SITE INVESTIGATION REPORT

"S YAFFA'S SONS INC"

616 Chestnut Street et al.
City of Camden, Camden County, NJ 08103
Block 331

NJDEP PI # 025881, Activity # LSR160001
Case Tracking # 155674

Prepared for:

City of Camden Redevelopment Agency
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Montrose Project # 11595-03, Task 3a
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1.0 EXECUTIVE SUMMARY

1.1 Site Description and History

This report presents information pertaining to the Site Investigation (SI) conducted by Montrose Environmental Solutions, Inc. (Montrose) on behalf of the City of Camden Redevelopment Agency (CRA).

The property (the Site) associated with New Jersey Department of Environmental Protection (NJDEP) Contaminated Site Remediation & Redevelopment Program (CSRRP) Program Interest (PI) # 025881, Activity # LSR1600001, consists of 20 parcels that comprise the majority of Block 331. The main address associated with this case is 616 Chestnut Street et al., Camden, Camden County, NJ 08103. The Site is vacant commercial property which is owned by the City of Camden.

"S YAFFA'S SONS INC"	
CSRRP PI #	PI # 025881
CSRRP Activity #	LSR160001
Solid Waste PI #	U2318
Case Tracking #	155674
Incident ID #s	96-04-19-0840-37 13-03-27-1439-31 21-03-02-1753-18 21-04-12-1021-39 21-07-15-1018-22 23-03-27-1509-15
Regulated UST Closure #	N02-1710
Address	616 Chestnut Street et al., Camden, NJ 08103
Location	20 parcels on Block 331
Property Size	1.61 acres (includes 6 additional parcels not traditionally associated with this PI #)
Coordinates	X=319127, Y=400789
Property Owner	City of Camden
PRCR	City of Camden
Responsible Party	S Yaffa and Sons, Inc., Weyhill, WRH 1, LLC, et al.

The history and status of PI # 025881, Activity # LSR160001, can be summarized as follows:

- On March 30, 2022, Montrose was retained by CRA to provide environmental consulting services and Licensed Site Remediation Professional (LSRP) oversight related to the investigation and remediation of the entire Site.
- CRA retained The Ambient Group, LLC (Ambient) to remove stockpiled waste (soil, demolition debris, and trash) beginning in March 2023 to June 2024.
- On November 17, 2023, Montrose submitted a Case Creation Form to NJDEP, proposing clarification of which lots are included in PI # 025881, and requesting creation of a new PI # specific to additional lots on Block 324 that were formerly associated with the Site operation and ownership. For the purposes of this report, the Site is as described in

Montrose's August 14, 2024 Preliminary Assessment Report (PAR) - consisting of 20 parcels associated with PI # 025881, plus 6 parcels requested for inclusion by the City of Camden.

- Montrose issued an August 14, 2024 PAR following NJDEP's March 2018 *Preliminary Assessment Technical Guidance* (Version 1.3). Montrose's PAR identified 15 Areas of Concern (AOCs), and Montrose recommended conducting an SI to address 9 of the 15 AOCs identified.
- The SI was conducted under the direction of Christopher D. Valligny, LSRP of Record (LSRP # 629039) and in accordance with NJDEP regulations and guidance. The scope of the investigation included soil borings, test pits, soil sampling, well installation, and groundwater sampling to address the 9 AOCs.
- The regulatory timeframes to complete the Remedial Investigation and Remedial Action for this case were March 1, 2015, and February 28, 2018, respectively. Note that the City of Camden certified to NJDEP that they are a local governmental entity exempt from Spill Act liability, and therefore exempt from meeting these timeframes.

1.2 Site Investigation Findings

Four soil borings, eight test pits, and three permanent monitoring wells were installed at the Site in September 2024 to investigate nine AOCs identified in Montrose's August 14, 2024 PAR. Historical fill was observed in the upper one to three feet across the Site. Soil exceedances were generally limited to shallow soil samples collected at 1-1.5 feet bgs. SI sampling throughout the Site conducted in September 2024 reported EPH results ranging from non-detect to 4,000 milligrams per kilogram (mg/kg). A few Volatile Organic Compounds (VOCs) were detected above laboratory Reporting Limits (MTBE, TBA, TCE, etc.), but no VOC exceedances of NJDEP Soil Remediation Standard (SRS) were reported in soil. A total of seven shallow soil samples reported Semi-Volatile Organic Compounds (SVOCs) exceeding a NJDEP Soil Remediation Standard (SRS). Polychlorinated Biphenyls (PCBs) exceeded NJDEP SRS in several shallow soil samples. All soil Per- and Polyfluoroalkyl Substances (PFAS) meet the interim Direct Contact SRS. Synthetic Precipitation Leaching Procedure (SPLP) was performed to calculate a Site-Specific SRS for the Migration to Groundwater (MGW) Pathway (SS-SRSMGW). Two samples exceeded the calculated SS-SRSMGW.

The groundwater table was measured at approximately 9 to 10 feet bgs in monitoring wells installed at the Site. Groundwater flow direction is estimated to be to the southeast, based on calculated static groundwater table elevations at the wells. If confirmed by multiple gauging events, MW-1 would be the up-gradient well and represent background groundwater conditions coming on to the Site. No exceedances were reported in MW-1.

Groundwater samples (analyzed for VOCs, SVOCs, and Metals only) reported exceedances of Metals including Aluminum, Arsenic, Iron, Lead, Manganese, and Sodium. Note that the GWQS for Aluminum, Iron, Manganese, and Sodium do not apply at this Site. These limits are based on secondary drinking water characteristics (such as taste and odor), rather than a health risk. The shallow groundwater in the area of the Site is not used for potable purposes. Arsenic and Lead

exceedances were only reported from MW-2, at the former location of the Yaffa scrap metal and junk pile (AOC-6d).

1.3 Site Investigation Conclusions

No exceedances of Total EPH, VOCs, Herbicides/Pesticides, or Cyanide were reported. The majority of soil exceedances were reported in the shallow soil samples, and include 5 PAHs, 2 SVOCs, Total PCBs, and 10 Metals. Two samples exceeded the calculated SS-SRSMGW for PFAS compounds. The only exceedances reported from the deep soil samples were Nickel and Mercury in test pit TP-8 from 8 to 8.5 feet bgs.

In groundwater, Arsenic and Lead exceedances were only reported from MW-2 in one sampling event, at the former location of the Yaffa scrap metal and junk pile (AOC-6d). This well is located at the former location of the Yaffa scrap metal and junk pile and Weyhill's Pile B (AOC-6a and AOC-6d). Additional sampling is recommended to confirm these exceedances, but it appears they are delineated by MW-1 (up-gradient to the northwest) and MW-3 (cross-gradient to the southwest).

The Remedial Investigation will need to include a deeper examination of which exceedances are related to which AOCs (location-specific AOCs versus site-wide AOCs). This is especially true of historical fill. Additional samples may be needed to tease out the PAH and Metal exceedances related to fill material versus long-term industrial use, spills, and discharges.

Montrose recommends Remedial Investigation activities at 7 of the 9 AOCs.

2.0 PHYSICAL SETTING

Montrose reviewed mapping data on the NJ-GeoWeb Geographic Information System (GIS) application (Version 3.0) provided by NJDEP's Bureau of Information Systems (NJ-GeoWeb), United States Geological Survey's *Bedrock Geologic Map of Central and Southern New Jersey* (1998), NJ Geological Survey's *Physiographic Provinces of New Jersey* circular, and other sources to describe the location and setting of the Site.

The Site is located in the City of Camden, in Camden County, New Jersey. Geographic coordinates for a central location at the Site are X=319127, Y=400789 (NAD 83 NJ State Plane, US feet). For the purposes of the PA Report, the "Site" was defined as an approximately 1.61-acre "Site" comprised of 26 parcels. Of the 26 parcels, 20 parcels are associated with NJDEP CSRRP PI # 025881 and an additional six parcels (Lots: 46, 86, 87, 89, 113, and 114) were requested to be included in the PA. The 26 Site parcels described in this report total approximately 1.61 acres (**Figure 1**).

According to Camden County tax records, the 26 parcels is described as follows:

Block #	Lot #	Property Address
331	**41**	SS Chestnut 60 E 6th Street (formerly 606-608)
	46	602 Chestnut Street
	48	SS Chestnut 60 E 6th Street (formerly 610)
	49	SS Chestnut 60 E 6th Street (formerly 610)
	50	SS Chestnut 60 E 6th Street (formerly 614-616)
	52	SS Chestnut 60 E 6th Street (formerly 620)
	54	624-644 Chestnut Street (formerly 624)
	55	624-644 Chestnut Street (formerly 626)
	56	624-644 Chestnut Street (formerly 628)
	57	624-644 Chestnut Street (formerly 630)
	58	624-644 Chestnut Street (formerly 632)
	59	624-644 Chestnut Street (formerly 634)
	60	624-644 Chestnut Street (formerly 636)
	61	624-644 Chestnut Street (formerly 638)
	62	624-644 Chestnut Street (formerly 640)
	63	624-644 Chestnut Street (formerly 642)
	64	624-644 Chestnut Street (formerly 644)
	65	624-644 Chestnut Street (formerly 646)
	67	NW Sycamore Street & 7th Street
	75	619 Sycamore Street (formerly 611-633)
	80	601-609 Sycamore Street
	86	1114 South 6th Street

Block #	Lot #	Property Address
	87	1112 South 6th Street
	89	1108 South 6th Street
	113	602 ½ Chestnut Street
	114	604 Chestnut Street

Note: Gray shaded are additional parcels not included with NJDEP CSRRP PI # 025881.

2.1 Site Description / Land Use

The Site is surrounded by residential and commercial properties and roadways, including Chestnut Street, Sycamore Street, S 6th Street, and S 7th Street.

The Site parcels have been occupied since at least 1891 and have included a mixture of residential and commercial uses. The "S Yaffa & Sons Inc" facility that initiated the environmental case and is the subject of this report dates back to at least 1927, based on a City Directory image that identified "*Yaffe Sami Junk*" as the occupant at 619 Chestnut Street. Historical operations included a scrap metal yard, automotive repair, junk storage, junkyard, a greenhouse, a church, and a paper stock warehouse, as shown in Sanborn maps from 1891 through 1994.

The Yaffa operations ceased when Yaffa & Sons, Inc. sold the property to Weyhill Realty Holdings, LLC and WRH 1, LLC (Weyhill) on July 19, 2019. Weyhill reportedly imported and stockpiled soil and debris from construction and demolition jobs in Philadelphia without proper permits. The former owners have been evicted from the Site, and the Site parcels are now owned by CRA and/or the City of Camden.

An aerial photograph of the Site prior to stockpile removal is provided as **Figure 2**.

Features and properties surrounding the Site consist of:

Direction	General Land Use	Street/Feature
North	Residential, Commercial	Chestnut Street, additional Yaffa facility parcels and vacant lots.
East	Residential, Commercial	South 7th Street, Court Apartments, and commercial shops
South	Residential, Commercial	Sycamore Street, vacant lots, residential, commercial shops
West	Residential, Commercial	South 6th Street, vacant lots, residential, commercial shops

2.2 Topography

According to the USGS 7.5-Minute Series Topographic Quadrangle Map, the Site elevation is approximately 20 feet above Mean Sea Level (MSL). The general topography of the Site is relatively flat at this time as large piles of soil, debris, and trash have been removed. A four-inch layer of gravel has been applied across the Site. Regional topography in the vicinity of the Site slopes southwest towards the Delaware River. A USGS topographic map of the area is provided on **Figure 1**.

2.3 Regional Geology

The Site is located within the Coastal Plain Physiographic Province of New Jersey. The NJ Geological Survey's "Physiographic Provinces of New Jersey" Information circular describes the Coastal Plain Province as occupying three-fifths of the state with an area of 4,667 square miles. It includes all of Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Monmouth, Ocean, and Salem Counties and parts of Mercer and Middlesex. The unconsolidated deposits of the Coastal Plain dip gently to the southeast.

Coastal Plain Sediments overlap bedrock formations of the Piedmont providence southeast of a line roughly between Carteret and Trenton, continuing southwest into Pennsylvania. These Coastal Plain Sediments thicken significantly southeastward from a feather edge along the northwestern margin of the province, to approximately 4,500 feet near Atlantic City, and to a maximum of more than 40,000 feet in the area of the Baltimore Canyon Trough (50 miles off-shore from Atlantic City). In Camden County, the Cretaceous and Tertiary sediments dip gently to the southeast with the oldest sediments cropping out at the Delaware River.

2.4 Surficial Geology

The Coastal Plain geologic unit underlying the Site has been identified as the Unit 2 Cape May Formation (Qcm2). The formation is characterized as "sand, pebble gravel, minor silt, clay, peat, and cobble gravel; very pale brown, yellow, reddish yellow, white, olive yellow, gray. As much as 40 feet thick." Sand is quartz with a little glauconite and a trace of mica and feldspar. The formation forms a terrace with a maximum surface elevation of about 35 feet.

According to NJ-GeoWeb, the Site is not in an area that has been mapped as historical fill. The environmental case described in this report refers to soil with fill material, predominantly from the surface to three feet below ground surface (bgs). No evidence of fill material was observed below that depth in test pits and borings advanced at the Site. Subsurface soils were generally described as sand with fill (brick, asphalt, ash, cinders, wood, debris, and glass) to three feet bgs, sand from three feet to 11 feet bgs, and silty sands from 11-15 feet bgs.

2.5 Bedrock Geology

Bedrock elevation and topography is not mapped in the area. The bedrock formation underlying the Site is depicted as the Potomac Formation (Kp), characterized as "sand, fine to coarse grained, interbedded with white, red, or yellow clay". Bedrock was not encountered during the investigation of any AOCs.

2.6 Surface Water Bodies

The Site does not contain any surface water bodies, or streams. There are no wetlands on the Site based on review of the U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) maps and the Site is not in the 100-year or 500-year floodplain. The surface water bodies closest to the Site are the Cooper River (3,600 feet to the northeast) and the Delaware River (4,100 feet to the west).

2.7 Hydrogeology

The groundwater aquifer below the Site is identified as the Potomac-Raritan-Magothy aquifer system. Three monitoring wells have been installed at the Site to 15 feet to 17 feet in depth. Groundwater was encountered at approximately 10 feet bgs. Based on the groundwater elevations at the Site shallow groundwater flow is to the southwest.

3.0 REGULATORY REPORTING

The SI was conducted under the direction of Christopher D. Valligny (LSRP # 629039) and in accordance with all NJDEP regulations and guidance.

On November 17, 2023, Montrose submitted a Case Creation Form to NJDEP, clarifying which lots are included in PI # 025881, and requesting creation of a new PI # specific to additional lots on Block 324 that were formerly associated with the Site operation and ownership. For the purposes of this report, the Site consists of 26 parcels totaling approximately 1.61 acres, as described in Montrose's August 14, 2024 PA Report.

The regulatory timeframes to complete the remedial investigation and remedial action for this case are March 1, 2015, and February 28, 2018, respectively.

3.1 Prior Reporting

Montrose has issued the following documents to NJDEP and/or CRA regarding this case:

- Various letters regarding waste characterization results and initial investigation findings
- Various required NJDEP forms
- August 14, 2024 Preliminary Assessment Report
- August 30, 2024 Site Investigation Workplan
- September 5, 2024 Quality Assurance Project Plan / Soil and Groundwater Sampling Plan

3.2 Public Notification

To fulfill the Public Notification requirements of N.J.A.C. 7:26C-1.7, Montrose posted public notification signs (English and Spanish) at the Site on October 3, 2022. The signs identify the environmental case and relevant contact information, and states that the environmental cleanup is in progress at the Site. Montrose has submitted a *Public Notification and Outreach Form* to NJDEP as a stand-alone submittal on March 8, 2023 and has provided copies to the City of Camden Municipality Clerk and the Camden County Health Officer.

4.0 ENVIRONMENTAL HISTORY

On March 30, 2022, Montrose was retained by CRA to provide environmental consulting services and LSRP oversight related to the investigation and remediation of the entire Site.

4.1 Waste Characterization and Above-Grade Waste Removal

Montrose retained Vargo Associates to perform a topographic survey of the piles and assist with calculating volumes. The City retained Ambient to remove all above-grade wastes. Waste characterization sampling for former Pile D was performed by Ambient, and Montrose performed waste characterization sampling of former Piles B and C.

