NC STATE UNIVERSITY

North Carolina State University

c/o

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INDOOR ENVIRONMENTAL INVESTIGATION REPORT – INITIAL PHASE

NORTH CAROLINA STATE UNIVERSITY POE HALL, RALEIGH, NORTH CAROLINA

Prepared by



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Project Number GN10263

February 08, 2024

CERTIFICATION PAGE

INDOOR ENVIRONMENTAL INVESTIGATION REPORT – INITIAL PHASE

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Geosyntec Consultants of NC, P.C. is licensed to practice engineering in North Carolina. The certification

number (Firm's License Number) is C-3500.

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1. INTRODUCTION

North Carolina State University's (NCSU's) outside counsel, Kilpatrick Townsend & Stockton LLP, retained Geosyntec Consultants of NC, P.C. (Geosyntec) on December 7, 2023, to provide environmental consulting services in a matter at Poe Hall on the NCSU campus in Raleigh, North Carolina (**Figure 1**). Consulting services relate to assessing and, if necessary, mitigating exposure of building occupants to polychlorinated biphenyl (PCB) compounds that may be present in the building.

Geosyntec understands that in the fall of 2023, NCSU collected samples of surficial dust, air and some bulk materials from components of the heating, ventilation and air conditioning (HVAC) systems for laboratory analysis for PCBs, in response to concerns from Poe Hall occupants about environmental conditions in the building. After receiving analytical results from the laboratory in November that reported detections of PCBs in some dust and some bulk samples, NCSU closed Poe Hall and shut down the HVAC systems out of an abundance of caution, pending further investigation.

Poe Hall is a 7-story academic building constructed in approximately 1971, when PCBs were widely used in building materials, such as paint, caulk, and some mastics, across the United States. PCBs are a family of related artificial compounds, manufactured for use in a multitude of industrial and commercial products prior to 1979, when they were banned in the United States. Each PCB consists of a biphenyl molecule bonded to one or more chlorine atoms. There are 209 distinct PCB compounds (called congeners) with each containing from 1 to 10 chlorine atoms. The number and placement of the chlorine atoms on the biphenyl molecule determines how the congener is named. PCBs typically occur as a mixture of congeners, and the most common commercial mixtures are called "Aroclors." Aroclor names reflect the percentage of chlorine by weight in the mixture (for example, Aroclor-1262 is 62% chlorine by weight).

Geosyntec is supporting NCSU's inquiry into the presence of PCBs in Poe Hall through a phased investigation, and this report provides a summary of the initial phase of investigation, conducted in December 2023 to assess the present state of Poe Hall. The investigation is focused on understanding the sources of PCBs that could be accessible to building occupants and the distribution of accessible PCBs in the building. Based on the information collected to date, the preliminary conceptual site model (CSM) is built on the assumption that the primary mechanism by which building occupants potentially could be exposed to PCBs, would be through contacting or respiring PCBs adsorbed to dust, and further, that dust is conveyed and distributed by the building's six air handling units, which are combined into four HVAC circulation zones. Sources of PCBs in this preliminary CSM would be located inside the HVAC system components, in contact with

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flowing air, where the bulk materials that make up potential sources might break down and later be distributed to indoor spaces. Following this initial investigation and based on additional sampling data and information, this preliminary CSM will be refined and further developed in a coming report.

This initial investigation phase included collecting samples of indoor air and surficial dust from December 20 to 22, 2023 in Poe Hall to understand the current conditions of PCBs in surficial dust and air, and to support NCSU's decisions about building access for near-term needs, such as maintenance, required inspections and emergency services. The sampling plan included air samples and surface wipe samples distributed in Poe Hall considering the following variables: floor, HVAC circulation zones, room use, room location (perimeter with windows or interior). In addition, wipe samples were planned to be collected both from surfaces that were likely to have frequent touches and surfaces that were likely to have infrequent touches. Some wipe samples were collected in rooms that NCSU has identified where critical system maintenance, emergency preparedness and inspections will be required, but in general, wipe and air samples were collected in rooms with air supplies.



2. AIR AND SURFACE WIPE SAMPLING METHODS

This section describes sampling procedures, equipment and analyses.

2.1. Air Sampling Methods

Geosyntec sampled indoor and outdoor air on December 20, 21, and 22, 2023 from select locations in Poe Hall. The sampling set included 14 indoor air samples, one outdoor air sample on the rooftop, one duplicate (collected from Room 106) and one blank. Sample locations were selected to include multiple samples from each of the seven building floors and rooftop, from most types of rooms, and for each of the 4 HVAC circulation zones. Room types sampled included offices, classrooms, laboratories, and a bathroom.

Air samples were collected by drawing air through a laboratory-provided sampling cartridge with a calibrated Gillian GilAir Plus air sampling pump. Sampling cartridges contained a clean polyurethane foam (PUF) and were attached to the continuous-flow air sampling pump for a total of 24 hours. The 24-hour sampling duration was selected to achieve laboratory reporting limits that were lower than the most stringent of USEPA's risk-based exposure levels for evaluating PCBs in school indoor air (0.100 micrograms per cubic meter [µg/m³] for most PCBs). The PUF cartridges sorb target analytes from air that is pumped through them. Each PUF sample cartridge was positioned on a tripod set approximately 1-2 meters above floor level with the intake pointed downward or horizontally. Pumps were placed on flat surfaces that were covered in plastic sheeting and connected to a PUF sampling cartridge with clean tubing. Air sample designations were generated as (A [for air sample] – unique sample identifier [01 through 15] – room # date [MMDDYY]). After collection, samples were shipped on ice under chain-of-custody protocol to EMSL Analytical, Inc. (EMSL) of Cinnaminson, NJ to be extracted by United Stated Environmental Protection Agency (USEPA) Method TO-10A and analyzed for PCB Aroclors by USEPA Method TO-10A.

2.2. Surface Wipe Sampling Methods

Geosyntec collected surface wipe samples on December 20 and 21, 2023 from select locations within Poe Hall. The sampling set included 67 wipe samples (including 3 duplicates) and one field blank. Sampling locations were selected to include samples from a variety of smooth and impervious surfaces, surfaces more likely to be touched frequently and those likely to be touched less frequently. Samples were collected throughout the seven building floors, various room uses, and HVAC circulation zones. Surface types included desktops, tabletops, books, bookshelves, storage shelves, bathroom sink counters, container lids, air supply vents, elevator buttons, and



miscellaneous equipment such as a microwave, printer, tampon dispenser, chemical mixing dispenser, metal box and a cardboard box.

Sampling locations were distributed across the 7 floors and across the four HVAC circulation zones. Samples were also collected from a representative subset of rooms grouped into categories by use (office, classroom, laboratory, maintenance/utility, and bathrooms), location (perimeter with windows or interior), and frequency of touch for surfaces (high frequency like desktops and lower frequency like bookshelves). The sampling effort included collecting surface wipe samples in each of the following 28 rooms to support NCSU's expressed need to facilitate critical system maintenance, emergency preparedness and inspection requirements: Rooms 101, 120, 127, 130, three elevators (197, 198, 199), two penthouse rooms on the roof associated with elevators, bathrooms (12) and one janitorial closet per floor (7) with water service.

Surface wipe samples were obtained by wiping a laboratory-supplied gauze pad that was field saturated with a mixture of one quarter acetone and three quarters hexane across a 10 cm x 10 cm area (100 cm²) on each surface. A 100 cm² template supplied by the laboratory was used to establish the sample surface. After wiping a surface, each wipe was folded with the wiped surface facing inward and placed into a capped sample vial with a Teflon-lined lid. The templates and gloves used were disposed into municipal trash after each sample. Wipe sample designations were generated as (W [for wipe sample] – unique sample identifier [001 through 067] – room # - date [MMDDYYYY]). Samples were shipped on ice under chain-of-custody to EMSL to be prepared by method 3540C and analyzed for PCB Aroclors by USEPA Method SW846-8082A.



3. RESULTS

Results of indoor air and surface wipe sampling for PCBs collected in Poe Hall in December 2023 are summarized below. The laboratory (EMSL) reported results for the 9 common PCB Aroclors (Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, and Aroclor-1268). Geosyntec checked each laboratory sample data group using a level 1 data quality checklist.

The preliminary sampling summarized in this report is intended to assess the present state of Poe Hall: (i) Poe Hall's HVAC systems were turned off in November 2023 and have remained off; (ii) since November 2023, occupation has been restricted to essential personnel; and (iii) bathroom exhaust fans were operating. On December 20-22, weather conditions were cloudy with temperatures that ranged from 40-60 degrees Fahrenheit (°F), winds were 5 to 6 miles per hour, and no precipitation.

3.1. Air Sampling Results

Eleven indoor air samples and one outdoor air sample were collected on December 21^{st} , and one indoor air sample was collected on December 22^{nd} . Two indoor air samples (Room 216 and Room 742) had sampling periods that spanned December 21 and 22^{nd} because the pumps used to draw air through the samplers stopped pumping overnight several hours after beginning. Geosyntec accessed the electronic log in each pump that recorded the start and stop times and used the logs to restart both pumps on the 22^{nd} to run for the balance of hours needed to complete a 24-hour sample time for each. A summary of laboratory data is presented in **Table 1**. Aroclor-1262 was detected in each indoor air sample (concentrations ranged from 0.0131- $0.121 \mu g/m^3$) and was not detected in the outdoor air sample. No other Aroclors were detected in air samples. Laboratory reports are included in **Appendix A1**, and air sampling field forms are included in **Appendix A2**.

Indoor air sampling results were compared to the USEPA exposure levels for evaluating PCBs in school indoor air for adults and children ages three (3) years and older. For these exposure levels, USEPA made certain assumptions about the amount of time spent in school, stating "EPA estimated exposure to PCBs in schools using established values for the number of days per year and the number of hours per day children and adults spend



at school. Depending upon age, these values were 180 to 185 days per year, and 6.5 to 8 hours per day at school."

USEPA has provided the following guidance in interpreting its "exposure levels for evaluating PCBs in indoor school air:"

After the implementation of the recommended BMPs or conducting other actions to reduce exposure, these exposure levels may be used to guide thoughtful evaluation of indoor air quality in schools. These exposure levels should not be interpreted nor applied as 'bright line' or 'not-to-exceed' criteria. Isolated or infrequent indoor air PCB measurements that exceed the exposure levels would not necessarily signal unsafe exposure to PCBs. When measured indoor school air PCB concentrations are above these exposure levels, the EPA suggests that school building administrators take further steps to reduce PCB exposure such as reviewing, reevaluating and adjusting BMPs or taking other actions to identify and address PCB sources.²

All air results were below the exposure level for adults over the age of 19 years (0.500 $\mu g/m^3$), and all results were also below the exposure levels for children ages 3-19 years (0.200-0.600 $\mu g/m^3$). As described by USEPA, these exposure levels are not intended to be "bright line" or "not-to-exceed" criteria and are intended to maintain PCB exposures below the oral reference dose (RfD) of 20 nanograms of PCBs per kg of body weight per day, which is a daily exposure that is unlikely to pose a significant risk of harm over a lifetime of exposure.³

3.2. Surface Wipe Sampling Results

Wipe samples for surficial dust were collected on December 20^{th} and 21^{st} . PCBs were not detected in almost two-thirds of wipe samples collected. The laboratory reported Aroclor-1262, the only analyte detected, in 25 out of 67 surface wipe samples at concentrations that ranged from $0.529~\mu g/100~cm^2$ to $74.6~\mu g/100~cm^2$. Results are summarized in **Table 2**. Laboratory reports are included in **Appendix B1**.

Where detected, all but one measured PCB concentration in surface wipe samples were below the USEPA threshold for non-porous surfaces in high occupancy areas ($10 \mu g/100 \text{ cm}^2$). Surface wipe sample W-025-300D-12212023, collected from a windowsill in

¹ EPA, PCBs in Building Materials—Questions & Answers, July 28, 2015.

² EPA, PCBs in Building Materials—Questions & Answers, July 28, 2015.

³ Exposure Levels for Evaluating Polychlorinated Biphenyls (PCBs) in Indoor School Air | US EPA



Room 300D, had a concentration of 74.6 μ g/100 cm². This USEPA threshold applies to PCB cleanup standards for the unrestricted use of non-porous surfaces previously contaminated by spills of liquid PCBs.⁴ Laboratory reporting limits for surficial wipe samples (0.500 μ g/100 cm²) were all well below the USEPA threshold for non-porous surfaces (10 μ g/100 cm²). As summarized in **Table 3**, windowsills had both the highest frequency of detection (100%) and generally the highest concentrations, ranging from 0.573-74.6 μ g/100 cm². Higher detection frequencies were also observed for desks, elevator buttons, product dispensers, and air supply vents. Lower detection frequencies were observed for other surface types including tables, shelves, bathroom counters, books, container lids, a microwave, a printer and a cardboard box.

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⁴ <u>eCFR: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions</u>



4. DISCUSSION

PCB Aroclor-1262 was reported in surficial dust and indoor air samples collected on each floor and in rooms in Poe Hall at concentrations that were generally very low and almost entirely below USEPA exposure levels and thresholds. Nearly two-thirds of surficial dust samples had undetectable concentrations of PCBs at reporting limits well below the USEPA threshold, with only one detected result exceeding the threshold. For each of the 14 indoor air samples collected, all results were below USEPA exposure levels for evaluating PCBs in school indoor air for adults and children ages three (3) years and older.

Some spatial trends were observed in the air data and in the surface wipe sampling data for PCBs in surficial dust. Concentrations, while low overall, were generally higher on floors 3 through 7 (average concentration of approximately 0.06 µg/m³) than on floors 1 and 2 (average concentration of approximately 0.03 µg/m³). This pattern is consistent with the division of HVAC circulation zones in Poe Hall, where floors 1 and 2 are serviced by two ground-mounted air handling units, and floors 3 through 7 are serviced by four roof-mounted air handling units. Air handling units are likely mechanisms for distributing dust in the building. Notably, PCBs were not detected in the outdoor air sample which suggests that outdoor air is not the source of PCBs indoors. Higher detection frequencies (generally greater than or equal to 50%) were observed for windowsills, desks, elevator buttons, product dispensers, and air supply vents, and lower frequencies for other surface types including tables, shelves, bathroom counters, books, container lids, a microwave, a printer and a cardboard box.

Observations from this first phase of investigation about the concentrations, dominance of a single Aroclor and spatial distributions of detections may be helpful in updating the preliminary CSM and guiding further investigation to identify potential sources of PCBs to dust indoors, and to identify the modes of transport and distribution of PCBs on dust in Poe Hall.



5. **RECOMMENDATIONS**

Based on the results of this first phase of investigation presented herein, Geosyntec recommends the following additional steps and investigation activities, focused on developing a better understanding of PCB fate and transport within Poe Hall:

- 1. Review historical documents and inspect HVAC system components to identify candidate building materials that may contain PCBs (potential sources). Collect and analyze bulk samples of potential sources, focused on potential sources that are present in systems that can distribute dust in the building, most notably the components of HVAC systems. Potential sources may have been originally manufactured with PCBs or have been in contact with materials that were.
- 2. Revise the preliminary conceptual site model using:
 - o information gleaned from historical documents and from the HVAC systems inspection,
 - o surficial wipe, bulk and air sample data previously collected by NCSU,
 - o surficial wipe and air sample data described in this report, and
 - o bulk data collected during system inspections.
- 3. Use the revised conceptual site model to identify potential data gaps in our understanding of sources of Aroclor-1262 to dust, and potential transport mode(s) for distributing dust in Poe Hall. Prioritize the data gaps for further investigation.
- 4. After bulk sampling and data evaluation are conducted, return the HVAC systems to service and conduct follow-up indoor air and surficial wipe sampling to reevaluate conditions in the building, with respect to air and surficial dust, while the HVAC systems are operating. Note that before returning HVAC systems to service, additional interim steps may be appropriate based on the results of bulk sampling, including replacing or encapsulating portions of mechanical systems, cleaning and follow-up bulk sampling.
- 5. Review relevant toxicological and epidemiological scientific studies on PCBs to support a current understanding of the potential human health effects associated with exposure, including an evaluation of the strength and consistency of such associations with the relative magnitude of exposures.

