Days | Monter 1 | est 18/19 | | estricted Use nrestricted Us Sewer Discha | e | her | | Disposal Facility: NJ NY Other: | |
| These samples have be | | | | | | | ANALYSIS | 3 | | | | Sample Filtration | Ť |
| Other project specific Please specify Metals | | nents: | | | | | BS | | | | | Done Lab to do Preservation Lab to do (Please Specify below) | t a I B o t |
| ALPHA Lab ID (Lab Use Only) | Sa | ample ID | Coll | ection Time | Sample Matrix | Sampler's Initials | R | | | | - | Sample Specific Comments | - 1 - e |
| 06025 -01 | R-1 4 | 1-5-11 | 02/18/19 | 10:15 | Concrete | | V | | | | | to Lab to | 1 |
| 06025-02 | 1-5 5 | -6" | 1 | 10:30 | 1 | | X | | | | | Nulverize | 1 |
| uour -03 | B-5-E0 | 4-5" | Ţ | 10:45 | L | | Â. | | | | | Samples for andysis | 4 |
| | | | | | | | | | | - | | | |
| | | | | | | | | | | | | | |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup | Westboro: Certification Mansfield: Certification | | | | ntainer Type Preservative | | | | | | Please print clearly, leg and completely. Sample not be logged in and turnaround time clock v start until any ambiguiti | les can will not |
| | C = Cube O = Other E = Encore D = BOD Bottle | Relinguished | I By: | Date 2/14/19 2/14/19 | /Time 13:5 0 540 | Wen | Beceived By: AAL Date/Time 2/14/14 154 aly Morenay 2/14/19 01: | | 540 | TAS READ AND AGREES | | | |

Organics



GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor Sample Data



| Client | : Barton & Loguidice, P.C | Lab Number | : L1906025 |
|-------------------|---------------------------|------------------|------------------|
| Project Name | : AMPHENOL CONCRETE | Project Number | : 1153.010.001 |
| Lab ID | : L1906025-01D | Date Collected | : 02/14/19 10:15 |
| Client ID | : B-1 4-5" | Date Received | : 02/14/19 |
| Sample Location | : SIDNEY, NY | Date Analyzed | : 02/17/19 18:33 |
| Sample Matrix | : SOLID | Date Extracted | : 02/15/19 |
| Analytical Method | : 1,8082A | Dilution Factor | : 20 |
| Lab File ID | : 19190217a-07 | Analyst | : HT |
| Sample Amount | :5.74 g | Instrument ID | : PEST19 |
| Extraction Method | : EPA 3540C | GC Column | : CLP-Pesticide |
| Extract Volume | : 1000 uL | %Solids | : 97 |
| GPC Cleanup | : N | Injection Volume | : 1 uL |
| Sulfur Cleanup | : Y | - | |
| | | | |
| | | ua/Ka | |

| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
|------------|--------------|---------|------|------|-----------|--|
| | | | | | | |
| 12674-11-2 | Aroclor 1016 | ND | 1800 | 160. | U | |
| 11104-28-2 | Aroclor 1221 | ND | 1800 | 180. | U | |
| 11141-16-5 | Aroclor 1232 | ND | 1800 | 382. | U | |
| 53469-21-9 | Aroclor 1242 | ND | 1800 | 243. | U | |
| 11097-69-1 | Aroclor 1254 | ND | 1800 | 197. | U | |
| 11096-82-5 | Aroclor 1260 | ND | 1800 | 332. | U | |
| 37324-23-5 | Aroclor 1262 | ND | 1800 | 228. | U | |
| 11100-14-4 | Aroclor 1268 | ND | 1800 | 186. | U | |
| | | | | | | |



| Client | : Barton & Loguidice, P.C | Lab Nu | Lab Number | | 06025 | |
|-------------------|---------------------------|----------|----------------|--------|--------------|--|
| Project Name | : AMPHENOL CONCRETE | Project | Project Number | | 3.010.001 | |
| Lab ID | : L1906025-01D | Date Co | ollected | : 02/1 | 4/19 10:15 | |
| Client ID | : B-1 4-5" | Date Re | eceived | : 02/1 | 4/19 | |
| Sample Location | : SIDNEY, NY | Date A | nalyzed | : 02/1 | 7/19 18:33 | |
| Sample Matrix | : SOLID | Date Ex | xtracted | : 02/1 | 5/19 | |
| Analytical Method | : 1,8082A | Dilution | Factor | : 20 | | |
| Lab File ID | : 19190217a-07 | Analyst | Analyst | | | |
| Sample Amount | :5.74 g | Instrum | Instrument ID | | T19 | |
| Extraction Method | : EPA 3540C | GC Col | GC Column | | -Pesticidell | |
| Extract Volume | : 1000 uL | %Solid | %Solids | | | |
| GPC Cleanup | : N | Injectio | n Volume | e :1uL | | |
| Sulfur Cleanup | : Y | - | | | | |
| | | | ug/Kg | | | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| | | | | | | |
| 12672-29-6 | Aroclor 1248 | 16500 | 1800 | 270. | | |
| 1336-36-3 | PCBs, Total | 16500 | 1800 | 160. | | |



| Client | : Barton & Loguidice, P.C | Lab Number | : L1906025 |
|-------------------|---------------------------|------------------|------------------|
| Project Name | : AMPHENOL CONCRETE | Project Number | : 1153.010.001 |
| Lab ID | : L1906025-02D | Date Collected | : 02/14/19 10:30 |
| Client ID | : B-5 5-6'' | Date Received | : 02/14/19 |
| Sample Location | : SIDNEY, NY | Date Analyzed | : 02/17/19 18:45 |
| Sample Matrix | : SOLID | Date Extracted | : 02/15/19 |
| Analytical Method | : 1,8082A | Dilution Factor | : 50 |
| Lab File ID | : 19190217a-08 | Analyst | : HT |
| Sample Amount | :5.45 g | Instrument ID | : PEST19 |
| Extraction Method | : EPA 3540C | GC Column | : CLP-Pesticide |
| Extract Volume | : 1000 uL | %Solids | : 91 |
| GPC Cleanup | : N | Injection Volume | : 1 uL |
| Sulfur Cleanup | : Y | - | |
| - | | | |
| | | ua/Ka | |

| | | | ug/Kg | | | |
|------------|--------------|---------|-------|------|-----------|--|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| | | | | | | |
| 12674-11-2 | Aroclor 1016 | ND | 5040 | 448. | U | |
| 11104-28-2 | Aroclor 1221 | ND | 5040 | 505. | U | |
| 11141-16-5 | Aroclor 1232 | ND | 5040 | 1070 | U | |
| 53469-21-9 | Aroclor 1242 | ND | 5040 | 680. | U | |
| 11097-69-1 | Aroclor 1254 | ND | 5040 | 551. | U | |
| 11096-82-5 | Aroclor 1260 | ND | 5040 | 932. | U | |
| 37324-23-5 | Aroclor 1262 | ND | 5040 | 640. | U | |
| 11100-14-4 | Aroclor 1268 | ND | 5040 | 522. | U | |
| | | | | | | |



| Client | : Barton & Loguidice, P.C | Lab Number | | : | L1906025 |
|-------------------|---------------------------|---------------|----------------|----|-----------------|
| Project Name | : AMPHENOL CONCRETE | Project | Project Number | | 1153.010.001 |
| Lab ID | : L1906025-02D | Date C | ollected | : | 02/14/19 10:30 |
| Client ID | : B-5 5-6'' | Date R | eceived | : | 02/14/19 |
| Sample Location | : SIDNEY, NY | Date A | nalyzed | : | 02/17/19 18:45 |
| Sample Matrix | : SOLID | Date E | xtracted | : | 02/15/19 |
| Analytical Method | : 1,8082A | Dilution | Factor | : | 50 |
| Lab File ID | : 19190217a-08 | Analyst | Analyst | | НТ |
| Sample Amount | : 5.45 g | Instrument ID | | : | PEST19 |
| Extraction Method | : EPA 3540C | GC Co | GC Column | | CLP-Pesticidell |
| Extract Volume | : 1000 uL | %Solid | %Solids | | 91 |
| GPC Cleanup | : N | Injectio | n Volume | : | 1 uL |
| Sulfur Cleanup | : Y | - | | | |
| | | | ug/Kg | | |
| CAS NO. | Parameter | Results | RL | MD | L Qualifier |
| | | | | | |
| 12672-29-6 | Aroclor 1248 | 37000 | 5040 | 7 | 56. |
| 1336-36-3 | PCBs, Total | 37000 | 5040 | 4 | 48. |



| Client | : Barton & Loguidice, P.C | Lab Number | : L1906025 |
|-------------------|---------------------------|------------------|------------------|
| Project Name | : AMPHENOL CONCRETE | Project Number | : 1153.010.001 |
| Lab ID | : L1906025-03D | Date Collected | : 02/14/19 10:45 |
| Client ID | : B-5-EO 4-5'' | Date Received | : 02/14/19 |
| Sample Location | : SIDNEY, NY | Date Analyzed | : 02/17/19 20:52 |
| Sample Matrix | : SOLID | Date Extracted | : 02/15/19 |
| Analytical Method | : 1,8082A | Dilution Factor | : 1000 |
| Lab File ID | : 19190217a-11 | Analyst | : HT |
| Sample Amount | : 5.63 g | Instrument ID | : PEST19 |
| Extraction Method | : EPA 3540C | GC Column | : CLP-Pesticide |
| Extract Volume | : 1000 uL | %Solids | : 96 |
| GPC Cleanup | : N | Injection Volume | : 1 uL |
| Sulfur Cleanup | : Y | | |
| - | | | |
| | | ua/Ka | |

| | | | ug/Kg | | |
|------------|--------------|---------|-------|-------|-----------|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| | | | | | |
| 12674-11-2 | Aroclor 1016 | ND | 92600 | 8220 | U |
| 11104-28-2 | Aroclor 1221 | ND | 92600 | 9280 | U |
| 11141-16-5 | Aroclor 1232 | ND | 92600 | 19600 | U |
| 53469-21-9 | Aroclor 1242 | ND | 92600 | 12500 | U |
| 11097-69-1 | Aroclor 1254 | ND | 92600 | 10100 | U |
| 11096-82-5 | Aroclor 1260 | ND | 92600 | 17100 | U |
| 37324-23-5 | Aroclor 1262 | ND | 92600 | 11800 | U |
| 11100-14-4 | Aroclor 1268 | ND | 92600 | 9590 | U |
| 1336-36-3 | PCBs, Total | 1060000 | 92600 | 8220 | |
| | | | | | |



| CAS NO. | Parameter | ug/Kg Results RL | MDL | Qualifier |
|-------------------------------|---------------------------|---------------------|---------|-------------|
| Sului Cleanup | . 1 | | | |
| GPC Cleanup Sulfur Cleanup | : N : Y | Injection Volume | : I UL | |
| Extract Volume | : 1000 uL | %Solids | : 96 | |
| Extraction Method | | GC Column | | Pesticidell |
| Sample Amount | | Instrument ID | : PEST | |
| Lab File ID | : 19190217a-11 | Analyst | : HT | |
| Analytical Method | | Dilution Factor | : 1000 | |
| Sample Matrix | : SOLID | Date Extracted | : 02/15 | /19 |
| Sample Location | : SIDNEY, NY | Date Analyzed | : 02/17 | /19 20:52 |
| Client ID | : B-5-EO 4-5'' | Date Received | : 02/14 | /19 |
| Lab ID | : L1906025-03D | Date Collected | : 02/14 | /19 10:45 |
| Project Name | : AMPHENOL CONCRETE | Project Number | : 1153. | 010.001 |
| Client | : Barton & Loguidice, P.C | Lab Number | : L1906 | 6025 |



Form 1 GC Organics

| Client: Barton & Loguidice, P.CProject Name: AMPHENOL CONCRETELab ID: WG1206964-1Client ID: WG1206964-1BLANKSample Location:Sample Matrix: SOLIDAnalytical Method: 1,8082ALab File ID: 19190217a-02Sample Amount: 5.91 gExtraction Method: 1000 uLGPC Cleanup: NSulfur Cleanup: Y | Lab Number:L1906025Project Number:1153.010.001Date Collected:NADate Received:NADate Analyzed:02/17/19 17:31Date Extracted:02/15/19Dilution Factor:1Analyst:HTInstrument ID:PEST19GC Column:CLP-Pesticide%Solids:NAInjection Volume:1 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ug/Kg |
| CAS NO. Parameter | Results RL MDL Qualifier |
| 12674-11-2 Aroclor 1016 | ND 84.6 7.51 U |
| 11104-28-2 Aroclor 1221 | ND 84.6 8.48 U |
| 11141-16-5 Aroclor 1232 | ND 84.6 17.9 U |
| | |

ND

ND

ND

ND

ND

ND

84.6

84.6

84.6

84.6

84.6

84.6

12.7

9.26

15.6

10.7

8.76

7.51

U

U

U

U

U

U



12672-29-6

11097-69-1

11096-82-5

37324-23-5

11100-14-4

1336-36-3

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

PCBs, Total

Wet Chemistry



Total Solids / Percent Moisture Analysis

Results

| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Digestion Method | : WG1207064.pdf : | Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID %Solids Date Digested | : 115 : 02/ : 02/ : 02/ : 02/ : 1 : RI | 906025 53.010.00 14/19 10: 14/19 15/19 10: LANCE#4 | 15 34 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|-----------|
| CAS NO. | Parameter | Results | % RL | MDL | Qualifier |
| NONE | Solids, Total | 96.8 | 0.100 | NA | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount | : SOLID : 121,2540G : WG1207064.pdf : | Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID %Solids | : 11 : 02/ : 02/ : 02/ : 1 : RI : BA : 91 | 906025 53.010.00 (14/19 10: (14/19 (15/19 10: (15/19 10: | 30 34 |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------|-----------|
| Digestion Method | : Parameter Solids, Total | Date Digested Results 91.0 | : % RL 0.100 | MDL | Qualifier |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Digestion Method | : WG1207064.pdf : | Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID %Solids Date Digested | : 115 : 02/ : 02/ : 02/ : 02/ : 1 : RI | 006025 63.010.00 14/19 10: 14/19 15/19 10: LANCE#4 | 45 34 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|-----------|
| CAS NO. | Parameter | Results | % RL | MDL | Qualifier |
| NONE | Solids, Total | 95.9 | 0.100 | NA | |