Montrose then oversaw waste removal activities conducted by Ambient. All above-grade wastes from the Yaffa Waste Pile and the Weyhill Piles B, C, and D were all removed from the Site between March 2023 and June 2024 for off-site disposal. The total volume and weight of soil and mixed debris removed from the Site are:

- 10,020 cubic yards (14,028 tons) of mixed debris
- 39,069 cubic yards (54,696 tons) of soil

4.2 Preliminary Assessment

Montrose's August 14, 2024 PA Report identified and described 15 AOCs associated with the Site, as depicted on **Figure 3**. History, documentation, and detail regarding these AOCs can be found in the PAR. Montrose recommended conducting SI activities to address 9 of the 15 AOCs, listed below:

AOC ID	Description	SI Recommended
AOC-1	Former 1,000-gallon No. 2 Heating-Oil AST, 616 Chestnut Street (Lot 50) and Former 275-Gallon Heating-Oil AST at 604 Chestnut Street (Lot 46)	No
AOC-2	Former Registered 500- or 550-Gallon Gasoline/Diesel-Fuel UST, Removed November 18, 2002	Yes
AOC-3	Loading/Unloading Areas for Trash and Demolition debris	Yes
AOC-4	Storage Pads, Including Drum and/or Waste Storage	Yes
AOC-5	Stormwater Collection System	No
AOC-6	Waste Piles, as defined by N.J.A.C. 7:26 • AOC-6a: Pile B – Soil and Mixed / Unprocessed Materials • AOC-6b: Pile C – Unprocessed Concrete, Brick, Block • AOC-6c: Pile D – Mixture of Screened Soil and Crushed Demolition debris • AOC-6d: Solid Waste Beneath Pile B	Yes
AOC-7	Historical Fill	Yes
AOC-8	Three Pole-Mounted Electrical Transformers	No
AOC-9	Spill Incident # 96-04-19-0840-37: Spills from trucks cranes, and containers	Yes
AOC-10	Spill Incident # 23-03-27-1509-15: Stained soil underneath screening equipment	Yes

AOC ID	Description	SI Recommended
AOC-11	Former Railroad Spur	Yes
AOC-12	Former Residential Dwellings	No
AOC-13	Former On-Site Operations	
	• AOC-13a: Steam Fitting Shop	Yes
	• AOC-13b: Greenhouse	
	• AOC-13c: Junk Storage Areas	
	• AOC-13d: Automotive Repair	
	• AOC-13e: Yaffa Paper Stock Warehouse	
	• AOC-13f: Yaffa Scrap Metal Operations	
	• AOC-13g: Weyhill Soil/Debris Stockpiling Operations	
AOC-14	Off-site Coal & Wood Yard - 621 Kaighn Ave	No
AOC-15	Off-site Historical Cleaners - 1136 Baring Street	No

4.3 Initial Remedial Action

On March 27, 2023, CRA removed an abandoned piece of soil screening equipment. Significant petroleum staining was observed on surface soils beneath the equipment.

On May 5, 2023, Montrose collected soil samples to assess the stained area (AOC-10) and analyzed them for 'Unknown Petroleum Hydrocarbon' parameters, per Table 2-1 of the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E). Based on the laboratory analytical results and visual observations, Montrose believes the material beneath the former screener to be hydraulic fluid or a similar petroleum product. No elevated photoionization detector (PID) readings were detected.

Upon investigation, Montrose noted that visible staining only extended to approximately one inch below the surface, and that the area was underlaid with light-gray crushed modified stone. Four soil samples (SS-01-0-1, SS-02-0-1, SS-01-1-6, and SS-03-0-1) were collected. Analytical parameters included Extractable Petroleum Hydrocarbons (EPH), with a contingency for 25% of the samples where EPH is detected. Contingency analyses included VOCs, SVOCs, PCBs, and Target Analyte List (TAL) Metals, and were activated on sample SS-01-0-1. Library searches for up to 15 highest Tentatively Identified Compounds (TICs) were also performed for VOCs and SVOCs.

On May 13, 2024, Montrose directed Ambient to excavate the stained soils for off-site disposal. The waste characterization sample results did not exceed the TCLP / RCRA Characteristic Waste Limits and the material was classified as non-hazardous. Ambient disposed of 15.76 tons of material at the Pennsauken Sanitary Landfill (PCFACC). Montrose directed the contractor to backfill the excavation with surrounding soils to match grade.

Montrose collected five post-excavation soil samples (PE-1-0.0-0.5, PE-2-0.0-0.5, PE3-0.0-0.5, PE4-0.0-0.5, and PE-5-2.0-2.5). The final extent of the excavation measured 15 feet by 10 feet, with a depth of two feet bgs. Five post-excavation samples were collected for Total EPH and Mercury. The excavation, restoration, and sample results are discussed in detail in **Sections 6.4**.

5.0 APPLICABLE REMEDIATION STANDARDS

Environmental samples collected during the investigation and remediation are compared to the following remediation standards:

- 2021 Residential Direct Contact SRS (RDCSRS) - lower of the 2021 Residential Ingestion-Dermal vs. Inhalation SRS
- 2021 Non-Residential Direct Contact SRS (NRDCSRS) - lower of the 2021 Non-Residential Ingestion-Dermal vs. Inhalation SRS
- 2021 Default SRS for the Migration-to-Groundwater Pathway (SRSMGW)
- 2021 NJ Soil Leachate Remediation Standard
- Calculated Site-Specific SRSMGW, as described in this report
- 2020 Ground Water Quality Standards (GWQS)

6.0 SITE INVESTIGATION – SOIL

6.1 Geophysical Survey

On June 25, 2024, Summit Drilling, LLC (Summit) conducted a geophysical survey of the entire Site. The geophysical survey consisted of electro-magnetic (EM) scan, radio-frequency scan, and a ground-penetrating radar (GPR) scan. No distinct GPR images, evidence of USTs or former USTs, or previously unknown utilities were located, but EM anomalies were detected and delineated. Results were used to evaluate potential AOCs. The findings are described in more detail, and the geophysical report is attached as an appendix, in Montrose's August 14, 2024 PAR.

6.2 Soil Sampling Methodology

Soil sampling was performed using a combination of stainless-steel trowel sampling, direct-push drilling, and test pit excavation. The sampling procedure generally follows the plan proposed in Montrose's August 30, 2024 Site Investigation Workplan, with a few deviations based on logistics and field observations. Actual soil sample locations are depicted on **Figure 4**.

Soil stratigraphy and sample recovery were recorded on boring logs that are included in **Appendix A**. Borings and test pits were field screened for volatile organic vapors using a PID. Peak responses were recorded on the boring and test pit logs. The PID used for field screening was calibrated daily in accordance with manufacturer specifications using a standard gas (isobutylene).

One to two soil samples were collected from each boring or test pit as proposed in the SIWP. Generally, the first sample was collected at 1-1.5 feet bgs, and the second sample was collected six inches above the groundwater table. No elevated PID readings were identified during the SI sampling, therefore the shallow samples were collected from the 1- to 1.5-foot bgs interval as proposed. At the former UST location (AOC-2), samples were collected at 6-6.5 feet and 8-8.5 feet bgs, as proposed.

Samples were placed on ice in a cooler and submitted under proper chain of custody (COC) procedures to Eurofins Environment Testing Northeast, LLC in Edison, New Jersey (Eurofins, NJDEP Certification # 12028). Photographs taken during the investigation are provided as **Appendix B**.

6.3 May 5, 2023 Soil Sampling

On May 5, 2023, Montrose collected soil samples to assess the area of petroleum surface staining (AOC-10) and analyzed them for 'Unknown Petroleum Hydrocarbon' parameters, per Table 2-1 of the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E). No elevated photoionization detector (PID) readings were detected. Based on laboratory analytical results and visual observations, Montrose believes the material beneath the former screener to be hydraulic fluid or a similar petroleum product. The spill was reported to NJDEP and Incident # 23-03-27-1509-15) was assigned.

Four soil samples (SS-01-0-1, SS-02-0-1, SS-01-1-6, and SS-03-0-1) were collected. Analytical parameters included EPH with a contingency for 25% of the samples where EPH is detected. Contingency analyses included VOCs, SVOCs, PCBs, and TAL Metals, and were activated on sample SS-01-0-1. Library searches for up to 15 highest TICs were also performed for VOCs and SVOCs. Exceedances are summarized below:

Sample ID	Depth	Total EPH (mg/kg)	Mercury
SS-01-0-1	0 to 1 inch	**48,000**	**0.11**
SS-01-1-6	1 to 6 inches	**6,100**	Not analyzed
SS-02-0-1	0 to 1 inch	1,500	Not analyzed
SS-03-0-1	0 to 1 inch	**8,000**	Not analyzed

All results reported in milligrams per kilogram (mg/kg)
bgs = Below ground surface
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Mercury was reported at 0.11 mg/kg, slightly exceeding the 0.10 mg/kg NJDEP SRSMGW. EPH concentrations ranged from 1,500 to 48,000 mg/kg, exceeding the default product limit of 8,000 mg/kg and default residential SRS of 5,300 mg/kg. Based on the EPH concentrations, excavation of the stained area was recommended.

The laboratory analytical report is provided as **Appendix C-1**.

6.4 May 13, 2024 Soil Sampling

On May 13, 2024, Montrose directed Ambient to excavate the stained soils for off-site disposal. The waste characterization sample results did not exceed the TCLP / RCRA Characteristic Waste Limits and the material was classified as non-hazardous. Ambient disposed of 15.76 tons of material at the Pennsauken Sanitary Landfill (PCFACC). Montrose directed the contractor to backfill the excavation with surrounding soils to match grade.

Montrose collected five post-excavation soil samples (PE-1-0.0-0.5, PE-2-0.0-0.5, PE3-0.0-0.5, PE4-0.0-0.5, and PE-5-2.0-2.5). Samples collected at 0-0.5 feet bgs are sidewall samples and the sample at 2.0-2.5 feet bgs was collected at the base of the excavation. The final extent of the excavation measured 15 feet by 10 feet, with a depth of 2 feet bgs. Five post-excavation samples were collected for Total EPH and Mercury.

Sample ID	Depth (feet bgs)	Total EPH	Mercury
PE-1-0-0.5	0-0.5	160	**0.59**
PE-2-0-0.5	0-0.5	430	**0.22**
PE-3-0-0.5	0-0.5	39	**0.50**
PE-4-0-0.5	0-0.5	230	**0.62**
PE-5-2-2.5	2-2.5	**7,600**	**1.8**

All results reported in milligrams per kilogram (mg/kg)
bgs = Below ground surface
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Total unfractionated EPH concentrations ranged from 39 to 430 mg/kg on the excavation sidewalls, and 7,600 mg/kg on the excavation base. Using the NJDEP's 2021 EPH Category 2 Ingestion/Dermal Residential and Nonresidential Calculator spreadsheets, the fractionated EPH concentration in the base sample was calculated at 1,376.3 mg/kg (after removing non-anthropogenic EPH), and site-specific standards are calculated at 25,000 (residential), 35,000 (non-residential), and 17,000 (free product limit). NJDEP spreadsheet calculation forms and the NJDEP's *Alternative Remediation Soil Remediation Standard Form* are provided as **Appendix E.**

Mercury concentrations exceed the default SRSMGW in all post-excavation samples collected. Sample PE-5-2.0-2.5 with the highest concentration was further analyzed by SPLP to develop a site-specific standard for the SRSMGW pathway for Mercury. SPLP results are discussed in **Section 6.10**.

The laboratory analytical report is provided as **Appendix C-2**.

6.5 September 5, 2024 Direct-Push Soil Sampling

On September 5, 2024, Montrose directed and oversaw direct-push drilling by East Coast Drilling Inc. (ECDI) of Mount Laurel, NJ. Four soil borings (GP-1, GP-2, GP-3, and GP-4) were advanced to depths of 10 to 18 feet bgs. Soil samples at GP-1-2024 were analyzed for EPH Category 1, plus Target Compound List (TCL) VOCs including Tert-Butyl Alcohol (TBA) to assess for gasoline and diesel fuel. Remaining samples were analyzed as proposed in the SIWP for a combination of EPH, VOCs, SVOCs, Polyaromatic Hydrocarbons (PAHs), PCBs, Herbicides, Pesticides, Cyanide, TAL Metals, and PFAS.

A summary of SVOC and total PCB exceedances from September 5, 2024 is presented below:

Sample ID	Depth (feet bgs)	B[a]a	B[a]p	Total PCBs
GP-2-2024-1-1.5	1-1.5	**0.86**	**0.72**	**2.2***
GP-3-2024-1-1.5	1-1.5	MS	MS	**5.2***
GP-4-2024-1-1.5	1-1.5	MS	MS	**0.63**

All results reported in milligrams per kilogram (mg/kg) bgs = Below ground surface
B[a]a = Benzo[a]anthracene B[a]p = Benzo[a]pyrene
MS = Meets standards
Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
* Exceeds NRSRS and SRSMGW

A summary of Metals results from September 5, 2024 is presented below:

Sample ID	Depth (feet bgs)	Hg	Sb	As	Cd	Cu	Cr	Pb	Ni	Ag	Zn
GP-2-2024-1-1.5	1-1.5	**0.63**	**13.1**	MS	**34**	**4,450**	102	**3,040***	**217**	**1.3**	**1,740**
GP-2-2024-8.5-9	8.5-9	MS	MS	**22.6***	MS	MS	<20	MS	MS	MS	MS
GP-3-2024-1-1.5	1-1.5	**0.65**	MS	MS	MS	MS	28.6	**258**	MS	MS	MS
GP-3-2024-9.5-10	9.5-10	MS	MS	MS	MS	MS	<20	MS	MS	MS	MS
GP-4-2024-1-1.5	1-1.5	**0.81**	MS	MS	**2.5**	MS	47.6	**351**	**54.9**	MS	MS
GP-4-2024-10-10.5	10-10.5	MS	MS	MS	MS	MS	<20	MS	MS	MS	MS

All results reported in milligrams per kilogram
bgs = Below ground surface
NA = Not analyzed
MS = Meets standards

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* Exceeds NRSRS and SRSMGW

Total Chromium ranged from 6.9 to 102 mg/kg. Hexavalent Chromium speciation was activated on samples with Total Chromium concentrations over the Hexavalent Chromium Non-Residential Soil Cleanup Criterion of 20 mg/kg (GP-2-2024-1-1.5, GP-3-2024-1-1.5, and GP-4-2024-1-1.5). Hexavalent Chromium results are discussed in **Section 6.8**.

PFAS results are summarized in **Sections 6.9** and **6.10**. VOCs, Total EPH, Herbicides and Pesticides meet the applicable SRS.

The laboratory analytical report is provided as **Appendix C-3**.

6.6 September 12, 2024 Test Pit Soil Sampling

On September 12, 2024, Montrose oversaw the excavation of test pits by Summit Drilling Company LLC (Summit) of Bridgewater, NJ. Seven test pits (TP-2, TP-3, TP-4, TP-6, TP-8, TP-9, TP-11, and TP-12) were advanced to five to ten feet bgs. Samples were analyzed as proposed in the SIWP for a combination of EPH, VOCs, SVOCs, PAHs, PCBs, Herbicides, Pesticides, Cyanide, TAL Metals, and PFAS.