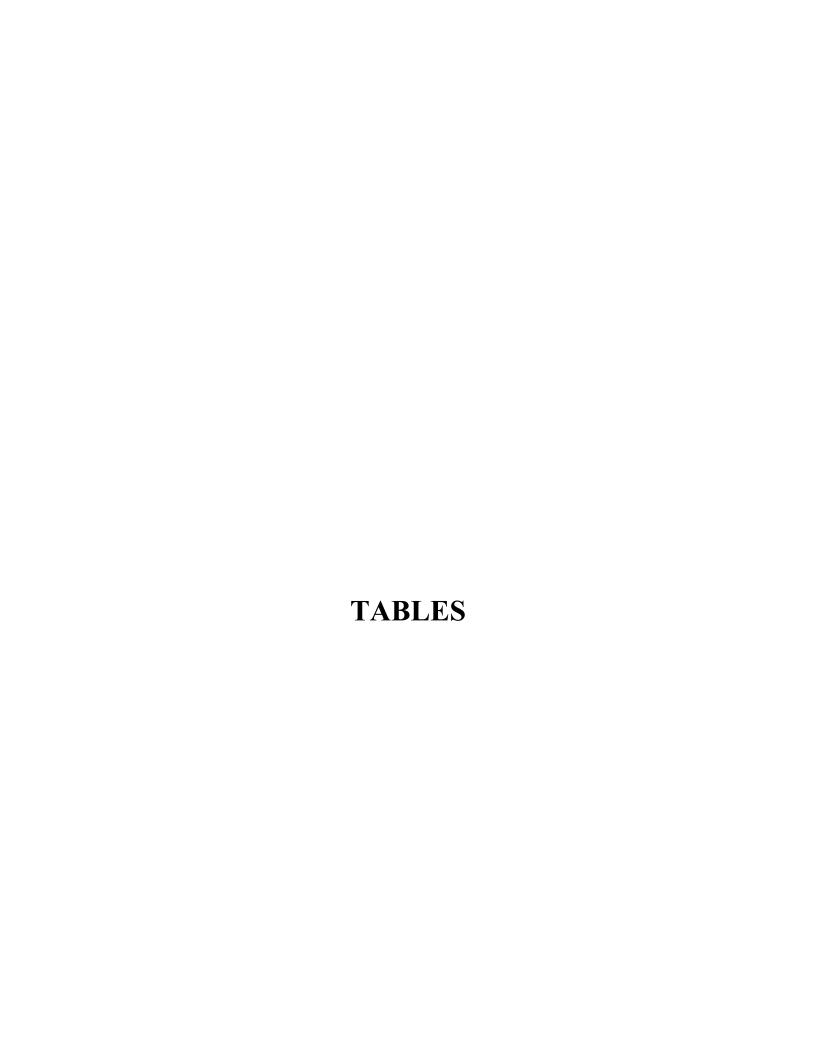


Table 1 – Summary of Detected PCB Aroclors in Indoor Air Samples Indoor Environmental Investigation Report – Initial Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room Number	Room Type	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 concentration (µg/m³)	Aroclor-1262 Concentration (μg/m³)	Oncentration (μg/m³) Age: 1 - Age: 2 - Age: 3 - Age: 6 - Age: 12 - Age						
	2	A-13-106-122123	106	Labanatanı	< RL	0.0193	0.100	0.100	0.200	0.300	0.500	<19 yr 0.600	>19 yr 0.500
1st	2 2	DUP-01-122123	106 (dup)	Laboratory Laboratory	< RL	0.0193	0.100	0.100	0.200	0.300	0.500	0.600	0.500
151	1	A-15-117-122223	100 (dup) 117	Laboratory	< RL	0.0436	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	1	A-11-209-122123	209	Classroom	< RL	0.0341	0.100	0.100	0.200	0.300	0.500	0.600	0.500
2nd	2	A-12-228-122123	228	Classroom	< RL	0.0250	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	5+6	A-01-216-122223	216	Auditorium	< RL	0.0704	0.100	0.100	0.200	0.300	0.500	0.600	0.500
3rd	3+4	A-02-317F-122123	317F	Office	< RL	0.0285	0.100	0.100	0.200	0.300	0.500	0.600	0.500
4.1	3+4	A-10-400-122123	400	Classroom	< RL	0.0457	0.100	0.100	0.200	0.300	0.500	0.600	0.500
4th	5+6	A-09-402G-122123	402G	Office	< RL	0.0384	0.100	0.100	0.200	0.300	0.500	0.600	0.500
5th	5+6	A-07-510E-122123	510E	Office	< RL	0.0794	0.100	0.100	0.200	0.300	0.500	0.600	0.500
Jui	3+4	A-08-526-122123	526	Bathroom	< RL	0.0451	0.100	0.100	0.200	0.300	0.500	0.600	0.500
6th	5+6	A-05-608J-122123	608J	Office	< RL	0.121	0.100	0.100	0.200	0.300	0.500	0.600	0.500
oui	3+4	A-06-635-122123	635	Laboratory	< RL	0.0333	0.100	0.100	0.200	0.300	0.500	0.600	0.500
7th	5+6	A-04-714B-122123	714B	Office	< RL	0.108	0.100	0.100	0.200	0.300	0.500	0.600	0.500
1	3+4	A-03-742-122223	742	Laboratory	< RL	0.0677	0.100	0.100	0.200	0.300	0.500	0.600	0.500
Roof	N/A	A-14-ROOF-122123	N/A	Outdoor air	< RL	< RL	0.100	0.100	0.200	0.300	0.500	0.600	0.500

¹Exposure Levels for Evaluating Polychlorinated Biphenyls (PCBs) in Indoor School Air | US EPA

Notes:

Sample ID nomenclature: Air Sample-Sample Number-Sample Room Number-Sample Date (A-##-###-mmddyy)

HVAC: heating, ventilation and air conditioning

 $\mu g/m^3 = micrograms \; per \; cubic \; meter$

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) ranges from 0.00691 to 0.00716 $\mu g/m^3.$

< RL: analyte was not detected at or above the reporting limit.

Exposure levels are rounded to the nearest $0.1\ \mathrm{micrograms}$ per cubic meter.

Table 2 – Summary of Detected PCB Aroclors in Surface Wipe Samples Indoor Environmental Investigation Report – Initial Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room #	Room Type	Surface Wiped	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1254, Aroclor-1260, Aroclor-1268 Concentration (μg/100 cm²)	Aroclor-1262 (μg/ 100 cm ²)	US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (µg/100 cm²)¹
		W-068-100-12212023	100	Maintenance/ utility	Desk	< RL	1.95	10
	2	W-002-101-12212023	101	Maintenance/ utility	Lid	< RL	< RL	10
		W-003-102A-12212023	102A	Laboratory	Desk	< RL	< RL	10
		W-004-103-12212023	103B	Laboratory	Vent	< RL	< RL	10
		W-014-103B-12212023	103	Laboratory	Desk	< RL	7.4	10
		W-067-116-12212023	116	Maintenance/ utility	Desk	< RL	1.12	10
	1	W-006-117-12212023	117	Laboratory	Table	< RL	< RL	10
		W-005-117-12212023	117	Laboratory (dup)	Table	< RL	< RL	10
1st		W-007-120-12212023	120	Classroom	Desk	< RL	< RL	10
		W-008-125-12212023		Maintenance/ utility	Lid	< RL	< RL	10
	2	W-009-127-12212023	127	Maintenance/ utility	Metal Box	< RL	< RL	10
		W-010-130-12212023	130	Maintenance/ utility	Table	< RL	< RL	10
	N/A	W-011-197-12212023	197	Elevator	Elevator buttons	< RL	< RL	10
	N/A	W-012-198-12212023	198	Elevator	Elevator buttons	< RL	0.592	10
	N/A	W-013-199-12212023	199	Elevator	Elevator buttons	< RL	0.573	10
		W-015-201-12212023	201	Bathroom	Shelf	< RL	< RL	10
		W-017-202-12212023	202	Classroom	Table	< RL	< RL	10
	2	W-016-202-12212023	202	Classroom (dup)	Table	< RL	< RL	10
		W-018-208Q-12212023	208Q	Office	Desk	< RL	< RL	10
2nd		W-019-210-12212023	210	Classroom	Desk	< RL	< RL	10
	1	W-020-213-12212023	213	Bathroom	Counter	< RL	0.673	10
	1	W-014-218-12212023	218	Classroom	Desk	< RL	0.644	10
		W-022-220-12212023	220	Classroom	Vent	< RL	9.49	10
	2	W-023-222-12212023	222	Maintenance/ utility	Product dispenser	< RL	0.733	10

¹eCFR :: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use <u>Prohibitions</u>

Notes:

Sample ID nomenclature: Wipe Sample-Sample Number-Sample Room Number-Sample Date (W-##-###-mmddyyyy)

HVAC: heating, ventilation and air conditioning

 $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) = $0.500 \mu g/100 \text{ cm}^2$.

< RL: analyte was not detected at or above the reporting limit

Table 2 – Summary of Detected PCB Aroclors in Surface Wipe Samples Indoor Environmental Investigation Report – Initial Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room #	Room Type	Surface Wiped	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 Concentration (µg/100 cm²)	Aroclor-1262 (μg/ 100 cm ²)	US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (µg/100 cm²)¹
		W-021-216-12212023	216	Classroom	Desk	< RL	< RL	10
	5+6	W-025-300D-12212023	300D	Office	Window Sill	< RL	74.6	10
	310	W-026-309-12212023	309	Bathroom	Shelf	< RL	< RL	10
		W-024-310L-12212023	310L	Office	Vent	< RL	1.87	10
	3rd 3+4	W-028-312-12212023	312	Classroom	Table	< RL	0.529	10
3rd		W-027-312-12212023		Classroom (dup)	Table	< RL	< RL	10
		W-029-313-12212023	313	Maintenance/ utility	Shelf	< RL	0.763	10
		W-030-325-12212023	325	Bathroom	Counter	< RL	< RL	10
		W-031-326S-12212023	326S	Office	Shelf	< RL	< RL	10
		W-033-400-12202023	400	Classroom	Desk	< RL	1.57	10
	5+6	W-034-402G-12202023	402G	Office	Window Sill	< RL	7.75	10
	310	W-035-406-12202023	406	Bathroom	Counter	< RL	< RL	10
		W-036-412G-12202023	412G	Office	Microwave	< RL	< RL	10
4th		W-037-413-12202023	413	Maintenance/ utility	Shelf	< RL	1.43	10
	3+4	W-038-414A-12202023	414A	Classroom	Counter	< RL	< RL	10
		W-039-419-12202023	419	Bathroom	Shelf	< RL	3.1	10
		W-040-424-12202023	424	Classroom	Desk	< RL	0.766	10
		W-041-500-12202023	500	Classroom	Window Sill	< RL	4.5	10
	5+6	W-042-509-12202023	509	Bathroom	Counter	< RL	< RL	10
		W-043-510E-12202023	510E	Office	Shelf	< RL	< RL	10
5th		W-044-514-12202023	514	Maintenance/ utility	Product dispenser	< RL	1.62	10
	3+4	W-045-518-12202023	518	Office	Printer	< RL	< RL	10
	J 1 T	W-046-526-12202023	526	Bathroom	Shelf	< RL	< RL	10
		W-048-529-12202023	529	Classroom	Vent	< RL	< RL	10
Loren		W-047-532-12202023	532	Classroom	Table	< RL	< RL	10

¹eCFR :: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use <u>Prohibitions</u>

Notes:

 $Sample\ ID\ nomenclature:\ Wipe\ Sample\ Sample\ Number\ -Sample\ Room\ Number\ -Sample\ Date\ (W-\#\#-\#\#\#-mmddyyyy)$

HVAC: heating, ventilation and air conditioning $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$ US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) = $0.500 \mu g/100 \text{ cm}^2$.

< RL: analyte was not detected at or above the reporting limit

Table 2 – Summary of Detected PCB Aroclors in Surface Wipe Samples Indoor Environmental Investigation Report – Initial Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room #	Room Type	Surface Wiped	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor 1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 Concentration (µg/100 cm²)	Aroclor-1262 (μg/ 100 cm ²)	US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (µg/100 cm²)¹
	3+4	W-049-604-12202023	604	Laboratory	Table	< RL	< RL	10
		W-050-605-12202023	605	Laboratory	Shelf	< RL	< RL	10
	5+6	W-051-607-12202023	607	Bathroom	Counter	< RL	< RL	10
6th		W-052-608P-12202023	608P	Office	Desk	< RL	2.00	10
our	3+4	W-053-613-12202023	613	Maintenance/ utility	Cardboard box	< RL	< RL	10
	314	W-054-616A-12202023	616A	Office	Window Sill	< RL	1.91	10
		W-055-630-12202023	630	Bathroom	Counter	< RL	< RL	10
		W-056-700-12202023	700	Laboratory	Shelf	< RL	< RL	10
	5+6	W-057-719-12202023	719	Bathroom	Counter	< RL	< RL	10
		W-058-729-12202023	729	Office	Book	< RL	< RL	10
7th		W-059-734-12202023	734	Maintenance/ utility	Shelf	< RL	< RL	10
	3+4	W-060-742-12202023	742	Laboratory	Window Sill	< RL	0.573	10
	314	W-061-744-12202023	744	Bathroom	Product dispenser	< RL	< RL	10
		W-062-761-12202023	761	Office	Desk	< RL	< RL	10
Roof	N/A	W-063-P1000A-12212023	P1000A	Maintenance/ utility	Desk	< RL	< RL	10
Kooi	N/A	W-064-P1001A-12212023	P1001A	Maintenance/ utility	Book	< RL	< RL	10
Roof	5+6	W-066-P1003-12212023	P1003	Maintenance/ utility	Book	< RL	7.88	10
Kooi	3+4	W-065-P1004-12212023	P1004	Maintenance/ utility	Metal Box	< RL	2.87	10

¹eCFR :: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use <u>Prohibitions</u>

Notes:

Sample ID nomenclature: Wipe Sample-Sample Number-Sample Room Number-Sample Date (W-##-###-mmddyyyy)

HVAC: heating, ventilation and air conditioning $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$ US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) = $0.500 \mu g/100 \text{ cm}^2$.

< RL: analyte was not detected at or above the reporting limit

Table 3 – Summary of Aroclor-1262 Detection Frequency by Surface Type Indoor Environmental Investigation Report – Initial Phase Poe Hall, NCSU - Raleigh, NC

Surface Type	Number of Samples	Number of Aroclor-1262 Detections	Detection Frequency (%)	Aroclor-1262 Concentration (μg/100 cm ²)	Number of Exceedances of the US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (10 µg/100 cm²)¹
Book	3	1	33%	7.88	0
Cardboard box	1	0	0%	< RL	0
Counter	8	1	13%	0.673	0
Desk	14	7	50%	0.644; 0.766; 1.12; 1.57; 2.00; 1.95; 7.4	0
Elevator buttons	3	2	67%	0.573; 0.592	0
Lid	2	0	0%	< RL	0
Metal Box	2	1	50%	2.87	0
Microwave	1	0	0%	< RL	0
Printer	1	0	0%	< RL	0
Product dispenser	3	2	67%	0.733; 1.62	0
Shelf	11	3	27%	0.763; 1.43; 3.1	0
Table	9	1	11%	0.529	0
Vent	4	2	50%	1.87; 9.49	0
Window sill	5	5	100%	0.573; 1.91; 4.5; 7.75; 74.6	1
All surfaces (total)	67	25	37%	see Table 2	1

¹Exposure Levels for Evaluating Polychlorinated Biphenyls (PCBs) in Indoor School Air | US EPA

Notes:

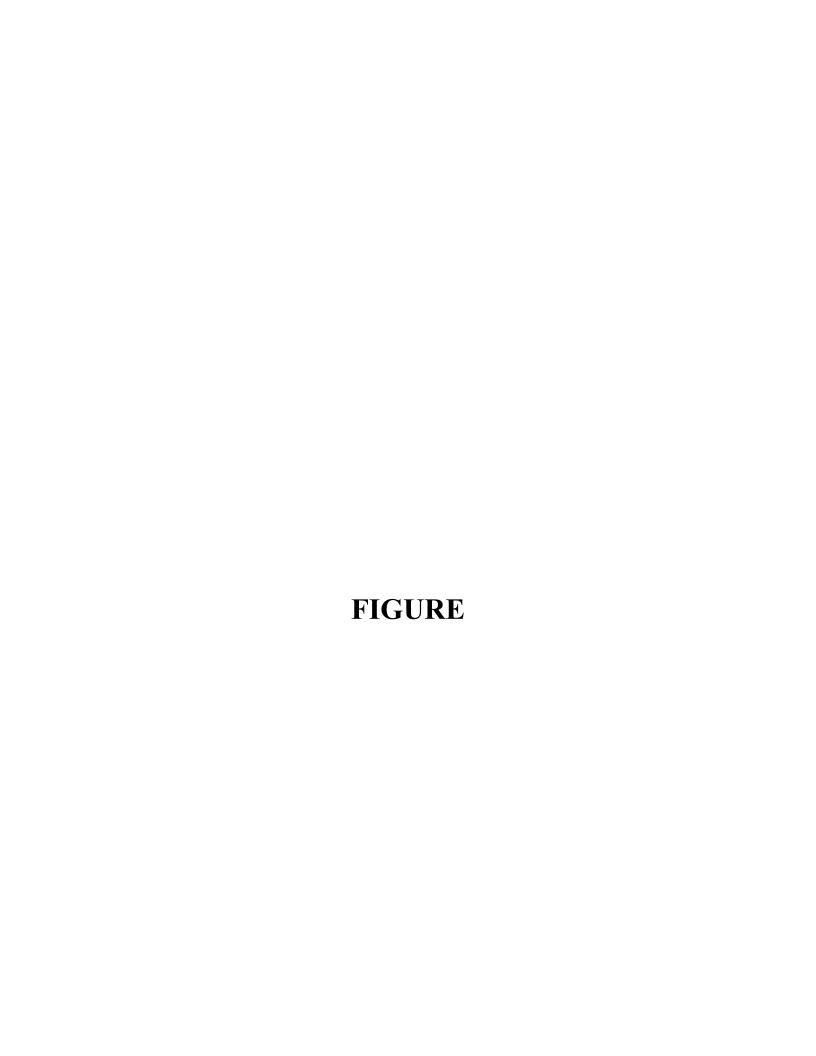
 $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$