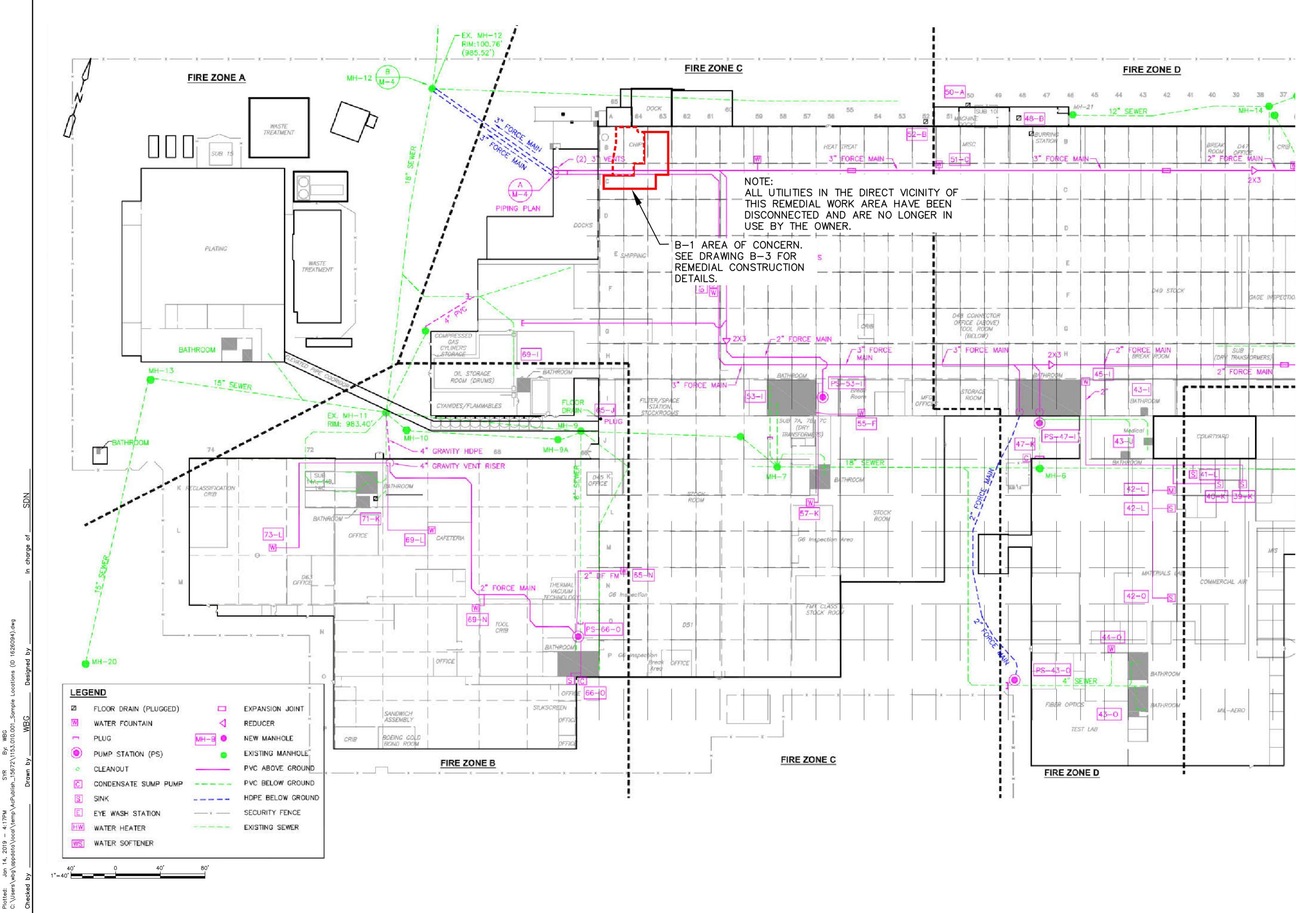


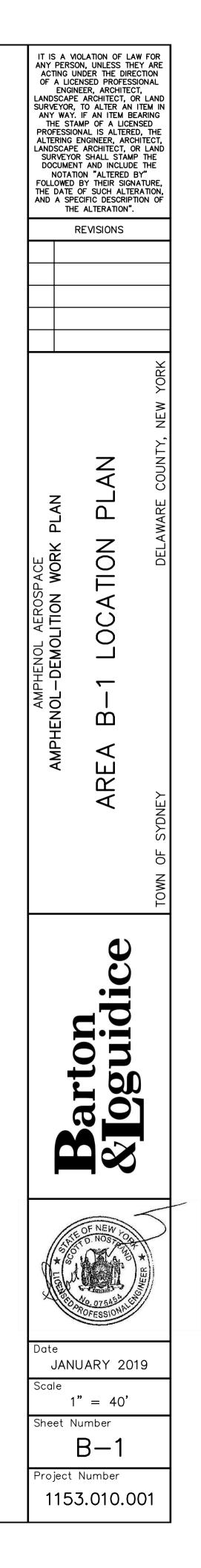
| Client | : Barton & Loguidice, P.C | Lab Number | : L19 | 906025 | | |
|-------------------|---------------------------|-----------------|-------|-----------|-----------|--|
| Project Name | : AMPHENOL CONCRETE | Project Number | : 115 | 53.010.00 | 1 | |
| Lab ID | : WG1207064-1 | Date Collected | : 02/ | 14/19 00: | 00 | |
| Client ID | : WG1207064-1 DUP | Date Received | : 02/ | 14/19 | | |
| Sample Location | : | Date Analyzed | : 02/ | 15/19 10: | 34 | |
| Sample Matrix | : SOIL | Dilution Factor | : 1 | | | |
| Analytical Method | : 121,2540G | Analyst | : RI | | | |
| Lab File ID | : WG1207064.pdf | Instrument ID | : BA | LANCE#4 | 7 | |
| Sample Amount | : | %Solids | : 92 | | | |
| Digestion Method | : | Date Digested | : | | | |
| | | | % | | | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| NONE | Solids, Total | 92.1 | 0.100 | NA | | |