A summary of PAHs and PCB exceedances from September 12, 2024 is presented below:

Sample ID	Depth (feet bgs)	2-MN	B[a]a	B[a]p	B[b]f	D(ah)a	I(123)p	Naph	Total PCBs
TP-2-2024-1-1.5	1-1.5	MS	**1.3**	**1.2**	MS	MS	MS	MS	MS
TP-4-2024-1-1.5	1-1.5	**8.3**	**18**	**16**	**20**	**2.1**	**7.5**	**12**	NA
TP-6-2024-1-1.5	1-1.5	MS	**3.3**	**2.7**	MS	MS	MS	MS	NA
TP-8-2024-1-1.5	1-1.5	MS	**1.3**	**1.2**	MS	MS	MS	MS	**17***
TP-9-2024-1-1.5	1-1.5	MS	**1.3**	**1.2**	MS	MS	MS	MS	MS
TP-11-2024-1-1.5	1-1.5	MS	**4.0**	**3.6**	MS	**0.59**	MS	MS	NA
TP-12-2024-1-1.5	1-1.5	MS	**2.8**	**2.5**	MS	MS	MS	MS	**0.44**

All results reported in milligrams per kilogram (mg/kg) bgs = Below ground surface
B[a]a = Benzo[a]anthracene B[b]f = Benzo[b]fluoranthene
B[a]p = Benzo[a]pyrene D(ah)a = Dibenz(a,h)anthracene
I[123]p = Indeno[1,2,3-cd]pyrene Naph = Naphthalene
2-MN = 2-Methylnaphthalene NA = Not analyzed
MS = Meets standards
Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds SRSMGW and RSRS
* Exceeds NRSRS and SRSMGW

A summary of Metals results from September 12, 2024 is presented below:

Sample ID	Depth (feet bgs)	Hg	Sb	As	Cd	Co	Cu	Cr	Pb	Ni	Ag	Zn
TP-2-2024-1-1.5	1.0-1.5	**1.1**	MS	MS	MS	MS	MS	24.3	**586**	MS	MS	MS
TP-4-2024-1-1.5	1-1.5	**1.1**	MS	MS	MS	MS	MS	<20	**757**	MS	MS	MS
TP-6-2024-1-1.5	1-1.5	**0.67**	MS	MS	**3.0**	MS	MS	92	**596**	**175**	**0.67**	MS
TP-8-2024-1-1.5	1-1.5	**7.4**	**39.4**	**19.1***	**22.2**	**120**	MS	804	**7,330***	**2,630**	**4.3**	**1,390**
TP-8-2024-8-8.5	8-8.5	**0.45**	MS	MS	MS	MS	**1,510**	268	BS	**133**	MS	**6,400**
TP-9-2024-1-1.5	1-1.5	**0.44**	MS	MS	MS	MS	MS	<20	133	MS	MS	MS
TP-11-2024-1-1.5	1-1.5	**0.24**	MS	MS	MS	MS	MS	<20	MS	MS	MS	MS
TP-12-2024-1-1.5	1-1.5	**0.90**	MS	MS	**6.4**	**30.3**	MS	1,650	**584**	**1,340**	**0.73**	MS

All results reported in milligrams per kilogram bgs = Below ground surface
NA = Not analyzed MS = Meets standards
Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds SRSMGW and RSRS

Many of the SRSMGW exceedances have been addressed through SPLP and development of a Site-Specific SRSMGW (SS-SRSMGW), discussed in **Section 6.10**. VOCs, Total EPH, Herbicides, and Pesticides meet the applicable SRS.

Total Chromium ranged from 7.2 to 1,650 mg/kg. Hexavalent Chromium was activated on samples TP2-2024-1.0-1.5, TP6-2024-1.0-1.5, TP8-2024-1.0-1.5, TP8-2024-8.0-8.5, and TP12-2024-1.0-1.5. Hexavalent Chromium results are discussed in **Section 6.8**.

The laboratory analytical report is provided as **Appendix C-4**.

6.7 Discussion of EPH Category 2 Ingestion/Dermal Calculator

Fractionated EPH results from samples PE-5-2.0-2.5 and TP8-2024-1.0-1.5 were input into the NJDEP 2021 EPH Category 2 Ingestion/Dermal Residential and Non-Residential Calculator. Total EPH results passed. The EPH Category 2 Ingestion/Dermal SRSs were calculated to be 25,000 mg/kg (Residential) and 35,000 mg/kg (Non-Residential). The NJDEP EPH calculation spreadsheets are provided as **Appendix F**.

6.8 Discussion of Hexavalent Chromium Results

Hexavalent Chromium results ranged from Non-Detect to 1.3 mg/kg and meet the NJDEP Non-Residential and Residential SCC of 20 mg/kg and 240 mg/kg.

6.9 Discussion of Summary of PFAS Results

PFAS SS-SRSMGWs were calculated with SPLP data. Although PFAS results meet the interim Direct Contact SRS, the following samples exceed the calculated SS-SRSMGW:

- GP-4-2024-1-1.5: PFOA of 0.02 mg/kg
  (exceeds the calculated SS-SRSMGW of 0.00098 mg/kg)
- GP-2-2024-1-1.5: PFOS of 0.045 mg/kg
  (exceeds the calculated SS-SRSMGW of 0.01 mg/kg)

6.10 Discussion of Migration to Groundwater Pathway

Montrose performed contingency analyses for SPLP PFAS, SPLP SVOCs, and SPLP TAL Metals for contaminants that exceed the default standard, as outlined in the NJDEP's *Alternative Remediation Standards Technical Guidance for Soil and Soil Leachate for the Migration to Groundwater Pathway* (May 2021, Version 1.0) The SPLP results are summarized below and were used to determine SS-SRSMGWs. As per NJDEP guidance, area-specific SRSMGWs for PFAS were calculated using the NJDEP PFAS SPLP spreadsheets. SPLP spreadsheets are provided as **Appendix E**. The *Alternative or Interim Remediation Standard and/or Screening Level Application Form* and *Remediation Standard Notification Spreadsheet* will be uploaded to NJDEP with this report.

Analyte	Default SRSMGW (mg/kg)	SS-SRSMGW (mg/kg)	Maximum concentration (mg/kg)
Naphthalene	19	NS	12
2-Methylnaphthalene	3.1	8.3	8.3
Benzo[a]anthracene	0.71	18	18
PFOA	NS	0.00031	**0.02**
PFOS	NS	0.01	**0.045**
PFNA	NS	0.0078	0.0078
Lead	90	2,800	**3,040**
Antimony	5.4	39.4	39.4
Cadmium	1.9	34	34
Cobalt	90	120	120
Copper	910	4,450	4,450
Mercury	0.1	7.4	7.4
Nickel	48	2,630	2,630
Silver	0.5	4.3	4.3
Zinc	930	6,400	6,400

All results reported in milligrams per kilogram bgs = Below ground surface
NS = No standard
Exceeds the calculated SS-SRSMGW

In addition, the following COCs found at the Site are listed as immobile in the NJDEP's *Alternative Remediation Standards Technical Guidance* (Version 1.0, May 2021): Lead, Benzo[a]anthracene, and PCBs. The shallow subsurface exceedances of these COCs are not expected to impact groundwater as there is an approximately 8.5-foot buffer between the shallow sample exceedance and the groundwater table. Results of deeper soil samples collected at the Site (GP-2-2024-8.5-9, TP-8-2024-8.0-8.5, and TP-11-2024-8.0-8.5) demonstrate a clean zone within two feet of the groundwater table except for select metals (Arsenic, Mercury, and Nickel). These COCs have been addressed via a SS-SRSMGW. See **Section 7** for a discussion of groundwater results, which also support that SVOCs are not migrating to groundwater.

As stated in the NJDEP guidance for soil and soil leachate remediation standards for the migration to groundwater exposure pathway dated May 2021 "*for these contaminants, if the investigator can demonstrate that a minimum two-foot clean zone is present between the contamination and the water table, no remediation may be required for the MGW pathway*". The SI results had the highest Metal exceedances near the surface and deeper soil samples approximately two feet above the groundwater table met NJDEP SS-SRSMGS.

Based on the information above, the SVOC and Metal exceedances of the SRSMGW are not a concern for the immobile COCs. Further evaluation is recommended for PFOA and PFOS exceedances of the calculated SS-SRSMGW.

7.0 SITE INVESTIGATION - GROUNDWATER

7.1 September 5, 2024 Monitoring Well Installations

Montrose's NJ-licensed driller (ECDI) installed three permanent monitoring wells at direct-push locations GP-1, GP-2, and GP-3 via a hollow-stem auger drill rig. Well locations are presented on **Figure 9**.

A direct-push soil boring was first advanced at each location to evaluate lithology, field evidence of contamination, and depth to groundwater prior to deciding on well depth and construction.

Monitoring wells are screened from approximately 7 to 17 feet bgs (MW-1 and MW-3) or 5 to 15 feet bgs (MW-2). They are constructed with 2-inch diameter PVC casing and 10-slot well screen, appropriate sand pack, a bentonite/concrete seal, a concrete well pad, with locking stick-up well protectors. The wells were developed on September 6, 2024 by the well driller following installation.

Soil cuttings were containerized in 55-gallon steel drums and staged on a temporary pad until disposal could be arranged. No gross contamination (e.g., strong odor, free product) was observed during drilling or well development. Development water was pumped through activated carbon and discharged to the ground surface.

The well locations and elevations were surveyed by Vargo Associates (a licensed surveyor) on September 23, 2024. A summary of the monitoring well construction details is provided in **Table 5**. Monitoring well construction logs, NJDEP well permits, and surveyor's Form Bs are provided as **Appendix A**. Note that well records are not available from NJDEP as of the date of this report.

7.2 September 23, 2024 Groundwater Sampling

Montrose performed one round of groundwater sampling at monitoring wells MW-1, MW-2, and MW-3. The well locks had to be cut and replaced the day of the groundwater sample event. CRA will be provided with a copy of the new well key. Montrose recorded headspace vapor and groundwater depth before purging and sampling using a decontaminated submersible pump. Montrose followed NJDEP's preferred volumetric sampling method. Montrose recorded water quality groundwater readings with a flow-through cell, under Montrose's NJ lab certification # 11057. Groundwater sampling logs are provided as **Appendix D**.

Groundwater samples were placed on ice and submitted under standard chain of custody procedures to Eurofins. Field/equipment blanks and a trip blank were submitted for QA/QC purposes. Montrose analyzed groundwater samples for VOCs including TBA, SVOCs including 1-Methylnaphthalene, and TAL Metals.

Groundwater flow direction is estimated to be to the southeast, based on calculated static groundwater table elevations at the wells. If confirmed by multiple gauging events, MW-1 would be the up-gradient well and represent background groundwater conditions coming on to the Site.

Tetrachloroethene (PCE) was detected at 1.3 micrograms per liter (µg/L), which meets the NJDEP GWQS after rounding down in accordance with NJDEP's *Guidance for the Attainment of*

Remediation Standards. No other exceedances of VOCs or SOVs were reported. A summary of Metals exceedances in groundwater is presented below:

Analyte	NJDEP GWQS for Class IIA Aquifers (µg/L)	MW-1	MW-2	MW-3
Aluminum	200	102	**3,100**	**1,360**
Arsenic	3	2	**10.8**	1.3
Iron	300	116	**4,010**	**1,210**
Lead	5	ND	**30.1**	2.2
Manganese	50	**125**	**131**	**1,150**
Sodium	50,000	**87,900**	**112,000**	26,900

All results reported in micrograms per liter (µg/L)
Exceeds NJ Groundwater Quality Standards (GWQS)

Note that the GWQS for Aluminum, Iron, Manganese, and Sodium do not apply at this Site. These limits are based on secondary drinking water characteristics (such as taste and odor), rather than a health risk. The shallow groundwater in the area of the Site is not used for potable purposes.

Analytical results are summarized on **Tables 6A through 6C**. The reduced laboratory analytical data deliverables are provided as **Appendix C-5**.

8.0 AOC NARRATIVE UPDATE

No exceedances of Total EPH, VOCs, Herbicides/Pesticides, or Cyanide were reported and therefore not discussed in the following sections. The majority of soil exceedances were reported in the shallow soil samples, and include 5 PAHs, 2 SVOCs, Total PCBs, and 10 Metals. The only exceedances reported from the deep soil samples were Nickel and Mercury in test pit TP-8 from 8 to 8.5 feet bgs.

In groundwater, Arsenic and Lead exceedances were reported from MW-2 only, at the former location of the Yaffa scrap metal and junk pile (AOC-6d).

Montrose has provided a brief summary of the sample results that relate to each AOC. Note, however, that some samples are meant to investigate multiple AOCs (location-specific AOCs versus site-wide AOCs). The Remedial Investigation will need to include a deeper examination of which exceedances are related to which AOCs. This is especially true of historical fill. Additional samples may be needed to tease out the PAH and Metal exceedances related to fill material versus long-term industrial use, spills, and discharges.

8.1 AOC-2: Underground Storage Tanks

One soil boring (GP-1) and one test pit (TP-1) were advanced in the suspected UST location in September 2024. No evidence of a tank or backfilled tank excavation was observed in the geophysical survey, borings, or test pits. Two soil samples were collected at boring GP-1 at depths of 6-6.5 and 8-8.5 feet bgs. Samples were analyzed for Total EPH, VOCs and TBA. COCs were not detected above laboratory reporting limits.

Monitoring well MW-1 was installed at the GP-1 location on September 5, 2024. Groundwater results did not identify any VOC exceedances and Lead was not detected above the laboratory reporting limit.
No further investigation or remediation of AOC-2 is warranted.

8.2 AOC-3: Loading and Unloading Areas

Soil samples collected from GP-2 through GP-4 and TP-2, TP-3, TP-4, TP-6, TP-8, TP-9, TP-11, and TP-12 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, Cyanide, TAL Metals, and PFAS.

- **GP-2**: Shallow soil results indicate PAHs exceeding the RSRS and SRSMGW. Total PCBs exceed NRSRS and SRSMGW. Metals exceed RSRS/NRSRS and/or SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Lead still exceeds the developed SS-SRSMGW. The shallow soil sample indicated PFOS of 0.045 mg/kg, exceeding the calculated SS-SRSMGW of 0.01 mg/kg. Deeper soil sample results meet the applicable SRS, except for Arsenic exceed SRSMGW.

- **GP-3**: Shallow soil PCBs results exceed NRSRS. Mercury and Lead exceed RSRS and/or SRSMGW, but these SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deeper soil sample results meet the applicable standards.
- **GP-4**: Shallow soil results indicate PCBs exceed RDCSRS and metal exceed RSRS or SRSMGW. Nickel, Mercury, Cadmium, and Lead exceed the SRSMGW, and have been addressed via SPLP and the development of a SS-SRSMGW. PFOA results exceed the calculated SS-SRSMGW. Deeper soil results meet the applicable SRS.
- **TP-2**: PAHs exceed RSRS or SRSMGW and Lead exceeds the RSRS and SRSMGW. Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-3**: One shallow soil sample was analyzed for herbicides and pesticides. Results meet the applicable NJDEP SRS.
- **TP-4**: PAHs exceed RSRS and NRSRS. Limited SVOCs (2-Methylnaphthalene and Naphthalene) exceed RSRS or SRSMGW. Mercury and Lead exceed RSRS or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-6**: Shallow soil results indicate PAHs exceed NRSRS/SRSMGW and select metals exceeded the SRSMGW. Metal SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-8**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW; Total PCBs exceed NRSRS; and Metals exceed RSRS/NRSRS and SRSMGW. Deeper soil sample results were limited to Metals exceeding SRSMGW, which have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-9**: Shallow soil results were limited to PAHs exceed RSRS or SRSMGW and select metals (Lead and Mercury) exceed SRSMGW. SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-11**: Shallow soil results indicate PAHs exceed RSRS/NRSRS/SRSMGW and Mercury exceeds the SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deep soil results met the appliable NJDEP standards.
- **TP-12**: Shallow results indicate PAHs exceed NRSRS and/or SRSMGW. Metals exceeded RSRS and/or SRSMGW. Total PCBs exceeded RSRS. Metals and PAHs SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-3 (PAHs/SVOCs, Metals, and Total PCBs exceed RSRS, NRSRS and/or SRSMGW; PFAS exceeds SS-SRSMGW).

8.3 AOC-4: Storage Pads, Including Drum and/or Waste Storage

Soil samples collected from GP-2, GP-3, GP-4, TP-2, TP-4, TP-6, TP-8, TP-9, TP-11, and TP-12 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, Cyanide, TAL Metals, and PFAS.