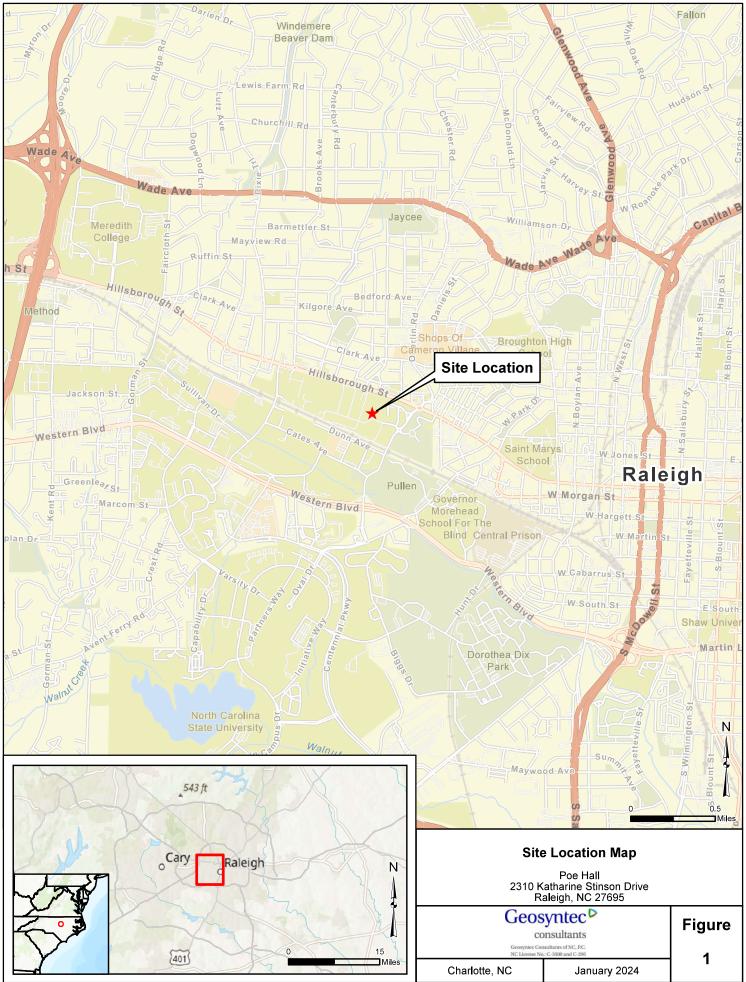
% = percentage

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

< RL: analyte was not detected at or above the reporting limit.





APPENDIX A1 AIR SAMPLING LAB REPORT

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01 EMSL Order ID: 012367731 LIMS Reference ID: AB67731 EMSL Customer ID: GSCH75

January 09, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/22/2023. The results are tabulated on the attached pages for the following client designated project:

n/a

The reference number for these samples is EMSL Order #: <u>AB67731</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

G MM \$

Owen McKenna Laboratory Manager or other approved signatory

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200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Condition on Receipt

Cooler ID: Default Cooler Temperature: 2.6 °C

Custody Seals Y

Containers Intact Y

COC/Labels Agree Y

Preservation Confirmed Y



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

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n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

Project Name:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67731-01	DUP-01-122123	Tubes	12/21/2023	12/22/2023
AB67731-02	A-13-106-122123	Tubes	12/21/2023	12/22/2023
AB67731-03	A-12-228-122123	Tubes	12/21/2023	12/22/2023
AB67731-04	A-11-209-122123	Tubes	12/21/2023	12/22/2023
AB67731-05	A-02-317F-122123	Tubes	12/21/2023	12/22/2023
AB67731-06	A-09-402G-122123	Tubes	12/21/2023	12/22/2023
AB67731-07	A-10-400-122123	Tubes	12/21/2023	12/22/2023
AB67731-08	A-07-510E-122123	Tubes	12/21/2023	12/22/2023
AB67731-09	A-08-526-122123	Tubes	12/21/2023	12/22/2023
AB67731-10	A-05-608J-122123	Tubes	12/21/2023	12/22/2023
AB67731-11	A-06-635-122123	Tubes	12/21/2023	12/22/2023
AB67731-12	A-04-714B-122123	Tubes	12/21/2023	12/22/2023
AB67731-13	A-14-ROOF-122123	Tubes	12/21/2023	12/22/2023

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(704) 227-0850

jahrens@geosyntec.com

Project Name: n/a

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67731-01	DUP-01-122123				12/21/23 12:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0131		μg/m³	12/29/2023 15:38
Lab ID	Client ID				Sampled
AB67731-02	A-13-106-122123				12/21/23 14:40
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0193		μg/m³	12/29/2023 15:55
Lab ID	Client ID				Sampled
AB67731-03	A-12-228-122123				12/21/23 14:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0250		μg/m³	12/29/2023 16:11
Lab ID	Client ID				Sampled
AB67731-04	A-11-209-122123				12/21/23 13:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0341		μg/m³	12/29/2023 16:27
Lab ID	Client ID				Sampled
AB67731-05	A-02-317F-122123				12/21/23 10:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0285		μg/m³	12/29/2023 16:43
Lab ID	Client ID				Sampled
AB67731-06	A-09-402G-122123				12/21/23 13:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0384		μg/m³	12/29/2023 16:59
Lab ID	Client ID				Sampled
AB67731-07	A-10-400-122123				12/21/23 13:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0457		μg/m³	12/29/2023 17:15



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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(704) 227-0850 jahrens@geosyntec.com Project Name: n/a

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67731-08	A-07-510E-122123				12/21/23 11:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0794		μg/m³	12/29/2023 17:31
Lab ID	Client ID				Sampled
AB67731-09	A-08-526-122123				12/21/23 12:09
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0451		μg/m³	12/29/2023 17:48
Lab ID	Client ID				Sampled
AB67731-10	A-05-608J-122123				12/21/23 11:14
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.121		μg/m³	12/29/2023 18:04
Lab ID	Client ID				Sampled
AB67731-11	A-06-635-122123				12/21/23 11:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0333		μg/m³	12/29/2023 18:36
Lab ID	Client ID				Sampled
AB67731-12	A-04-714B-122123				12/21/23 10:54
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.108		μg/m³	12/29/2023 18:52



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EMSL-CIN-01

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jahrens@geosyntec.com

Project Name:

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 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Results

Sample: DUP-01-122123 AB67731-01 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00695	µg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00695	µg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00695	µg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0131		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00695	µg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	84%			60-120		12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	102%			60-120		12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-13-106-122123 AB67731-02 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0193		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	93%			60-120		12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	117%			60-120		12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A



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EMSL-CIN-01

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Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results
(Continued)

Sample: A-12-228-122123 AB67731-03 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0250		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	90%			60-120		12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	115%			60-120		12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A



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Charlotte, NC 28203-4168

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jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-11-209-122123 AB67731-04 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0341		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	105%			60-120		12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	122%	R1		60-120		12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-02-317F-122123 AB67731-05 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0285		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	94%			60-120		12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	112%			60-120		12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A



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EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-09-402G-122123 AB67731-06 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0384		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	95%			60-120		12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	113%			60-120		12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A



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EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-10-400-122123 AB67731-07 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0457		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	92%			60-120		12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	112%			60-120		12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A



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EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-07-510E-122123 AB67731-08 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0794		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	106%			60-120		12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	124%	R1		60-120		12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A



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EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results
(Continued)

Sample: A-08-526-122123 AB67731-09 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0451		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	104%			60-120		12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	128%	R1		60-120		12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A



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Project Name:

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EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-05-608J-122123 AB67731-10 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.121		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	115%			60-120		12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	138%	R1		60-120		12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A



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Project Name:

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EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-06-635-122123 AB67731-11 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0333		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	100%			60-120		12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	122%	R1		60-120		12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A



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EMSL-CIN-01

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Project Name:

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EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-04-714B-122123 AB67731-12 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.108		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	106%			60-120		12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	128%	R1		60-120		12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-14-ROOF-122123 AB67731-13 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	104%			60-120		12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	127%	R1		60-120		12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

n/a

Customer PO:

Emily Stressman **EMSL Sales Rep:** Received: 12/22/2023 10:20

Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10A									
Blank (BBL0915-BLK1)			Prei	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³		,	,,	-		
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		88	60-120		
Surrogate: Decachlorobiphenyl				100.0		113	60-120		
Blank (BBL0915-BLK2)			Prep	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³						
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		101	60-120		
Surrogate: Decachlorobiphenyl				100.0		125	60-120		
LCS (BBL0915-BS1)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	1000	50.0	μg/m³	1000		100	70-130		
Aroclor-1260	1090	50.0	μg/m³	1000		109	70-130		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		99	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/22/2023 10:20 Reported:

01/09/2024 16:07

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-1	OA (Continued)								
LCS Dup (BBL0915-BSD1)			Pre	pared: 12/28	/2023 Analyze	ed: 12/29/20	023		
Aroclor-1016	1030	50.0	μg/m³	1000		103	70-130	3	25
Aroclor-1260	1050	50.0	μg/m³	1000		105	70-130	4	25
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		96	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

n/a

Customer PO:

EMSL Sales Rep: **Emily Stressman** Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Certified Analyses included in this Report

CAS #	Certifications
12674-11-2	NJDEP
11104-28-2	NJDEP
11141-16-5	NJDEP
53469-21-9	NJDEP
12672-29-6	NJDEP
11097-69-1	NJDEP
11096-82-5	NJDEP
37324-23-5	NJDEP
11100-14-4	NJDEP
	12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

n/a

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Notes and Definitions

Item	Definition
R1	Recovery is outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

			Special Ins	tructions and/or l	Regulatory Requiremen	nts (Sample	Specificati	ons, Proce	ssing Metho	ods, Limits	of Detection	n, etc.)		
				Matrix	Preservative	Lis	Test(s) I	Needed (Write in te	st below,	then chec	k on sam	ple line:)	
	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	method To 10x	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
1-02-317F-122123			12/21/23	A	none	X								Sturt 12/20/2 1032 Sturt 12/20/2
1-09-4026-124	3	Ш	1300	A	none	X								1300 Start 12/2012
1-10-400-122123			12/21/23	A	none	X								MY22 13
-07-510E-122123			12/21/23	A	none	X								start 12/20/2
1-08-526-122123	_		12/21/25	A	none	K								1150 stort 12/20/2
-05-6083-12428			12/21/23	A	none	X								1205 Start 12/20/2
-06-635-122123			12/21/23	A	none	K								1114) Sturt (2/20/2
-04-7148-122123	_		12/21/23	A	none	X								1122 Start 12/20/2
lethod of Shipment:	et					- 4	Sample C	ondition Up	on Receipt					
elinquished by:	7.	. 4.	Ter	Date/Time:	3 1800)	Received	by:					Date	e/Time
elinquished by:	110		, 01	12 2 2 Date/Time:	- (800	and the same of	Received	by:					Date	h/Time

23

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MININGON, 1110. 200 Rt. 130 N

Cinnaminson, NJ 08077

Customer ID: Company Name:							ABI	0773	1						ONE: (800) 220		
Company Name					17	Billin								E	MAIL: EnvChem	istry2@	EMSL.cor
o company Name: (red)	Inte	C Con	attive	14		Com	pany Name:	>0	Me	- 0	77						
Company Name: Geost Contact Name: Sef Street Address: 300 City, State, Zip: Charles Phone: 704-72	7 8	threns	, 30 , 100		Information	Billin	g Contact:										
Street Address: \ \ < 0	<	mint	()	+		Stree	et Address:										
City, State, Zip:	1 + 4	e, NC	20227	Country:	- 2	City	State, Zip:								To		
Phone: 7041-	27.1	TNC	2005		Billing	Phon				160					Country:		
Empil(a) for Denote		_			- "												
Jar	165	ns(Ogeos	yntec.	COM		Emai	l(s) for Invoi	ce:			1						
Project Same/No:											Pu	urchase	e Order:				
EMSL LIMS Project ID: (If applicable, EMSL will provide)					US	State v	where			State o	Connecticu	t (CT)	must select	project Ic	cation:		
10 10 10					sai	nples c	ollected:	JC					(Taxable)		Residential (Nor	n-Taxat	ble)
Samples for Compliance? Yes	No	If Yes,		- No	ther Specify					PWS					State Reporti	ng Req	quired?
Samples Collected by (Check One):				Samples Regerved Chi	30		_			ID:					Yes	1	No
Sampled By Name:		EMSL	CLIENT	//	neu :		Yes	1	10		le(s) Tempe eceipt (LAE						
John	To	ofter	Sampled By Sig	nature: (pull											No. of Samples in Shipment:		
Turn-Around-Time (TAT)		lard Turn-Around	I-Time:	2 Weeks	e follow	ing TAT'	s are subject TAT before s	to Lab app	roval.	Г	1 Week		4 Days	3 Days			1 Day
			Matrix	Preservative	1	_ist Te	st(s) Need	ed (Writ	e in te:	st belov	v, then chec	k on s	sample line	:)			
Client Sample ID	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	1010A	Test 2:	Test 3:	Test 4:		0 200	Test 6:	Test 7:	Test 8:		Comn	nents	
561661-10-90		12/21/23	A	none	X							$\dagger r$	$\neg \vdash$				2/25/
1-13-106-122123		1440	.A	none	X			+++	\dashv	\vdash	+H	+			Start to	1201	23
1-12-228-122123		121/23	A		X	-	+ + -	+		\vdash	-	╁			1420 Start 13	>	
541441-805-11-1	╢┤	14110	A	none	1	-	+	+++	\dashv	\vdash		\bot			13	50	
1-11-6-1		Special Instr	, ,	none										5	Jack 151	40	2 >
		opeoidi iiioti	detions and/or 10	egulatory Requirements (sampie	Specifi	ications, Pro	cessing I	/lethods	s, Limits	of Detection	1, etc.)					
	1279																
FX# 7884 1860 Reporting Requirements:	0279		its Only	Results and QC		Re	duced Deliv	erables	1	H	zresults EDD)	Exc	cel	Other (Describ	e Above
Reporting Requirements:		Resul	its Only	Results and QC			duced Deliv		ceipt:	H:	zresults EDD)	Exc	cel	Other (I	Describ	e Above
Reporting Requirements:		Resul	Date/Time:			Sample			ceipt:	Н	zresults EDD)	Exe	cel	mel		
FX# 7884 1860	(Resul				Sample	e Condition		ceipt:) H:	zresults EDD)	Exc	Date/Ti	mel	Describe	

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL Mary war, mo. 200 Rt. 130 N

Cinnaminson, NJ 08077

_								11/2 C/O.10/20 1/20 1/20 1/20 1/20 1/20 1/20 1/20		<u> </u>					Ollinia	1111110011	, 110 00011			
EMSL ANALYTICAL, INC.								-	ABLE-	1731							ONE: (800) 220-3675 #AIL: EnvChemistry2@EMSL.co			
Customer ID:			+			10	Billing	-	300	1.01						EMAIL	: EnvCher	nistry2(@EMSL.com	
Company Name:	5111	4	Consold	Cate			Compa	any Name:	/		1977									
Company Name: Contact Name: Street Address: City, State, Zip: Phone:	Cli	1/200	Consult	unia		Information	Billing	Contact:	Ame	3										
Street Address: 136		CIT	MINT &	1 0	200	or m	Street Address:									-				
City, State, Zip:	0 ,	11-	MINI 8.	1. 20.	300 Country:	<u>±</u>		tate, Zip:									To .	210		
Phone:			, NC	28203	Country.	Billing	11861										Country	:		
Empile) for Desert			0840			- B	Phone													
\a	hre	DJ 6	2 geosyr	1 be 100	\sim	1 /2	Email(s) for Invoi	ce:											
Project Name/No: NCSU) (1									40	Pur	chase (Order:						
EMSL LIMS Project ID:	- 1 +	1				1119	State wh	nere		Cto	to of Con-		(OT)							
(If applicable, EMSL will provide)						sam	ples col		N.C.	Sta	te of Con	Comme				10000000	n: lential (No	n-Taxa	able)	
Samples for Ye		7 _{No}	If Yes, fo			ther				PW	'S					100000000000000000000000000000000000000	ate Repor			
Compliance:		71,40	NPDES?			pecify)				ID:							Yes		No	
Samples Collected by (Check Or	ne):		EMSL	CLIENT	Samples Received Chill	ed?		Yes	No	S	ample(s)	Tempera t (LAB								
Sampled By Name:	1	rot	Lo S	ampled By Sig	nature:	11/					Receip	LILAD	ONLI	No. of the least			of Samples			
Turn-Around-Time (TAT)	1			. 17	1 / The	following	ng TAT's	are subject	to Lab appr	oval			_			in Sh	nipment:	_	_	
Turn-Around-Time (TAT)	_	Stand	lard Turn-Around-T	ime:	2 Weeks Cal	ll lab to c	confirm T	AT before su	ubmittal:	ovai.	1 W	eek	4	Days	3 Da	ays	2 Day	s	1 Day	
				Matrix	Preservative	L	ist Tes	t(s) Need	ed (Write	in test b	elow, the	n check	on sa	mple lii	ne:)					
			v	V=Water	1 HCL	, ,										1				
Client Sample ID	Сошр	Grab	Date / Time S	=Soil	Z HNO3	10A											Com	ments	s	
	0	0		=Air L=Sludge	4 ICE	77	est 2	est 3:	est 4:	est 5:	est 6:		est 7:	est 8:			00111			
				=Other	5 Other	00		٦	٢	۲	1		ř	۴						
	-		12/21/27	. /	openia mendenone	5			-									1-1		
A-14-RisF-122123			1505	H	None	X											12	35	23	
										\Box										
							1			111					H					
									+	$\dashv \vdash \vdash$	-	H	-	+	+	-				
			Special Instruc	tions and/or Re	gulatory Requirements (S	Sample	Specific	ations Pro	cessing M	ethods I	imits of D	etection	etc.)		Ш					
					, , , , , , , , , , , , , , , , , , , ,			au0110, 1 10	occounty ivi	culous, L	iiiiii oi D	etection,	eic.)							
Reporting Requireme	onto					_														
Method of Shipment:	JIIIS.		Results	Only	Results and QC			uced Deliv			Hzresu	Its EDD		E	Excel		Other	(Descr	ribe Above	
1/100	X				<u> </u>	A	Sample	Condition	Upon Rec	eipt:										
Relinquished by:	2		Da	12-2/-	23 / 1800		Receive	ed by:							Date	Time				
Relinquished by:			Da	ate/Time:	-/10-		Receive	d by:							Date	e/Time				
Controlled Document - COC-07 Chemistry	R11 02/26	5/2021				-														