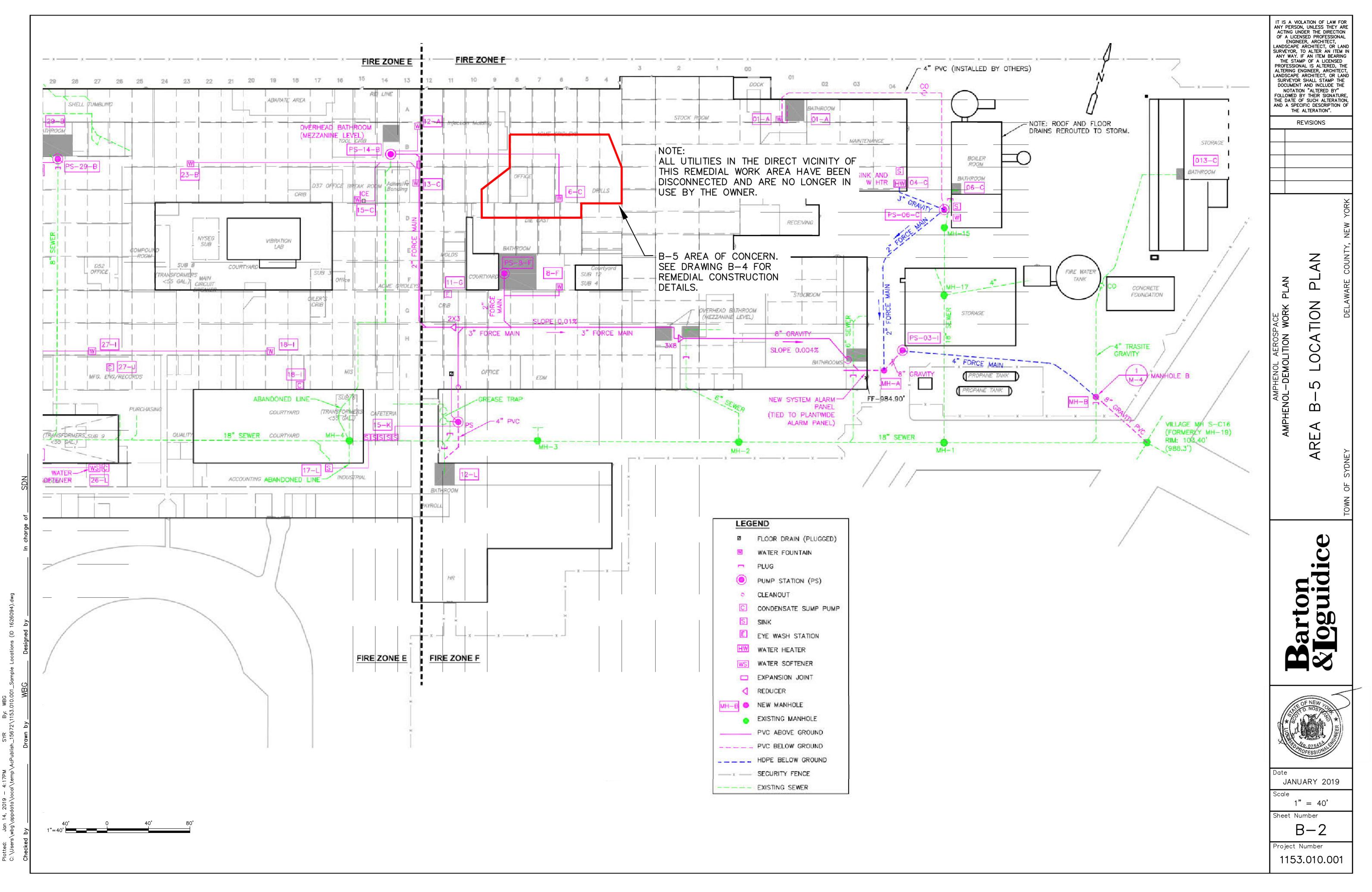


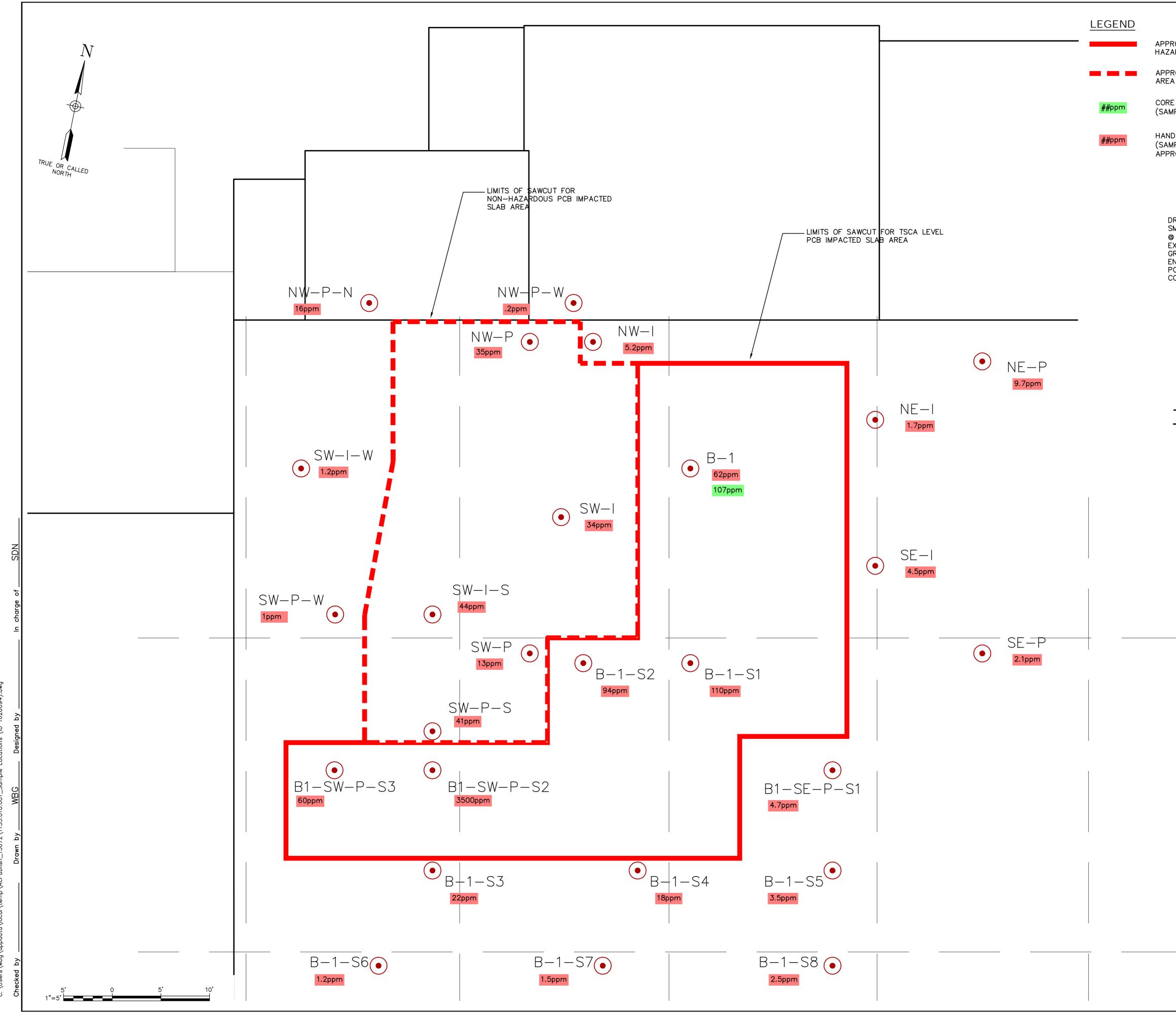
Appendix B

PCB Concrete Remedial Design

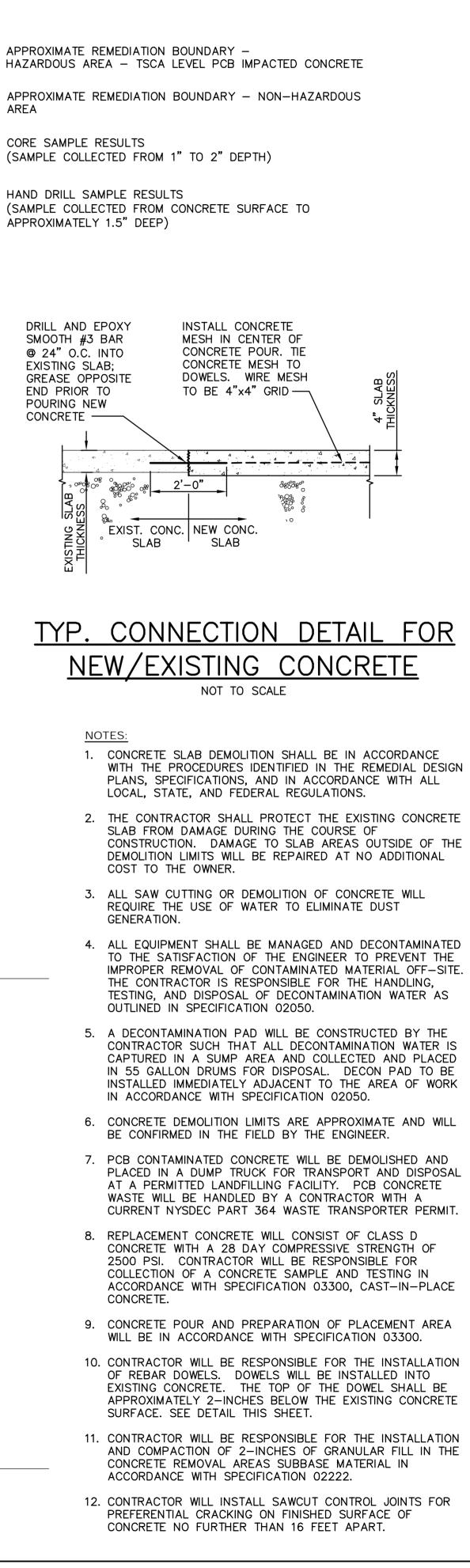


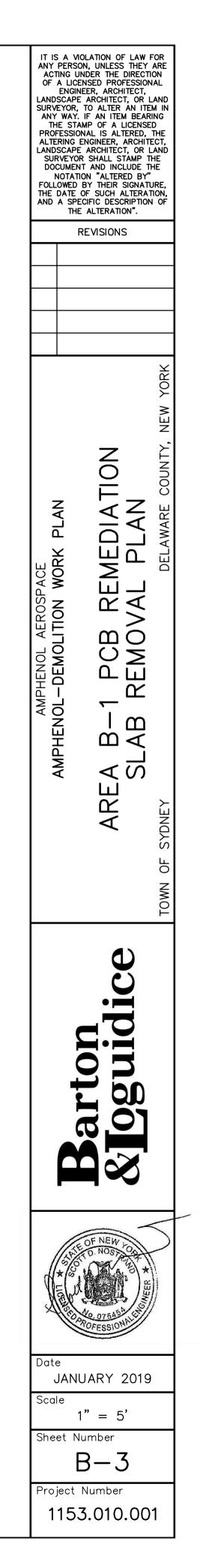


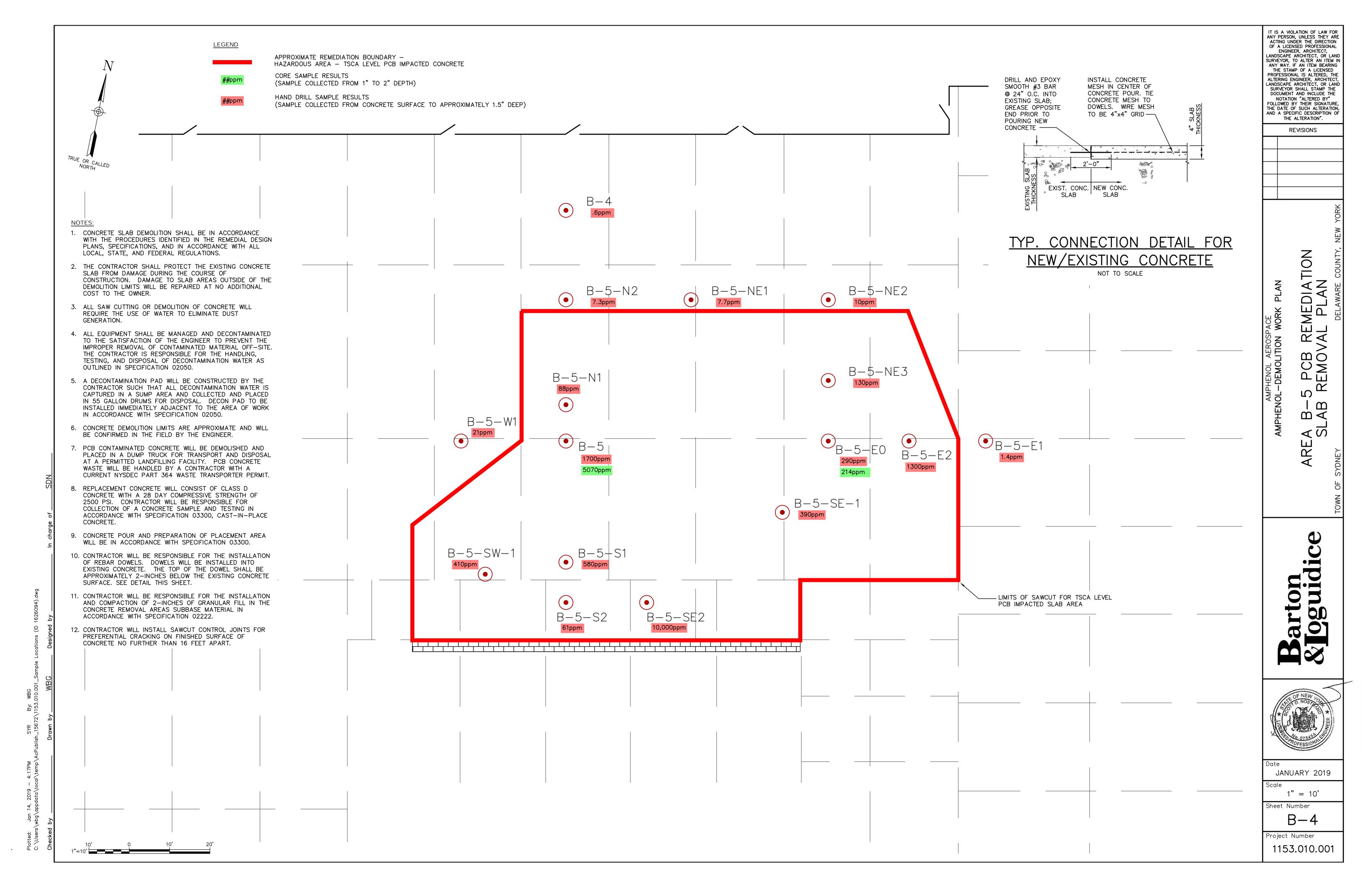




Jan 14, 2019 – 4:17PM SYR By: WBG







HEALTH AND SAFETY PLAN

PART 1 - GENERAL

1.1 DESCRIPTION:

1.1.1 Under this Item, the Contractor shall furnish all labor, materials, and equipment required to develop and implement a Health and Safety Plan in accordance with the Contract Specifications.

1.2 REFERENCES: The publications listed below and their latest revisions form a part of this Specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.2.1 Occupational Safety and Health Administration (OSHA) Regulations:

| 29 CFR Part 1926 | Regulations for Construction |
|------------------|-------------------------------------------------|
| 29 CFR 1910.120 | Health and Safety at Hazardous Waste Operations |

1.3 SUBMITTALS: The Contractor shall submit a complete Health and Safety Plan prior to initiating on-site work. The plan shall conform to the general requirements of 29 CFR 1910.120, Health and Safety at Hazardous Waste Operations, and may include items such as:

- Health and Safety Risk Evaluation
- Employee training and qualifications
- Medical Surveillance
- Engineering and Work Practice Controls
- Provision of Personal Protective Equipment required by Contractor, Subcontractor, Engineer, Owner and Oversight Personnel
- Frequency and Types of Monitoring
- Site Control Measures
- Decontamination Procedures
- Site Standard Operating Procedures
- Confined Space Operations (when applicable)
- Spill Containment (when applicable)
- Emergency Response Plan
- Fire Prevention and Protection
- Mold and Respiratory Health Control
- Unsafe Buildings Access Procedures
- Asbestos Operations
- PCB Handling and Precautionary Measures

HEALTH AND SAFETY PLAN

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

3.1 HEALTH AND SAFETY PLAN: The Contractor shall prepare and submit a completed Health and Safety Plan as identified in Section 1.3.

PART 4 – MEASUREMENT & PAYMENT

4.1 MEASUREMENT – HEALTH AND SAFETY PLAN:

4.1.1 Health and Safety Plan: Measurement for Health and Safety Plan preparation shall include the cost of all materials, labor and submittals required to complete the work.

4.2 PAYMENT - HEALTH AND SAFETY PLAN:

4.2.1 For Health and Safety Plan preparation not included in other unit or lump sum price items, payment for Health and Safety Plan preparation will be made at the applicable price stated in the Bid.

END OF SECTION

DEMOLITION AND REMOVAL

PART 1 - GENERAL

1.1 DESCRIPTION:

1.1.1 Under this Section, the Contractor shall furnish all labor, materials and equipment for Demolition and Removal, as shown on the Plans, as specified and/or directed.

1.2 REFERENCES: The publications listed below and their latest revisions form a part of this Specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.2.1 American National Standards Institute, Inc. (ANSI) Publications:

| A10.4 | Safety Requirements for Personnel Hoists and Employee Elevators for Construction and Demolition Operations |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| A10.6 | Demolition Operations - Safety Requirements |
| 1.2.2 National Fire Protection As | sociation (NFPA) Publication: |
| 241 | Safeguarding Construction, Alteration and Demolition Operations |
| 1.2.3 New York Code Rule and F | Regulations/Department of Labor: |
| 12 NYCRR Part 23 | Protection in Construction, Demolition and Excavation Operations |
| 1.2.4 Occupational Safety and He | ealth Administration (OSHA) Regulations: |

29 CFR Part 1926Regulations for Construction

1.3 GENERAL REQUIREMENTS: Do not begin demolition until authorization is received from the Engineer. Remove rubbish and debris from the project site daily; do not allow accumulations in the work area. Store materials that cannot be removed daily shall be staged in areas specified by the Engineer and Owner.

1.4 REGULATORY AND SAFETY REQUIREMENTS: Comply with Federal, State, and local hauling and disposal regulations. In addition to the requirements of the "General Requirements", safety requirements shall conform with ANSI A10.4, ANSI A10.6, NFPA 241, 12 NYCRR Part 23, OSHA 29 CFR Part 1926.

DEMOLITION AND REMOVAL

1.4.1 The Contractor shall conduct work in a manner to ensure compliance with all applicable codes, rules, and regulations including but not limited to:

a. Worker Protection

29 CFR 1926.59, Hazard Communication29 CFR 1910.134, Respiratory Protection Standard29 CFR 1926.20, General Safety and Health Provisions29 CFR 1910.94 and 1926.57, Ventilation

b. Ambient Air Quality

40 CFR 50.6 National Primary and Secondary Ambient Air Quality Standards for Particulate Matter

c. Water Quality

40 CFR 122, Administered Permit Programs; The National Pollutant Discharge Elimination System

d. Waste Disposal

40 CFR 261, Identification and Listing of Hazardous Waste 40 CFR 262, Standards Applicable to Generators of Hazardous Waste 40 CFR 263, Standards Application to Transporters of Hazardous Waste New York State Department of Environmental Conservation (NYSDEC), Title 6, Part 360-7, 364, and 370-374

The above listing may not be exhaustive. The Contractor is responsible for compliance with all applicable laws, rules and regulations whether or not they have been listed above.

1.5 DUST AND DEBRIS CONTROL: Prevent the spread of dust and debris to occupied properties located adjacent to the construction area and avoid the creation of a nuisance or hazard in the surrounding area. The use water will be required to minimize or eliminate the discharge of dust during saw cutting and demolition of concrete.

PART 2 - PRODUCTS

2.1 Materials: Furnish the following for the temporary on-site storage of contaminated concrete

2.1.1 Demolished concrete shall be live loaded into dump trucks for disposal. If material requires temporary staging, the contractor shall be required to place a 12 mil thick polyethylene barrier over the surface of the staging area to prevent cross-contamination. Staging of material will be located immediately adjacent to the work area.

DEMOLITION AND REMOVAL

2.1.2 PCB contaminated concrete staged overnight shall require the installation of 6 mil ply sheeting over the stockpiled material at the end of each day. Contractor shall secure the poly sheeting to prevent removal by wind.

PART 3 - EXECUTION

3.1 EXISTING FACILITIES TO BE REMOVED:

3.1.1 Utilities: Remove existing utilities (if encountered) and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by the Engineer. If utility lines are encountered that are not shown on drawings, contact the Engineer for further instructions.

3.1.2 Concrete: For concrete slab sections classified as PCB contaminated, neat sawcuts to a depth of not less than 2 inches shall be made to delineate the contaminated area as indicated on the drawings. Upon demolition of concrete structures, concrete debris shall be handled as indicated on the Plans.

3.3 DISPOSITION OF MATERIAL:

3.3.1 Title to Materials: Except where specified in other sections, all materials removed shall become the property of the Contractor and shall be removed from Owner's property.

3.4 CLEANUP:

3.4.1 Debris and Rubbish: Remove and transport debris and rubbish in a manner that will prevent spillage on streets and into nearby waterways or adjacent areas. Clean up spillage from pavements, streets and adjacent areas.

3.4.2 Decontamination: All equipment that comes in contact with PCB contaminated concrete shall be properly decontaminated. A decontamination pad shall be constructed by the Contractor such that all decontamination water can be captured in a sump area and collected and placed into 55 gallon drums for disposal. The decontamination pad shall be installed immediately adjacent to the area of work. All equipment shall be properly decontaminated before leaving the site to eliminate the possibility of contaminating off-site areas. Wastewater from decontamination procedures will be captured by the contractor for subsequent testing and disposal.