- **GP-2**: Shallow soil results indicated PAHs exceed RSRS and SRSMGW. Total PCBs exceeded NRSRS and SRSMGW. Metals exceed RSRS/NRSRS and/or SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Lead still exceeds the developed SS-SRSMGW. The shallow soil sample indicated PFOS of 0.045 mg/kg, exceeding the calculated SS-SRSMGW of 0.01 mg/kg. Deeper soil sample results met applicable SRS, except for Arsenic exceeding SRSMGW.
- **GP-3**: Shallow soil PCBs results exceeded NRSRS. Metals (Mercury and Lead) exceeded RSRS and/or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deeper soil sample results met applicable standards.
- **GP-4**: Shallow soil results indicate PCBs exceeding RDCSRS and Metals exceeding RSRS or SRSMGW. Metals (Nickel, Mercury, Cadmium, and Lead) SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. PFOA results exceeded the calculated SS-SRSMGW. Deeper soil results met applicable SRS.
- **TP-2**: Shallow soil results indicate PAHs exceeding RSRS or SRSMGW and Lead exceeding the RSRS and SRSMGW. Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-4**: Shallow soil results indicate PAHs exceeding RSRS and NRSRS. Limited SVOCs (2-Methylnaphthalene and Naphthalene) exceed RSRS or SRSMGW. Mercury and Lead exceed RSRS or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-8**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW. Total PCBs exceed NRSRS. Metals exceed RSRS/NRSRS and SRSMGW. Deeper soil sample results were limited to Metals exceeding SRSMGW, which have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-9:** Shallow soil results were limited to PAHs exceeding RSRS or SRSMGW and Lead and Mercury exceed SRSMGW. SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-4 (PAHs/SVOCs, Metals, Total PCBs exceed RSRS, NRSRS, and/or SRSMGW, and PFAS exceed SS-SRSMGW).

8.4 AOC-6: Waste Piles, As Defined By N.J.A.C 7:26

8.4.1 AOC-6a: Pile B – Weyhill Soil and Mixed / Unprocessed Materials

Soil samples collected from GP-2, GP-4, TP-4, TP-8, and TP-9 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, Cyanide, PFAS, and TAL Metals.

- **GP-2**: Shallow soil results indicate PAHs exceed RSRS and SRSMGW. Total PCBs exceeded NRSRS and SRSMGW. Metals exceed RSRS/NRSRS and/or SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Lead exceeds the developed SS-SRSMGW. The shallow sample indicate PFOS at 0.045 mg/kg, exceeding the calculated SS-SRSMGW of 0.01 mg/kg. Deeper soil sample results meet applicable SRS, except for Arsenic exceeding SRSMGW.
- **GP-4**: Shallow soil results indicate PCBs exceed RDCSRS and Metals exceed RSRS or SRSMGW. Metals (Nickel, Mercury, Cadmium, and Lead) SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. PFOA results exceeded the calculated SS-SRSMGW. Deeper soil results meet applicable SRS.
- **TP-4**: Shallow soil results indicate PAHs exceed RSRS and NRSRS. Limited SVOCs (2-Methylnaphthalene and Naphthalene) exceed RSRS or SRSMGW. Mercury and Lead exceed RSRS or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-8**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW; Total PCBs exceed NRSRS; and Metals exceed RSRS/NRSRS and SRSMGW. Deeper soil sample results were limited to Metals exceed SRSMGW, which have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-9:** Shallow soil results were limited to PAHs exceed RSRS or SRSMGW. Lead and Mercury exceed SRSMGW. SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW

Monitoring well MW-2 was installed and sampled within the former Pile B. Groundwater results indicate Metals at the highest concentrations at this location.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-6a (PAHs/SVOCs, Metals, and Total PCBs exceed RSRS, NRSRS, and/or SRSMGW; PFAS exceeds SS-SRSMGW).

8.4.2 AOC-6b: Pile C – Weyhill Unprocessed Concrete, Brick, and Block

Soil samples collected from GP-3 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, herbicides/pesticides, cyanide, PFAs, and TAL Metals.

Shallow soil Total PCBs results exceeded NRSRS. Mercury and Lead exceeded RSRS and/or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deeper soil sample results meet applicable standards.

Monitoring well MW-3 was installed and sampled within the former Pile C. Note that the VOC PCE result of 1.3 µg/L was not presented as an exceedance. After rounding down according to the NJDEP guidance for attainment of standards, this result meets the GWQS of standard 1 µg/L. Only Metals (Aluminum, Iron, and Manganese) exceed the GWQS. Note that the GWQS for Aluminum, Iron, Manganese, and Sodium do not apply at this Site. These limits are based on secondary drinking water characteristics (such as taste and odor), rather than a health risk. The shallow groundwater in the area of the Site is not used for potable purposes.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-6b (Total PCBs exceed RSRS/NRSRS and Metals exceed RSRS and/or SRSMGW).

8.4.3 AOC-6c: Pile D – Weyhill Screened Soil & Crushed Demolition Debris

Soil samples collected from TP-11 represent this AOC and were analyzed for EPH, VOCs, SVOCS, and TAL Metals.

Shallow soil results indicate PAHs exceeding RSRS, NRSRS, and SRSMGW, and Mercury exceeding the SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deeper soil results meet NJDEP applicable standards.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-6c.

8.4.4 AOC-6d: Yaffa Solid Waste Beneath Pile B

Soil samples collected from GP-2 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, Cyanide, PFAS, and TAL Metals.

Shallow soil results indicate PAHs exceed RSRS and SRSMGW. Total PCBs exceeded NRSRS and SRSMGW. Metals exceed RSRS/NRSRS and/or SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Lead still exceeds the developed SS-SRSMGW. The shallow sample indicate PFOS of 0.045 mg/kg, exceeds the calculated SS-SRSMGW of 0.01 mg/kg. Deeper soil sample results me et applicable SRS, except for Arsenic exceeding SRSMGW.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-6d (PAHs exceed RSRS, Metals exceed RSRS, NRSRS and/or SRSMGW).

8.5 AOC-7: Historical Fill

Historical fill was visually observed in the upper one to three feet of soil in borings and test pits throughout the Site. Historical fill consisted of debris, metal, plastic, concrete, brick, glass, cinders, ash, wood, and trace coal fragments. Most shallow soil samples collected across the Site indicated exceedances of some PAHs and Metals typically associated with historical fill. Elevated concentrations of these compounds (e.g., at TP-4 and TP-8) may represent specific spills/discharges or commingling of spills/discharges with historical fill. Additional soil sampling

is likely needed to discern the potential sources of these COCs and whether specific exceedances can be attributed solely to historical fill.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-7 (PAHs and Metals).

8.6 AOC-9: Incident # 96-04-19-0840-37 – Citizen Report of Leaking Equipment

Soil samples collected from GP-4 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, Cyanide, PFAS, and TAL Metals.

Shallow soil results indicate Total PCBs exceed RDCSRS and Metals exceed RSRS or SRSMGW. Metals (Nickel, Mercury, Cadmium, and Lead) exceeding SRSMGW have been addressed via SPLP and the development of a SS-SRSMGW. PFOA results exceeded the calculated SS-SRSMGW.

Deeper soil results met the applicable SRS.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-9 (PCBs and Lead exceed RSRS; PFOS exceeds the calculated SS-SRSMGW).

8.7 AOC-10: Incident # 23-03-27-1509-15 – Surface Petroleum Spill

Post-excavation soil results support no further remedial action for EPH at this AOC. Initial sample SS-03 with an EPH concentration of 8,000 mg/kg (scraped from the top 0.1 feet) was replaced by PE-4 (sidewall from 0 to 0.5 feet bgs). Samples SS-01 and SS-02 were excavated. The highest remaining EPH concentration is 7,600 mg/kg, or 1,400 mg/kg after removing EPH fractions suspected to be naturally occurring. The EPH calculator proposed site-specific standards of 25,000 (residential), 35,000 (non-residential), and 17,000 (free product limit).

The highest remaining Mercury concentration was at 1.8 mg/kg in post-excavation soil sample PE-5. SPLP evaluation was performed across the Site to address Mercury (also see AOC-9). A SS-SRSMGW of 7.4 mg/kg was developed for Mercury.

No further investigation or remediation of AOC-10 is warranted.

8.8 AOC-11: Former Railroad Spur

One shallow soil sample collected from TP-6 represents this AOC and was analyzed for PAHs and Metals.

Shallow soil results indicate PAHs exceed NRSRS/SRSMGW and select Metals exceeded the SRSMGW. Metal SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted to address COCs exceeding NJDEP SRS associated with AOC-11 (PAHs and Metals exceed RSRS and/or NRSRS).

8.9 AOC-13: Former On-Site Operations

8.9.1 AOC-13a: Steam Fitting Shop

One shallow soil sample collected from TP-2 represents this AOC and was analyzed for EPH. VOCs, SVOCS, PCBs, Herbicides/Pesticides, and TAL Metals. Only PAHs and Lead exceeded the RSRS and SRSMGW. These contaminants are likely attributable to historical fill. Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

No further investigation or remediation of AOC-13a is warranted as these exceedances are to be addressed under AOC-7.

8.9.2 AOC-13b: Greenhouse

One shallow soil sample collected from TP-3 represents this AOC and was analyzed for Herbicides and Pesticides. Results meet applicable NJDEP SRS.

No further investigation or remediation of AOC-13b is warranted.

8.9.3 AOC-13c: Junk Storage Areas

One shallow soil sample collected from TP-12 represents this AOC and was analyzed for EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, and TAL Metals. Results indicate PAHs exceeding NRSRS and/or SRSMGW. Metals exceeded RSRS and/or SRSMGW. Total PCBs exceeded RSRS. Metals and PAHs exceed the SRSMGW but have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted at AOC-13c for PAHs, Total PCBs and Metals exceeding RSRS and/or NRSRS.

8.9.4 AOC-13d: Automotive Repair

Soil samples collected from TP-8 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, and TAL metals.

Shallow soil results indicate PAHs exceed RSRS or SRSMGW. Total PCBs exceed NRSRS. Metals exceed RSRS/NRSRS and SRSMGW. Deeper soil sample exceedances were limited to Metals exceeding SRSMGW, which have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted at AOC-13d for COCs exceeding RSRS/NRSRS.

8.9.5 AOC-13e: Yaffa Paper Stock Warehouse

Soil samples collected from TP-2 represent this AOC and were analyzed for EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, and TAL Metals.

Shallow soil results indicate PAHs exceed RSRS or SRSMGW and Lead exceed the RSRS and SRSMGW. These contaminants are likely attributable to historical fill. Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

No further investigation or remediation of AOC-13e is warranted as these exceedances are to be addressed under AOC-7.

8.9.6 AOC-13f: Yaffa Scrap Metal Operations

Soil samples collected from GP-2, GP-3, GP-4, TP-2, TP-4, TP-8, TP-9 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, TAL Metals, and PFAS.

- **GP-2**: Shallow soil results indicate PAHs exceed RSRS and SRSMGW. Total PCBs exceeded NRSRS and SRSMGW. Metals exceed RSRS/NRSRS and/or SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Lead still exceeds the developed SS-SRSMGW. The shallow sample indicate PFOS of 0.045 mg/kg, exceed the calculated SS-SRSMGW of 0.01 mg/kg. Deeper soil sample results met applicable SRS, except for Arsenic exceeding SRSMGW.
- **GP-3**: Shallow soil indicate Total PCBs results exceeded NRSRS. Mercury and Lead exceeded RSRS and/or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deeper soil sample results met applicable standards.
- **GP-4**: Shallow soil results indicate Total PCBs exceed RDCSRS and Metals exceed RSRS or SRSMGW. Metals (Nickel, Mercury, Cadmium, and Lead) SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. PFOA results exceeded the calculated SS-SRSMGW. Deeper soil results met applicable SRS.
- **TP-2**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW and Lead exceeds the RSRS and SRSMGW. Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-4**: Shallow soil results indicate PAHs exceed RSRS and NRSRS. Limited SVOCs (2-Methylnaphthalene and Naphthalene) exceed RSRS or SRSMGW. Mercury and Lead exceed the RSRS or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-8**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW; Total PCBs exceed NRSRS; and Metals exceed RSRS/NRSRS and SRSMGW. Deeper soil sample results were limited to Metals exceed SRSMGW, which have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-9:** Shallow soil results were limited to PAHs exceeding RSRS or SRSMGW. Mercury and Lead exceed SRSMGW. SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted at AOC-13f for COCs exceeding RSRS/NRSRS.

8.9.7 AOC-13g: Weyhill Soil/Debris Stockpiling

Soil samples collected from GP-2, GP-3, GP-4, TP-2, TP-4, TP-8, TP-9, TP-11, and TP-12 represent this AOC and were analyzed for a combination of EPH, VOCs, SVOCS, PCBs, Herbicides/Pesticides, and TAL Metals. Soil exceedances were found in Metals, SVOCs, and Total PCBs.

- **GP-2**: Shallow soil results indicate PAHs exceed RSRS and SRSMGW. Total PCBs exceeded NRSRS and SRSMGW. Metals exceed RSRS/NRSRS and/or SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Lead exceeds the developed SS-SRSMGW. The shallow sample indicate PFOS of 0.045 mg/kg, exceeding the calculated SS-SRSMGW of 0.01 mg/kg. Deeper soil sample results met applicable SRS, except for Arsenic exceeding SRSMGW.
- **GP-3**: Shallow soil indicate Total PCBs results exceeded NRSRS. Mercury and Lead exceeded RSRS and/or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deeper soil sample results met applicable standards.
- **GP-4**: Shallow soil results indicate Total PCBs exceed RDCSRS and Metals exceed RSRS or SRSMGW. Metals (Nickel, Mercury, Cadmium, and Lead) SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. PFOA results exceeded the calculated SS-SRSMGW. Deeper soil results met applicable SRS.
- **TP-2**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW and Lead exceeded the RSRS and SRSMGW. Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-4**: Shallow soil results indicate PAHs exceed RSRS and NRSRS. Limited SVOCs (2-Methylnaphthalene and Naphthalene) exceed RSRS or SRSMGW. Mercury and Lead exceed RSRS or SRSMGW. Mercury and Lead SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-8**: Shallow soil results indicate PAHs exceed RSRS or SRSMGW; Total PCBs exceed NRSRS; and Metals exceed RSRS/NRSRS and SRSMGW. Deeper soil sample results were limited to Metals exceed SRSMGW which have been addressed via SPLP and the development of a SS-SRSMGW.
- **TP-9**: Shallow soil results were limited to PAHs exceed RSRS or SRSMGW and Lead and Mercury exceed SRSMGW. SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

- **TP-11**: Shallow soil results indicate PAHs exceed RSRS/NRSRS/SRSMGW and Mercury exceed the SRSMGW. Mercury and Benzo(a)anthracene SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW. Deep soil results met the appliable NJDEP standards.
- **TP-12**: Shallow results indicate PAHs exceed NRSRS and/or SRSMGW. Metals exceeded RSRS and/or SRSMGW. Total PCBs exceeded RSRS. Metal and PAH SRSMGW exceedances have been addressed via SPLP and the development of a SS-SRSMGW.

Further investigation and/or remediation is warranted for AOC-13g (Total PCBs, PAHs, and Metals exceed RSRS/NRSRS).

9.0 RECEPTOR EVALUATION

As required by the *Technical Requirements for Site Remediation*, a receptor evaluation was performed for the Site. A receptor is defined as any human or ecological component that is or may be affected by contaminants of concern. This evaluation was performed to identify potential impacts to human and ecological receptors from potentially contaminated AOCs. Montrose submitted an *Initial Receptor Evaluation Form* to NJDEP via email on August 19, 2024 (**Appendix H**).

9.1 Land Use

The Site itself was recently used as a vacant commercial land and is expected to be redeveloped. The future use of the property is unknown at this time, but anticipated to be residential.

As part of the requirements for a Receptor Evaluation, the NJDEP requires PRCRs to identify any residences, schools, child-care centers, parks, playgrounds, or other recreation areas within 200 feet of the Site boundary as per N.J.A.C 7:26E1:13. Many residential properties fall within 200 feet of the Site (**Figure 2**). No child care centers, parks, playgrounds, or other recreation areas located within 200 feet of the Site boundary.

Impacts to soil appear to be limited to the upper three feet of soil within the boundaries of the Site. No further evaluation of land use is required.

Results of the land use evaluation are summarized in **Table 3** and **Figure 10.**

9.2 Groundwater

As per N.J.A.C 7:76E-1.14, the PRCR shall conduct a receptor evaluation of groundwater when any contaminant in groundwater exceeding any applicable NJDEP GWQS. Direct-push borings and monitoring wells confirmed the depth to groundwater was approximately 9 to 10 feet bgs across the Site.

Arsenic and Lead exceedances were reported from MW-2 only in one sampling event. Additional sampling is recommended to confirm these exceedances, but it appears they are delineated by MW-1 (up-gradient to the northwest) and MW-3 (cross-gradient to the southwest).