AGREE TO ELECTRONIC SIGNATURE (Du chooking Languartic cincipantic Ot 1

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 11, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/27/2023. The results are tabulated on the attached pages for the following client designated project:

NCSU PH

The reference number for these samples is EMSL Order #: <u>AB67810</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

MM S

Table of Contents

Cover Letter	1
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Sample Results	6
Quality Assurance Results	10
Certified Analyses	12
Certifications	12
Qualifiers, Definitions and Disclaimer	13
Chain of Custody PDF	14





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Sample Condition on Receipt

Cooler ID: Default Cooler

Custody Seals

Containers Intact

COC/Labels Agree

Preservation Confirmed

Temperature: 15.1 °C

Y

Y

Y





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810

LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67810-01	A-01-216-122223	Tubes	12/22/2023	12/27/2023
AB67810-02	A-03-742-122223	Tubes	12/22/2023	12/27/2023
AB67810-03	A-15-117-122223	Tubes	12/22/2023	12/27/2023
AB67810-04	A-Blank-117-122223	Tubes	12/22/2023	12/27/2023





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810

LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/27/2023 09:00 Reported: 01/11/2024 16:17

Positive Hits Summary

Lab ID AB67810-01	Client ID A-01-216-122223				Sampled 12/22/23 11:21
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0704		μg/m³	12/29/2023 19:24
Lab ID	Client ID				Sampled
AB67810-02	A-03-742-122223				12/22/23 17:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0677		μg/m³	12/29/2023 19:41
Lab ID	Client ID				Sampled
AB67810-03	A-15-117-122223				12/22/23 10:02
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0436		μg/m³	12/29/2023 19:57



EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:** NCSU PH

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/27/2023 09:00 Reported: 01/11/2024 16:17

Sample Results

Sample: A-01-216-122223 AB67810-01 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0704		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	109%			60-120		12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	133%	R1		60-120		12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A



EMSL 2

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Sample Results
(Continued)

Sample: A-03-742-122223 AB67810-02 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0677		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	109%			60-120		12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	127%	R1		60-120		12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A



EMSL 20

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Sample Results (Continued)

Sample: A-15-117-122223 AB67810-03 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0436		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	107%			60-120		12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	130%	R1		60-120		12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A



EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Sample Results (Continued)

Sample: A-Blank-117-122223 AB67810-04 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	109%			60-120		12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	134%	R1		60-120		12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A

EMSL Order ID: 012367810

LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

NCSU PH Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com **Project Name:**

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/27/2023 09:00 Reported: 01/11/2024 16:17

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10A									
Blank (BBL0915-BLK1)			Prei	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³		,	,,	-		
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		88	60-120		
Surrogate: Decachlorobiphenyl				100.0		113	60-120		
Blank (BBL0915-BLK2)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³						
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		101	60-120		
Surrogate: Decachlorobiphenyl				100.0		125	60-120		
LCS (BBL0915-BS1)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	1000	50.0	μg/m³	1000		100	70-130		
Aroclor-1260	1090	50.0	μg/m³	1000		109	70-130		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		99	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		





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EMSL-CIN-01

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Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/27/2023 09:00

Reported: 01/11/2024 16:17

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10	A (Continued)								
LCS Dup (BBL0915-BSD1)			Pre	pared: 12/28	/2023 Analyze	ed: 12/29/20	023		
Aroclor-1016	1030	50.0	μg/m³	1000		103	70-130	3	25
Aroclor-1260	1050	50.0	μg/m³	1000		105	70-130	4	25
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		96	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		
				1000			00 120		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
EPA TO-10A in Tubes			
Aroclor-1016	12674-11-2	NJDEP	
Aroclor-1221	11104-28-2	NJDEP	
Aroclor-1232	11141-16-5	NJDEP	
Aroclor-1242	53469-21-9	NJDEP	
Aroclor-1248	12672-29-6	NJDEP	
Aroclor-1254	11097-69-1	NJDEP	
Aroclor-1260	11096-82-5	NJDEP	
Aroclor-1262	37324-23-5	NJDEP	
Aroclor-1268	11100-14-4	NJDEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.



EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens Project Name:

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

oject Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Notes and Definitions

Item	Definition
R1	Recovery is outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL NG.			Env	vironmental (Chem Order Nun				of Cus	stody	y				200	Rt. 130	n, NJ 08077		1
)					ABL	075	810										E: (800) 22		
Customer ID: Company Name:						Bill	ling ID:									EMAI	L: EnvCher	nistry2@	@EMSL.c
Company Name: Cessyll Contact Name: 5eff	+<	c Co	nsulta	ints	Information	Co	mpany Na		So	100	2 0	S							
Street Address: 1300 S	1	nint Nint	C1		- Lo	Str	eet Addre	0000											
Street Address: 1300 S City, State, Zip: Charlat Phone: 704-22			SLIGI	Country: US	- In	Cit	y, State, Z	Zip:			+						Country	r:	
Phone:		1		0.3	Billing	Pho	one:	-									- Country	-	
- " - "	•			2		_	nail(s) for l	Invoice:											
Project Jahren		or geas.	Intec-	am		-			11111	7777		Pi	urchase	Order:					10
Name/No: NCSU PY	1												urchase	Order.					
EMSL LIMS Project ID: (If applicable, EMSL will provide)							e where s collected	d: /	VC	State	e of Cor		it (CT) m nercial (1		. 3/4		on: dential (No	n-Tax	able)
Samples for Compliance?	No	If Yes, NPDE		es No	Other (Specify))				PWS ID:	S					Si	Yes	ting Re	equired? No
Samples Collected by (Check One):		EMSL	CLIENT	Samples Received C	hilled?		Yes		No	Sai			erature (
Sampled By Name: John Tradter & D	20	ic well	Sampled By Sig	nature:	- 1	11	Per					(===	ONL				of Samples		
		rd Turn-Around	Time:	2 Weeks					Lab approva	al.	11	Veek	1	Days	3	Days	2 Day	. [1 Day
			Matrix	Preservative	Call lab to				d (Write in	test be						1			Loay
Client Sample ID	Grab		W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	method TO 10A	Test 2:	Test 3:		Test 4:	Test 5:	is to		Test 7:	×			Com	ments	s
A-01-216-12222		1121	A	none	+														
A-03-742-12263		1715	A	none	+														
A-15-117-12222		12/22/27	A	none	7														
A-13/ank-117-12223		12/2/23	A	none	+			П											
		Special Instr	uctions and/or R	egulatory Requirement	s (Sample	e Spe	ecifications	s, Proce	essing Met	hods, Li	mits of [Detectio	n, etc.)			15	.(°C	4	gh
Reporting Requirements:		Resu	ts Only	Results and QC			Reduced	Delivera	ables		Hzresi	ults ED	D	П	Excel		Other	(Descr	ibe Above
Method of Shipment: Fedet						San	nple Cond	dition Up	pon Receip	ot:				ш					
Relinquished by: Relinquished by:	les		Date/Time:	2023 113	30	13	ceived by:	a	la Ca	~	10	F	X	1	1	ate/Time 2/2	7/23	9	W

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

Controlled Document - COC-07 Chemistry R11 02/26/2021

Page 1 of 2

APPENDIX A2 AIR SAMPLE FIELD DATA SHEETS

	DRMATIO	N						
PROJECT:N SITE: LOCATION: INSTRUMENT PUMP SERIAL	MODEL		CAL	TE(S) SAM FIME PER OPERATO IBRATED RAIN:	RIOD SAN OR: O BY:	MPLED:_		SILM
ADSORBENT	CARTRID	GE INFO	RMATIO	N:				
Type: Adsorbent: Serial No.:	Cartridg Tub-	59	Cartridge		rtridge 3	Cartric	lge 4	-
ample No.:	A-1	Slank	-117-	-11-9	1993	>		-4
I. SAMPLING DA	та <i>В</i> 4	Ambient		(Q), mL/min	Samplin	ng Period	Total	Total Sample
		7 KINDICILL					100000000000000000000000000000000000000	
Identifi- Sampling cation Location		Pressure, in Hg	Cartridge 1	Cartridge 2	Start 0950	Stop 1002	Sampling Time, min.	Volume, L
Identifi- Sampling cation Location		Electric Control of the State of the	Cartridge 1	Cartridge 2			Time, min.	
Identifi- Sampling		Electric Control of the State of the	Cartridge 1	Cartridge 2			Time, min.	
Identification 18859 FIELD AUDIT	Temp., °F	Cartridge 1	Cartrid	J		1007	Time, min.	
Identification Sampling Location	Temp., °F	Hg Hg Cartridge I	Cartrid	ge 2	0950	3 C	Time, min.	
Identification 18859 FIELD AUDIT Audit Flow Check	Temp., °F	Cartridge 1	<u>Cartrid</u>	ge 2	0950 Cartridge	3 C	artridge 4	L
Identification 18859 I. FIELD AUDIT Audit Flow Check	Temp., °F	Cartridge I	Cartrid	ge 2 e- ost-	Cartridge pre	3 C	artridge 4	L

I. GENERA	AL INFOR	RMATION	N							
LOCAT INSTRI PUMP	FION: UMENT N SERIAL N	₩O:: <u>₹</u> 0	H NO.: 10- 141130	1 CAL	OPERATO IBRATEI RAIN:	DR: Jole DBY:	50hn	12/21/ 24 hours	- mu	2 /202
Type: Adsorbent: Serial No.: Sample No.:		A-0	e1 F (-21)	Cartridge	979	rtridge 3			- - - -	ودعدادا
Cartridge Identifi-	Sampling	Ambient	Ambient Pressure, in		Q), mL/min	Samplii	ng Period	Total Sampling	Total Sample Volume,	
ation	216	Temp., °F	Hg	Cartridge 1	Cartridge 2	Start 1015	Stop	Time, min.	L	
			7			845	1700	495		
			3,179,11.2			741	1191	990		
								,		
	AUDIT ow Check Set Point (Within	Cartridge 1	pr	e-	<u>Cartridge</u>	÷	artridge 4 pre-		
CHECK	ED BY:		post-	po	ost-	ро	st-	post-		
			4 1 1 1 1 1 1							
DATE:_										
	Fi	gure 5. C	ompendiu	m Method	TO-10A	field test o	lata sheet.			

	I. GENER	AL INFO	RMATIO	N					47	
ian	LOCA INSTR PUMP	TION: 3 RUMENT SERIAL	MODEL I NO. 2014		CAL	OPERATO IBRATED RAIN: Mod	OR: / OR	PLED: A TOTAL	27111	
	Type Adsorbent Serial No.	:		rethare 33-on	TUBL		rtridge 3	Cartric	lge 4-07	- 12-21-2 - -
	Sample No.	A	7-02-3	317F-1	2212	3		-		_
	II. SAMPI	LING DA	ΓΑ	ı					1,440	Total
	Cartridge Identifi-	Sampling	Ambient	Ambient Pressure, in	I SON HOUSE BY	(Q), mL/min		g Period	Total Sampling Time, min.	Sample Volume,
	014033	Location 317 F	Temp., °F	30.48	Cartridge 1	Cartridge 2	Start 1032	/032	24 hc	7,185.6
			12	.20						
			12-16				and the same	1		
	III. FIELD	AUDIT								
	Audit Fl	low Check	Within 2	Cartridge 1			Cartridge			9- 12-2
	10% 01	f Set Point	(Y/N)? p	4.99	pr		pre		pre-	<u></u>
				post-	pc	st-	pos	-1:	post-	
	CHECK	ED BY:_								
								ata sheet		

			-\	DAT	E(S) SAM	IPLED: \\	120,12	21,12	122/2
SITE:_	EION	7/17		_ [IME PER	HOD SAN	APLED:	110/	1,,
LOCA	HON:	MODELA	10::109	— CAL	PEKAIC	DK: J	JUL M	Truta	ter
			411301	48 R	AIN:	YES _	NO	1,01	
ADSO	RBENT C	ARTRID	GE INFOR	MATION	1 :				
		Cartridg	e 1	Cartridge	2 Ca	rtridge 3	Cartrid	lge 4	
Type:								No.	_
Adsorbent:		Put					_		-
Serial No.:			033			r tagen	-1 1		-
ample No.:		A-0	5-74	9-1,	49,9	5			
ampie No							10 1		_
I. SAMPI	ING DAT	TA.							
Cartridge			Ambient	Flow Rate (Q), mL/min	Sampli	ng Period	Total	Total Sample
Identifi-	Sampling	Ambient	Pressure, in	Castaldas I	Castridas 2	Ctort	Ston	Sampling Time, min.	Volume, L
cation (14073	743	Temp., °F	Hg	Cartridge 1	Cartridge 2	Start	Stop 1853	491	L
U-10-2	. 10					1000	1630	390	
						737	1715	578	
					1				
II. FIELD	AUDIT								
II. FIELD	AUDIT								
II. FIELD	AUDIT		Cartridge 1	<u>Cartrid</u>	ge 2	Cartridge	:3 <u>C</u>	artridge 4	
			Cartridge 1	Cartrid	ge 2	Cartridge	23 C	artridge 4	
Audit F	AUDIT low Check f Set Point	Within _	4.99			<u>Cartridge</u>	_	artridge 4	
Audit F	low Check	Within _	The state of the s			pro	e-		
Audit F	low Check	Within _	4.99	pr		pro	_		
Audit F 10% o	low Check f Set Point	Within	4.99 Dre-5.13	pr	e- ost-	pro	e-	pre-	
Audit F 10% o	low Check f Set Point (ED BY:	Within (Y/N)? p	4.99 post-	pr	e- ost-	pro	e-	pre-	

PROJECT: L SITE: NCS LOCATION INSTRUME PUMP SERI	714B NT MODEL	NO: 11	1	TME PER OPERATO IBRATED	IPLED: // IOD SAM OR: //o.b OBY: // YES _	PLED:	tes.	-
ADSORBEN	T CARTRII	OGE INFOR	RMATION	N:				
Type: Adsorbent: Serial No.:		HOYUNE -92	-LoT th	14223				/ /2-20
ample No.:	A-04.	7148-1	2212	3		1		_
II. SAMPLING	DATA							
Cartridge Identification Loca	tion Temp., °	F Hg	Flow Rate (Q), mL/min Cartridge 2	Samplin Start	Stop	Total Sampling Time, min.	Total Sample Volume, L 7,171.2
	PT L	2/20						
III. FIELD AUDI	Γ							
		Cartridge 1	Cartrid	ge 2	<u>Cartridge</u>	<u>3</u> <u>C</u>	artridge 4	PT,12-2
Audit Flow Ch 10% of Set P	oint (Y/N)?	9-73 pre- 5.04	pr	e-	pre		pre-	
	4.48	post-	pc	ost-	pos	t-	post-	
	ν.							
CHECKED B	Υ.							
CHECKED B	Y:							

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Compendium of Methods for Toxic Organic Air Pollutants

January 1999

GENER	AL INFO	RMATIO	N						
LOCA INSTR PUMP	TION: 6 UMENT I SERIAL I GOODER RBENT C	MODEL NO. 2014	9h, NC 1113023 2-611	CAL B F	TIME PER OPERATO IBRATED RAIN:	IOD SAN	APLED:	-12/21/24 hr.	123
Type Adsorbent Serial No.		Cartridg Lybe Polytu 01403	rethone	Cartridge	2 Ca	rtridge 3	Cartrio	dge 4 PT	
imple No.		A-05	-608	1-122	123				_
Cartridge Identifi-	LING DAT	Ambient	Ambient Pressure, in	Flow Rate	(Q), mL/min	Samplin	ng Period	Total Sampling	Total Sample Volume
cation 044033	Location 608 T	Temp., °F	Hg 30,49	Cartridge 1	Cartridge 2	Start	Stop	Time, min.	7,200
					-	,		<u> </u>	
		II	12-20			France III.			
	AUDIT								
I. FIELD									0
Audit F	low Check	Within 2	Cartridge 1	<u> </u>	ge 2	<u>Cartridge</u>		Cartridge 4	yr ₍ 1
Audit F		Within 2	5.0 5.0	pr	e-	pre	·	pre-	
Audit F		Within 2	5.0	pr			·		
Audit F 10% o		Within 2	5.0 5.0	pr	e-	pre	·	pre-	
Audit F 10% o	f Set Point (Within 2	5.0 5.0	pr	e-	pre	·	pre-	
Audit F 10% o	f Set Point (Within (Y/N)? p	5.0 post-	pr	e-	pre	st-	pre- post-	

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COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

GENERAL INFORMATION
PROJECT: RICSU, Poe Hall DATE(S) SAMPLED: 12/20/23 - 12/21/23 SITE: NUSU, Rabigh TIME PERIOD SAMPLED: 24hr- OPERATOR: 10/24 CALIBRATED BY: 10/24 CALIBRATED BY: 10/24 NO
ADSORBENT CARTRIDGE INFORMATION:
Type: Cartridge 1 Cartridge 2 Cartridge 3 Cartridge 4 Pr, 12-273 Adsorbent: Polymethane Serial No.: 014033
ample No.: A-06-635-122123
I. SAMPLING DATA
Cartridge Identification Location Temp, °F Hg Ambient Cartridge 1 Cartridge 1 Cartridge 2 Start Stop Time, min. Total Sample Volume, Time, min. Location Location Temp. °F Lg Cartridge 1 Cartridge 2 Start Stop Time, min. L
014037 635 60.5 30.49 4.5 5.0 1122 1/22 1,440 7,056
2 12 28
AL CONTRACTOR OF THE PROPERTY
Audit Flow Check Within 4.8 Cartridge 2 Cartridge 3 Cartridge 4 Pt 12
10% of Set Point (Y/N)? pre-5.0 pre- pre-
post- post- post-
CHECKED BY:
DATE:
Figure 5. Compendium Method TO-10A field test data sheet.