DEMOLITION AND REMOVAL

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT - DEMOLITION AND REMOVAL:

4.1.1 Measurement for Demolition and Removal shall include the cost of all materials, equipment, labor, decontamination, decontamination water testing and disposal, and submittals for the work indicated in this Section.

4.2 PAYMENT - DEMOLITION AND REMOVAL:

4.2.1 For Demolition and Removal, not included in other unit or lump sum price items, payment for Demolition and Removal will be made at the applicable price stated in the Bid.

END OF SECTION

REMOVAL AND HANDLING OF MATERIALS

PART 1 – GENERAL

1.1 SUMMARY OF WORK:

1.1.1 Under this Section, the Contractor shall furnish all labor, materials and equipment for Polychlorinated Biphenyl (PCB) demolition, excavation, transportation, and disposal, as shown on the Plans, or as specified. Prior to removing and disposing of materials from the site, Contractor shall classify materials in accordance with applicable Federal, State, and local regulations. Copies of laboratory reports for Contractor use in characterizing PCB waste for proper disposal have been provided in Appendix A of the PCB Contaminated Concrete Slab Remedial Work Plan. If additional testing is required by the PCB disposal facility, the Contractor will be responsible to perform the necessary composite material sampling at no additional cost to the Owner.

1.1.2 Investigation and proper disposal shall also be required for any unknown materials encountered during demolition activities.

1.1.3 The Contractor will be responsible for verifying disposal requirements in accordance with the proposed disposal facility and applicable regulations. If the disposal facility requires additional material testing, the Contractor shall be responsible for collecting additional samples at no cost to the Owner.

1.1.4 Amounts of material to be removed from the site shall be determined by the Contractor at the time of bidding. The Contractor must satisfy himself as to the quantity of waste requiring removal and disposal and base his bid accordingly.

1.2 REFERENCES: The publications listed below and their latest revisions form a part of this Specification to the extent referenced. The publications are referred to in the text by the basic designation only. The publications are identified for information only, and do not represent all regulations, codes, or standards which may apply to this work.

1.2.1 New York State Department of Environmental Conservation (NYSDEC) Publications:

| 6 NYCRR Part 370 | Hazardous Waste Management System: General |
|------------------|-------------------------------------------------------|
| 6 NYCRR Part 371 | Identification and Listing of Hazardous Wastes |
| 6 NYCRR Part 372 | Hazardous Waste Manifest System and Related Standards |
| | for Generators, Transporters and Facilities |
| 6 NYCRR Part 373 | Hazardous Waste Management Facilities |
| 6 NYCRR Part 374 | Management of Specific Hazardous Waste |

REMOVAL AND HANDLING OF MATERIALS

1.2.2 American Petroleum Institute (API) Publications:

| Publ. 2015 | Cleaning Petroleum Storage Tanks |
|-------------|-----------------------------------------------------|
| Publ. 2217A | Guidelines for Work in Inert Confined Spaces in the |
| | Petroleum Industry |
| Publ. 2219 | Safe Operating Guidelines for Vacuum Trucks in |
| | Petroleum Service |

1.2.3 Occupational Safety and Health Administration (OSHA) Regulations:

| 29 CFR Part 1910.146 | Permit-Required Confined Spaces |
|----------------------|---------------------------------|
| 29 CFR Part 1910.134 | Respiratory Protection |

1.2.4 National Fire Protection Association, Inc. (NFPA) Publications:

| 30 | Flammable and Combustible Liquids Code |
|-----|--------------------------------------------------------|
| 69 | Standard on Explosion Prevention Systems |
| 77 | Recommended Practice on Static Electricity |
| 327 | Standard Procedures for Cleaning or Safeguarding Small |
| | Tanks and Containers Without Entry |

1.2.5 United States Environmental Protection Agency (USEPA) Publications:

| 40 CFR Part 82 | Protection of Stratospheric Ozone |
|-----------------|---------------------------------------------------------|
| 40 CFR Part 261 | Identification and Listing of Hazardous Waste |
| 40 CFR Part 262 | Standards Applicable to Generators of Hazardous Waste |
| 40 CFR Part 263 | Standards Applicable to Transporters of Hazardous Waste |
| 40 CFR Part 273 | Universal Waste |
| 40 CFR Part 761 | PCBs Manufacturing, Processing, Distribution in |
| | Commerce, and use Prohibitions |

1.3 SUBMITTALS:

1.3.1 Work Plan: Contractor shall submit a brief description identifying detailed aspects of how the Contractor will identify, handle, containerize, transport, and dispose of materials.

1.3.2 Disposal: Submit documentation that all required permits, disposal site locations, and arrangements for transportation and disposal of waste have been obtained. Submit a written description and blank log forms for Contractor's waste manifest system.

REMOVAL AND HANDLING OF MATERIALS

1.3.3 Manifests and Bills of Lading (BOLs): The Contractor shall submit to the Owner and Engineer, within 30 days of transport, copies of all required manifests and BOLs for transport and disposal of waste materials. Manifests and BOLs must include the signature and receipts for acceptance of the waste materials at the designated disposal facilities. No payment requests will be processed for this Item until the manifests have been received and approved.

1.4 REGULATORY AND SAFETY REQUIREMENTS:

1.4.1 Comply with Federal, State, and local regulations governing the handling, transport, and disposal of drums, petroleum, and chemical products and non-hazardous and hazardous wastes.

PART 2 – PRODUCTS

2.1 MATERIALS:

2.1.1 PCB contaminated concrete will be transported and disposed of in accordance with applicable regulations.

PART 3 – EXECUTION

3.1 HAZARD DETERMINATION (LABORATORY ANALYSIS):

3.1.1 Analytical results from concrete samples collected to delineate the extent of PCB impacts have been included in Appendix A of the Remedial Work Plan. Should additional characterization be required by the selected disposal facility, the cost and effort to complete the sampling shall be the responsibility of the Contractor.

3.2 PCB DETERMINATION (LABORATORY ANALYSIS):

3.2.1 All possible polychlorinated biphenyl (PCB) containing materials (concrete and or decontamination water) shall be properly disposed of based on the analytical results. The selected contractor shall be responsible for proper handling, staging, testing (if required), transportation and disposal.

3.3 SITE PREPARATION: If needed, the Contractor shall prepare a staging area to be used for the temporary storage of excavated or demolished materials. The staging area shall include a liner system composed of 12 mil poly sheeting for concrete material and covered at the end of each day with 6 mil poly sheeting.

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REMOVAL AND HANDLING OF MATERIALS

3.4 HANDLING AND DISPOSAL OF MATERIALS:

3.4.1 Contractor shall follow all Federal, State, and local regulations for waste handling, containerizing, transporting, and disposing of non-hazardous and hazardous waste.

- a. All containers holding hazardous wastes shall be labeled as such, and also include other marks identifying the contents (Hazardous, Universal, etc.), including the date. Labeling shall be in accordance with applicable regulations.
- b. Containers must be compatible with the stored material.
- c. Any spills or leaks from any containers will be the responsibility of the Contractor to clean and dispose of in accordance with applicable regulatory requirements.
- d. Mixing of non-hazardous and hazardous waste is not permitted.
- e. Contractor is responsible for providing all waste receptacles required for disposal. All waste temporarily stored on-site shall be secured to prevent against unauthorized entry and vandalism. Contractor is responsible for all testing to properly classify the waste.
- f. The Contractor shall establish a manifest system that meets Federal and State regulations and accounts for all waste at all times.
- g. The transporter must possess an approved EPA identification number. The appropriate NYS Hazardous Waste Manifest must be completed by the Contractor.
- h. The Contractor shall provide the Hazardous Waste Management Unit with copies of the EPA ID number of the transporter, NYSDEC manifest form, and written acknowledgement from the landfill that they are authorized by the EPA and the State where they are located, to accept and dispose of hazardous waste.
- i. Final Manifest and receipts must be provided to the Owner and/or Owner's Representative within ten (10) days of receipt by the Contractor.

REMOVAL AND HANDLING OF MATERIALS

3.4.2 PCB Waste > 50 PPM: Contractor shall remove and dispose all PCB contaminated concrete with concentrations >50ppm as TSCA waste. All handling and disposal operations shall be in accordance with Federal, State, and local regulations.

3.4.3 PCB Waste >25 PPM and <50 PPM: Contractor shall remove and dispose all PCB contaminated concrete in excess of 25 ppm but less than 50 ppm as non-TSCA waste. All handling and disposal operations shall be in accordance with Federal, State, and local regulations.

PART 4 – MEASUREMENT & PAYMENT

4.1 TSCA WASTE HANDLING, REMOVAL AND DISPOSAL – LIQUID OR SOLID:

4.1.1 Measurement for PCB Waste > 50 PPM Handling, Removal and Disposal – Liquid or Solid shall include the cost of materials, equipment, labor, submittals, packaging, transport, and disposal for the work indicated in this Section and shall be based on the quantity of full 55-gallon drums, tons, or cubic yards of material removed from the Site and properly disposed. Payment shall be made at the applicable unit price stated in the Bid.

4.2 NON-TSCA WASTE HANDLING, REMOVAL AND DISPOSAL – LIQUID OR SOLID:

4.2.1 Measurement for PCB Waste >25 PPM and <50 PPM Handling, Removal and Disposal – Liquid or Solid shall include the cost of materials, equipment, labor, submittals, packaging, transport, and disposal for the work indicated in this Section and shall be based on the quantity of full 55-gallon drums, tons, or cubic yards of material removed from the Site and properly disposed. Payment shall be made at the applicable unit price stated in the Bid.

END OF SECTION

EXCAVATING, BACKFILLING AND COMPACTING

PART 1 - GENERAL

1.1 DESCRIPTION:

1.1.1 Under this Section, the Contractor shall furnish all labor, materials and equipment for Excavating, Backfilling and Compacting, as shown on the Plans, specified, and/or directed.

1.1.2 Excavation, in open cut, includes the loosening, removing, transporting, storage and disposal of all materials necessary to be removed for the construction and completion of all work under the Contract. Excavations shall be made to the widths and depths shown on the Plans, specified or directed.

1.1.3 The Contractor shall be responsible for maintaining the stability of any excavations and for any damage or injury to any persons property or structures as a result.

1.1.4 Where rock is encountered, the excavations shall be done in accordance with the applicable provisions hereof.

1.2 REFERENCES: The publications listed below and their latest revisions form a part of this Specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.2.1 American Society for Testing and Materials (ASTM) Publications. Reference to standard Specifications is intended to specify minimum standards for quality of materials and performance of workmanship, and for standard test methods.

1.3 DEFINITIONS:

1.3.1 The term "excavation" and the term "trenching" where used, shall be deemed and understood to cover the following described work, and the price bid for any and all items including "excavation", or "trenching" shall be deemed to include and cover all of the several following detailed operations:

- The loosening, removing, transporting, storage and rehandling of all materials;
- All sheeting, sheetpiling, bracing and shoring, and the placing, driving, cutting off and removing of the same;
- All ditching, pumping, well-pointing, bailing, dewatering and draining or otherwise disposing of water (surface and subsurface);
- The refilling of trenches, excavations and pits, and the furnishing and placing of material over trenches, excavations and pits to the original surface of the ground or to other grades as may be shown or directed;
- The compacting of all materials used in filling or refilling by rolling, ramming, watering, puddling, etc., as may be required;

EXCAVATING, BACKFILLING AND COMPACTING

- The removing and disposing of all surplus materials from all excavations in the manner specified;
- The maintenance, accommodation and protection of travel;
- All temporary bridging and fencing and the removing of same, the temporary paving of roads or driveways;
- The removing and clearing away of all construction rubbish, refuse, unused materials, plant and tools from the site.

1.3.2 "Earth" includes all materials, such as sand, gravel, clay loam, pavements, ashes, cinders, muck, roots, or pieces of timber, soft or disintegrated rock, not requiring barring or wedging from their original beds, and specifically excludes all ledge or bed rock, and individual boulders or masonry larger than one-half cubic yard in volume.

1.3.3 "Backfill" includes selected materials for the backfilling or refilling of all excavations and trenches up to the original surface of the ground or to other grades as may be shown or directed.

1.3.4 "Lining" includes selected materials utilized for the embedment of underground piping for the purpose of structural support and/or protection of the piping installed.

1.3.5 "Spoil" includes surplus excavated materials not required or not suitable for backfills or embankments.

1.3.6 "Embankments" include fills constructed of selected materials above the original surface of the ground.

1.3.7 "Rock" includes ledge or bedrock requiring barring or wedging from their original beds and individual boulders or masonry larger than one-half cubic yard in volume.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS: Where used for general site fill or suitable backfill, soil material shall be free of debris, roots, wood, scrap material, vegetative matter, refuse, soft unsound particles, frozen, deleterious, or objectionable materials.

2.2 CONTROLLED FILL: Controlled fill material shall be granular fill as specified in Section 02222.

EXCAVATING, BACKFILLING AND COMPACTING

PART 3 - EXECUTION

3.1 EXCAVATION FOR STRUCTURES:

3.1.1 Excavation shall be of sufficient size, and only of sufficient size, to give suitable room for the proper construction of structures and appurtenances, including allowances for sheeting, dewatering, and other similar work necessary for completion of the Contract.

3.1.2 Where excavation below subgrade is ordered, it shall be thoroughly compacted and consolidated granular fill as directed and as specified in Section 02222. It shall be sufficiently stable to remain firm and intact during the surfacing of subgrade, laying reinforcing steel and placing concrete thereon.

3.2 BACKFILLING AROUND STRUCTURES:

3.2.1 Backfilling around structures shall not be commenced until all lumber, refuse, rubbish and other similar materials are removed from the excavated area. Backfill around structures may be placed by machine, provided the work shall be done carefully to prevent damage to the structure. In no case shall backfill materials be allowed to fall directly on a structure, until at least twelve (12) inches of hand-placed material has been placed thereon and compacted.

3.2.2 Backfill around structures shall be deposited in horizontal layers not more than eight (8) inches in thickness and shall be thoroughly compacted. Compaction shall be by a vibrating tamper or other approved method and shall be to a minimum dry density of ninety-five (95) percent of the maximum dry weight density in pounds per cubic foot as determined by the Modified Proctor Compaction Test (ASTM D1557). Compact adjacent areas, beyond five (5) feet of a slab or structure, to ninety (90) percent of ASTM D1557.