No evidence of potentially potable wells was observed during field investigations. Only one structure (an occupied residence) remains on Block 331 and it is connected to municipal water. Water shut-off valves and hydrants are located throughout the neighborhood, indicating that municipal water is provided to the structures in the area. It is unlikely that the shallow aquifer is being used for potable or irrigation purposes in this area.

Montrose performed an initial potable well search as part of the SI, and no potentially potable wells are documented in NJDEP's records within 500 feet of MW-2. There are residential properties within 500 feet down-gradient of MW-2. If Arsenic and Lead groundwater exceedances are confirmed during the RI phase, Montrose recommends conducting a door-to-door well search to confirm that there are no undocumented potentially potable wells in this area.

9.3 Vapor Intrusion

As per N.J.A.C 7:76E-1.15, the PRCR shall conduct a receptor evaluation of the vapor intrusion pathway when VOCs are detected in groundwater at a concentration greater than the vapor intrusion groundwater screening levels (VISLs) or when free product is identified. Groundwater investigation results meet the VISLs and free product has not been identified at this Site, therefore, a vapor intrusion investigation is not required.

9.4 Ecological Evaluation

A desktop Ecological Evaluation (EE) was conducted to determine if any environmentally sensitive natural resources (ENSR) other than groundwater are present at the Site, adjacent to the Site, or; may be, have been, or are impacted by contamination from the Site. The ecological evaluation was performed in general accordance with the NJDEP *Ecological Evaluation Technical Guidance*.

The NJDEP requires that the EE must be updated with new information to evaluate the potential impacts to sensitive populations or ecological receptors during the later phases of the investigation. The EE is conducted to examine the Site for the co-occurrence of the following:

- The presence of Contaminants of Potential Ecological Concern (COPEC) at the Site.
- The presence of ENSRs (other than groundwater) on, adjacent to, or potentially impacted by the Site; and
- The presence for potential contaminant migration pathways (historical or current) that transport or transmit a COPEC to and ENSR.

If a co-occurrence of a COPEC, ENSR, and a migration pathway (historical or current) are identified, then a remedial investigation of ecological receptors would be required as per N.J.A.C 7:26E-4.8.

9.4.1 Presence of Contaminants of Potential Ecological Concern (COPECs)

COCs highlighted below exceeded an Ecological Screening Criterion (ESC) in soil.

Compound of Concern	Most Stringent Ecological Screening Criterion in Soil (mg/kg)	Maximum Concentration Present (mg/kg)
Benzo(a)anthracene	5.21	**18**
Benzo(a)pyrene	1.52	**16**
Benzo(b)fluoranthene	59.8	20
Dibenz(a,h)anthracene	18.4	2.1
Indeno[1,2,3-cd]pyrene	0.200	**7.5**
Naphthalene	0.16	**12**
Total PCBs	0.07	**17**
Antimony	3	**39.4**
Arsenic	6	**19.1**
Cadmium	0.6	**22.2**
Cobalt	13	**120**
Copper	28	**1,510**
Lead	0.0537	**7,330**

Nickel	38	**2,630**
Silver	4.2	**4.3**
Zinc	46	**6,400**
Mercury	0.00051	**7.4**

9.4.2 Identification of Environmental Sensitive Natural Resources (ENSRs)

The Site is located in an urban setting, surrounded by developed properties and roads. No environmentally sensitive areas of ecological importance, surface water bodies, or suspected wetlands are located on the property. The entire property is covered with a four-inch layer of clean stone limiting direct contact with soils. There are no known ESNRs present on, or immediately adjacent to, the Site.

9.4.3 Presence of Contaminant Migration Pathways from a COPEC to an ENSR

There are no known migration pathways of a COPEC to an ENSR. As described in the following sections, there are no ESNRs on or adjacent to the Site. Therefore, no additional investigation or evaluation of ESNRs is required.

Since one or more of the three items above do not exist, no further EE or investigation is required.

10.0 DATA USABILITY

This section discusses the Quality Assurance (QA) and Quality Control (QC) measures applied to the SI sampling activities on May 5, 2023, May 13, 2024, September 5, 2024, September 12, 2024, and September 23, 2024.

10.1 Quality Assurance

Summary tables of analytical methods and QA indicators pursuant to N.J.A.C. 7:26E-2.1 that were employed during the soil sampling events conducted on May 5, 2023, May 13, 2024, September 5, 2024, and September 12, 2024 are presented below. The sample locations are illustrated on **Figure 4** through **Figure 9** and results are summarized in **Table 1** through **Table 4D.**

Soil Analytical Summary – May 5, 2023, SDG 460-279709

Analysis	EPA Method	Samples	QC Samples	Pres-ervative	Bottle Type	Bottle Vol.	Hold Time
TCL VOA + 15 TICS	8260D	4 Conditional 25% analyzed	0	1-MeOH 2-Water	Glass	40 ml Vial	48 hour prep/14 Day analysis
EPH Category 2	NJDEP EPH	4	0	None	Glass	8 ounce	14 Days
TCL SVOA + 15 TICS	8270E	4 Conditional 25% analyzed					14 Day extraction/ 40 Day analysis
PCB	8082A						
TAL Metals	6020B/7471B						180 Days/ 28 Days (Hg)

Soil Analytical Summary – May 13, 2024, SDG 460-304060

Analysis	EPA Method	Samples	QC Samples	Pres-ervative	Bottle Type	Bottle Vol.	Hold Time
EPH Category 2	NJDEP EPH	5	0	None	Glass	8 ounce	14 Days
Mercury	7471B						28 Days
SPLP Mercury	1312/7470A						28 Days

Soil Analytical Summary – September 5, 2024, SDG 460-310859

Analysis	EPA Method	Samples	QC Samples	Pres-ervative	Bottle Type	Bottle Vol.	Hold Time
TCL VOA + 15 TICS + TBA	8260D	8	0	1-MeOH 2-Water	Glass	40 ml Vial	48 hour prep/14 Day analysis
EPH Category 1 Conditional naphthalene + 2-methylnaphthalene	NJDEP EPH	2	0	None	Glass	2 ounce	14 Days (EPH)/14 Day extraction/ 40 Day analysis
EPH Category 2	NJDEP EPH/8270E	6	0	None	Glass	2 ounce	14 Days
TCL SVOA + 15 TICS	8270E					16 ounce	14 Day extraction/ 40 Day analysis
PCB	8082A						
Herbicides	8151A						
Pesticides	8081B						
Cyanide	9012B						28 Days
TAL Metals	6020B/ 7471B						180 Days/ 28 Days (Hg)
PFAS	1633	3				8 ounce	28 Days
SPLP PFAS	1312/1633						28 day leach/28 Day to analysis
SPLP VOA	1312/8260D	3 Conditional				2 - 25 Gram encore	48 hours/14 day leach/14 Day to analysis
SPLP SVOA	1312/8270E					8 ounce	14 day leach 14 day extraction 40 day analysis
SPLP Metals	1312/6020B/7470A						180 day 28 day (Hg)

Soil Analytical Summary – September 12, 2024, SDG 460-311355

Analysis	EPA Method	Samples	QC Samples	Pres-ervative	Bottle Type	Bottle Vol.	Hold Time
TCL VOA + 15 TICS	8260D	8	0	1-MeOH 2-Water	Glass	40 ml Vial	48 hour prep/14 Day analysis
EPH Category 2	NJDEP EPH/8270E	8		None	Glass	2 ounce	14 Days
TCL SVOA + 15 TICS	8270E	8				16 ounce	14 Day extraction/ 40 Day analysis
SVOA PAH	8270E	1					
PCB	8082A	5					
Herbicides	8151A	5					
Pesticides	8081B	5					
TAL Metals	6020B/7471B	9					180 Days/ 28 Days (Hg)
Hexavalent Chromium	7196	6 Conditional				4 ounce	28 Days
SPLP VOA	1312/8260D	6 Conditional				2 - 25 Gram encore	48 hours/14 day leach/14 Day to analysis
SPLP SVOA	1312/8270E					8 ounce	14 day leach 14 day extraction 40 day analysis
SPLP Metals	1312/6020B/ 7470A						180 day 28 day (Hg)

Summary tables of analytical methods and QA indicators pursuant to N.J.A.C. 7:26E-2.1 that were employed during the groundwater sampling event conducted on September 23, 2024 is presented below. The sample locations are illustrated on **Figure 9** and results are summarized in **Table 6A through Table 6C**.

Groundwater Analytical Summary – September 23, 2024

Analysis	EPA Method	Samples	QC Samples	Pres-ervative	Bottle Type	Bottle Vol.	Hold Time
TCL VOA + TBA + 15 + SIMS	8260D	5	1-Equipment Blank 1-Trip Blank	HCL	Glass	3-40 ml Vial	14 Days
TCL SVOA + 15 + 1-methylnaphthalene + SIMs	8270E	5	0	None	Amber Glass	3-250 ml	28 Days
TAL Metals	6020B/ 7470A	5	0	HNO3	Plastic	250 ml	180 Days/ 28 Days (Hg)

10.2 Analytical Data Quality Review

Reduced Laboratory Data Deliverable Packages for all soil and groundwater samples collected during the SI are included in **Appendices C-1 through C-5.** As required by Appendix A of 7:26E, the Reduced Laboratory Data Deliverable Packages contain an Analytical Results Summary for each sample, including units, Practical Quantitation Limits/Method Detection Limits (MDLs) and results, as well as separate tables for TICs. Review of the laboratory QC information shows that QC indicators including sample holding times, ability to achieve MDLs, precision, and accuracy criteria for the analytical methods, and other indicators of data quality are within acceptable ranges, except for a SPLP SVOCs sample collected on September 12, 2024.

The analytical data meet the data quality objectives for the Site. Analytical sampling procedures met NJDEP Field Manual sampling protocols. Proper sampling, preservation, handling and shipping of samples was performed unless stated above. Analytical laboratories performing the work were certified by the State of New Jersey for the analyses performed. Internal and external laboratory QA and QC data were performed properly.

At times, the laboratory qualified data due to recoveries from laboratory control samples and duplicate samples and/or matrix spike and matrix spike duplicate results. Though some data were qualified, none of the data required to be rejected as a result of the qualifications. A review by the LSRP has deemed that the analytical data reported meets the QC objectives and the data is acceptable, however a technical deviation of the SPLP SVOC sample out of hold that did not meet regulatory requirements is discussed in **Section 11**.

Review of the laboratory QC information for the May 5, 2023, soil sampling event resulted in the following comments:

Volatiles

- All QC results are within acceptable ranges.

Semi-Volatiles

- The initial and continuing calibration verification was outside of the method criteria for benzaldehyde. The associated samples, SS-01-0-1, SS-02-0-1, SS-01-1-6, and SS-03-0-1 results could be biased low.
- The LCS/LCSD recoveries (54/66%) for 3,3-dichlorobenzidine were outside of the laboratory control limits of 70-130%. The associated batched sample, SS-01-01 reporting limits could be biased low.
- The surrogate recovery (13%) for 2-fluorophenol was outside of the laboratory control limits of 70-130%. The associated sample SS-0-0-1 is considered biased low for the acid compounds.

Extractable Petroleum Hydrocarbons

- The surrogate recoveries for samples SS-01-0-1, SS-02-0-1, and SS-01-1-6 were outside of the method control limits. The surrogates were diluted out due to high sample concentrations and was not recoverable.
- The LCS/LCSD RPDs for C12-C16 Aliphatics, C16-C21 Aliphatics, C21-C40 aliphatics, and C9-C12 Aliphatics exceeded the laboratory limit. The associated batched samples include SS-01-0-1, SS-02-0-1, SS-01-1-6, and SS-03-0-1 sample results may be biased.

Review of the laboratory QC information for the May 13, 2024 soil sampling event resulted in the following comments:

Extractable Petroleum Hydrocarbons

- The surrogate recoveries for sample PE5-2.0-2.5 1-chlorooctadecane and o-terphenyl were outside of the method control limits. Based on the high surrogate recovery of 1-chlorooctadecane indicates that C16-C21 aliphatics and C-21-C40 aliphatics could be biased high. The surrogate o-terphenyl was diluted out due to high sample concentrations and was not recoverable.

Metals

- The MS/MSD recoveries exceedances for total mercury were documented in the case narrative, but the MS/MSD data was not included in the data package for total mercury. The parent sample was not project specific and would not alter the bias of the sample results.

Review of the laboratory QC information for the September 5, 2024 soil sampling event resulted in the following comments:

Volatiles

- The LCS/LCSD recoveries (131/135%) for methyl acetate were outside of the laboratory control limits of 57-120%. The batched samples included all project samples. All sample results except for GP-4-2024-10-10.5 were non-detect, therefore no qualification necessary. The sample results for GP-4-2024-10-10.5 could be biased high.
- The LCSD recoveries (127%) for chloroethane was outside of the laboratory control limits of 60-123%. The batched samples included all project samples. All sample results were non-detect, therefore no qualification necessary.
- The continuing calibration verification was outside of the method criteria for bromoform (high), and dichlorodifluoromethane (low). Samples GP-3-2024-1-1.5, GP-3-2024-9.5-10, GP-1-2024-6-6.5, GP-1-2024-8-8.5, GP-2-2024-1-1.5, GP-2-2024-8.5-9, GP-4-2024-1-1.5, and GP-4-2024-10-10.5 were non-detect, therefore no qualification necessary.

Semi-Volatiles

- The LCS/LCSD recoveries (152/135%) for Hexachlorocyclopentadiene, LCS recovery (125%) for 2,4-dimethylphenol, and LCS recovery (125%) for Benzo(g,h,i)perylene were outside of the laboratory control limits. The batched samples included all project samples.

All sample results were non-detect, except for samples GP-3-2024-1-1.5, and GP-4-2024-1-1.5. Samples GP-3-2024-1-1.5, and GP-4-2024-1-1.5 could be biased high.

- The LCS/LCSD RPD for 4-Chloroaniline, Benzidine, and 3,3'Dichlorobenzidine was outside of the laboratory control limits. All sample results were non-detect, therefore no qualification necessary.
- The initial and continuing calibration verification was outside of the method criteria for benzaldehyde. The associated samples, GP-3-2024-1-1.5, GP-3-2024-9.5-10, GP-2-2024-1-1.5, GP-2-2024-8.5-9, GP-4-2024-1-1.5, and GP-4-2024-10-10.5 were non-detect, reporting limits could be biased low.
- The MS/MSD recoveries was outside of the laboratory control limits for multiple compounds. The parent sample was not project specific, and therefore no qualifications necessary.
- The MS/MSD RPDs exceeded the upper laboratory control limits for Hexachlorobutadiene, 4-Chloroaniline, and Benzidine. The associated batched samples include GP-3-2024-1-1.5, GP-3-2024-9.5-10, GP-2-2024-1-1.5, GP-2-2024-8.5-9, GP-4-2024-1-1.5, and GP-4-2024-10-10.5 sample results may be biased.
- The continuing calibration verification was outside of the method criteria for Benzaldehyde The associated samples, GP-3-2024-1-1.5, GP-3-2024-9.5-10, GP-2-2024-1-1.5, GP-2-2024-8.5-9, GP-4-2024-1-1.5, and GP-4-2024-10-10.5 reporting limits could be biased low.

Pesticides

- The surrogate recoveries for samples GP-3-2024-1-1.5, GP3-2024-9.5-10, GP-2-2024-1-1.5, GP-2-2024-8.5-9, GP-4-2024-1-1.5, and GP-4-2024-10-10.5 for Decachlorobiphenyl were outside of the laboratory control limits on both columns. All sample results except for GP-4-2024-1-1.5 were non-detect, therefore no qualification necessary. The sample results for GP-4-2024-1-1.5 could be biased high.

PCBs

- The surrogate recoveries for sample GP-3-2024-9.5-10, GP-2-2024-1-1.5, and GP-2-2024-8.5-9 for Decachlorobiphenyl were outside of the laboratory control limits. All sample results except for GP-2-2024-1-1.5 were non-detect, therefore no qualification necessary. The sample results for GP-2-2024-1-1.5 could be biased high.

Herbicides

- The MS/MSD recoveries exceeded for 2,4-D. The parent sample was not project specific.