Compendium of Methods for Toxic Organic Air Pollutants

PROJECT: ACSIA, for HAVE DATE(S) SAMPLED: 122023 - 122123 SITE: ACSIA, for HAVE DATE(S) SAMPLED: 122023 - 122123 SITE: ACSIA, for HAVE DATE(S) SAMPLED: 122023 - 122123 ITME PERIOD SAMPLED: 2441. Conn. OPERATOR: John John John John John John John John	I. GENERA									,
Type: Type: Adsorbent: Polywrethare Serial No.: Polywrethare Sample No.: A-07-510E-122123 II. SAMPLING DATA Cartridge I	PROJECT SITE: LOCATINSTRIPUMP:	CT: NC NCSU TION: 5 UMENT N SERIAL N	SU P. ROGI 10E MODEL NO.: 201	0e HA gh, N 10:: 133 1510307	C DAT C 1 CAL	E(S) SAM TIME PER DPERATO IBRATED RAIN:	PLED: // IOD SAM PR: / O/A BY: // YES	2/20/2 IPLED: 2 ha Too X NO	3-12/24 HV	21/23 min.
Sample No.: A-07-510E-122123 II. SAMPLING DATA Cartridge Identification Location Temp. *F Pressure, in Hg Cartridge I Cartridge I Cartridge 2 Start Stop Time, min Location Image: Cartridge I Cartridge 2 Start Stop Time, min Location Image: Cartridge 3 Start Stop Time, min Location Image: Cartridge 4 Start Stop Ima	ADSOF	RBENT C	ARTRIDO	GE INFOR	RMATION	N:				
II. SAMPLING DATA Cartridge Sampling Ambient Pressure, in Cartridge Cartridge Cartridge Start Stop Time, min L. Ol 4033 Slot G6 S 30.41 Stop	Adsorbent:	7	Cartridge Tube, 191401	Puf ethane	Cartridge	2 Car	rtridge-3	—Cartrid	ge 4 - Pr	-112-20
Cartridge Identification Sampling Ambient Flow Rate (Q), mL/min Sampling Period Total Sampling Cartridge 1 Cartridge 2 Start Stop Time, min L L L L L L L L L	Sample No.:	,	A-07.	-5106	-122	123		-		-
Cartridge Identification Location Temp, °F Hg Cartridge I Cartridge 2 Start Stop Time, min Location Location Temp, °F Hg Cartridge 1 Cartridge 2 Start Stop Time, min Location Location Hg Cartridge 1 Cartridge 2 Start Stop Time, min L L L L L L L L L L L L L L L L L L L	II. SAMPL	ING DAT	Ā							
III. FIELD AUDIT Cartridge 1	Identifi- cation	Location	Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Sample Volume, L
Audit Flow Check Within 10% of Set Point (Y/N)? pre-4, 9 pre- pre- pre- pre- post- post- post-	NITWS	2105	00.1		2.0	7-11-	1100	1723	1,713	
Audit Flow Check Within 10% of Set Point (Y/N)? Cartridge 1 Cartridge 2 Cartridge 3 Cartridge 4 PT 12-2 Pre- pre- pre- pre- post- post- post- post- post-			25	1200						
Audit Flow Check Within 10% of Set Point (Y/N)? Cartridge 1 Cartridge 2 Cartridge 3 Cartridge 4 Pr. 12-2 Pre- pre- pre- pre- post- post- post- post- post-										
Audit Flow Check Within 10% of Set Point (Y/N)? Pre-4, 9 pre- pre- pre- pre- post- post- post- post-	III. FIELD	AUDIT				•				
10% of Set Point (Y/N)? pre-4 pre- pre- pre- pre- post- post-				_	<u>-Cartrid</u>	ge 2	Cartridge	<u>3</u> <u>C</u>	artridge 4	-Pr,12-2
	Audit Fl 10% of	ow Check f Set Point	Within (Y/N)? p	re-4,9		_	_			
				post-	po	ost-	pos	st-	post-	
CHECKED BY:	CHECK	ED BY:								
DATE:	DATE:_							_		
Figure 5. Compendium Method TO-10A field test data sheet.		Fi	gure 5. C	ompendiu	m Method	HTO-10A	field test o	lata sheet.		

I. GENERAL INFO	RMATION	N						
PROJECT: NC SITE: NC SCOTT SITE: NC	MODEL NO: 201	19h -5 0athroom NO: 134 10300	CAL 45 I	TIME PER OPERATO IBRATEI RAIN:	MPLED:_/ RIOD SAM DR:_/ D BY:_// _YES _	MATON	ter	1/23 4 min.
Type: Adsorbent: Serial No.:	0140	put rethan 37	4					712-20
Sample No.:	A-08	-526 MENS B	ATHRO	212 <u>3</u>			•	
II. SAMPLING DA	TA							
Cartridge Identification Location Location	Ambient Temp, °F	Ambient Pressure, in Hg	Flow Rate Cartridge 1	(Q), mL/min Cartridge 2	Samplir 12/2 ° Start 1205	12/2 (Stop	Total Sampling Time, min	Total Sample Volume, L
	JT.	2-20						
III. FIELD AUDIT	<u>'</u>	Cartridge 1	Cartrid	ge-2	Cartridge	3 <u>C</u>	artridge 4	91,12-2
Audit Flow Check 10% of Set Point		re-4.9		ost-	pre		pre-	
CHECKED BY:_				وأور				
DATE:						_		
F	igure 5. C	ompendiu	m Method	TO-10A	field test of	lata sheet.		

PROJ	ECT: MIC	54.	De Hall	DAT	E(S) SAN	иPLED: <u>/</u>	1/20/23	-12/	21/23
SITE:	NESU	1, Ra	leigh		TIME PER	RIOD SAM	APLED:_	24hr.	-
LOCA	ATION:	4026			OPERATO	DR:		Ter .	
INSTI	RUMENT	MODEL	NO.: 135	CAL	IBRATEI	BY!	sha los	Her	
PUMI	SERIAL	NO.: 20	1905200	67	RAIN:	_YESt_	XNO		
			OGE INFO		NI.				
ADSC	JRBENT	AKIKII							
		Cartrid	ge 1	Cartridge	2 Ca	rtridge 3	Cartric	lge4 PT	112-
Туре		Type	Pat						-
Adsorben		Poly	ure tha	re					
Serial No	.:	0/45	555						
ample No	-	A-09	-4020	5-122	1123				-
ample 710	_								
	_								
I. SAMP	LING DAT	ГА							
									Total
Cartridge		88 BPU	Ambient	Flow Rate	(Q), mL/min		Period 12/21	Total Sampling	Sample Volume.
Identifi- cation	Sampling Location	Ambient Temp, °F	Pressure, in Hg	Cartridge 1	Cartridge 2	12/20 Start	Stop	Time, min.	L
014033		56.0	30.42	5.0	NA	1300	1300	1,440	7,178
					-				
		12	120						
	1	I			-				
					in the second second				
				(Marie Village)					
II. FIELD	AUDIT								
			Cartridge 1	Cartrid	ge 2	Cartridge	3 <u>C</u>	artridge 4	-DT,1
			_						
	low Check	** 1111111	5.0			pre		pre-	
	of Set Point	(Y/N)?	Pre-4-97	pi	e-	pre		pic	
			post-	pc	ost-	pos	st-	post-	
10% o	(ED BY:_								
10% o							_		
10% o									
10% o			Compendiu		TO-10A	field test o	lata sheet.		

I. GENERA	AL INFO	RMATIO	N						
INSTR	UMENT	MODEL 1	e Hall 1294 NO:: 69 1113010	CAL	TE(S) SAM ITIME PER OPERATO IBRATED RAIN:	OR:	sha To	Her	/ 23
ADSO	RBENT C	ARTRID	GE INFOR	RMATIO	N:				
Type: Adsorbent: Serial No.:		Cartridg Lube, 1 Wolyu 0140	rethan		2 Ca	rtridge 3	Cartrid	lge 4 / 1	-(12-20
Sample No.:		A-10-	400-	12212	3		1 100	17. 1781	
II. SAMPL	ING DAT	ΓΑ		Class Peter	(Q), mL/min	Samuli	ng Period	Total	Total Sample
Cartridge Identifi-	Sampling	Ambient Temp, °F	Ambient Pressure, in Hg	Cartridge 1		12/20 Start	12/21 Stop	Total Sampling Time, min.	Volume,
014033	Location 4/00	65.4	30.42	4.8	N/A	1315	1330	1,455	6,984
		.2.	-20						
	9								
III. FIELD	UDIT								
	ow Check	Within _	Cartridge 1		-	Cartridge	_	artridge 4	8-,12-2
10% of	Set Point	(Y/N)? F	4.8	_ pi	re-	pro			
			post-	pe	ost-	po	st-	post-	
CHECK	ED BY:_								
DATE:_							_		
	Fi	igure 5. C	ompendiu	m Method	1 TO-10A	field test	data sheet.		

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Compendium of Methods for Toxic Organic Air Pollutants

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I. GENERAL INFORMATION
PROJECT: NCSU, foelfoll DATE(S) SAMPLED: 12/20/23 - (2/21/23) SITE: NCSU, foelfoll TIME PERIOD SAMPLED: LOCATION: 209 OPERATOR: OPERATO
Type: Adsorbent: Serial No.: Sample No.: Cartridge 1 Cartridge 2 Cartridge 3 Cartridge 4 Off Out of 3 Sample No.: A-11-209-122123 II. SAMPLING DATA
Cartridge Identification Location Temp, °F Ambient Pressure, in Hg Cartridge 1 Cartridge 2 Start Stop Time, min. Location Total Sampling Volume, L Cartridge 1 Cartridge 1 Total Sampling Volume, L
Audit Flow Check Within 10% of Set Point (Y/N)? Cartridge 1 Cartridge 2 Cartridge 3 Cartridge 4 97 12-20
DATE:
Figure 5. Compendium Method TO-10A field test data sheet.

I. GENERAL INFOR	RMATIO	N						,
PROJECT: NC. SITE: NC. S. C. LOCATION: INSTRUMENT N PUMP SERIAL N	MODEL N	NO:: 147	CAL	PERATO IBRATED	IPLED: [] IOD SAN OR: [] O BY: [] YES []	gr Trot		/23
ADSORBENT C	ARTRID	GE INFOR	MATION	N:				
Type: Adsorbent: Serial No.:	01403	rethan						7,12-20
Sample No.:	A-12	-228-	12212	23 _				-
II. SAMPLING DAT	`A							
Cartridge Identification Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Q), mL/min Cartridge 2	Samplin Start	Stop	Total Sampling Time, min	Total Sample Volume, L
71	12-2							
*								
W. EWELD ALIDIT								
III. FIELD AUDIT		Cartridge I	Cartrid	ge 2	Cartridge	<u>3</u> <u>C</u>	artridge 4	QT112-2
Audit Flow Check 10% of Set Point (4-Y	pr	e-	pre	-	pre-	
		post-	po	ost-	pos	st-	post-	
CHECKED BY:								
DATE:						_		
Fig	gure 5. C	ompendiu	n Method	TO-10A	field test o	lata sheet.		
				_				

I. GENER	AL INFO	RMATIO	N					-	,
INSTR PUMP	TION: 16 RUMENT 1 1610 - 0 10 10 10 10 10 10 10 10 10 10 10 10 10	MODEL NO.: 201	NO:: 131 51030 3-R	(CAL 223 I	OPERATO IBRATED RAIN:	MPLED:	a Troi	Her	
Type Adsorbent Serial No.	:	Cartridg	rethan		2 Ca	rtridge 3	Cartrid	ge 4 - 9	T, 12-0
Sample No. II. SAMPI	-		3-10	6-122	123				- 1.
Cartridge			Ambient	Flow Rate	(Q), mL/min	Samplin	g Period	Total	Total Sample
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, minQ	Volume, L
014033	106	59.1	30.42	5.0	NA	1420	1440	7,056	7,054
								1460	
	01	10.20							
	1								
Audit F	AUDIT		Cartridge 1	_Cartrid	ge 2	<u>Cartridge</u>	3 <u>C</u>	artridge 4	Pt (12
10% o	f Set Point ((Y/N)? p	4.8	pr	e-	pre-		pre-	
			post-	po	ost-	pos	t-	post-	
СНЕСК	ED BY:						_		
CHECK			amnendi	m Method	LTO-10A	field test d	ata shaat		

I. GENERAL INFORMATION	
PROJECT: NCSU, POR HALL SITE: NCSU, Raleigh LOCATION: Jab-106 INSTRUMENT MODEL NO.: 149 PUMP SERIAL NO.: 2012-023-165 PLAN 610-0901-07-R ADSORBENT CARTRIDGE INFORMA	DATE(S) SAMPLED: 12/20/23-12/21/23 TIME PERIOD SAMPLED: OPERATOR: 1040 Tetto CALIBRATED BY: 1040 Totto RAIN: YES X NO TION:
Type: Cartridge 1 Cart Adsorbent: Volguethare Serial No.: Oly 033	ridge 2 Cartridge 3 Cartridge 4 9 T 1/2-20
Sample No.: Dup-01-122	123
II. SAMPLING DATA	
Identifi- Sampling Ambient Pressure, in	v Rate (Q), mL/min Sampling Period Total Sample Volume, idge 1 Cartridge 2 Start Stop Time, min. L
	94 NA 1420 1440 1,4607,197.8
75 12-30	
III. FIELD AUDIT	
Audit Flow Check Within 10% of Set Point (Y/N)? Cartridge 1 4.94 pre-// 6.0	pre- pre- pre- pre-
4.93 <u>9-92</u> post-	post- post-
CHECKED BY:	
DATE:	
Figure 5. Compendium M	ethod TO-10A field test data sheet.

I. GENER	AL INFO	RMATIO	N					/	, ,
SITE:_ LOCA INSTR PUMP	TION: RUMENT	MODEL 1 NO:25/4	NO: // (11302)	CAL	TIME PEF OPERATO LIBRATEI RAIN:	RIOD SAN OR: O BY:	APLED:	the	
ADSO	RBENT (CARTRID						F	
Type Adsorbent Serial No.	:	0146	rethane			artridge 3	Cartri	dge-4 9r	- /2-28
ample No.		A-14	1-R-01	4-122	123				- (
	_								
II. SAMPI	ING DA	ΓΔ							
I. SAIVII I	LING DA								
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate	(Q), mL/min	Samplir Start	ng Period Stop	Total Sampling Time, min.	Total Sample Volume, L
0/4033	ROOF	69.8	32.42	4,94	NA	1435	1505	1470	7,232.4
		- 0			1				
	OT	12-20							
	1								
II. FIELD	AUDIT								
	low Check f Set Point	Within	Cartridge 1		ge 2	<u>Cartridge</u>	_	artridge 4	-PT 12.
			4.40	2	net.	- P.O.		nost	
			post-	рс	ost-	pos	- -	post-	
CHECK	ED BY:_						_		
DATE:_			11.59						
	Fi	gure 5. Co	ompendiu	m Method	TO-10A	field test d	ata sheet		
	1.1	Baile J. Ci	o.iipendidi			toot u	and officet.		