3.2.3 Backfilling shall be done immediately after work has been inspected and approved. No frozen material shall be used, nor shall backfilling be placed on or against frozen earth, debris or other deleterious matter not conducive to proper compaction.

3.2.4 Backfilling against free standing walls shall be made against both sides at the same time. If backfill is required on one side only, the wall shall be adequately braced on the opposite side until properly cured to full strength.

3.2.5 Contractor shall take every necessary precaution during compaction of fill adjacent to foundations, walls, etc., that such items are not displaced from their proper location or damaged by compacting equipment. In the event damage or displacement occurs during or resulting from compaction of fill as specified above, the Contractor shall be responsible for correcting the same, to approval of the Engineer and at no expense to the Owner.

3.2.6 Controlled fill within building lines, under concrete slabs and aprons shall be granular fill as specified in Section 02222. Areas of completed fill which are to receive slabs, pavements

EXCAVATING, BACKFILLING AND COMPACTING

and structures, etc., shall be kept free of standing water or otherwise protected from any loss of compaction density.

3.3 REMOVAL OF WATER:

3.3.1 The Contractor shall at all times during construction provide and maintain proper and satisfactory means and devices for the removal of all water entering the excavations, and shall remove all such water as fast as it may collect, in such manner as shall not interfere with the prosecution of the work or the proper placing of pipe, masonry, concrete, structures, or other work.

3.3.2 Removal of water includes the construction and removal of sheeting and bracing, the furnishing of materials, equipment and labor necessary therefore, the excavation and maintenance of ditches and sluice-ways and the furnishing and operation of pumps, wellpoints, and appliances needed to maintain thorough drainage of the work in a satisfactory manner.

3.3.3 Water shall not be allowed to rise over or come in contact with any masonry, concrete or mortar, until at least twenty-four (24) hours after placement, and no stream of water shall be allowed to flow over such work until such time as the Engineer may permit.

3.3.4 Unless otherwise specified, all excavations which extend down to below the groundwater elevation at the sites of structures shall be dewatered by lowering and maintaining the groundwater beneath such excavations at an elevation not less than that specified herein at all times when work thereon is in progress, during subgrade preparation and the placing of the structures or pipe thereon.

3.3.5 Where an upward pressure or flow of water in combination with a fine-grained subsurface material causes a quick condition, the Contractor shall install wellpoints to stabilize the subgrade. Where wellpoints are used, the groundwater table shall be continuously (day and night) maintained to an elevation of not less than twenty-four (24) inches below the excavation and when subgrade is reached the groundwater shall be maintained not less than twenty-four (24) inches below the subgrade. Unless otherwise permitted by the Engineer, the groundwater shall be maintained not less than twenty-four (24) inches below the subgrade until completion of the backfilling to an elevation at least twelve (12) inches above natural groundwater level. Wellpoint headers, points, and other pertinent equipment shall not be placed within the limits of the excavation in such a manner or location as to interfere with the laying of pipe or trenching operations or with the excavation for and construction of other structures.

3.3.6 In areas where groundwater enters the excavation but does not cause a quick condition, the groundwater may be removed by any practical method which does not damage the subgrade, cause the same to become unstable or interferes with construction operations.

3.3.7 The groundwater control requirements specified for wellpointing operations apply to other dewatering methods.

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3.3.8 Suitable stand-by pumping equipment shall be provided to insure the maintenance of the specified lowering of the water table.

3.3.9 Water pumped or drained from excavations, or any sewers, drains, or water courses encountered in the work, shall be disposed of in a suitable and environmental manner without injury to adjacent property, the work under construction, or to pavements, roads, and drives. No water shall be discharged to sanitary sewers. Sanitary sewage shall be pumped to sanitary sewers or shall be disposed of by an approved method.

3.3.10 Any damage caused by improper handling of water shall be repaired by the Contractor at his own expense.

3.4 SHEETING & BRACING:

3.4.1 The Contractor shall furnish, place and maintain such sheeting, bracing and shoring as may be required to support the sides and ends of excavations in such manner as to prevent any movement which could, in any way, injure the pipe, sewers, masonry, or other work; diminish the width necessary; otherwise damage or delay the work; or endanger existing structures, pipes or pavements; cause the excavation limits to exceed the right-of-way limits; or to occasion a hazard to persons engaged on the project or to the general public.

3.4.2 In no case will bracing be permitted against pipes or structures in trenches or other excavations.

3.4.3 The Contractor shall be solely responsible for the safety and adequacy of all sheeting and bracing. He shall make good any damage resulting from failure of supports with no additional cost to Owner.

3.4.4 Removal of Sheeting & Bracing:

3.4.4.1 In general, all sheeting and bracing, whether of steel, timber or other material, used to support the sides of trenches or other open excavations, shall be withdrawn as the trenches or other open excavations are being refilled. That portion of the sheeting extending below the top of a pipe or sewer shall be withdrawn, unless directed, before more than six (6) inches of earth is placed above the top of the pipe or sewer and before any bracing is removed. The voids left by the sheeting shall be carefully refilled with selected material and rammed tight with tools especially adapted for the purpose, or otherwise as may be approved.

3.4.4.2 The Engineer may order the Contractor to delay the removal of sheeting and bracing, if in his judgement the installed work has not attained the necessary strength to permit placing of backfill.

3.4.5 Sheeting & Bracing Left In Place:

3.4.5.1 If, to serve any purpose of his own, the Contractor files a written request for permission to leave sheeting or bracing in the trench or excavation, the Engineer may grant such

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permission, in writing, on condition that the cost of such sheeting and bracing be assumed and paid by the Contractor.

3.4.5.2 The Contractor shall leave in place all sheeting, shoring and bracing which are shown on the Drawings or specified to be left in place or which the Engineer may order, in writing, to be left in place. All shoring, sheeting, and bracing shown or ordered to be left in place will be paid for under the appropriate item of the Contract. No payment allowance will be made for wasted ends or for portions above the proposed cut-off level which are driven down instead of cut-off.

3.4.5.3 In case sheeting is left in place, it shall be cut off or driven down as directed so that no portion of the same shall remain within twelve (12) inches of the finished street or ground surface.

3.4.5.4 All timber sheeting and bracing to be left in place and paid for under an item of the Contract shall be new, sound and straight, free from cracks, shakes and large or loose knots, and shall otherwise conform with National Design Specifications for Stress Grade Lumber for lumber of a minimum fiber stress of 1,200 pounds per square inch.

3.4.5.5 Steel sheeting and bracing left in place and paid for under an item of the Contract shall be new and shall conform with ASTM Des: A7, with a minimum thickness of 3/8-inch.

3.4.5.6 Sheeting and bracing left in place and paid for under an item of the Contract shall be driven as the excavation progresses and in such manner as to maintain pressure against the original ground at all times. The sheeting shall be driven vertical with the edges tight together, and all bracing shall be of such design and strength as to maintain the sheeting in its proper position.

3.5 STORAGE OF MATERIAL:

3.5.1 All excavation materials shall be stored in locations so as not to endanger the work, and so that easy access may be had at all times to all parts of the excavation. Stored materials shall be kept neatly piled and trimmed. All stockpiled fill material shall be stored only in those fill areas as approved by the Engineer and the New York State Department of Environmental Conservation.

3.6 ADDITIONAL EXCAVATION:

3.6.1 In case the materials encountered at the locations and grades shown on the Plans or specified are not suitable, or in case it is found desirable or necessary to excavate additional materials to secure good support for the structure or pipeline, the excavation shall be carried to such additional limits as the Engineer may direct. The Contractor shall refill such additional excavated space with either granular fill, Class "D" or "E" concrete or other material, as the Engineer may direct. Additional excavation, backfill material, concrete or other materials so ordered, will be paid for under the appropriate items of the Contract.

EXCAVATING, BACKFILLING AND COMPACTING

3.7 UNAUTHORIZED EXCAVATION:

3.7.1 Whenever excavations are carried beyond or below the lines and grades shown on the Plans, or as given or directed by the Engineer, all such excavated space shall be refilled with granular fill, concrete or other materials as directed by the Engineer. All refilling of unauthorized excavations shall be at the Contractor's own expense.

3.7.2 All material which slides, falls or caves into the established limits of excavations due to any cause whatsoever shall be removed and disposed of at the Contractor's own expense, and no extra compensation will be paid the Contractor for any materials ordered for refilling the void areas left by the slide, fall or cave-in.

3.8 DISPOSAL OF MATERIALS:

3.8.1 All "clean" as deemed by the Engineer and New York State Department of Environmental Conservation shall be transported and placed on the site of the work at the locations and to the elevations and grades shown on the Plans or as directed by the Engineer. If spoil areas are not shown, all spoil materials shall be disposed off the Site at appropriate locations selected and obtained by the Contractor and approved by the Engineer and the New York State Department of Environmental Conservation. No environmental sensitive areas shall be used for spoil areas. A copy of the signed agreement between the property owner and the Contractor granting permission to deposit spoil shall be given to the Engineer prior to placement.

3.8.2 The surface of all spoil placed on the Site shall be graded and dressed, and no unsightly mounds or heaps shall be left on completion of the work.]

EXCAVATING, BACKFILLING AND COMPACTING

PART 4 - MEASUREMENT & PAYMENT

4.1 MEASUREMENT - EXCAVATING

4.1.1 Measurement for Excavating shall be the volume of material (including rocks) required to complete the indicated work; the maximum limits of such volumes shall not exceed those defined by the drawings, specified or ordered.

4.2 PAYMENT - EXCAVATING:

4.2.1 For Excavating not included in other unit or lump sum price items, will be made at the applicable price stated in the Bid and shall include the cost of all the several detailed operations incidental to the excavation. No additional payment will be made for excavation of rock, boulders, masonry or concrete encountered in the work.

4.3 MEASUREMENT – BACKFILLING AND COMPACTING:

4.3.1 The quantity of Backfilling and Compacting for which payment will be made shall be the number of cubic yards actually placed, measured as the volume of the void filled.

4.4 PAYMENT – BACKFILLING AND COMPACTING

4.4.1 For Backfilling and Compacting, not included in other unit or lump sum price items, payment for Backfilling and Compacting will be made at the applicable price stated in the Bid and shall include the cost of all the several detailed operations incidental to the excavation.

END OF SECTION

GRANULAR FILL

PART 1 - GENERAL

1.1 DESCRIPTION:

1.1.1 Under this Section, the Contractor shall furnish all labor, materials and equipment for Granular Fill, as shown on the Plans, as specified, and/or directed.

PART 2 - PRODUCTS

2.1 GRANULAR FILL:

2.1.1 For pipe and structure backfill, the Granular Fill shall consist of crushed stone, well graded from coarse to fine, conforming to New York State Department of Transportation Standard Specifications Item 304.12 or Item 304.14 (Subbase Course Type 2 or 4).

2.1.2 The Contractor shall submit to the Engineer for approval a certified sieve analysis and Modified Proctor Compaction Test for each source of granular fill, at no cost to the Owner.

PART 3 - EXECUTION

3.1 PLACING:

3.1.1 The Granular Fill shall be spread in horizontal layers so that the maximum thickness of any layer after compaction shall not exceed eight (8) inches. Compaction shall be by traveling vibrators or other approved method and shall be to a minimum dry density of ninety percent (90%) of the maximum dry density or ninety-five percent (95%) around structures as determined by the Modified Proctor Test, ASTM D1557 unless otherwise specified. Each layer shall be thoroughly compacted before placement of overlying layers.

3.2 COMPACTION TEST:

3.2.1 NOT REQUIRED

GRANULAR FILL

PART 4 – MEASUREMENT & PAYMENT

4.1 MEASUREMENT – GRANULAR FILL:

4.1.1 The quantity of Granular Fill allowed for payment shall be computed by using the product of the length, depth as directed, and the actual width, but not to exceed the Maximum Payment Width as shown on the Contract Drawings, less the volume occupied by the pipe or structure, if any.

4.2 PAYMENT – GRANULAR FILL:

4.2.1 For Granular Fill, not included in other unit or lump sum price items, payment for Granular Fill will be made at the applicable price stated in the Proposal.

END OF SECTION

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 DESCRIPTION:

1.1.1 Under this Section, the Contractor shall furnish all labor, materials and equipment for plain and reinforced Cast-In-Place Concrete work including accessory items of work herein described, as shown on the Plans, as specified, and/or directed.

1.2 REFERENCES:

1.2.1 Reference to standard specifications for the following organizations is intended to specify minimum standards for quality of materials and performance of workmanship, and for standard test methods.

- a. American Society for Testing and Materials (ASTM) Publications, Latest Edition.
- b. American Concrete Institute (ACI) Standards, Latest Edition.
- c. Standard Specifications Construction and Materials, New York State Department of Transportation (NYSDOT), Latest Edition, including Addenda thereto.

1.3 QUALITY ASSURANCE:

- 1.3.1 Perform work in accordance with ACI 301 and ACI 302.
- 1.3.2 Acquire cement and aggregate from same source for all work.
- 1.3.3 Conform to ACI 305R when concreting during hot weather, except as herein modified.
- 1.3.4 Conform to ACI 306R when concreting during cold weather, except as herein modified.
- 1.4 SUBMITTALS, SAMPLES AND TESTS:
- 1.4.1 Product Data: Provide data on joint devices, attachment accessories and admixtures.
- 1.4.2 Concrete:

1.4.2.1 Samples and tests of all materials to be incorporated in the concrete shall be submitted in ample time for testing before delivery. All materials are subject to inspection and testing by a commercial testing laboratory approved by the Engineer at the Contractor's expense. All materials are subject to approval by the Engineer prior to their delivery to the site.

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1.4.2.2 The Contractor shall obtain from the manufacturer, prior to the actual delivery of the concrete, a statement giving the sources, specific gravities, and sieve analyses of the aggregates and the dry weights of cement and saturated-surface-dry weights of fine and coarse aggregate and quantities, type and name of admixture (if any) and of water per cubic yard of concrete that will be used in the manufacture of each class of concrete to be provided. This data shall be sent to the Engineer for review and approval.

- a. Aggregates shall be tested for gradation, purity and accelerated soundness. Tests shall comply with ASTM C33, C136, ASTM C40, and ASTM C88. The source of the material shall not be changed without retesting.
- b. Cement shall have representative mill test reports on physical and chemical requirements. All cement stored at job site or at concrete supplier's place for over 60 days shall be tested for compliance with ASTM C150.
- 1.4.2.3 Contractor shall submit concrete mix design to be reviewed by the Engineer.