Extractable Petroleum Hydrocarbons

- The MS/MSD recoveries exceeded for C12-C16 aliphatics, and C9-C12 aliphatics. The parent sample was not project specific.

Metals

- The MS/MSD recoveries and duplicate RPDs exceeded the laboratory control limits for multiple compounds. The parent sample was not project specific.
- Nickel was detected in the SPLP leachate blank. The sample concentrations were less than five times the leachate blank concentration, and the nickel concentration could be laboratory contamination.
- The MS/MSD (102%/103%) recoveries exceedances for cyanide exceeded the laboratory control limits of 29-100%. The sample recovery is still within reasonable limits. The associated batched samples include GP-3-2024-1-1.5, GP-3-2024-9.5-10, GP-2-2024-1-1.5, GP-2-2024-8.5-9, GP-4-2024-1-1.5, and GP-4-2024-10-10.5

PFAS

- The SPLP LLCS recovery (151%) for 4:2 FTS was outside of the laboratory control limits. The batched samples included all project samples. All sample results were non-detect, therefore no qualification necessary.
- The MS/MSD recoveries and duplicate RPDs exceeded the laboratory control limits for PFOS. The parent sample was not project specific.
- SPLP PFOS was detected in the leachate blank. The batched sample concentrations were greater than five times the leachate blank concentration, and no qualification necessary.

Review of the laboratory QC information for the September 12, 2024 soil sampling event resulted in the following comments:

Volatiles

- The continuing calibration verification was outside of the method criteria for bromoform (high). All associated samples were non-detect, therefore no qualifications necessary. The continuing calibration verification was outside of the method criteria for dichlorodifluoromethane (low). Samples TP4-2024-1.0-1.5, TP3-2024-1.0-1.5, TP8-2024-1.0-1.5, TP8-2024-8.0-8.5, TP6-2024-1.0-1.5, TP9-20024-1.0-1.5, TP11-2024-1.0-1.5, TP11-2024-8.0-8.5, TP12-2024-1.0-1.5, and TP2-2024-1.0-1.5 were non-detect, but reporting limits may be biased low.
- The LCS/LCSD recoveries (139/139%) for bromoform and the LCS recoveries for chloroethane (124%) were outside of the laboratory control limits. Samples TP4-2024-1.0-1.5, TP3-2024-1.0-1.5, TP8-2024-1.0-1.5, TP8-2024-8.0-8.5, TP6-2024-1.0-1.5, TP9-20024-1.0-1.5, TP11-2024-1.0-1.5, TP11-2024-8.0-8.5, TP12-2024-1.0-1.5, and TP2-2024-1.0-1.5 were non-detect, therefore no qualification necessary.

Semi-Volatiles

- The LCS/LCSD recoveries (158/160%) for Hexachlorocyclopentadiene were outside of the laboratory control limits. All sample results were non-detect, therefore no qualification necessary.

- The MS/MSD recoveries and the RPD limits were outside of the laboratory control limits for multiple compounds. The parent sample was not project specific, and therefore no qualifications necessary.
- The continuing calibration verification was outside of the method criteria for Benzaldehyde and Benzidine. The associated samples, TP4-2024-1.0-1.5, TP3-2024-1.0-1.5, TP8-2024-1.0-1.5, TP8-2024-8.0-8.5, TP6-2024-1.0-1.5, TP9-2024-1.0-1.5, TP11-2024-1.0-1.5, TP11-2.24-8.0-8.5, TP12-2024-1.0-1.5, and TP2-2024-1.0-1.5. The sample reporting limits could be biased low.
- SPLP of SVOCs on sample TP4-2024-1.0-1.5 was run out of hold time. The data is flagged as does not meet regulatory requirements. A technical deviation of the data is further discussed in **Section 11**.

Pesticides

- The surrogate recoveries for samples TP2-2024-1.0-1.5, TP3-2024-1-1.5, TP8-2024-1.0-1.5, TP9-2024-1.0-1.5, and TP12-2024-1.0-1.5 for Decachlorobiphenyl were outside of the laboratory control limits on both columns. All sample results were non-detect, therefore no qualification necessary.
- The RPD column between TP3-2024-1.0-1.5 were greater than 40%. The lower of the two column concentrations was reported and the sample concentrations is considered estimated.

PCBs

- The surrogate recovery for samples TP8-2024-1.0-1.5 was outside of the method control limits. The surrogates were diluted out due to high sample concentrations and was not recoverable.

Herbicides

- The surrogate recoveries for sample TP12-2024-1.0-1.5 for Dichlorophenylacetic acid was outside of the laboratory control limits (high). All sample results were non-detect, therefore no qualification necessary.
- The continuing calibration verification and the closing continuing calibration verification for multiple compounds were outside of the method. All sample results were non-detect, therefore no additional qualifications necessary.

Extractable Petroleum Hydrocarbons

- Surrogate o-Terphenyl (176%) was outside of the laboratory control limits for sample TP2-2024-1.0-1.5, and o-Terphenyl and 1-Chlorooctadecane for sample TP8-2024-1.0-1.5. Sample was not re-extracted due to obvious matrix interferences, and sample results are considered estimated.

Metals

- Metals MS/MSD The MS/MSD recoveries and duplicate RPDs exceeded the laboratory control limits for multiple compounds. The parent sample was not project specific.

Review of the laboratory QC information for the September 23, 2024 groundwater sampling event resulted in the following comments:

Volatiles

- The continuing calibration verification was outside of the method criteria for chloromethane, and dichlorodifluoromethane both low. The reporting limits for dichlorodifluoromethane and chloromethane could be biased low.

Semi-Volatiles

- The LCS recovery for 2-Chlorophenol, 2-Methylphenol, and 3,3'Dichlorobenzidine and LCSD recovery for 2-Chlorphenol, 2-Methylnaphthalene, 2-Methylphenol, and 3,3'Dichlorobenzidine were outside of the laboratory control limits. The sample reporting limits could be biased low.
- The continuing calibration verification was outside of the method criteria for Benzaldehyde (low). The reporting limits for Benzaldehyde could be biased low.
- The surrogate recoveries for sample MW-2, and EB-240923 for 2,4,6-Tribromophenol was outside of the laboratory control limits (high). All sample results were non-detect, therefore no qualification necessary.

Metals

- All QC results are within acceptable ranges.

11.0 VARIANCE AND DEVIATIONS

N.J.A.C. 7:26E-1.6(b)4i and ii require that each remedial phase report present a list of variances from the regulations and deviations from technical guidance.

11.1 Variances

As described in the *Brownfield and Contaminated Site Remediation Act* of 2012 (N.J.S.A. 58:10B-2b) a person performing a remediation may deviate from the strict adherence to the regulations, in a variance procedure or by another method prescribed by the department, if that person can demonstrate that the deviation and the resulting remediation would be as protective of human health, safety, and the environment, as appropriate, as the department's regulations and that the health risk standards established in subsection d. of section 35 of P.L.1993, c.139 (C.58:10B-12) and any applicable environmental standards would be met. Factors to be considered in determining if the deviation should be allowed are whether the alternative method:

1. has been either used successfully or approved by the department in writing or similar situations;
2. reflects current technology as documented in peer-reviewed professional journals;
3. can be expected to achieve the same or substantially the same results or objectives as the method which it is to replace; and
4. Furthers the attainment of the goals of the specific remedial phase for which it is used.

No variances from the applicable regulations were identified for the purposes of this assessment.

11.2 Deviations

The *Site Remediation Reform Act* ("SRRA") at N.J.S.A. 58:10C-14c(3) and the *Administrative Requirements for the Remediation of Contaminated Sites* ("ARRCS") at N.J.A.C. 7:26C-6.2(c)3 require environmental professionals to apply NJDEP technical guidelines (i.e., guidance) in regard to site remediation.

Additionally, as provided in both N.J.S.A. 58:10C-14c(4) and N.J.A.C. 7:26C-6.2(c)4, if there is no specific NJDEP requirement and guidelines issued by NJDEP are not considered appropriate or necessary in the professional judgment of the environmental professional, additional guidelines may be used to make remedial decisions providing the rationale for such use is set forth in the relevant submittal by the environmental professional. Additional guidelines would include (in order of preference, as set forth in SRRA):

1. Relevant guidance from the US Environmental Protection Agency or other states; and
2. Other relevant, applicable, and appropriate methods and practices that ensure the protection of the public health and safety, and of the environment.

If the environmental professional does not consider NJDEP guidance appropriate or necessary, the environmental professional must explain why and provide adequate justification to document that the decisions made are still protective of public health, safety and the environment pursuant

to SRRA. The complexity of the explanation will be relative to the complexity of site conditions, and whether Department guidelines were available. environmental professionals should exercise their professional judgment regarding the level of detail needed to adequately justify decisions that were made.

The following deviation from the technical guidance were identified for the purposes of this assessment:

- Due to a laboratory error, SPLP SVOC (TP4-2024-1.0-1.5, collected on September 12, 2024) was analyzed out of hold time. Montrose requested the analysis within the specified 14-day holding time, however the sample was not analyzed until October 3, 2024 which is eight days out of 14-day hold time. See **Section 11** for further discussion. This is a deviation from N.J.A.C. 7:26E-2.2 Quality Assurance Project Plan. Montrose utilized professional judgment and accepted the data from this out-of-hold sample to develop the SSSRSMGW for SVOCs with the NJDEP SPLP spreadsheet calculator.

12.0 DISCUSSION

Montrose performed this SI on behalf of CRA in conformance with the scope and limitations of N.J.A.C. 7:26E 3.3 through 3.5 and the NJDEP's *Site Investigation of Soils Technical Guidance* (March 2015) and NJDEP's *Site Investigation Groundwater Technical Guidance* (April 2012) for the Entire Site identified as "S Yaffa's Sons Inc", NJDEP CSRRP PI # 025881.

Four soil borings, eight test pits, and three permanent monitoring wells were installed at the Site in September 2024 to investigate nine AOCs identified in Montrose's August 14, 2024 PAR. Historical fill was observed in the upper one to three feet across the Site. Soil exceedances were generally limited to shallow soil samples collected at 1-1.5 feet bgs. SI sampling throughout the Site conducted in September 2024 reported EPH results ranging from non-detect to 4,000 mg/kg. A few VOCs were detected above laboratory Reporting Limits (MTBE, TBA, TCE, etc.), but no VOC exceedances were reported in soil. A total of seven shallow soil samples reported PAHs exceeding a NJDEP SRS. PCBs exceeded NJDEP SRS in several shallow soil samples. All soil PFAS meet the interim Direct Contact SRS. SPLP was performed to calculate a SS-SRSMGW). Two samples exceeded the calculated SS-SRSMGW.

The groundwater table was measured at approximately 9 to 10 feet bgs in monitoring wells installed at the Site. Groundwater flow direction is estimated to be to the southeast, based on calculated static groundwater table elevations at the wells. If confirmed by multiple gauging events, MW-1 would be the up-gradient well and represent background groundwater conditions coming on to the Site. No exceedances were reported in MW-1.

Groundwater samples (analyzed for VOCs, SVOCs, and Metals only) reported exceedances of Metals including Aluminum, Arsenic, Iron, Lead, Manganese, and Sodium. Note that the GWQS for Aluminum, Iron, Manganese, and Sodium do not apply at this Site. These limits are based on secondary drinking water characteristics (such as taste and odor), rather than a health risk. The shallow groundwater around the Site is unlikely to be used for potable purposes. Arsenic and Lead exceedances were only reported from MW-2 in the one sampling event. This well is located at the former location of the Yaffa scrap metal and junk pile and Weyhill's Pile B (AOC-6a and AOC-6d). Additional sampling is recommended to confirm these exceedances, but it appears they are delineated by MW-1 (up-gradient to the northwest) and MW-3 (cross-gradient to the southwest).

No potentially potable wells were identified during the initial potable well search (see **Section 9.2**).

Further investigation is recommended for the following:

- Delineation of soil exceeding NJDEP remediation standards
- MGW evaluation for mobile COCs such as 2-Methylnaphthalene, Naphthalene, PFOS, and PFOA.
- Arsenic and Lead exceedances in groundwater at monitoring well MW-2.
- Determination of which exceedances are associated with specific historical uses versus site-wide AOCs, including historical fill.

Montrose recommends Remedial Investigation activities at 7 of the 9 AOCs:

AOC ID	Description	RI Recommended
AOC-2	Former Registered 500- or 550-Gallon Gasoline/Diesel-Fuel UST	No
AOC-3	Loading/Unloading Areas for Trash and Demolition debris	Yes
AOC-4	Storage Pads, Including Drum and/or Waste Storage	Yes
AOC-6	Waste Piles, as defined by N.J.A.C. 7:26	Yes
AOC-7	Historical Fill	Yes
AOC-9	Spill Incident # 96-04-19-0840-37: Spills from trucks cranes, and containers	Yes
AOC-10	Spill Incident # 23-03-27-1509-15: Stained soil underneath screening equipment	No
AOC-11	Former Railroad Spur	Yes
AOC-13	Former On-Site Operations	
	• AOC-13a: Steam Fitting Shop	No
	• AOC-13b: Greenhouse	No
	• AOC-13c: Junk Storage Areas	Yes
	• AOC-13d: Automotive Repair	Yes
	• AOC-13e: Yaffa Paper Stock Warehouse	No
	• AOC-13f: Yaffa Scrap Metal Operations	Yes
	• AOC-13g: Weyhill Soil/Debris Stockpiling Operations	Yes

13.0 CONCLUSIONS

No exceedances of Total EPH, VOCs, Herbicides/Pesticides, or Cyanide were reported. The majority of soil exceedances were reported in the shallow soil samples, and included 5 PAHs, 2 SVOCs, Total PCBs, and 10 Metals. Two samples exceeded the calculated SS-SRSMGW for PFAS compounds. The only exceedances reported from the deep soil samples were Nickel and Mercury in test pit TP-8 from 8 to 8.5 feet bgs.

In groundwater, Arsenic and Lead exceedances were reported from MW-2 only, located at the former location of the Yaffa scrap metal and junk pile.

The Remedial Investigation will need to include a deeper examination of which exceedances are related to which AOCs (location-specific AOCs versus site-wide AOCs). This is especially true of historical fill. Additional samples may be needed to tease out the PAH and Metal exceedances related to fill material versus long-term industrial use, spills, and discharges.

Montrose's activities were conducted solely to assess soil and groundwater quality pertaining to the AOCs identified in Montrose's August 14, 2024 PAR.