PROJE	CT:_N	isu P	H	DAT	E(S) SAM	PLED:	191-	12/23 24 hrs	2/20
SITE:_	-Un - 100 Page 17 1	17							
V LOCA	'ION:/	1/	. 10	 (OPERATO	DR: 5	MV	Trot	L
		MODEL N			IBRATEL) BY:	ohn	1100	3 61
PUMP	SERIAL	NO::90	141130	727 I	RAIN:	_YES	NO		
ADSO	RBENT C	CARTRID	GE INFOR	RMATIO	N:				
		Cartridg	e 1	Cartridge	2 Ca	rtridge 3	Cartrid	lge 4	
Type:		PUF	- tube	200					-
Adsorbent									_
Serial No.:	(01885	7				· /		-
		A \ C	- 11-	1-12	949	5			
Sample No.		#-1=	5-11						
II. SAMPI	ING DA	TA							
									_
				Class Bata	(Q), mL/min	Samplin	g Period	20. 4.1	Total
Cartridge	Campling	Ambient	Ambient Pressure, in	Flow Rate	(Q), IIIL/IIIII	Sampin	grenou	Total Sampling	Sampl Volum
Identifi- cation	Sampling Location	Temp., °F	Hg	Cartridge 1	Cartridge 2	Start	Stop	Time, min	L
018839				4.92		0945	1009	1457	
-		-							
		-							
III. FIELD	AUDIT								
			Cartridge 1	Cartrid	ge 2	Cartridge	3 C	artridge 4	
			Commence of the commence of th	100000000000000000000000000000000000000		00-10-10-10-10-10-10-10-10-10-10-10-10-1			
Audit F	ow Check	Within 4	.92						
10% o	Set Point	t (Y/N)? p	ore- O	pi	re-	pre	-	pre-	
			4.71			_		-	
			post-	pe	ost-	po	st-	post-	
			-				_		
CHECK	ED BY:_								
CHECK DATE:									

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APPENDIX B1 SURFACE WIPE LAB REPORT

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 09, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/21/2023. The results are tabulated on the attached pages for the following client designated project:

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

NCSU PH

The reference number for these samples is EMSL Order #: <u>AB67620</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Ch MM #

Owen McKenna Laboratory Manager or other approved signatory

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200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Condition on Receipt

Cooler ID: Default Cooler Temperature: 6.7 °C

Custody Seals Y

Containers Intact Y

COC/Labels Agree Y

Preservation Confirmed Y

EMSL Analytical, Inc. Telephone: 856-858-4800 Fax:856-786-5974

200 Route 130, Cinnaminson, NJ, 08077

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

NCSU PH

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/21/2023 09:00 Reported: 01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67620-01	W-033-400-12202023	Wipe	12/20/2023	12/21/2023
AB67620-02	W-034-4026-12202023	Wipe	12/20/2023	12/21/2023
AB67620-03	W-035-406-122023	Wipe	12/20/2023	12/21/2023
AB67620-04	W-036-4126-12202023	Wipe	12/20/2023	12/21/2023
AB67620-05	W-037-413-12202023	Wipe	12/20/2023	12/21/2023
AB67620-06	W-038-414A-12202023	Wipe	12/20/2023	12/21/2023
AB67620-07	W-039-419-12202023	Wipe	12/20/2023	12/21/2023
AB67620-08	W-040-424-12202023	Wipe	12/20/2023	12/21/2023
AB67620-09	W-041-500-12202023	Wipe	12/20/2023	12/21/2023
AB67620-10	W-042-509-12202023	Wipe	12/20/2023	12/21/2023
AB67620-11	W-043-510E-12202023	Wipe	12/20/2023	12/21/2023
AB67620-12	W-044-514-12202023	Wipe	12/20/2023	12/21/2023
AB67620-13	W-045-518-12202023	Wipe	12/20/2023	12/21/2023
AB67620-14	W-046-526-12202023	Wipe	12/20/2023	12/21/2023
AB67620-15	W-047-532-12202023	Wipe	12/20/2023	12/21/2023
AB67620-16	W-048-529-12202023	Wipe	12/20/2023	12/21/2023
AB67620-17	W-049-604-12202023	Wipe	12/20/2023	12/21/2023
AB67620-18	W-050-605-12202023	Wipe	12/20/2023	12/21/2023
AB67620-19	W-051-607-12202023	Wipe	12/20/2023	12/21/2023
AB67620-20	W-052-608P-12202023	Wipe	12/20/2023	12/21/2023
AB67620-21	W-053-613-12202023	Wipe	12/20/2023	12/21/2023
AB67620-22	W-054-616A-12202023	Wipe	12/20/2023	12/21/2023
AB67620-23	W-055-630-12202023	Wipe	12/20/2023	12/21/2023
AB67620-24	W-056-700-12202023	Wipe	12/20/2023	12/21/2023
AB67620-25	W-057-719-12202023	Wipe	12/20/2023	12/21/2023
AB67620-26	W-058-729-12202023	Wipe	12/20/2023	12/21/2023
AB67620-27	W-059-734-12202023	Wipe	12/20/2023	12/21/2023
AB67620-28	W-060-742-12202023	Wipe	12/20/2023	12/21/2023
AB67620-29	W-061-744-12202023	Wipe	12/20/2023	12/21/2023
AB67620-30	W-062-761-12202023	Wipe	12/20/2023	12/21/2023
AB67620-31	W-001-Blank-12202023	Wipe	12/20/2023	12/21/2023

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012367620 LIMS Reference ID: AB67620 EMSL Customer ID: GSCH75

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67620-01	W-033-400-12202023				12/20/23 15:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.57		μg/100 cm²	01/08/2024 14:56
Lab ID	Client ID				Sampled
AB67620-02	W-034-4026-12202023				12/20/23 15:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	7.75		μg/100 cm²	01/08/2024 15:17
Lab ID	Client ID				Sampled
AB67620-05	W-037-413-12202023				12/20/23 14:40
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.43		μg/100 cm²	01/08/2024 16:21
Lab ID	Client ID				Sampled
AB67620-07	W-039-419-12202023				12/20/23 14:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	3.10		μg/100 cm²	01/08/2024 17:04
Lab ID	Client ID				Sampled
AB67620-08	W-040-424-12202023				12/20/23 15:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.766		μg/100 cm²	01/08/2024 17:25
Lab ID	Client ID				Sampled
AB67620-09	W-041-500-12202023				12/20/23 14:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	4.50		μg/100 cm²	01/08/2024 17:47
Lab ID	Client ID				Sampled
AB67620-12	W-044-514-12202023				12/20/23 13:35
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.62		μg/100 cm²	01/04/2024 14:46



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(704) 227-0850 jahrens@geosyntec.com Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67620-20	W-052-608P-12202023	D 14	O I:E:	1.1	12/20/23 12:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2.00		μg/100 cm²	01/04/2024 17:35
Lab ID	Client ID				Sampled
AB67620-22	W-054-616A-12202023				12/20/23 13:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.91		μg/100 cm²	01/04/2024 18:16
Lab ID	Client ID				Sampled
AB67620-28	W-060-742-12202023				12/20/23 11:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.573		μg/100 cm²	01/04/2024 20:43



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Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results

Sample: W-033-400-12202023 AB67620-01 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.57		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	79%			21-123		01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	97%			17-128		01/04/24 10:34	01/08/24 14:56	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-034-4026-12202023 AB67620-02 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	7.75		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	81%			21-123		01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	99%			17-128		01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-035-406-122023 AB67620-03 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	77%			21-123		01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	96%			17-128		01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results
(Continued)

Sample: W-036-4126-12202023 AB67620-04 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			21-123		01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A



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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-037-413-12202023 AB67620-05 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.43		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	74%			21-123		01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	93%			17-128		01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A



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(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-038-414A-12202023 AB67620-06 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-039-419-12202023 AB67620-07 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	3.10		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	59%			21-123		01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	75%			17-128		01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-040-424-12202023 AB67620-08 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.766		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	82%			17-128		01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-041-500-12202023 AB67620-09 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	4.50		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			17-128		01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-042-509-12202023 AB67620-10 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	88%			17-128		01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-043-510E-12202023 AB67620-11 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			21-123		01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	89%			17-128		01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-044-514-12202023 AB67620-12 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.62		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	59%			21-123		01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	78%			17-128		01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results
(Continued)

Sample: W-045-518-12202023 AB67620-13 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			21-123		01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-046-526-12202023 AB67620-14 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-047-532-12202023 AB67620-15 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	91%			17-128		01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-048-529-12202023 AB67620-16 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			21-123		01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-049-604-12202023 AB67620-17 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	48%			21-123		01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	81%			17-128		01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-050-605-12202023 AB67620-18 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	83%			17-128		01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results
(Continued)

Sample: W-051-607-12202023 AB67620-19 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-052-608P-12202023 AB67620-20 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	2.00		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	59%			21-123		01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results
(Continued)

Sample: W-053-613-12202023 AB67620-21 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			21-123		01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-054-616A-12202023 AB67620-22 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.91		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	92%			17-128		01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-055-630-12202023 AB67620-23 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			17-128		01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-056-700-12202023 AB67620-24 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	84%			17-128		01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-057-719-12202023 AB67620-25 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			17-128		01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-058-729-12202023 AB67620-26 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-059-734-12202023 AB67620-27 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			21-123		01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	93%			17-128		01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-060-742-12202023 AB67620-28 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.573		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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Charlotte, NC 28203-4168

(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Received: Emily Stressman 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results (Continued)

Sample: W-061-744-12202023 AB67620-29 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	61%			21-123		01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-062-761-12202023 AB67620-30 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	79%			17-128		01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-001-Blank-12202023 AB67620-31 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	87%			21-123		01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	107%			17-128		01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

NCSU PH Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/21/2023 09:00 Reported: 01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0010 - SW846 3540C								
Blank (BCA0010-BLK1)			Prepared: 1/2	2/2024 Analyzed:	1/3/2024	ŀ		
Aroclor-1016	ND	0.500 μg/100 cn		,	• •			
Aroclor-1221	ND	0.500 μg/100 cn						
Aroclor-1232	ND	0.500 μg/100 cn	12					
Aroclor-1242	ND	0.500 μg/100 cn	12					
Aroclor-1248	ND	0.500 μg/100 cn	12					
Aroclor-1254	ND	0.500 μg/100 cn	12					
Aroclor-1260	ND	0.500 μg/100 cn	1 ²					
Aroclor-1262	ND	0.500 μg/100 cm	12					
Aroclor-1268	ND	0.500 μg/100 cm	12					
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		67	21-123		
Surrogate: Decachlorobiphenyl			1.000		73	17-128		
LCS (BCA0010-BS1)			Prepared: 1/2	2/2024 Analyzed:	1/3/2024	ŀ		
Aroclor-1016	7.47	0.500 μg/100 cn	10.00		75	37-120		
Aroclor-1260	8.43	0.500 μg/100 cm	n ² 10.00		84	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		68	21-123		
Surrogate: Decachlorobiphenyl			1.000		72	17-128		
LCS Dup (BCA0010-BSD1)			Prepared: 1/2	2/2024 Analyzed:	1/3/2024	ŀ		
Aroclor-1016	7.44	0.500 μg/100 cn	10.00		74	37-120	0.4	25
Aroclor-1260	8.45	0.500 μg/100 cm	n ² 10.00		85	45-121	0.3	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		65	21-123		
Surrogate: Decachlorobiphenyl			1.000		71	<i>17-128</i>		

Batch: BCA0077 - SW846 3540C

Blank (BCA0077-BLK1)		Prepared: 1/3/2024 Analyzed: 1/4/2024
Aroclor-1016	ND	0.500 μg/100 cm ²
Aroclor-1221	ND	0.500 μg/100 cm ²
Aroclor-1232	ND	0.500 μg/100 cm ²
Aroclor-1242	ND	0.500 μg/100 cm ²
Aroclor-1248	ND	0.500 μg/100 cm ²
Aroclor-1254	ND	0.500 μg/100 cm ²
Aroclor-1260	ND	0.500 μg/100 cm ²
Aroclor-1262	ND	0.500 μg/100 cm ²

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/21/2023 09:00 Reported: 01/09/2024 15:21

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0077 - SW846 354	10C (Continued)							
Blank (BCA0077-BLK1)		Pro	epared: 1/3	/2024 Analyzed	: 1/4/202	4		
Aroclor-1268	ND	0.500 μg/100 cm ²	-p w. 1/0	,	-, -, -0=	•		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		<i>73</i>	21-123		
Surrogate: Decachlorobiphenyl			1.000		89	17-128		
LCS (BCA0077-BS1)		Pro	epared: 1/3	/2024 Analyzed	: 1/4/202	4		
Aroclor-1016	8.53	0.500 μg/100 cm ²	10.00		85	37-120		
Aroclor-1260	9.86	0.500 μg/100 cm ²	10.00		99	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		78	21-123		
Surrogate: Decachlorobiphenyl			1.000		88	17-128		
LCS Dup (BCA0077-BSD1)		Pro	epared: 1/3	/2024 Analyzed	: 1/4/202	4		
Aroclor-1016	7.95	0.500 μg/100 cm ²	10.00		79	37-120	7	25
Aroclor-1260	9.48	0.500 μg/100 cm ²	10.00		95	45-121	4	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		71	21-123		
Surrogate: Decachlorobiphenyl			1.000		<i>85</i>	17-128		

Batch: BCA0131 - SW846 3540	OC .				
Blank (BCA0131-BLK1)		Prepared: 1/4/2	024 Analyzed: 1/8/2024	4	
Aroclor-1016	ND	0.500 μg/100 cm ²			
Aroclor-1221	ND	0.500 μg/100 cm ²			
Aroclor-1232	ND	0.500 μg/100 cm ²			
Aroclor-1242	ND	0.500 μg/100 cm ²			
Aroclor-1248	ND	0.500 μg/100 cm ²			
Aroclor-1254	ND	0.500 μg/100 cm ²			
Aroclor-1260	ND	0.500 μg/100 cm ²			
Aroclor-1262	ND	0.500 μg/100 cm ²			
Aroclor-1268	ND	0.500 μg/100 cm ²			
Surrogate(s)					
Surrogate: Tetrachloro-m-xylene		1.000	<i>76</i>	21-123	
Surrogate: Decachlorobiphenyl		1.000	<i>78</i>	<i>17-128</i>	



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/21/2023 09:00 Reported: 01/09/2024 15:21

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0131 - SW846 354	10C (Continued)							
LCS (BCA0131-BS1)		Pr	epared: 1/4	1/2024 Analyze	ed: 1/8/2024	1		
Aroclor-1016	6.45	0.500 μg/100 cm ²	10.00		64	37-120		
Aroclor-1260	7.17	0.500 μg/100 cm ²	10.00		72	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		59	21-123		
Surrogate: Decachlorobiphenyl			1.000		68	17-128		
LCS Dup (BCA0131-BSD1)		Pr	epared: 1/4	1/2024 Analyze	ed: 1/8/2024	ŀ		
Aroclor-1016	8.58 RO	0.500 μg/100 cm ²	10.00		86	37-120	28	25
Aroclor-1260	9.50 RO	0.500 μg/100 cm ²	10.00		95	45-121	28	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		<i>77</i>	21-123		
Surrogate: Decachlorobiphenyl			1.000		88	<i>17-128</i>		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:** NCSU PH

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/21/2023 09:00 Reported: 01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
SW846-8082A in Wipe			
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1262 [2C]	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025

Please see the specific Field of Testing (FOT) on www.emsl.com www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Notes and Definitions

Item	Definition
RO	RPD for this compound was outside of the control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MICHIGAN, IIIO. 200 Rt. 130 N Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.				AB6	762	0			10.00					NE: (800) 220-36 ALL: EnvChemistry	
Customer ID:	9					Billing ID:	50	m	as c	ustome	_		LIVIA	IL. Envenemistry	ZWEMSL.com
Company Name: 6205 y	ntec	Consul	tants	100-	- 6	Company			.,	V-1					
Contact Name: Jeff A					mation	Billing Co	ntact:								
Street Address: 1300			it st s	wite 300	Infor	Street Ad	dress:								
City, State, Zip: Chan Ot		16 282		Country: USA	l bu	City, State	e, Zip:				-			Country:	
Company Name: GWS Y Contact Name: JWA M Street Address: 1300 City, State, Zip: Wan 0+ Phone: 704-22				- Cy	Billing	Phone:									
[@ geosyn.	tec.com			Email(s) f	or Invoi	ce:							
Project Name/No: NCSM PH	1									P	urchase	Order:		La L	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		,	3			State wher nples collec		NC	State	of Connectice Comm	ut (CT) m nercial (1			tion: sidential (Non-Ta	axable)
Samples for Compliance?	No	If Yes, NPDE		a I No I	Other Specify)				PWS ID:					State Reporting Yes	Required? No
Samples Collected by (Check One):		EMSL	CLIENT	Samples Received Chi	illed?	Y	es	No	San	nple(s) Tempe Receipt (LA					
Sampled By Name: Anna	Bras	nd /Marc	Sampled By Sign	nature: Omay	Br.	and	1-	They	10	m	BONET			o. of Samples Shipment:	31
Turn-Around-Time (TAT)	Stand	ard Turn-Around	-Time:			ing TAT's are confirm TAT			oval.	1 Week	4	Days	3 Days	2 Days	1 Day
Client Sample ID	Grab	Date / Time Collected	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	EPA BOBZA/ Method 3540C		Lest 3:	led (Write	in test be	iow, then che	Test 7:	Test 8:	:)	Commer	nts
W-033 - 400 -1220202	X	12/20/23 15	25 0	4,5 AB	X										- 518
W-034-4026-1220203	X	12/20/23 1	505 0	4,5 AB	X			13							-100
W-035-406-12 202023	X	12/20/23	15 0	4.5 KB	X					7 -					
W-036-4126-12202023	X	12/20/23 15	20 0	4.5 AP	X	-1	1					- 4			
Preservative is a	cetor	Special Instru	ructions and/or Re	egulatory Requirements	(Sample	Specificati	ons, Pro	ocessing M	ethods, Lin	nits of Detection	on, etc.)			6.7	°C
Reporting Requirements:		Resu	lts Only	Results and QC		Reduc	ed Deliv	erables		Hzresults ED	D	Exc	cel		cribe Above)
Method of Shipment: Fed ex		100	2			Sample Co	ndition	Upon Rece	eipt:						
Relinquished by: Ma Kra Relinquished by:	nd		Date/Time: (2	120/23 17	30	Received Received	911.9	d H.	Col	leen fo	llac	lurs	Date/Time	121/03	9Am
ontrolled Document - COC-07 Chemistry R11 02	2/26/2021				1							2787	1 88	7 a - 7 2	EISTE A STILL