1.4.2.4 Tests of other materials may be required by the Engineer.

PART 2 - PRODUCTS

2.1 MATERIALS:

2.1.1 All materials shown, specified or required to be incorporated in cast-in-place concrete shall be of finest quality, and shall be delivered, stored and handled so as to prevent damage. Damaged or inferior materials will be rejected. Approved brands or sources must be used, without change for the entire project. All materials shall be proportioned to produce a well graded mixture of high density and maximum workability.

2.1.2 <u>Portland Cement</u> shall be a standard brand in compliance with ASTM C150 Type I. Only one brand shall be used for exposed work. Generally, Type I cement shall be used; however, Types II or III may be employed with the approval of the Engineer or if shown, or specified.

2.1.3 <u>Fine Aggregates</u> shall be clean, sharp, natural sand, free from loam, clay, organic impurities or frozen materials and shall conform to ASTM C33 in all respects. Sand shall be tested for impurities in accordance with ASTM C40.

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2.1.4 <u>Coarse Aggregates</u> shall consist of strong, clean, crushed limestone or crushed gravel, free from harmful material and meeting all of the requirements of ASTM C33. Coarse aggregate shall also comply with New York State Department of Transportation Material Designation 703-02. Crushed limestone and crushed gravel shall meet the Physical Requirements (Testing) Designation 703-0201 and 703-0202, respectively.

2.1.5 <u>Water</u> used in mixing concrete shall be clean and free from all acid, alkali or organic matter and shall be obtained from a public water supply unless specifically permitted otherwise by the Engineer.

2.1.6 <u>Ready Mix Concrete</u> shall comply with ASTM Specification C94, this Specification, and used subject to the Engineer's approval.

2.1.7 <u>Admixtures</u>, where shown or specified, shall be as follows:

- Air entraining agent shall be "Daravair" or "Darex AEA" as manufactured by W.R. Grace Co., or Master Builder's "MBVR", or equal meeting the requirements of ASTM C260.
- b. Water reducing agent shall be Sika "Plastiment", Master Builder's "Pozzolith", W.R. Grace's "WRDA", or equal meeting the requirements of ASTM C494.
- c. High range water reducers or superplasticizers shall be Sika "Sikament-FF", W.R. Grace's "Daracem-100" or "WRDA-19", or equal meeting the requirements of ASTM C494.

2.1.8 <u>Bonding Agent</u>, where shown or specified, shall be "Dural 104" bonding compound manufactured by Dural International Corporation, "Sikadur 32 Hi Mod" by Sika Corporation, or equal.

2.1.9 <u>Anchorage Items</u>, where shown or specified, shall be as follows:

- a. Inserts for fastening shelf angles shall be malleable iron adjustable wedge type, with bolt and washer, if required, as manufactured by Hohman & Barnard, Inc., Richmond Screw Anchor Co., Inc., or equal.
- b. Threaded inserts for fastening of soffits of concrete beams shall malleable iron, as manufactured by Hohman & Barnard, Inc., Richmond Screw Anchor Co., Inc., or equal.

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- c. Ceiling hanger inserts shall be standard type wire as manufactured by Hohman & Barnard, Inc., Heckman Building Products, Inc., or equal.
- d. Masonry anchor slots shall be galvanized sheet metal, felt filled, as manufactured by Hohman & Barnard, Inc., Heckman Building Products, Inc., or equal.
- e. Flashing reglets shall be O'Keefe's Inc., PVC "Watertite Type P", or equal to size and shape shown.

2.1.10 <u>Flexible Sleeve</u>, where shown or specified, shall be of resilient rubber with a flanged, serrated waterstop and shall be cast directly into the walls of the concrete structure as shown on the Contract Documents. Flexible sleeve shall conform to the following physical requirements:

| | ASTM TEST REQUIREMENTS | | |
|------------------------------|------------------------|------|------|
| PROPERTY | METHOD | MIN. | MAX. |
| Tensile Strength, psi | D412 | 1500 | - |
| Ultimate Elongation, percent | D412 | 450 | - |
| Hardness, Type A durometer | D2240 | 45 | 55 |

2.1.10.1 Flexible sleeve must permit a minimum of 10 degrees deflection in all directions. Flexible sleeve shall be "Lockjoint Flexible Manhole Sleeve" as manufactured by Chardon Rubber Company, or equal.

2.1.11 Forms shall be wood, metal, or other approved materials as follows:

- a. Plywood shall be Commercial Standard Douglas Fir, moisture resistant, concrete form plywood, at least 5-ply 5/8" thick.
- b. Metal forms shall be as approved, and must produce surfaces equal to those specified for wood forms.
- c. Form oil shall be an approved non-staining mineral oil, such as "Duogaurd II" by W.R. Meadows, or equal.
- d. Form ties shall be of approved design, adjustable length and free of devices that will leave hole or depression larger than 7/8" diameter. When forms are removed no metal shall be left within 1" of finished surface.

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2.1.12 <u>Waterstops</u>, where shown or specified, shall be minimum 3/8-inch thick across their entire section, heavy duty, serrated type manufactured from virgin polyvinyl chloride compound, "Model RB6-38H" as manufactured by Vinylex Corporation, or equal. They shall have a tensile strength of minimum 1800 psi and an elongation of minimum 200%.

2.1.12.1 Waterstops shall be open bulb type, 6-inch wide unless otherwise shown or directed by the Engineer. The waterstops shall be supported during concrete placement to prevent dislodgement and to insure that the ends remain at right angles to the joint. Field joints shall be butt welded with an electric iron in accordance with the manufacturer's instructions.

2.1.12.2 Sample of the waterstops to be used shall be submitted to the Engineer for approval.

2.1.13 <u>Premolded Joint Filler</u>, where shown or specified, shall be premolded, resilient, nonextruding type, 1/2-inch thick unless shown otherwise, full depth of concrete section as manufactured by Celotex Corporation, "Fibre Expansion Joint Filler" by W.R. Meadows, or equal.

2.1.13.1 Sample of the premolded filler proposed to be used shall be submitted to the Engineer for approval.

2.1.14 <u>Joint Sealant</u>, where shown or specified, shall be elastomeric polyurethane sealant material, black in unexposed locations, and grey in exposed locations, and have balanced properties of elongation recovery and tensile strength, and shall be Sonneborn "Sonolastic NP1", Sika "Sikaflex 1A", or equal.

2.1.15 <u>Protective Covering</u> for concrete finish slabs, where shown or specified, shall be "Orange Label Sisalkraft", Polyethylene Film as manufactured by Fortifiber Corp., or equal.

2.1.16 <u>Non-Shrink Grout</u>, where shown or specified, shall be premixed compound consisting of non-metallic aggregate, natural aggregate, cement, water reducing and plasticizing agents; capable of developing minimum compressive strength of 2,400 psi in 48 hours and 7,000 psi in 28 days; such as "Masterflow" as manufactured by Master Builders, "SikaGrout 212" as manufactured by Sika, or approved equal.

2.1.16.1 Non-Shrink grout shall be used under structural steel column baseplates and all equipment baseplates. All work shall be done in strict accordance with the manufacturer's recommendations. At the request of the Engineer, the manufacturer's representative shall be called to the job site for consultation regarding detailed use of the grout.

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2.1.17 <u>Grout</u> for fillets, channels, or other non-structural applications shall consist of one (1) part cement (Portland Cement Type 2) and three (3) parts fine aggregate (sand) with sufficient mixing water for the intended application.

2.1.18 <u>Cementitious Coating Materials</u>, where shown or specified, shall be "Thoroseal" with "Acryle 60" bonding agent, as manufactured by Thoro System Products, "Anchor Masonry Surfacer" as manufactured by Anti Hydro Waterproofing Company, or equal.

2.1.19 <u>Curing Compound</u> shall be acrylic based "Kure-N-Seal" as manufactured by Sonneborn, acrylic based "CS-309", or water based "VOCOMP-20" as manufactured by W.R. Meadows, or equal.

2.1.20 <u>Vapor Retarder</u>, where shown or specified, shall be "Moistop" as manufactured by Fortifiber Corp. <u>Vapor Barrier</u> shall be "Premoulded Membrane Vaporseal" as manufactured by W.R. Meadows, or equal.

2.1.21 <u>Perimeter Insulation</u>, where shown or specified, shall be "Styrofoam Square Edge" as manufactured by the Dow Chemical Corporation, "Foamular 250" as manufactured by UC Industries, or equal.

2.1.22 <u>Penetrating Sealer</u>, where shown or specified, shall be two components, 50% solids penetrating epoxy sealer. The penetrating sealer shall be fully compatible with the types of form oil, curing compound and joint sealant used.

2.1.22.1 Concrete surfaces to be treated must be dry, cured for a minimum of 21 days, free from surface accumulations of dust, dirt, oil, debris, concrete curing compounds, bond breakers, or other compounds which would prevent penetration and intimate contact between the concrete surface and the penetrating sealer. Concrete surfaces require preparation per manufacturer's directions prior to sealer installation.

2.1.22.2 Penetrating sealer shall be "Spec-Seal" as manufactured by Conspec, Inc., or equal.

2.1.23 <u>Metal Slab Joints</u>, where shown or specified, shall be keyed type, minimum 18 gauge, galvanized steel by Heckmann Building Products, or equal.

2.1.24 <u>Vapor Barrier</u>: 6 mil (0.5 mm) thick clear polyethylene film type recommended for below grade application.

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2.2 CONCRETE MIX DESIGN:

2.2.1 The Contractor shall submit concrete mix designs to be reviewed by the Engineer. The mix designs shall be confirmed by making and testing trial mixes for each class of concrete to be incorporated in the work. All testing shall be made by an approved testing laboratory at the expense of the Contractor. Mix designs shall conform to the ACI 301, except as may be modified in the Plans and/or Specifications.

2.2.2 No job concrete shall be poured until the mix design for that concrete has been approved by the Engineer. Once the mix has been approved, it shall not be changed, except when requested by the Engineer, or if requested by the Contractor and approved by the Engineer.

2.2.3 Ready-mixed concrete from an established company will be approved, if conforming to ASTM C94, and to this specification. All concrete shall be batched, mixed, delivered to the site, and shall conform to these requirements and be controlled in a manner to assure uniform concrete for the quality specified.

2.2.4 Water/cement ratios of all mixes shall be determined from w/c curve plotted from tests of the cement and aggregates used on the job. If necessary to increase the water content of the mix due to field conditions, sufficient cement must be added to maintain the design water/cement ratio. Accelerating or retarding admixtures may be permitted by the Engineer if requested by the Contractor to compensate for adverse weather conditions.

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2.2.4.1 The various classes of concrete shall be designated as follows:

| MAXIMUM PERMISSIBLE WATER-CEMENT RATIOS FOR CONCRETE (WHEN STRENGTH DATA FROM TRIAL BATCHES OR FIELD EXPERIENCE ARE NOT AVAILABLE) Maximum permissible water-cement ratio | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------|----------------------------------------|--------------------------------|----------------------------------------|
| | MIN 29 DAV | NON-AIR-ENTRAINED CONCRETE | | AIR-ENTRAINED CONCRETE | |
| CLASS | MIN. 28-DAY COMPRESSIVE STRENGTH IN PSI* | ABSOLUTE RATIO BY WEIGHT | US GAL. PER 94-LB. BAG OF CEMENT | ABSOLUTE RATIO BY WEIGHT | US GAL. PER 94-LB. BAG OF CEMENT |
| А | 5,000 | ** | ** | ** | ** |
| В | 4,000 | 0.44 | 5.0 | 0.35 | 4.0 |
| С | 3,000 | 0.58 | 6.6 | 0.46 | 5.2 |
| D | 2,500 | 0.67 | 7.6 | 0.54 | 6.1 |
| Е | 2,000 | 0.71 | 8.0 | - | - |
| *28-day strength. With most materials, water/cement ratios shown will provide average strengths greater than indicated in Section 5.4 of ACI 318R as being required. **For strength above 4,500 psi (non-air-entrained concrete) and 4,000 psi (air-entrained concrete) | | | | | |

proportions shall be established by methods of Section 5.3 of ACI 318R.

Unless otherwise specified, all concrete shall be Class "B", non-air-entrained except exposed concrete which shall be air-entrained. When foundation walls or grade beams are exposed to weather above grade, the entire wall shall be considered exposed concrete.

2.2.4.2 Maximum size aggregates shall be used as follows unless otherwise designated by the Engineer.

| 1-1/2" | general work |
|-------------|-----------------------------------|
| 3/4" | thin sections; heavy reinforcing |
| 3/4" | columns, beams and slabs |
| Over 1-1/2" | massive structures, with approval |
| 3/8" | floor toppings |

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2.2.4.3 Slump - Maximum:

| Reinforced concrete - general | 4" |
|-------------------------------------------|----|
| Reinforced concrete - thin walls, columns | 5" |
| Non-reinforced concrete | 3" |
| Pavements, including sidewalks | 3" |
| Heavy mass concrete | 3" |

2.2.4.4 Air Content: Use an approved air entraining admixture. The entrained content shall be controlled between 4% - 6%. See Plans for concrete work requiring air entrainment.

2.2.4.4.1 For mixes containing coarse aggregate with a top size of 3/4" or smaller and for exposed concrete subject to frost and salt action, air contents shall be increased to the range of 5% - 7%.

2.2.4.5 Should the Contractor feel it advantageous to employ concrete additives to improve workmanship or facilitate his work, he shall obtain the approval of the Engineer prior to his use of additives.

2.2.4.6 Use of accelerating admixtures in cold weather will not relax cold weather placement requirements.

2.3 STORAGE OF MATERIALS:

2.3.1 Portland Cement shall be stored in a weather-tight structure. No cement that has taken a warehouse set shall be used and any stored over sixty (60) days shall be rejected unless tested for soundness and setting time under ASTM C150. Such tests shall be at the Contractor's expense.

2.3.2 Fine and coarse aggregates shall be kept separated and free from deleterious substances. All topsoil shall be removed from the storage area. Materials shall be stockpiled in layers to prevent segregation; however, re-mixing may be required if gradation is not maintained. Care shall be taken not to inter-mix materials in the area with the aggregates.