Tables

TABLE 1
MAY 2023 SOIL ANALYTICAL RESULTS
"S. YAFFA SONS, INC."
616 CHESTNUT STREET ET AL.,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	SS-01-0-1			SS-02-0-1			SS-01-1-6			SS-03-0-1		
Lab ID:				460-279709-1			460-279709-2			460-279709-3			460-279709-4		
Date Sampled:				5/5/23			5/5/23			5/5/23			5/5/23		
Sample Depth (inches bgs):				0-1			0-1			1-6			0-1		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organic Compounds (mg/kg)															
1,1,1-Trichloroethane	0.20	160,000	NS		U	0.00019		NA			NA			NA	
1,1,2,2-Tetrachloroethane	0.0069	3.5	18		U	0.00017		NA			NA			NA	
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS		U	0.00024		NA			NA			NA	
1,1,2-Trichloroethane	0.017	12	64		U	0.00014		NA			NA			NA	
1,1-Dichloroethane	0.24	120	640		U	0.00017		NA			NA			NA	
1,1-Dichloroethene	0.0069	11	180		U	0.00018		NA			NA			NA	
1,2,3-Trichlorobenzene	NS	NS	NS		U	0.00015		NA			NA			NA	
1,2,4-Trichlorobenzene	0.52	94	13000		U	0.00029		NA			NA			NA	
1,2-Dichlorobenzene	11	6700	110000		U	0.00029		NA			NA			NA	
1,2-Dichloroethane	0.0095	5.8	30		U	0.00024		NA			NA			NA	
1,2-Dichloropropane	0.0058	5.7	27		U	0.00034		NA			NA			NA	
1,3-Dichlorobenzene	11	6700	110000		U	0.00029		NA			NA			NA	
1,4-Dichlorobenzene	1.4	780	13000		U	0.00018		NA			NA			NA	
2-Butanone (MEK)	0.98	47,000	780,000		U	0.0003		NA			NA			NA	
2-Hexanone	0.15	390	6,500		U	0.0014		NA			NA			NA	
4-Methyl-2-pentanone (MIBK)	NS	NS	NS	0.0026	J	0.0012		NA			NA			NA	
Acetone	19	70,000	NS	0.0088		0.0046		NA			NA			NA	
Benzene	0.0094	2.2	11		U	0.00021		NA			NA			NA	
Bromoform	0.018	88	460		U	0.00034		NA			NA			NA	
Bromomethane	0.043	18	82		U	0.0008		NA			NA			NA	
Carbon disulfide	3.7	NS	NS	0.00028	J	0.00021		NA			NA			NA	
Carbon tetrachloride	0.0075	1.4	6.9		U	0.00031		NA			NA			NA	
Chlorobenzene	0.64	510	8,400		U	0.00014		NA			NA			NA	
Chlorobromomethane	NS	NS	NS		U	0.00023		NA			NA			NA	
Chlorodibromomethane	0.005	8.3	43		U	0.00016		NA			NA			NA	
Dichlorodifluoromethane	38	16,000	260,000		U	0.00008		NA			NA			NA	
Chloroethane	NS	NS	NS		U	0.00042		NA			NA			NA	
Chloroform	0.33	590	13,000		U	0.00078		NA			NA			NA	
Chloromethane	NS	270	1,200		U	0.00035		NA			NA			NA	
cis-1,2-Dichloroethene	0.35	780	13,000		U	0.00029		NA			NA			NA	
cis-1,3-Dichloropropene	0.0063	4.8	23		U	0.00022		NA			NA			NA	
Cyclohexane	NS	NS	NS		U	0.00018		NA			NA			NA	
Dichlorobromomethane	0.005	11	59		U	0.00021		NA			NA			NA	
Ethylbenzene	15	10	48		U	0.00016		NA			NA			NA	
Isopropylbenzene	22	7800	130,000		U	0.00023		NA			NA			NA	
Methyl acetate	22	78000	NS		U	0.0035		NA			NA			NA	
Methyl tert-butyl ether	0.25	140	650		U	0.00041		NA			NA			NA	
Methylcyclohexane	NS	NS	NS		U	0.0004		NA			NA			NA	
Methylene Chloride	0.013	50	260		U	0.00092		NA			NA			NA	
Styrene	2.1	16,000	260,000		U	0.00022		NA			NA			NA	
Tetrachloroethene	0.0086	47	1,700	0.0009		0.00025		NA			NA			NA	
Toluene	7.8	6,300	100,000		U	0.00019		NA			NA			NA	
trans-1,2-Dichloroethene	0.56	1,300	22,000		U	0.0002		NA			NA			NA	
trans-1,3-Dichloropropene	0.0063	4.8	23		U	0.00021		NA			NA			NA	
Trichloroethene	0.0065	3.0	14		U	0.00026		NA			NA			NA	
Trichlorofluoromethane	29	23000.0	390000		U	0.00033		NA			NA			NA	
Vinyl chloride	0.0067	0.97	5.0		U	0.00044		NA			NA			NA	
Xylenes, Total	19	12,000	190,000		U	0.00014		NA			NA			NA	
VOC TIC Conc. (# TICs)	NS	NS	NS	0.018 (1)				NA			NA			NA	

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"S. YAFFA SONS, INC."
616 CHESTNUT STREET ET AL.,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	SS-01-0-1			SS-02-0-1			SS-01-1-6			SS-03-0-1		
Lab ID:				460-279709-1			460-279709-2			460-279709-3			460-279709-4		
Date Sampled:				5/5/23			5/5/23			5/5/23			5/5/23		
Sample Depth (inches bgs):				0-1			0-1			1-6			0-1		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organic Compounds (mg/kg)															
1,1'-Biphenyl	NS	87	450		U	0.13		NA			NA			NA	
1,2,4,5-Tetrachlorobenzene	NS	23	390		U	0.11		NA			NA			NA	
2,2'-oxybis[1-chloropropane]	1.9	3,100	52,000		U	0.22		NA			NA			NA	
2,4-Dinitrotoluene	NS	NS	NS		U	0.39		NA			NA			NA	
2,6-Dinitrotoluene	NS	NS	NS		U	0.26		NA			NA			NA	
2-Chloronaphthalene	NS	4,800	67,000		U	0.17		NA			NA			NA	
2-Methylnaphthalene	3.1	240	3,300		U	0.1		NA			NA			NA	
2-Nitroaniline	NS	NS	NS		U	0.28		NA			NA			NA	
3,3'-Dichlorobenzidine	3.9	1.2	5.7		U *-	0.55		NA			NA			NA	
3-Nitroaniline	NS	NS	NS		U	0.86		NA			NA			NA	
4-Bromophenyl phenyl ether	NS	NS	NS		U	0.14		NA			NA			NA	
4-Chloroaniline	0.23	2.7	13		U	0.65		NA			NA			NA	
4-Chlorophenyl phenyl ether	NS	NS	NS		U	0.13		NA			NA			NA	
4-Nitroaniline	NS	27	130		U	0.42		NA			NA			NA	
Acenaphthene	NS	3,600	50,000		U	0.1		NA			NA			NA	
Acenaphthylene	NS	NS	NS		U	0.1		NA			NA			NA	
Acetophenone	3.6	7800	130000		U	0.18		NA			NA			NA	
Anthracene	NS	18,000	250,000		U	0.11		NA			NA			NA	
Atrazine	0.33	220	3,200		U *+	0.21		NA			NA			NA	
Benzaldehyde	NS	170	910		U	0.6		NA			NA			NA	
Benzo[a]anthracene	0.71	5.1	23		U	0.27		NA			NA			NA	
Benzo[a]pyrene	NS	0.51	2.3		U	0.097		NA			NA			NA	
Benzo[b]fluoranthene	NS	5.1	23		U	0.094		NA			NA			NA	
Benzo[g,h,i]perylene	NS	NS	NS		U	0.11		NA			NA			NA	
Benzo[k]fluoranthene	NS	51	230		U	0.071		NA			NA			NA	
Bis(2-chloroethoxy)methane	NS	190	2,700		U	0.28		NA			NA			NA	
Bis(2-chloroethyl)ether	0.33	0.63	3.3		U	0.13		NA			NA			NA	
Bis(2-ethylhexyl) phthalate	14	39	180	9.4		0.19		NA			NA			NA	
Butyl benzyl phthalate	29	290	1,300		U	0.17		NA			NA			NA	
Caprolactam	16	290	1,300		U	0.57		NA			NA			NA	
Carbazole	NS	NS	NS		U	0.14		NA			NA			NA	
Chrysene	NS	510	2,300		U	0.15		NA			NA			NA	
Dibenz(a,h)anthracene	NS	0.51	2.3		U	0.16		NA			NA			NA	
Dibenzofuran	NS	NS	NS		U	0.12		NA			NA			NA	
Diethyl phthalate	44	51,000	730,000		U	0.12		NA			NA			NA	
Dimethyl phthalate	NS	NS	NS		U	0.83		NA			NA			NA	
Di-n-butyl phthalate	NS	6300	91,000		U	0.14		NA			NA			NA	
Di-n-octyl phthalate	NS	630	9,100		U	0.19		NA			NA			NA	
Fluoranthene	NS	2,400	33,000	0.14	J	0.13		NA			NA			NA	
Fluorene	NS	2,400	33,000		U	0.11		NA			NA			NA	
Hexachlorobenzene	0.17	0.43	2.3		U	0.17		NA			NA			NA	
Hexachlorobutadiene	0.17	8.9	47		U	0.078		NA			NA			NA	
Hexachlorocyclopentadiene	2.5	2.7	7,800		U	0.32		NA			NA			NA	
Hexachloroethane	0.17	17	91		U	0.13		NA			NA			NA	
Indeno[1,2,3-cd]pyrene	NS	5.1	23		U	0.14		NA			NA			NA	
Isophorone	0.23	570	2,700		U	1.1		NA			NA			NA	
Naphthalene	19	5.7	27		U	0.063		NA			NA			NA	
Nitrobenzene	0.17	7.5	36		U	0.2		NA			NA			NA	
N-Nitrosodi-n-propylamine	0.17	0.17	0.36		U	0.26		NA			NA			NA	
N-Nitrosodiphenylamine	1.1	110	520		U	0.3		NA			NA			NA	
Phenanthrene	NS	NS	NS		U	0.15		NA			NA			NA	
Pyrene	NS	1,800	25,000	0.13	J	0.091		NA			NA			NA	
SVOC TIC Conc. (# TICs)	NS	NS	NS	39.2				NA			NA			NA	

TABLE 1
MAY 2023 SOIL ANALYTICAL RESULTS
"S. YAFFA SONS, INC."
616 CHESTNUT STREET ET AL.,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	SS-01-0-1			SS-02-0-1			SS-01-1-6			SS-03-0-1		
Lab ID:				460-279709-1			460-279709-2			460-279709-3			460-279709-4		
Date Sampled:				5/5/23			5/5/23			5/5/23			5/5/23		
Sample Depth (inches bgs):				0-1			0-1			1-6			0-1		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)															
C10-C12 Aromatics	NS	NS	NS		U	11		U	2.3		U	11		U	12
C12-C16 Aromatics	NS	NS	NS		U *1	17		U *1	3	29	*1	17	30	*1	18
C16-C21 Aromatics	NS	NS	NS	130		28	15		6	320		29	490		29
C21-C36 Aromatic	NS	NS	NS	1,500		44	61		9	1,300		46	1,600		47
Total Aromatics	NS	NS	NS	1,600		2	76		2	1,700		2	2,100		2
C9-C12 Aliphatics	NS	NS	NS		U *1	660		U *1	34	76	*1	69		U *1	70
C12-C16 Aliphatics	NS	NS	NS		U *1	440	48	*1	23	400	*1	46	480	*1	47
C16-C21 Aliphatics	NS	NS	NS	2,500	*1	440	240	*1	23	720	*1	46	1,100	*1	47
C21-C40 Aliphatics	NS	NS	NS	43,000	*1	1,500	1,100	*1	79	3,200	*1	160	4,300	*1	160
Total Aliphatics	NS	NS	NS	46,000		2	1,400		2	4,400		2	5,900		2
Total EPH	NS	5,300	75,000	**48,000**		2	1,500		2	**6,100**		2	**8,000**		2
Total EPH (C9-C40)	NS	5,300	75,000	**40,000**		1,500	**21,000**		1,600	**47,000**		1,600	1,000		160
PCBs (mg/kg)															
Aroclor 1016	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1221	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1232	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1242	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1248	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1254	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1260	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor 1268	NS	NS	NS		U	0.02		NA			NA			NA	
Aroclor-1262	NS	NS	NS		U	0.02		NA			NA			NA	
Total PCBs	1.6	0.25	1.1		U	0.02		NA			NA			NA	
Metals (mg/kg)															
Aluminum	NS	78,000	NS	8,310		5.4		NA			NA			NA	
Antimony	5.4	31	520	0.29	J	0.14		NA			NA			NA	
Arsenic	19	19	19	3.5		0.1		NA			NA			NA	
Barium	2100	16,000	260,000	74.9		0.14		NA			NA			NA	
Beryllium	0.70	160	2,600	0.46		0.056		NA			NA			NA	
Cadmium	1.9	71	1,100	0.24	J	0.11		NA			NA			NA	
Calcium	NS	NS	NS	25,200		40.1		NA			NA			NA	
Chromium	NS	NS	NS	23.8		0.89		NA			NA			NA	
Cobalt	90	23	390	5.4		0.15		NA			NA			NA	
Copper	910	3,100	52,000	37.7		0.36		NA			NA			NA	
Iron	NS	NS	NS	16,500		19.9		NA			NA			NA	
Lead	90	400	800	42.1		0.2		NA			NA			NA	
Magnesium	NS	NS	NS	3,800		10		NA			NA			NA	
Manganese	NS	1,900	31,000	231		0.4		NA			NA			NA	
Mercury	0.10	23	390	**0.11**		0.0079		NA			NA			NA	
Nickel	48	1,600	26,000	13.4		0.46		NA			NA			NA	
Potassium	NS	NS	NS	1,280		15.9		NA			NA			NA	
Selenium	11	390	6,500	0.17	J	0.13		NA			NA			NA	
Silver	0.50	390	6,500		U	0.088		NA			NA			NA	
Sodium	NS	NS	NS	125		45		NA			NA			NA	
Thallium	NS	NS	NS	0.078	J	0.04		NA			NA			NA	
Vanadium	NS	390	6,500	26.5		0.2		NA			NA			NA	
Zinc	930	23,000	390,000	792		3		NA			NA			NA	

mg/kg = Milligrams per kilogram

inches bgs = Inches below ground surface

Q = Qualifier; NS = No standard; NA = Not Analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

*- = LCS and/or LCSD is outside acceptance limits, low biased.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

TABLE 2
MAY 2024 SOIL ANALYTICAL RESULTS
"S. YAFFA SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331
NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	PE1-0.0-0.5			PE2-0.0-0.5			PE3-0.0-0.5			PE4-0.0-0.5			PE5-2.0-2.5		
Lab ID:				460-304060-1			460-304060-2			460-304060-3			460-304060-4			460-304060-5		
Date Sampled:				5/13/24			5/13/24			5/13/24			5/13/24			5/13/24		
Sample Depth (ft bgs)				0.0-0.5			0.0-0.5			0.0-0.5			0.0-0.5			2.0-2.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)																		
C10-C12 Aromatics	NS	NS	NS		NA			NA			NA			NA			U	2.2
C12-C16 Aromatics	NS	NS	NS		NA			NA			NA			NA			U	11
C16-C21 Aromatics	NS	NS	NS		NA			NA			NA			NA		3.3	U	3.3
C21-C36 Aromatic	NS	NS	NS		NA			NA			NA			NA		69		11
Total Aromatics	NS	NS	NS		NA			NA			NA			NA		8.3		5.5
C9-C12 Aliphatics	NS	NS	NS		NA			NA			NA			NA		99		8.8
C12-C16 Aliphatics	NS	NS	NS		NA			NA			NA			NA		1,200		39
C16-C21 Aliphatics	NS	NS	NS		NA			NA			NA			NA			U	17
C21-C40 Aliphatics	NS	NS	NS		NA			NA			NA			NA		1,300		0.01
Total Aliphatics	NS	NS	NS		NA			NA			NA			NA		110		0.01
Total EPH	NS	5,300	75,000		NA			NA			NA			NA		1,400		0.01
Total EPH (C9-C40)	NS	5,300	75,000	160		78	430		15	39		16	230		15	**7,600**		780
Metals (mg/kg)																		
Mercury	0.10	23	390	**0.59**		0.01	**0.22**		0.01	**0.5**		0.01	**0.62**		0.01	**1.8**		0.03
SPLP Metals (µg/L)																		
Mercury	NS	NS	NS		NA			NA			NA			NA			U	0.09
SPLP																		
Sample Initial Amt (Kg)	NS	NS	NS		NA			NA			NA			NA		0.1		
Leachate Final pH (SU)	NS	NS	NS		NA			NA			NA			NA		9.55		
Leachate Final Amt (L)	NS	NS	NS		NA			NA			NA			NA		2		

Ft bgs = feet below ground surface

mg/kg = Milligrams per kilogram

µg/L = Micrograms per liter

Q = Qualifier

NA = Not analyzed

NS = No standard

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

*- = LCS and/or LCSD is outside acceptance limits, low biased.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