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

4867620

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

				Matrix	Preservative	List T	est(s) N	eeded (V	Vrite in tes	t below, th	en check	on sample	e line:)	
Client Sample ID	Сотр	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA BOBZA/ METhOG 3540C	, ·	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
037 - 413 - 1220 223		X	12/20/23 10	140 0	40	X								2
- 038 - 414A-12202023		X	14	45 0	40	X								3 2
-039 - 419-12202023	e g	Ø	14	55 0	400	X								
-040 - 424-1220 2028		X	15	00 0	40	\boxtimes								Lej"
-041 -500-12202023		X	14	00 0	400	X								
-042-509-12202023		X	13	50 0	400									
-043-510E-12102013		N	13	45 0	400	X								
						X								
nquished by:	PX	(s	ample Co	ndition Upo	n Receipt:					

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

MSL ANALYTICAL INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

200 Rt. 130 N Cinnaminson, NJ 08077

2043

EMSL ANALYTICAL, INC.						AP	676	20	4					20			NE: (800) 220	
Customer ID:								Billing I	D: S(ime	as	CIA	stome	v		EM	AIL: EnvChemi	stry2@EMSL.com
Company Name:	Tun	to	Coasul	tanto			-	Compa	ny Name:	01.00	013	000	SIVILLE					
Contact Name:	14	Thre	Consul	ICOIN			ation	Billing (Contact:									
Company Name: Contact Name: Street Address: City, State, Zip: Charle Phone: 704-23	2 (nint St	. 1/w.	+ 300		Inform	Street A	ddress:									
City, State, Zip:				0 /5 /	Country:		n g	City, Sta	ate, Zip:								Country:	
Phone: 704-73		(Billing	Phone:									Gournay.	,
			40				- "		for Invoi	ce:								
Project Name/No: 1/6 S(1)	DA	4	essynta	Com						- h	4		P	urchase	Order:	-		
EMSL LIMS Project ID:	1 /	-					US	State wh	ere			State of	Connectic	ut (CT) m	nust selec	t project loca	tion:	
(If applicable, EMSL will provide)				1 -9 3		2 - 1	san	nples coll	ected:	NC				nercial (sidential (Non-	-Taxable)
Samples for Compliance?		No	If Yes, NPDE		Yes		Other (Specify)	,				PWS D:					State Reportin	ng Required?
Samples Collected by (Check One	e):		EMSL	CLIENT	Samples	Received Cl	hilled?		Yes	N	0		e(s) Temp			pe or -		
Sampled By Name: More Webb, AN	NA	Bra	nol.	Sampled By S	Signature:			W	ma,	fran	~d	- Ke	sceipt (LA	BUNLT	1 2 2 2 2		o. of Samples Shipment:	31
Turn-Around-Time (TAT)		Stand	ard Turn-Around	-Time:	2 Weeks		The following	ng TAT's a	re subject	to Lab app	roval.		1 Week	4	Days	3 Days	2 Days	1 Day
				Matrix	Prese	ervative					in tes	t below	, then che	ck on sa	ample lin	e:)		9
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other		04		Test 2:	Test 3:	Test 4:	, t		Test 6:	Test 7:	Test 8:		Comm	ents
W-044-514-12202023		X	12/20/23	0-0/20	4-80					T	7			ПГ		\Box		
W-045-518-12202023		V	12/20/27	1	400			1		┪┼┝	+	H			-	H		
W-046-526-12202023	w =1	X	12/20/23		tor		\vdash			1 -	\dashv	H	 -		\dashv	$H \vdash$		4.50
W-047-532-12202023		X	12/2-/23		49-		\Box			9 9	$\dashv \vdash$	H			-	$H \vdash$		19/0
O () SE-COLORS			Special Instr	uctions and/or		equirements	(Sample	Specifica	tions, Pro	cessing N	Methods	, Limits	of Detection	on, etc.)				
	18	7.4.5																
Reporting Requirement	nts:		Resu	ts Only	Resu	ilts and QC		Redu	ced Deliv	erables		Hz	zresults ED	D	E	ccel	Other (D	escribe Above)
Method of Shipment: Fed & >	~			480	-	The D	h.	Sample (Condition	Upon Red	eipt:	7						
Relinquished by:		an	d	Date/Time:	123 1	730		Received	l by:				200			Date/Tim	e	
Relinquished by:	135			Date/Time:	(0)	100		Received	by:						THE STATE OF	Date/Tim	е	
Controlled Document - COC-07 Chemistry R	11 02/26	/2021				1			JEST W			-	41-21-21	-				

ACREE TO ELECTRONIC GIGNATURE (Du shooking Lagrantic signing this of 1000

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AB1671620

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

				Matrix	Preservative	List	Test(s) N	Needed (V	Vrite in te	st below,	then check	on sampl	e line:)	
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other	6PA-8082A)	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
			17/2./22	0=Other	Describe in Special Instructions	EPA-					<u></u>			
W-048-529-12202023		X	14/20/23	Other	497	1 _A			Ш					7 7 3 34
1-049-604-12202023		X	13/0		48-	IX.			-54					14,
N-050-1005-17202023		X	12/20/23		42									, t
1-051-607-12202023		X	12/20/23		49-	V	- 1							2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
J-052-608 P-12202023		X	12/20/27		49									
N-053-613-12202023		X	12/20/27		48-	Q								
J-054-616A-12202023		X	13/20/23	V	4/87	X							47 T	1
			L	- 12			Sample C	ondition Up	on Receipt	1 EUG:		les.		-
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AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

3063

200 Rt. 130 N

200 Rt. 130 N Cinnaminson, NJ 08077

AB67620 PHONE: (800) 220-3675

	To						100	V IV	0.0							E	-MAII · F	nyChemistr	y2@EMSL.com
_	Customer ID:								Billing ID:		Same	2 0	s Cu	stom	er		25.	il volicinisti	72@EMOE.com
atior	Company Name: Geos	yn	te	c Con	sultan)	2 +		- E	Company	Name:			747		7	1.		17.	d'a
Customer Information	Contact Name: 3	ses	25	Ahrem	5			Information	Billing Cor	tact:								-0440	
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ome	City, State, Zip: Charl	OHC	_ ^	UC 280	203	Country:			City, State	Zip:							C	ountry:	
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					Matrix	Preservative		L	ist Test(s)	Neede	d (Write in	test belo	w, then che	ck on sa	mple line:)			
		Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	T & Y	9 25	Test 2:	lest 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:			Comme	nts
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	+ 2				ructions and/or F	Regulatory Requireme	ents (Sa	ample	Specificatio	ns, Proc	essing Meth	nods, Limit	s of Detection	on, etc.)					
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Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only

AB671020

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

			Special Inst	tructions and/or F	Regulatory Requirement	ts (Sample	Specificati	ons, Proce	ssing Metho	ods, Limits o	T Detection,	etc.)		
				Matrix	Preservative	List	Test(s) I	Needed (I	Write in te	st below, t	hen check	on sampl	e line:)	9
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA 8082A Method 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
1-059-734-12202023			1100	0	none	X								
1-60-742-12202023			1105	0	none	X								
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AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 09, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/22/2023. The results are tabulated on the attached pages for the following client designated project:

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

NCSU PH

The reference number for these samples is EMSL Order #: <u>AB67733</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

on McKonna Laboratory Managor or other approved signatory

Owen McKenna Laboratory Manager or other approved signatory

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Cover Letter	1
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Sample Results	8
Quality Assurance Results	45
Certified Analyses	47
Certifications	47
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200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Condition on Receipt

Cooler ID: Default Cooler Temperature: 1.0 °C

Custody Seals Y

Containers Intact Y

COC/Labels Agree Y

Preservation Confirmed Y

EMSL Analytical, Inc. 200 Route 130, Cinnaminson, NJ, 08077

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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(704) 227-0850

jahrens@geosyntec.com

EMSL Order ID: 012367733 LIMS Reference ID: AB67733 EMSL Customer ID: GSCH75

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67733-01	W-030-325-12212023	Wipe	12/21/2023	12/22/2023
AB67733-02	W-025-300D-12212023	Wipe	12/21/2023	12/22/2023
AB67733-03	W-031-326S-12212023	Wipe	12/21/2023	12/22/2023
AB67733-04	W-026-309-12212023	Wipe	12/21/2023	12/22/2023
AB67733-05	W-024-310L-12212023	Wipe	12/21/2023	12/22/2023
AB67733-06	W-029-313-12212023	Wipe	12/21/2023	12/22/2023
AB67733-07	W-027-312-12212023	Wipe	12/21/2023	12/22/2023
AB67733-08	W-028-312-12212023	Wipe	12/21/2023	12/22/2023
AB67733-09	W-023-222-12212023	Wipe	12/21/2023	12/22/2023
AB67733-10	W-022-220-12212023	Wipe	12/21/2023	12/22/2023
AB67733-11	W-014-218-12212023	Wipe	12/21/2023	12/22/2023
AB67733-12	W-020-213-12212023	Wipe	12/21/2023	12/22/2023
AB67733-13	W-019-210-12212023	Wipe	12/21/2023	12/22/2023
AB67733-14	W-021-216-12212023	Wipe	12/21/2023	12/22/2023
AB67733-15	W-018-208Q-12212023	Wipe	12/21/2023	12/22/2023
AB67733-16	W-015-201-12212023	Wipe	12/21/2023	12/22/2023
AB67733-17	W-016-202-12212023	Wipe	12/21/2023	12/22/2023
AB67733-18	W-017202-12212023	Wipe	12/21/2023	12/22/2023
AB67733-19	W-007-120-12212023	Wipe	12/21/2023	12/22/2023
AB67733-20	W-005-117-12212023	Wipe	12/21/2023	12/22/2023
AB67733-21	W-006-117-12212023	Wipe	12/21/2023	12/22/2023
AB67733-22	W-008-125-12212023	Wipe	12/21/2023	12/22/2023
AB67733-23	W-011-197-12212023	Wipe	12/21/2023	12/22/2023
AB67733-24	W-009-127-12212023	Wipe	12/21/2023	12/22/2023
AB67733-25	W-010-130-12212023	Wipe	12/21/2023	12/22/2023
AB67733-26	W-002-101-12212023	Wipe	12/21/2023	12/22/2023
AB67733-27	W-014-103B-12212023	Wipe	12/21/2023	12/22/2023
AB67733-28	W-004-103-12212023	Wipe	12/21/2023	12/22/2023
AB67733-29	W-003-102A-12212023	Wipe	12/21/2023	12/22/2023
AB67733-30	W-012-198-12212023	Wipe	12/21/2023	12/22/2023
AB67733-31	W-064-P1001A-12212023	Wipe	12/21/2023	12/22/2023
AB67733-32	W-063-P1000A-12212023	Wipe	12/21/2023	12/22/2023
AB67733-33	W-065-P1004-12212023	Wipe	12/21/2023	12/22/2023
AB67733-34	W-066-P1003-12212023	Wipe	12/21/2023	12/22/2023
AB67733-35	W-067-116-12212023	Wipe	12/21/2023	12/22/2023
AB67733-36	W-068-100-12212023	Wipe	12/21/2023	12/22/2023
AB67733-37	W-013-199-12212023	Wipe	12/21/2023	12/22/2023

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012367733 LIMS Reference ID: AB67733 EMSL Customer ID: GSCH75

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67733-02	W-025-300D-12212023				12/21/23 08:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	74.6	D	μg/100 cm²	01/03/2024 21:57
Lab ID	Client ID				Sampled
AB67733-05	W-024-310L-12212023				12/21/23 09:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.87		μg/100 cm²	01/03/2024 16:42
Lab ID	Client ID				Sampled
AB67733-06	W-029-313-12212023				12/21/23 09:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.763		μg/100 cm²	01/03/2024 17:03
Lab ID	Client ID				Sampled
AB67733-08	W-028-312-12212023				12/21/23 09:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.529		μg/100 cm²	01/03/2024 17:45
Lab ID	Client ID				Sampled
AB67733-09	W-023-222-12212023				12/21/23 09:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.733		μg/100 cm²	01/03/2024 18:06
Lab ID	Client ID				Sampled
AB67733-10	W-022-220-12212023				12/21/23 10:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	9.49		μg/100 cm²	01/03/2024 18:27
Lab ID	Client ID				Sampled
AB67733-11	W-014-218-12212023				12/21/23 10:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.644		μg/100 cm²	01/03/2024 18:48



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com LIMS Reference ID: AB67733 **EMSL Customer ID:** GSCH75

EMSL Order ID: 012367733

NCSU PH **Project Name:**

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67733-12	W-020-213-12212023				12/21/23 10:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.673		μg/100 cm²	01/03/2024 19:09
Lab ID	Client ID				Sampled
AB67733-27	W-014-103B-12212023				12/21/23 12:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	7.40		μg/100 cm²	12/27/2023 14:44
Lab ID	Client ID				Sampled
AB67733-30	W-012-198-12212023				12/21/23 13:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.592		μg/100 cm²	12/27/2023 15:47
Lab ID	Client ID				Sampled
AB67733-33	W-065-P1004-12212023				12/21/23 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2.87		μg/100 cm²	12/27/2023 16:51
Lab ID	Client ID				Sampled
AB67733-34	W-066-P1003-12212023				12/21/23 14:35
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	7.88		μg/100 cm²	12/27/2023 17:12
Lab ID	Client ID				Sampled
AB67733-35	W-067-116-12212023				12/21/23 14:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.12		μg/100 cm²	12/27/2023 17:33
Lab ID	Client ID				Sampled
AB67733-36	W-068-100-12212023				12/21/23 14:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.95		μg/100 cm²	12/27/2023 17:54



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67733-37	W-013-199-12212023				12/21/23 13:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.573		μg/100 cm²	12/27/2023 18:15



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/22/2023 10:20

Reported: 01/09/2024 12:07

Sample Results

Sample: W-030-325-12212023 AB67733-01 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			21-123		01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	78%			17-128		01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-025-300D-12212023 AB67733-02 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	74.6	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	95%			21-123		01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	109%			17-128		01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A



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Charlotte, NC 28203-4168

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-031-326S-12212023 AB67733-03 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	79%			17-128		01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-026-309-12212023 AB67733-04 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	77%			17-128		01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-024-310L-12212023 AB67733-05 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.87		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	74%			17-128		01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A



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Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-029-313-12212023 AB67733-06 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.763		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	77%			17-128		01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-027-312-12212023 AB67733-07 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	55%			21-123		01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	67%			17-128		01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-028-312-12212023 AB67733-08 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.529		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

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Project Name:

NCSU PH

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-023-222-12212023 AB67733-09 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.733		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-022-220-12212023 AB67733-10 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	9.49		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			21-123		01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	83%			17-128		01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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Project Name:

NCSU PH

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-014-218-12212023 AB67733-11 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.644		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	61%			21-123		01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-020-213-12212023 AB67733-12 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.673		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	57%			21-123		01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	71%			17-128		01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A



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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-019-210-12212023 AB67733-13 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-021-216-12212023 AB67733-14 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	73%			17-128		01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A



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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-018-208Q-12212023 AB67733-15 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			21-123		01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	83%			17-128		01/02/24 10:48	01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A



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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-015-201-12212023 AB67733-16 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			21-123		01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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Charlotte, NC 28203-4168

(704) 227-0850

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Project Name:

NCSU PH

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-016-202-12212023 AB67733-17 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	55%			21-123		01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	62%			17-128		01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-017--202-12212023 AB67733-18 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	81%			17-128		01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-007-120-12212023 AB67733-19 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A



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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-005-117-12212023 AB67733-20 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	57%			21-123		12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	71%			17-128		12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-006-117-12212023 AB67733-21 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	84%			17-128		12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-008-125-12212023 AB67733-22 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			21-123		12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	74%			17-128		12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-011-197-12212023 AB67733-23 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			21-123		12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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Charlotte, NC 28203-4168