2.3.3 Any materials that have deteriorated or become contaminated will be rejected for use in the concrete and must be promptly disposed of by the Contractor.

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PART 3 - EXECUTION

3.1 FIELD QUALITY CONTROL:

3.1.1 Before each pour, forms and reinforcing shall be inspected and approved by the Engineer. The Contractor shall give at least 24 hours notice before such an inspection is required. No pour shall be started until the Engineer has given approval. No concreting may be done in the absence of the Engineer without written permission of the Engineer.

3.1.2 Concrete Batch Ticket:

3.1.2.1 The Contractor shall require the manufacturer of the concrete to furnish to the Engineer with each batch of concrete before unloading at the site, a delivery ticket on which is printed, stamped, or written, information concerning said concrete as follows:

- Name of ready-mix batch plant
- Serial number of ticket
- Date
- Truck number
- Name of purchaser
- Specific designation of job (name and location)
- Designation of the concrete by compressive strength
- Amount of concrete in cubic yards
- Time loaded or of first mixing of cement and aggregates
- Reading of revolution counter at the first addition of water
- Type and brand, and amount of cement
- Type and brand, and amount of admixtures
- Total water added by producer (and W/C ratio)
- Water added at job site (upon approval of the Engineer)
- Maximum size of aggregate
- Weights of fine and coarse aggregate
- Ingredients certified as being previously approved
- Signature or initials of ready-mix representative

3.1.3 Concrete Testing:

3.1.3.1 The Contractor shall employ an approved commercial testing laboratory at his own expense to provide field sampling, testing and inspection of all concrete. Continuous inspection by the approved testing laboratory shall be provided during all concrete pours. The Contractor

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shall maintain a record set of plans at the site showing date and amount of each pour, test results and temperature. If any portion of the work shows low test results, the Engineer may require batch plant inspection, additional testing, load tests, cored samples, and/or replacement of the faulty work, etc., at the Contractor's expense.

3.1.3.2 The Contractor, through its approved testing laboratory, shall make all laboratory or field tests as required and shall furnish all necessary equipment. The Contractor, through its approved testing laboratory, shall transport all test cylinders from the site to the laboratory.

3.1.3.3 Field concrete inspection: The Contractor, through its approved testing laboratory, shall provide a competent field concrete inspector whose minimum duties shall be as follows:

- Check each truck on arrival to make sure that the concrete is not retempered.
- Make necessary slump tests for uniformity control.
- Make air tests and yield tests as required.
- Make any and all test cylinders as may be required in the Specifications.
- Notify the Engineers and/or his representative if any test results vary from the specified limits.

3.1.3.4 Tests:

- a. Concrete shall be tested by an approved testing laboratory as follows:
 - Standard 6" x 12" compression cylinders shall be in compliance with ASTM C39 in sets of four and shall be moist cured. Break 2 at 7 days, and 2 at 28 days. One set shall be made for approval of each mix design, one set for first pour of 50 cubic yards or less, and one set for each additional pour of 50 cubic yards. If less than 50 cubic yards are placed in one day, one set shall be made for each day's pour.
 - All test cylinders shall be cast, moist cured and broken under laboratory conditions in accordance with the ASTM C31 and ASTM C39. All four cylinders of a test shall be taken from the middle third of a single load. Each cylinder shall be properly labeled with an identifying mark, the mix proportions, air content, amount of water, slump, and the location in the structure where the concrete was

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placed. Test reports shall include all this information. Distribute copies of reports as requested by the Engineer. Should any results be questionable, the Engineer shall be notified immediately so that corrective measures can be taken. Any test cylinder which has broken and fails to meet requirements shall be preserved for inspection by the Engineer.

3.1.4 Records:

3.1.4.1 Maintain records of concrete placement. Record date, location, quantity, air temperature and test samples taken.

3.2 BATCHING AND MIXING:

3.2.1 All Batching and Mixing shall conform to the following and the ACI 304, "Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete".

3.2.2 Aggregates and bulk cement shall be measured to within 1% by weight. Cement in standard sacks need not be weighed. Water shall be measured by volume or by weight to within 1/2%. Aggregate weights shall be corrected for moisture content. Admixtures shall be added through appropriate dispensing equipment to an accuracy of 3%.

3.2.3 The complete plant assembly shall be approved by the Engineer and shall conform to the following requirements:

- Provide ready adjustment of aggregate weights for varying moisture contents.
- Provide means of accurately controlling and easily checking water-cement ratio.
- Provide accurate control of all materials with positive shut-off.
- Facilities shall be provided for prompt removal of excess materials in hoppers.
- Each specified size of aggregate shall be measured separately with a separate beam scale.
- Bulk cement shall be dropped through canvas drop chutes or telescopic flexible hose tremie.

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3.2.4 Concrete mixers or mixer trucks shall not be loaded to more than the rated capacity of the truck.

3.2.5 All concrete shall be mixed not less than 60 revolutions in the drum of a modern power mixer, at the rated speed of rotation. Mix not less than an additional 30 revolutions after the addition of any further water to the mix.

3.2.6 Do not add raw materials to the drum until all of the preceding batch has been discharged. For transit mixers, the wash water shall be discharged and not used as part of the mix water for the next batch.

3.2.7 Transit-mixed concrete shall be transported to the job site unmixed and only after arrival at the job site shall mixing begin. All concrete shall be unloaded from the mixer within 45 minutes after completion of mixing. All concrete still remaining in the truck shall be rejected.

3.2.8 The total time interval from the time the cement makes contact with the aggregate to the complete unloading from the mixer shall not exceed 90 minutes, unless such time is extended by the Engineer. The time may be reduced in hot weather or under unusual conditions, if unsatisfactory results are obtained.

3.3 FORMWORK:

3.3.1 The Contractor shall design and construct suitable and adequate formwork in conformance with ACI 347R. All shoring shall be properly braced to safely withstand all vertical, moving and lateral forces during the construction period. Responsibility for adequacy and safety rests with the Contractor. Materials shall be as stated in Paragraph 2.1.

3.3.2 General requirements for all forms shall be as follows:

- Forms shall be constructed of wood, plywood, or steel.
- All forms shall be set true to line, plumb, and properly braced so as to maintain the desired position and shape during and after pouring concrete. Forms shall be sufficiently tight to prevent leakage.
- All joints between sheets shall be backed up to assure that both sheets are in the same plane. Edges of abutting sheets shall be straight and true and shall be forced tightly together to minimize fins. Quality of form contact surfaces shall be subject to Engineer's approval.

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- Form ties shall be designed for the specific wall thickness required, and after removal of the external portion, no metal shall remain closer than one inch (1") from the surface. Ties to be left in place shall be equipped with washers or other approved devices to prevent seepage of moisture along the tie. The removable portion shall be oil or grease coated.
- Immediately following the removal of forms, the projecting ties shall be removed and all holes filled with grout flush with the wall. Care shall be taken to use the same brand of cement and same mix proportions used in the wall to prevent color differences.
- Forms for walls and columns shall be provided with removable cleanout panels, to allow removal of chips and debris. All plywood forms must be new when first used on this job, but may be reused if kept in good condition. All forms shall be swept or flushed clean of shavings, debris, and other loose material. Loose earth and rock shall be scraped from footing trenches before pouring concrete.
- Provide 3/4" chamfer strips, unless noted otherwise on the drawings, at all exposed corners of columns, beams and walls where later finish is not to be applied.
- All forms and shores for floor and roof slabs and beams shall be "crowned" or "cambered" 1/4" for each 12 feet of span to eliminate dead load deflection. All forms shall be oiled with a non-staining mineral form oil before placing reinforcing.
- Build into forms all hangers, anchors, bolts, inserts, sleeves, etc., required to be set as part of this work, place and secure in exact position.

3.3.3 Form removal shall be as follows:

3.3.3.1 It shall be the Contractor's responsibility to determine the time at which forms may be removed without endangering the structure, subject to the following limitations, unless documentation is provided to modify these requirements:

Footing forms - 24 hours minimum; continue curing as specified.

Wall forms - 2 days minimum for ten (10) feet high. Add one (1) day for each additional five (5) feet of height; continue curing as specified.

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Superstructure slabs, beams and columns shall not be stripped until the concrete attains at least 75% of its design strength as proven by test cylinders, and until a minimum of 14 days has elapsed.

Reshoring - immediately after stripping, fully reshore all slabs which are to be used to support shores for upper slabs. All forms for upper floor pours must be supported by shoring to at least two levels of full strength concrete.

3.4 JOINTS FOR CONCRETE:

3.4.1 Joints for concrete shall include all expansion joints, construction joints and contraction joints.

3.4.2 All joints shall be constructed at locations shown on the drawings, or as directed by the Engineer. Additional joints may be constructed by the Contractor subject to the approval of the Engineer.

3.4.3 Expansion Joints:

3.4.3.1 Expansion joints shall be constructed where shown and as directed. Reinforcement, corner protection angles or other fixed items embedded or bonded into concrete shall not be run continuously through expansion joints. Reinforcement shall be discontinued 2 inches from the joint face. A slightly rounded edging shall be provided to finish neatly all edges around expansion joints.

3.4.3.2 Preformed expansion joint filler material, sealant and waterstops, where shown on the drawings, shall be as specified in Paragraph 2.1.

3.4.4 Construction Joints:

3.4.4.1 The location of construction joints shall be chosen by the Contractor and shall be subject to the Engineer's approval except where specifically located on the Plans.

3.4.4.2 Horizontal construction joints in walls will not be permitted, except with the approval of the Engineer. In order to minimize shrinkage, long continuous walls shall not be poured at one time. No more than 50 feet in horizontal direction shall be poured without a construction joint, unless prior approval is obtained from the Engineer.

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3.4.4.3 Reinforcing shall be discontinuous through a construction joint, unless otherwise noted on drawings. As shown or specified on the drawings, additional No. 3 reinforcing bars spaced at 12-inches on center shall be placed horizontally in each construction joint at the center of the section. These bars shall be 4-feet long and shall extend 2-feet on each side of the joint. Reinforcement projecting through joint shall be kept clean.

3.4.4.4 As indicated on the drawings, all construction joints shall be provided with a keyway and a PVC waterstop as specified in Paragraph 2.1. The joint surface of the concrete previously placed shall be cleaned of all foreign matter and laitance by means of sandblasting with steam and sharp sand, or by other approved methods, until coarse aggregate is exposed. The concrete surface shall be saturated for a period of 6 hours and excess water then removed.

3.4.4.5 The new concrete shall be preceded by about 1/2-inch of soft mortar of the same proportions as that in the concrete. When accessible, this shall be scrubbed into the surface of the joint with wire brooms. When waterproofing is required, the entire joint shall be parged with a grout of approved mixture as recommended by the manufacturer of the waterproofing admixture, or one composed of one part integral waterproofing, three parts water and sufficient Portland Cement to form a thick, creamy mixture. This grout shall be fresh when followed by the new concrete. In column forms and deep narrow forms, the concrete placement shall be started with an oversanded mix with 5/8-inch maximum aggregate, and extra sack of cement per cubic yard, and a 5-inch slump. This mix shall be placed maximum 2 inches deep on the construction joint. A mortar layer shall not be used.

3.4.4.6 As indicated on drawings, a metal keyed floor slab joint may be used in lieu of above method.

3.4.5 Contraction (Control) Joints:

3.4.5.1 Contraction joints shall be located as shown on the drawings or as directed. Reinforcement through the joint shall be continuous as shown on the drawings and/or as directed by the Engineer.

3.4.5.2 Sawcut contraction joints (Type "A") shall be made by cutting the concrete surface and filling with the sealant material as specified under paragraph 2.1. Cutting shall be done after the surface is firm enough not to be damaged by the cutting blade. Time of cutting shall be approved by the Engineer.

3.4.5.3 Formed contraction joints (Type "B") shall be made by tooling with a 1/4-inch radius edging tool and filled with the sealant material as specified under paragraph 2.1.

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3.4.5.4 Premolded Contraction Joints (Type AC@) shall be "Kold-Seal Zipper Strip" by Vinylex or "Zip Cap Control Joint" by Greenstreak Products, or equal.

3.4.5.5 As indicated on drawings, a metal keyed floor slab joint may be used in lieu of above method.

3.5 INSERTS AND SLEEVES:

3.5.1 The Contractor shall cooperate with all other Contractors in permitting the placing of all necessary sleeves, conduit, or inserts for hangers for their trades. The Contractor shall notify the trades of all pours in ample time for the responsible Contractor to place all embedded items, sleeves, slots, holes or chases.

3.5.2 Accurately set all slots, chases, anchor bolts, opening, etc. All inserts for hanging mechanical equipment shall be provided and set by the Contractor for the trade involved. All sleeves for piping passing through floors and walls shall be provided by the Contractor for the trade involved and set by the General Contractor.

3.5.3 All conduit which must be placed in concrete slabs shall be installed after, and above the bottom reinforcing, but before, and under the top reinforcing. Where conduit cross-overs are necessary, they shall be located so that reinforcing is not displaced from its specified position.

3.5.4 All anchor bolts for the structural steel shall be carefully set as shown on the fabricator's approved anchor bolt plan.

3.5.5 If, in the judgement of the Engineer, embedded items are located or grouped in a manner that will weaken the structure, the Contractor shall take the necessary corrective steps.

3.5.6 All inserts and sleeves where the outside diameter is greater than the spacing between the reinforcing steel, the reinforcing bars shall be warped around such inserts and sleeves. Unless shown otherwise on the drawings, provide, as a minimum, two #4 diagonal bars per face at 90 degrees to each other all around the inserts and sleeves.

3.5.7 Where openings are left in new concrete or are made in existing concrete for the insertion of wall castings, pipes or other fixtures, the space around these fixtures shall be made watertight by completely filling with a non-shrinking concrete containing an admixture of "SikaSet-C", "Anti-Hydro" Concrete Waterproofing Agent, or equal.

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3.6 CONVEYING AND PLACING CONCRETE:

3.6.1 The placing or depositing of all concrete shall be done in accordance with ACI 304, and as modified herein.

3.6.2 Preparation Prior to Placing Concrete:

- a. Prepare previously placed concrete surfaces by cleaning with steel brush and applying bonding agent in accordance with manufacturer=s instructions.
- b. In locations where new concrete is dowelled to existing work, drill holes in existing concrete, insert steel dowels and pack solid with non-shrink grout.
- c. Before placing concrete, all debris, water, snow and ice shall be removed from places to be occupied by concrete. Wood forms shall be wetted except in freezing weather or oiled, and the reinforcement cleaned of ice or other coatings.