(704) 227-0850

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Project Name:

NCSU PH

Emily Stressman

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Received: 12/22/2023 10:20 **Reported:** 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-009-127-12212023 AB67733-24 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-010-130-12212023 AB67733-25 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			21-123		12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	75%			17-128		12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-002-101-12212023 AB67733-26 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	52%			21-123		12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	70%			17-128		12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-014-103B-12212023 AB67733-27 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	7.40		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	69%			21-123		12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-004-103-12212023 AB67733-28 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			21-123		12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

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(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-003-102A-12212023 AB67733-29 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	61%			21-123		12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	89%			17-128		12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A



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Charlotte, NC 28203-4168

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Project Name:

NCSU PH

Emily Stressman

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-012-198-12212023 AB67733-30 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.592		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	100%			17-128		12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A



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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-064-P1001A-12212023

AB67733-31 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	91%			17-128		12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A



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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-063-P1000A-12212023

AB67733-32 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			21-123		12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	95%			17-128		12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-065-P1004-12212023 AB67733-33 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	2.87		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	95%			17-128		12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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Project Name:

NCSU PH

Emily Stressman

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Received: 12/22/2023 10:20 **Reported:** 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-066-P1003-12212023

AB67733-34 (Wipe)

Analyte	Result	·		Prep/Analyst Initials	Prep Method	Analytical Method				
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	7.88		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	94%			17-128		12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A



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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-067-116-12212023 AB67733-35 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time			Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.12		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	91%			17-128		12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A



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EMSL-CIN-01

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Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-068-100-12212023 AB67733-36 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time			Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.95		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	88%			17-128		12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-013-199-12212023 AB67733-37 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.573		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	75%			21-123		12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	96%			17-128		12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

EMSL Sales Rep: Received: Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0824 - SW846 3540C								
Blank (BBL0824-BLK1)		Pr	epared: 12/26	5/2023 Analyzed:	12/28/2	2023		
Aroclor-1016	ND	0.500 μg/100 cm	2					
Aroclor-1221	ND	0.500 μg/100 cm	2					
Aroclor-1232	ND	0.500 μg/100 cm	2					
Aroclor-1242	ND	0.500 μg/100 cm	2					
Aroclor-1248	ND	0.500 μg/100 cm	2					
Aroclor-1254	ND	0.500 μg/100 cm	2					
Aroclor-1260	ND	0.500 μg/100 cm	2					
Aroclor-1262	ND	0.500 μg/100 cm	2					
Aroclor-1268	ND	0.500 μg/100 cm	2					
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		61	21-123		
Surrogate: Decachlorobiphenyl			1.000		73	17-128		
LCS (BBL0824-BS1)		Pr	epared: 12/26	5/2023 Analyzed:	12/28/2	2023		
Aroclor-1016	6.92	0.500 μg/100 cm	2 10.00		69	37-120		
Aroclor-1260	7.91	0.500 μg/100 cm	2 10.00		79	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		66	21-123		
Surrogate: Decachlorobiphenyl			1.000		80	17-128		
LCS Dup (BBL0824-BSD1)		Pr	epared: 12/26	5/2023 Analyzed:	12/28/2	2023		
Aroclor-1016	7.09	0.500 μg/100 cm	2 10.00		71	37-120	2	25
Aroclor-1260	8.35	0.500 μg/100 cm	2 10.00		83	45-121	5	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		63	21-123		
Surrogate: Decachlorobiphenyl			1.000		84	17-128		

Batch: BCA0010 - SW846 3540C

Blank (BCA0010-BLK1)		Prepared: 1/2/2024 Analyzed: 1/3/2024
Aroclor-1016	ND	0.500 μg/100 cm ²
Aroclor-1221	ND	0.500 μg/100 cm ²
Aroclor-1232	ND	0.500 μg/100 cm ²
Aroclor-1242	ND	0.500 μg/100 cm ²
Aroclor-1248	ND	0.500 μg/100 cm ²
Aroclor-1254	ND	0.500 μg/100 cm ²
Aroclor-1260	ND	0.500 μg/100 cm ²
Aroclor-1262	ND	0.500 µg/100 cm ²

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

%REC

RPD

NCSU PH **Project Name:**

Spike

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

Source

Quality Control (Continued)

Reporting

GC-SVOA (Continued)

Analyte	Result Qual	Limit Units	Level	Result	%REC	Limits	RPD	Limit
Batch: BCA0010 - SW846 354	40C (Continued)							
Blank (BCA0010-BLK1)			Prepared: 1/2	2/2024 Analyz	ed: 1/3/2024	1		
Aroclor-1268	ND	0.500 μg/100 cm	2					
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		67	21-123		
Surrogate: Decachlorobiphenyl			1.000		73	17-128		
LCS (BCA0010-BS1)			Prepared: 1/2	2/2024 Analyz	ed: 1/3/2024	1		
Aroclor-1016	7.47	0.500 μg/100 cm	10.00		75	37-120		
Aroclor-1260	8.43	0.500 μg/100 cm	2 10.00		84	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		68	21-123		
Surrogate: Decachlorobiphenyl			1.000		72	17-128		
LCS Dup (BCA0010-BSD1)			Prepared: 1/2	2/2024 Analyz	ed: 1/3/2024	1		
Aroclor-1016	7.44	0.500 μg/100 cm	10.00		74	37-120	0.4	25
Aroclor-1260	8.45	0.500 μg/100 cm	2 10.00		85	45-121	0.3	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		65	21-123		
Surrogate: Decachlorobiphenyl			1.000		71	17-128		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:** NCSU PH

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
SW846-8082A in Wipe			
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1262 [2C]	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Notes and Definitions

Item Definition

D	Analyte was reported from a dilution run.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor

DF Dilution Factor

MDL Method Detection Limit.

ND Analyte was NOT DETECTED at or above the detection limit.

Q Qualifier

RL Reporting Limit

%REC Percent Recovery

RPD Relative Percent Difference

Source Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Page 10x 7 EME EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MINITYHOUI, IIIO. 200 Rt. 130 N

Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.	0							AB67	733						ONE: (800) 220		
Customer ID:								na ID:	same	CA C	- (14	(ton	D QA		MAIL: EnvChem	istry2@	∂EMSL.co
Company Name: Geos	yn	tec	Consu	utants			Cor	mpany Name:	Jeorne	vis	i vi	IUN		nro			
Company Name: Geos Contact Name: Jeh Street Address: 1300 City, State, Zip: Char Phone: 704 - 2						Information	Billi	ng Contact:									
Street Address: 13 00	5	ou	th Min	t st su	vite 300		Stre	eet Address:									
City, State, Zip: Char			NU 2º		Country: USA	- Pu	City	, State, Zip:		-					Country:		
Phone: 704 - 7	22-	7 -	0850			Billing	Pho	one:									
Email(s) for Report: JA	hn	ens	@ geos	Intec.co	om		Ema	ail(s) for Invoi	ce:								
Project Name/No: NCSV											P	urchase	Order:				
EMSL LIMS Project ID: (If applicable, EMSL will provide)								where collected:	NU	State o	f Connecticu	t (CT) m			cation: Residential (Nor	ı-Taxa	able)
Samples for Compliance? Yes		No	If Yes, NPDE		s No	Other (Specify))			PWS ID:					State Reporti		quired?
Samples Collected by (Check One	e):		EMSL	CLIENT	Samples Received C	hilled?	Γ	Yes	No		le(s) Tempe			5 2	100 1000		
Sampled By Name: Anna Brand Ma	arc	Wŧ	bb	Sampled By Sign	nature:	//	1	En)	MIL	bl	eceipt (LA	3 ONLY)			No. of Samples in Shipment:		
Turn-Around-Time (TAT)	-		ard Turn-Around		2 Wooks	The follow Call lab to	ing TA	T's are subject m TAT before s	to Lab approval	i. [1 Week	4	Days	3 Days	2 Days	T	1 Day
				Matrix	Preservative	l	List T	est(s) Need	led (Write in	test belov	w, then che	ck on sa	mple line:	:)	*		pal.
Client Sample ID	Comp	Grab	Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	EPA 8082A	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:		Comm	ients	
N-030-325-12212023		X	12/21/23 08	25 0	None	X	T					$\top \Gamma$		\neg	10×10cr	20 (0	100
J-025-300D-12212023		X	1 09		1	X			1111				+++	-	1021001	riv	nec
1-031-3265-12212023		X		55		X							+++	\dashv			
V-026-309-12212023		X	1 090	5 1	1	X								1		,	
FX#	17	884		uctions and/or Re	gulatory Requirements	s (Sample	e Spec	cifications, Pro	ocessing Metho	ods, Limits	s of Detection	n, etc.)					
Reporting Requirement		00		ts Only	Results and QC		R	Reduced Deliv	erables	Н	zresults EDI)	Exc	el	Other /F)oscrib	be Above)
ethod of Shipment: FEDE	×						Sam	ple Condition	Upon Receipt					77.5°)	L Journey (E	.550110	, c ribore)
elinquished by:	ha	na		Date/Time: / 2	121/23 170	D		eived by:	Morne	ely	,			Date/Fig		10:0	20 a n
ontrolled Document - COC-07 Chemistry R	11 02/26	5/2021					1,000	Jivod by.		0				Date/Tir			
Total and the state of the stat	11 02/20	3/2021	AGREE TO	EI ECTRONIC SIGNA	TIIDE /Direbacking Lance	ta sinala .			250 (25) (2					1	1.0°C		

Page 2 of 7

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

				Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in te	st below, t	then check	on sampl	le line:)	
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA BOBZA Method 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	- est 6:	Comments
N-024-310L-1221		X	12/21/23 00	110 0	None	\times								lox10 cm wip
N-029-313-1221202		X	1 092	7	1	X								
V-027-312-12212023		X	092	5		X								
V-028-312-12212023		X	092	5		X								
V-023-222-12210		X	094	5		X								7.3
N-022-220-1221202	3	X	095	υ		X								
N-014-218-12212023		X	100	J		X	П	П		П	П	П		
AB)														
Method of Shipment:						1	Sample Co	ondition Upo	on Receipt:			1		
elinquished by:	? ra	nd	/	Date/Time: 2 21	123 1700		Received I	y:					Date	/Time
elinquished by:				Date/Time:			Received I	by:					Date	/Time

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL EMSL ANALYTICAL, INC.

Page 3 OF 7

Environmental Chemistry Chain of Custody EMSL Order Number / Lab Use Only

LIVIOL AHAIYUGGI. IIIO. 200 Rt. 130 N

Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com Customer ID: Billing ID: same as customer into Company Name: Company Name: GEOSYNTEL Consultants Contact Name: JEH Ahrens Billing Contact: Street Address: 1300 South Mint St Suite 300 Street Address: City, State, Zip: Country: Billing City, State, Zip: Chanotte, NC 20203 USA Country: Phone: Phone: 704-227-0050 Email(s) for Report: Email(s) for Invoice: JAhrens @ geosyntec.com Project Purchase Order: NCSU PH Name/No EMSL LIMS Project ID US State where State of Connecticut (CT) must select project location: (If applicable, EMSL will provide) samples collected: NO Commercial (Taxable) Residential (Non-Taxable) Other Samples for **PWS** If Yes, for State Reporting Required? Yes No Yes Compliance? NPDES? (Specify) ID: Yes No Samples Received Chilled? Sample(s) Temperature Upon Samples Collected by (Check One): **EMSI** CLIENT Yes No Receipt (LAB ONLY) Sampled By Name: Sampled By Signature: No. of Samples Brand Anna Brand Imarc Webb in Shipment: The following TAT's are subject to Lab approval. Turn-Around-Time (TAT) Standard Turn-Around-Time: 2 Weeks 4 Days 1 Week 3 Days 2 Days Call lab to confirm TAT before submittal: 1 Day Matrix Preservative List Test(s) Needed (Write in test below, then check on sample line:) \$002A1 1 HCL 35406 W=Water Date / Time 2 HNO3 S=Soil Client Sample ID 3 H2SO4 Collected Comments A=Air 4 ICE est SL=Sludge 5 Other O=Other BPA Describe below in Special Instructions 12 W-020-213-12212023 12/21/23 1005 None 10×10cm WIPE 13 W-019-210-12212023 1015 14 W-021-216-12212023 1020 KW-018-208Q-12212023 1030 Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Reporting Requirements: Results Only Results and QC Reduced Deliverables Hzresults EDD Excel Other (Describe Above) Method of Shipment: Sample Condition Upon Receipt: Relinquished by: Date/Time: Received by: Date/Time Relinquished by: Date/Time: Received by: Date/Time Controlled Document - COC-07 Chemistry R11 02/26/2021 AGREE TO ELECTRONIC SIGNATURE (Durchooking Lagrantia stanta att of the Co. . . .

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC. Page 407

		1	EMSL Order Number / Lab Ose Only	
Page	408	1		

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody	are only	necessar	y if needed for add Special Inst	itional sample informations and/or Re	ation egulatory Requiremen	ts (Sample	Specification	ons, Proces	ssing Metho	ds, Limits o	of Detection,	etc.)				
				Matrix	Preservative	List	Test(s) N	leeded (V	e line:)							
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA 5082A / METHOD 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments		
W-015-201-12212023		X	12/21/23	1040 O	None	X								loxio cm vipe		
N-016-202-12212023		X	1045			X										
W-017-202-12212023		X	1045			X										
W-007-120-12212023		X	1110			X										
N-00 5 -117-12212023		X	1120			X										
W-006-117-12212023		X	1120			X										
W-008-125-12212023		X	1135	V		X										
AD)																
Method of Shipment:	DE	X			1		Sample C	ondition Up	on Receipt:							
Relinquished by:	BI	ar	d	Date/Time:	123 1700	>	Received	by:					Date	e/Time		
Relinquished by:				Date/Time:	, / 0		Received	by:					Date	/Time		

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signalure.)

EMSL ANALYTICAL, INC.

Page 5 of 7

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MILLIYUGAI, IIIO.

200 Rt. 130 N

Cinnaminson, NJ 08077

PHONE: (800) 220-3675

Customer ID:						Т	-	Billing ID:						Е	MAIL:	EnvChemistry	2@EMSL.com					
6 Company Name:		- 1 -			_		Sar	ne a	SCUST	bmer	inti											
Contact Name: Taw	Company Name: Geosyntec Consultants Contact Name: Jeff Ahrens Street Address: 1300 South Mint St Suite 300 City, State, Zip: Charlotte, NC 28203 Phone: 704-227-0850										Company Name:											
Street Address: 12			_	E	Billing Contact:																	
City, State, Zip:				St Su		Info	Street Address:															
Phone: The Phone	10,1	VC 282		≛ٍL	City, State, Zip:							C	Country:									
F							-	Phone:														
Project	hr	ens	(geo.	syntec.	ion		-	Email(s) for Invoic	e: 													
Name/No: NCSM	Pt	1					- 1				Pi	urchase	e Order:									
EMSL LIMS Project ID: (If applicable, EMSL will provide)			10					tate where		State	of Connecticu	t (CT)	must select	project lo	cation:							
Samples for	_	_					amp	les collected:	NC	′			(Taxable)			tial (Non-Ta	xable)					
Compliance? Yes		No	If Yes, NPDE		00	Other (Special	fy)			PWS ID:						Reporting R						
Samples Collected by (Check One	e):		EMSL	CLIENT	Samples Received C	hilled?		Yes	No	Samp	ole(s) Tempe	rature	Upon	W.S.	П,	/es	No					
Sampled By Name:	10.			Sampled By Sig	gnature:			m			Receipt (LAE				No. of S	amples						
fmna Brand Turn-Around-Time (TAT)	IM			an	1		unina	TAT's are subject to	2	11/1	Ma	_			in Shipm		120					
rum-Around-Time (TAT)		Stand	ard Turn-Around	-Time:	2 Weeks	Call lab	to cor	nfirm TAT before su	o Lab approv omittal:	al.	1 Week		4 Days	3 Days	,	2 Days	1 Day					
				Matrix	Preservative		Lis	t Test(s) Neede	d (Write in	test belo	w, then chec	k on s	ample line.	:)								
Client Sample ID	Сотр	Grab	Date / Time Collected S=Soil A=Air SL=Sludge O=Other		1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	DPA SUSTA	Method 3540C	Test 3:	Test 4:	Test 5:	Test 6:		Test 7: Test 8:			Comments						
W-011-197-12212023		X	12/21/23 114	0 0	None	X						T		$\neg \vdash$	1 m 1 . 1		i .00					
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EMSL ANALYTICAL, INC.

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Page	U			EMSL Order Number / Lab Use Only	

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

dditional Pages of the Chain of Custody			Special Inst	ructions and/or R	egulatory Requirement	s (Sample	Specification	ns, Proces	sing Metho	ds, Limits o	f Detection,	etc.)		
				Matrix	Preservative	List	Test(s) N	eeded (N	e line:)					
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA BOSZA/ Method 3540C	77 160	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
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AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL ANALYTICAL, INC.

Page 7 OF 7

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MININGER, IIIO. 200 Rt. 130 N

Cinnaminson, NJ 08077

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