3.6.3 Conveying, transporting, and placing shall be done as rapidly as practicable and without segregation, loss of ingredients, and without unnecessary rehandling. The tempering of concrete will not be permitted.

3.6.4 Concrete shall be deposited as nearly as practical to its final position to avoid segregation due to rehandling or flowing. The concreting shall be carried on at such a rate that the concrete is at all times plastic and workable and flows readily into the spaces between the reinforcing bars. No concrete that has partially hardened or been contaminated by foreign material shall be deposited on the work, nor shall retempered concrete be used. Once the concreting is started, it shall be carried on as a continuous operation until the placing of the panel or section is completed. All concrete shall be compacted by suitable means during the placing operation, and thoroughly worked around reinforcement and embedded fixtures and into corners of the forms. Tremies shall be used for deep forms, and concrete shall not be dropped more than 6'-0".

3.6.5 Vibrating:

3.6.5.1 During and immediately after depositing, all concrete shall be thoroughly compacted by vibrating the concrete internally with mechanical vibrating equipment. Care must be taken not to over-vibrate the concrete. Maintain spare vibrator(s) at the site for use in the event of breakdowns.

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3.6.5.2 Spade and work the coarse aggregate away from forms, and work concrete around reinforcement to avoid air pockets, voids, and honeycombed sections. Hand spading slabs will be required in addition to mechanical vibration.

3.6.6 During concreting, check shoring frequently with level. Strengthen or adjust shoring as required. Ensure reinforcement, inserts, embedded parts and formed joints are not disturbed during concrete placement.

3.6.7 Placing of concrete in supported elements shall not be started until the concrete previously placed in columns and walls is no longer plastic and has been in place at least two hours.

3.6.8 Screed all work to level surfaces at the proper elevations. Rake surfaces to provide bond for floor finishes where specified.

3.6.9 No concrete shall be deposited under water without written permission of the Engineer and then only in accordance with his directions. Proper tremie equipment and techniques must be used, should the need arise.

3.6.10 The Contractor shall have available at all times sufficient approved materials such that, when started, concrete shall be continuous operation until placement of panel or section is complete. Should placing of concrete be suspended or unavoidably interrupted once a pour has been started, provide bulkheads and keyways at formed surface at which to stop pour.

3.6.11 All laitance shall be removed from previous pours before additional concrete is placed.

3.6.12 Place concrete continuously between predetermined expansion, control and construction joints.

3.7 PROTECTION AND CURING:

3.7.1 All concrete shall be protected against injury by sun, rain, freezing, mechanical damage, or premature drying. All concrete shall be maintained above 50°F in a moist or wet condition for at least the first 7 days after placement.

3.7.2 On vertical surfaces keep forms on, or cover with burlap blankets, kept wet. When forms are exposed to the sun, minimize moisture loss by keeping the forms wet until they can be removed safety.

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3.7.2.1 For the preservation of moisture, apply one of the following procedures to concrete not in contact with forms, immediately after completion of placement and finishing:

- a. continuous sprinkling
- b. application of absorptive mats or fabric kept continuously wet
- c. application of waterproof sheet materials as specified in Part 2, herein
- d. application of the curing agent specified in Part 2, herein

3.7.3 On horizontal surfaces and floors to receive later finishes, cover with wet burlap, wet sand, or curing paper and keep saturated. Cement finish floors shall be covered with protective covering material with lapped and sealed edges after the concrete has set sufficiently to carry worker's weight. Covering shall remain in place until floor is cleaned. Weight covering with planks as required to hold it in place.

3.7.4 Cold weather protection shall conform to A.C.I. 306R, except as modified herein.

3.7.4.1 Prior to pouring, it shall be the Contractor's responsibility to keep the forms free from snow, ice, mud or debris at all times, by means of covers, enclosures, live steam or heating below the forms, as necessary. Use of torches, open flames, salts, straw, hay or chemical is prohibited.

3.7.4.2 When air temperature is 40°F, or less, use only heated concrete, delivered to the forms at temperatures between 65°F and 85°F. All portions of freshly poured concrete shall be continually maintained at a temperature of not less than 50°F for seven days. Specified temperature shall be maintained by heated enclosures, insulating blankets, insulated forms, or whatever approved methods are required to attain the specified result.

3.7.4.3 Concrete shall not be poured on frozen soil. After pouring, protect against freezing and heaving of subgrade. Any frozen concrete will be rejected and removed at the Contractor's expense. Accelerating admixtures shall not be accepted in lieu of winter protection.

3.7.5 Hot weather protection shall conform to ACI 305R, except as modified herein.

3.7.5.1 During warm dry weather special care and precautions should be taken to prevent premature setting which may cause shrinkage and surface checking. No concrete shall be placed at temperatures above 90°F without approval of the Engineer.

3.7.6 No water (except curing spray) shall be allowed to come in contact with the concrete or masonry surface for a minimum of 24 hours. Should the rising water place a stress on the concrete, proper bracing shall be provided. Loading shall not occur without prior approval by the Engineer, and proper safety precautions shall be the responsibility of the Contractor.

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3.7.7 Curing compound may be used as specified in Paragraph 2.1 provided discoloration does not occur and application is in accordance with manufacturer's direction and is compatible with concrete finish.

3.8 FOOTINGS AND MATS:

3.8.1 Hand trim excavation to required levels.

3.8.2 Where shown on the drawings provide concrete mud mat to the thickness indicated.

3.8.3 Support reinforcing on bricks or precast blocks, or where mud mat is used, on chairs or bolsters, 3" clear of soil.

3.8.4 Columns and wall dowels shall be positioned, supported and tied in place before concrete is poured. Footing bottoms shall be inspected and approved by the Engineer before placing mud mat or footings.

3.9 SUPPORTED SLABS ON FORMS:

3.9.1 Forms shall be built to required dimensions and camber as specified above. Reinforcing shall be located as shown on approved placing plans. Support bars at specified heights with bolsters, chairs, etc., so that reinforcing will not be moved from the specified position during placing of concrete.

3.9.2 Refer to paragraph 3.5 for installation of conduits.

3.10 SLABS ON GROUND:

3.10.1 Subgrade and base to be prepared as specified in Contract Documents.

3.10.2 Form depressed ribs under partitions as required by sloping gravel, or provide permanent side forms to retain gravel.

3.10.3 Trench subgrade for electric conduit as detailed on Plans. All reinforcing shall be above electric conduit.

3.10.4 Place slabs of thickness shown on Plans, vibrate, screed, float level, and finish as specified below.

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3.11 CONCRETE FINISHES - FORMED SURFACES:

3.11.1 After the forms are removed, all concrete surfaces shall be inspected, and any poor joints, voids, stone pockets or other defective areas noted by the Engineer shall be repaired immediately at the Contractor's expense by cutting away the unsound area to a minimum depth of 1 inch, and refilling with mortar mixed using the same brand of cement as the original pour. Edges of the patch shall be square with the face, with feather-edging prohibited. Obtain approval of corrective action prior to repair.

3.11.2 Care shall be taken to saturate the patched area and holes shall be filled in 1/2-inch layers with a delay for an initial set to take place before the succeeding layer is applied. If, in the opinion of the Engineer, improper consolidation is too extensive, or if the structure appears weakened by the voids, complete removal of the concrete in question may be required. Patches shall be kept moist for a minimum of three days.

3.11.3 Rubbed finishes shall be as follows:

| a. | <u>Type A</u> : | Surfaces shall be rubbed until all marks are obliterated and a uniformly smooth finish is obtained. |
|----|-----------------|--------------------------------------------------------------------------------------------------------------------------|
| b. | <u>Type B</u> : | Surfaces shall be rubbed until they are uniformly smooth, but the complete obliteration of all marks is not required. |
| c. | <u>Type C</u> : | All fins, burrs and projections shall be removed, any honey- comb or tie-holes shall be filled and patched. |

3.11.4 The type of finish to be used shall be as scheduled or as noted on the Plans. Where the type of finish is not shown or scheduled, exposed faces shall be given a Type B finish and unexposed faces shall be given Type C finish.

3.11.5 Rubbing shall begin as soon as practicable after removal of forms and shall be expedited to completion as rapidly as practicable.

3.11.6 Surfaces shall be rubbed with carborundum and water until all fins, bubbles, hollows and other defects are removed. Grout or mortar shall not be used in the rubbing process, and plastering of surfaces will not be permitted. Power tools shall be used for rubbing with hand work limited to inaccessible corners or very small areas.

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3.12 FLOOR AND SLAB FINISHING:

3.12.1 Finished floors and slabs shall be level to within 1/8" of finish floor elevation in ten feet. If this variation occurs, it must not be abrupt, but must taper so that the 1/8" variation takes place in not under 4 feet. Areas with drains shall have the surfaces sloped uniformly and true to the effect that no surface ponding occurs. If required by the Engineer, replace, grind or furnish underlayment to correct the variation, at the Contractor's expense. All floors and slabs shall be cured and protected as specified.

3.12.2 Trowelled Finish: Provide a floated finish, followed by a power troweling and then a hand troweling thoroughly consolidating the surface. Provide a finished surface essentially free from trowel marks and uniform in texture and appearance.

3.12.2.1 Where exposed concrete finish is specified, provide a steel trowelled finish.

3.12.2.2 Under quarry tile and ceramic tile screed to accurate lines and levels as required to receive these materials. Floors receiving tile are to be steel trowelled finished and are indicated on the Plans.

3.12.3 Float Finish: A float finish shall be applied to all exterior concrete and those areas not intended for occupancy, such as culvert inverts, bottoms of manholes and catch basins, pads, etc.

3.12.4 Broom Finish: Provide a floated finish. While the surface is still plastic, provide a textured finish by drawing a fiber bustle broom uniformly over the surface in one direction only. Provide "medium" texturing unless noted otherwise on the Contract Drawings. Sidewalks, walkways, or exterior ramps shall be given a broom finish, perpendicular to traffic, sufficient to leave marks without appreciable disturbance of the surface.

3.12.5 Dusting with dry cement or cement sand mixtures, to hasten drying, is prohibited. Dry time shall be controlled by controlling the water content and slump of the concrete when placed.

3.13 BONDING:

3.13.1 For the bonding of new and old concrete, such provisions shall be made by means of steps, dovetails, bonding agents as specified in Paragraph 2.1, or other devices as shown, or directed.

3.13.2 When placing of concrete is suspended or unavoidably interrupted, all necessary grooves for bonding future work shall be made before the concrete has attained its initial set. When the work is resumed, concrete previously placed shall be roughened, cleaned of all foreign

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material and laitance by means of sandblasting with steam and sharp sand or other approved methods, until coarse aggregate is exposed, and thoroughly wetted and slushed with mortar containing the same proportion of cement and fine aggregate as used in the concrete to be placed. Follow manufacturer's preparation recommendations when using a bonding agent.

3.14 MISCELLANEOUS CONCRETE WORK:

3.14.1 Pour all sump pits, canopies, copings and provide all other miscellaneous concrete and cement work shown on the drawings. All such concrete shall be reinforced as shown. Provide all cement filled stair treads as detailed. Place bottoms and walls of pits and trenches monolithically or provide waterstops and keys.

3.14.2 Concrete Walks: Provide 4 inches thick minimum. Provide contraction joints spaced every 5 linear feet, unless otherwise indicated. Cut contraction joints 3/4-inch deep with a jointing tool after the surface has been finished. Provide 1/2-inch thick transverse expansion joints at changes in direction, where sidewalk abuts curb, steps, rigid pavement, or other similar structures. Provide a transverse slope of 1/4-inch per foot, and limit variation in cross section to 1/4-inch in 5 feet unless otherwise indicated.

3.14.3 Curbs and Gutters: Provide contraction joints spaced every 10 feet maximum, unless otherwise indicated. Cut contraction joints 3/4-inch deep with a jointing tool after the surface has been finished. Provide expansion joints 1/2-inch thick and spaced every 100 feet maximum, unless otherwise indicated. Provide a broom finish.

3.14.4 Equipment Bases: Unless otherwise shown, all equipment shall be erected on bases of Class "B" concrete. Thickness shall be as noted on the Plans, but at no time shall it measure less than 1 inch.

3.14.5 Concrete Stairs, Steps and Platforms: Stairs, steps and platforms shall be formed to required profiles shown on the Plans. Place reinforcing as required. Finish of stairs and steps shall be monolithic. Where shown on Plans, provide for nosings. Exterior stairs, steps and platforms shall have a non-slip finish. Before final troweling, embed abrasive grits, as specified in Paragraph 2.1, in the surface.

3.15 CEMENTITIOUS COATING:

3.15.1 Cementitious Coating shall be applied to all exposed exterior and interior Cast-In-Place Concrete surfaces except concrete floors and walking surfaces in accordance with the schedule shown on the Plans, or otherwise directed.

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3.15.2 The surfaces to be coated shall be clean, free of all laitance, dirt, grease, curing compound, form treatments, efflorescence, paint and other foreign matter. All formed tie-rod holes and honeycombed areas shall be patched flush with the surrounding area using mortar as recommended by cementitious coating manufacturer.

3.15.3 All areas scheduled to be coated will receive two coats of cementitious coating as specified in Paragraph 2.1, applied at a minimum rate of 2 pounds per square yard per coat. The first coat shall be allowed to set before the second coat is applied. Sufficient materials shall be applied to fully seal all pores and voids. All coatings shall be done strictly in accordance with the manufacturer's recommendations.

PART 4 - MEASUREMENT & PAYMENT

4.1 MEASUREMENT - CAST-IN-PLACE CONCRETE:

4.1.1 The quantity of Cast-In-Place Concrete for which payment will be made will be the actual number of cubic yards measured in place within the lines shown, specified, or ordered.

4.2 PAYMENT - CAST-IN-PLACE CONCRETE:

4.2.1 For Cast-In-Place Concrete, not included in other unit or lump sum price items, payment for Cast-In-Place Concrete will be made at the applicable price stated in the Proposal.

END OF SECTION