TABLE 3A
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS -VOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	GP-1-2024-6-6.5			GP-1-2024-8-8.5			GP-2-2024-1-1.5			GP-2-2024-8.5-9		
Lab ID:				460-310859-3			460-310859-4			460-310859-5			460-310859-6		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):				6-6.5			8-8.5			1-1.5			8.5-9		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organic Compounds (mg/kg)															
1,1,1-Trichloroethane	0.20	160,000	NS		U	0.00019		U	0.00012		U	0.00016		U	0.0001
1,1,2,2-Tetrachloroethane	0.0069	3.5	18		U	0.00018		U	0.00011		U	0.00015		U	0.000096
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS		U	0.00025		U	0.00016		U	0.00021		U	0.00013
1,1,2-Trichloroethane	0.017	12	64		U	0.00015		U	0.000092		U	0.00012		U	0.00008
1,1-Dichloroethane	0.24	120	640		U	0.00017		U	0.00011		U	0.00014		U	0.000092
1,1-Dichloroethene	0.0069	11	180		U	0.00019		U	0.00012		U	0.00015		U	0.0001
1,2,3-Trichlorobenzene	NS	NS	NS		U	0.00015		U	0.000093		U	0.00012		U	0.000081
1,2,4-Trichlorobenzene	0.52	94	13,000		U	0.0003		U	0.00018		U	0.00025		U	0.00016
1,2-Dichlorobenzene	11	6,700	110,000		U	0.0003		U	0.00019		U	0.00025		U	0.00016
1,2-Dichloroethane	0.0095	5.8	30		U	0.00024		U	0.00015		U	0.0002		U	0.00013
1,2-Dichloropropane	0.0058	5.7	27		U	0.00035		U	0.00022		U	0.00029		U	0.00019
1,3-Dichlorobenzene	11	6,700	110,000		U	0.0003		U	0.00019		U	0.00025		U	0.00016
1,4-Dichlorobenzene	1.4	780	13,000		U	0.00019		U	0.00012		U	0.00015		U	0.0001
2-Butanone (MEK)	0.98	47,000	780,000		U	0.0003		U	0.00019		U	0.00025		U	0.00016
2-Hexanone	0.15	390	6,500		U	0.0014		U	0.00088		U	0.0012		U	0.00076
4-Methyl-2-pentanone (MIBK)	NS	NS	NS		U	0.0013		U	0.0008		U	0.0011		U	0.0007
Acetone	19	70,000	NS		U	0.0047		U	0.0029		U	0.0039		U	0.0026
Acrolein	NS	NS	NS		U	0.023		U	0.014		U	0.019		U	0.013
Acrylonitrile	NS	NS	NS		U	0.004		U	0.0025		U	0.0033		U	0.0022
Benzene	0.0094	2.2	11		U	0.00021		U	0.00013		U	0.00018		U	0.00012
Bromoform	0.018	88	460		U	0.00035		U	0.00022		U	0.00029		U	0.00019
Bromomethane	0.043	18	82		U	0.00083		U	0.00052		U	0.00069		U	0.00045
Carbon disulfide	3.7	NS	NS		U	0.00022		U	0.00014		U	0.00018		U	0.00012
Carbon tetrachloride	0.0075	1.4	6.9		U	0.00032		U	0.0002		U	0.00027		U	0.00017
Chlorobenzene	0.64	510	8,400		U	0.00015		U	0.000091		U	0.00012		U	0.000079
Chlorobromomethane	NS	NS	NS		U	0.00023		U	0.00014		U	0.00019		U	0.00013
Chlorodibromomethane	0.005	8.3	43		U	0.00016		U	0.0001		U	0.00013		U	0.000087
Chloroethane	NS	NS	NS		U *+	0.00043		U *+	0.00027		U *+	0.00036		U *+	0.00023
Chloroform	0.33	590	13,000		U	0.0008		U	0.0005		U	0.00067		U	0.00043
Chloromethane	NS	270	1,200		U	0.00036		U	0.00022		U	0.0003		U	0.00019
cis-1,2-Dichloroethene	0.35	780	13,000		U	0.0003		U	0.00018		U	0.00025		U	0.00016
cis-1,3-Dichloropropene	0.0063	4.8	23		U	0.00023		U	0.00014		U	0.00019		U	0.00012
Cyclohexane	NS	NS	NS		U	0.00018		U	0.00011		U	0.00015		U	0.000099
Dichlorobromomethane	0.0050	11	59		U	0.00021		U	0.00013		U	0.00018		U	0.00011
Dichlorodifluoromethane	38	16,000	260,000		U	0.00028		U	0.00017		U	0.00023		U	0.00015
Ethylbenzene	15	10	48		U	0.00016		U	0.0001		U	0.00014		U	0.000089
Isopropylbenzene	22	7,800	130,000		U	0.00024		U	0.00015		U	0.0002		U	0.00013
Methyl acetate	22	78,000	NS		U *+	0.0035		U *+	0.0022		U *+	0.0029		U *+	0.0019
Methyl tert-butyl ether	0.25	140	650		U	0.00042		U	0.00026		U	0.00035		U	0.00023
Methylcyclohexane	NS	NS	NS		U	0.00041		U	0.00026		U	0.00034		U	0.00022
Methylene Chloride	0.013	50	260		U	0.00095		U	0.00059		U	0.00079		U	0.00051
Styrene	2.1	16,000	260,000		U	0.00023		U	0.00014		U	0.00019		U	0.00012
Tert-butyl Alcohol	0.32	1,400	23,000		U	0.0065		U	0.004		U	0.0054		U	0.0035
Tetrachloroethene	0.0086	47	1,700		U	0.00025		U	0.00016		U	0.00021		U	0.00014
Toluene	7.8	6,300	100,000		U	0.00019		U	0.00012		U	0.00016		U	0.0001
trans-1,2-Dichloroethene	0.56	1,300	22,000		U	0.0002		U	0.00013		U	0.00017		U	0.00011
trans-1,3-Dichloropropene	0.0063	4.8	23		U	0.00022		U	0.00014		U	0.00018		U	0.00012
Trichloroethene	0.0065	3.0	14		U	0.00026		U	0.00017		U	0.00022		U	0.00014
Trichlorofluoromethane	29	23,000	390,000		U	0.00034		U	0.00021		U	0.00028	0.0005		0.00018
Vinyl chloride	0.0067	0.97	5.0		U	0.00045		U	0.00028		U	0.00037		U	0.00024
Xylenes, Total	19	12,000	190,000		U	0.00014		U	0.00009		U	0.00012		U	0.000078
VOC TIC Conc. (# TICs)	NS	NS	NS	ND (0)			ND (0)			ND (0)			ND (0)		

mg/kg = Milligrams per kilogram

ft bgs = feet below ground surface

Q = Qualifier

NS = No standard

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* = Exceeds NRSRS and SRSMGW

F1 = MS and/or MSD recovery exceeds control limits.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

B = Compound was found in the blank and sample.

TABLE 3A
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS -VOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:				GP-3-2024-1-1.5			GP-3-2024-9.5-10			GP-4-2024-1-1.5			GP-4-2024-10-10.5		
Lab ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	460-310859-1			460-310859-2			460-310859-7			460-310859-8		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):				1-1.5			9.5-10			1-1.5			10-10.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organic Compounds (mg/kg)															
1,1,1-Trichloroethane	0.20	160,000	NS		U	0.00026		U	0.00018		U	0.00023		U	0.000083
1,1,2,2-Tetrachloroethane	0.0069	3.5	18		U	0.00024		U	0.00017		U	0.00021		U	0.000076
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS		U	0.00034		U	0.00023		U	0.00029		U	0.00011
1,1,2-Trichloroethane	0.017	12	64		U	0.0002		U	0.00014		U	0.00017		U	0.000063
1,1-Dichloroethane	0.24	120	640		U	0.00023		U	0.00016		U	0.0002		U	0.000073
1,1-Dichloroethene	0.0069	11	180		U	0.00025		U	0.00017		U	0.00022		U	0.00008
1,2,3-Trichlorobenzene	NS	NS	NS		U	0.0002		U	0.00014		U	0.00018		U	0.000064
1,2,4-Trichlorobenzene	0.52	94	13,000		U	0.0004		U	0.00028		U	0.00035		U	0.00013
1,2-Dichlorobenzene	11	6,700	110,000		U	0.0004		U	0.00028		U	0.00035		U	0.00013
1,2-Dichloroethane	0.0095	5.8	30		U	0.00033		U	0.00023		U	0.00029		U	0.0001
1,2-Dichloropropane	0.0058	5.7	27		U	0.00047		U	0.00033		U	0.00041		U	0.00015
1,3-Dichlorobenzene	11	6,700	110,000		U	0.00041		U	0.00028		U	0.00035		U	0.00013
1,4-Dichlorobenzene	1.4	780	13,000		U	0.00025		U	0.00017		U	0.00022		U	0.00008
2-Butanone (MEK)	0.98	47,000	780,000		U	0.00041		U	0.00028		U	0.00036		U	0.00013
2-Hexanone	0.15	390	6,500		U	0.0019		U	0.0013		U	0.0017		U	0.00061
4-Methyl-2-pentanone (MIBK)	NS	NS	NS		U	0.0017		U	0.0012		U	0.0015		U	0.00055
Acetone	19	70,000	NS		U	0.0064	0.0077		0.0044	0.034		0.0055	0.032		0.002
Acrolein	NS	NS	NS		U	0.031		U	0.022		U	0.027		U	0.0099
Acrylonitrile	NS	NS	NS		U	0.0054		U	0.0038		U	0.0047		U	0.0017
Benzene	0.0094	2.2	11		U	0.00029		U	0.0002		U	0.00025		U	0.000091
Bromoform	0.018	88	460		U	0.00047		U	0.00033		U	0.00041		U	0.00015
Bromomethane	0.043	18	82		U	0.0011		U	0.00077		U	0.00097		U	0.00035
Carbon disulfide	3.7	NS	NS		U	0.0003		U	0.00021		U	0.00026		U	0.000094
Carbon tetrachloride	0.0075	1.4	6.9		U	0.00043		U	0.0003		U	0.00037		U	0.00014
Chlorobenzene	0.64	510	8,400		U	0.0002		U	0.00014		U	0.00017		U	0.000063
Chlorobromomethane	NS	NS	NS		U	0.00031		U	0.00022		U	0.00027		U	0.0001
Chlorodibromomethane	0.005	8.3	43		U	0.00022		U	0.00015		U	0.00019		U	0.000069
Chloroethane	NS	NS	NS		U *+	0.00058		U *+	0.0004		U *+	0.0005		U *+	0.00018
Chloroform	0.33	590	13,000		U	0.0011		U	0.00075		U	0.00094		U	0.00034
Chloromethane	NS	270	1,200		U	0.00048		U	0.00034		U	0.00042		U	0.00015
cis-1,2-Dichloroethene	0.35	780	13,000		U	0.0004		U	0.00028		U	0.00035		U	0.00013
cis-1,3-Dichloropropene	0.0063	4.8	23		U	0.0003		U	0.00021		U	0.00026		U	0.000097
Cyclohexane	NS	NS	NS		U	0.00025		U	0.00017		U	0.00021		U	0.000078
Dichlorobromomethane	0.0050	11	59		U	0.00029		U	0.0002		U	0.00025		U	0.000091
Dichlorodifluoromethane	38	16,000	260,000		U	0.00038		U	0.00026		U	0.00033		U	0.00012
Ethylbenzene	15	10	48		U	0.00022		U	0.00015		U	0.00019		U	0.00007
Isopropylbenzene	22	7,800	130,000		U	0.00032		U	0.00022		U	0.00028		U	0.0001
Methyl acetate	22	78,000	NS		U *+	0.0048		U *+	0.0033		U *+	0.0042	0.0035	*+	0.0015
Methyl tert-butyl ether	0.25	140	650		U	0.00057		U	0.0004		U	0.0005		U	0.00018
Methylcyclohexane	NS	NS	NS		U	0.00056		U	0.00039		U	0.00048		U	0.00018
Methylene Chloride	0.013	50	260		U	0.0013	0.0013	J	0.00088		U	0.0011	0.0005	J	0.00041
Styrene	2.1	16,000	260,000		U	0.00031		U	0.00021		U	0.00027		U	0.000098
Tert-butyl Alcohol	0.32	1,400	23,000		U	0.0087		U	0.0061		U	0.0076	0.014		0.0028
Tetrachloroethene	0.0086	47	1,700		U	0.00034		U	0.00024		U	0.00029		U	0.00011
Toluene	7.8	6,300	100,000		U	0.00026		U	0.00018		U	0.00023		U	0.000083
trans-1,2-Dichloroethene	0.56	1,300	22,000		U	0.00027		U	0.00019		U	0.00024		U	0.000087
trans-1,3-Dichloropropene	0.0063	4.8	23		U	0.0003		U	0.00021		U	0.00026		U	0.000094
Trichloroethene	0.0065	3.0	14	0.0017		0.00036		U	0.00025		U	0.00031		U	0.00011
Trichlorofluoromethane	29	23,000	390,000		U	0.00045		U	0.00031	0.0023		0.00039	0.00033	J	0.00014
Vinyl chloride	0.0067	0.97	5.0		U	0.00061		U	0.00042		U	0.00053		U	0.00019
Xylenes, Total	19	12,000	190,000		U	0.00019		U	0.00013		U	0.00017		U	0.000062
VOC TIC Conc. (# TICs)	NS	NS	NS	ND (0)			ND (0)			ND (0)			ND (0)		

mg/kg = Milligrams per kilogram

ft bgs = feet below ground surface

Q = Qualifier

NS = No standard

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* = Exceeds NRSRS and SRSMGW

F1 = MS and/or MSD recovery exceeds control limits.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower valu

B = Compound was found in the blank and sample.

TABLE 3B
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS - SEMIVOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non Residential SRS (NRSRS)	GP-1-2024-6-6.5			GP-1-2024-8-8.5			GP-2-2024-1-1.5			GP-2-2024-8.5-9		
Lab ID:				460-310859-3			460-310859-4			460-310859-5			460-310859-6		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs)				6-6.5			8-8.5			1-1.5			8.5-9		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organic Compounds (mg/kg)															
1,1'-Biphenyl	NS	87	450		NA			NA		0.019	J	0.012		U	0.012
1,2,4,5-Tetrachlorobenzene	NS	23	390		NA			NA			U	0.01		U	0.01
1,2-Diphenylhydrazine	NS	NS	NS		NA			NA			U	0.013		U	0.013
2,2'-oxybis[1-chloropropane]	1.9	3,100	52,000		NA			NA			U	0.02		U	0.02
2,3,4,6-Tetrachlorophenol	26	1,900	27,000		NA			NA			U	0.023		U	0.023
2,4,5-Trichlorophenol	68	6,300	91,000		NA			NA			U	0.034		U	0.034
2,4,6-Trichlorophenol	0.86	49	230		NA			NA			U	0.043		U	0.043
2,4-Dichlorophenol	0.19	190	2,700		NA			NA			U	0.021		U	0.021
2,4-Dimethylphenol	2.3	1,300	18,000		NA			NA			U *+	0.04		U *+	0.04
2,4-Dinitrophenol	0.33	130	1,800		NA			NA			U	0.16		U	0.16
2,4-Dinitrotoluene	NS	NS	NS		NA			NA			U	0.036		U	0.036
2,6-Dinitrotoluene	NS	NS	NS		NA			NA			U	0.024		U	0.024
2-Chloronaphthalene	NS	4,800	67,000		NA			NA			U	0.015		U	0.015
2-Chlorophenol	0.76	390	6,500		NA			NA			U	0.012		U	0.012
2-Methylnaphthalene	3.1	240	3,300		NA			NA		0.058	J	0.0093		U	0.0093
2-Methylphenol	0.77	320	4,600		NA			NA			U	0.012		U	0.012
2-Nitroaniline	NS	NS	NS		NA			NA			U	0.025		U	0.025
2-Nitrophenol	NS	NS	NS		NA			NA			U	0.033		U	0.033
3,3'-Dichlorobenzidine	3.9	1.2	5.7		NA			NA			U *1	0.05		U *1	0.05
3-Nitroaniline	NS	NS	NS		NA			NA			U	0.079		U	0.079
4,6-Dinitro-2-methylphenol	NS	NS	NS		NA			NA			U	0.14		U	0.14
4-Bromophenyl phenyl ether	NS	NS	NS		NA			NA			U	0.013		U	0.013
4-Chloro-3-methylphenol	NS	NS	NS		NA			NA			U	0.019		U	0.019
4-Chloroaniline	0.23	2.7	13		NA			NA			U *1	0.059		U *1	0.059
4-Chlorophenyl phenyl ether	NS	NS	NS		NA			NA			U	0.012		U	0.012
4-Methylphenol	0.75	630	9,100		NA			NA			U	0.021		U	0.021
4-Nitroaniline	NS	27	130		NA			NA			U	0.038		U	0.038
4-Nitrophenol	NS	NS	NS		NA			NA			U	0.054		U	0.054
Acenaphthene	NS	3,600	50,000		NA			NA		0.29	J	0.0095		U	0.0095
Acenaphthylene	NS	NS	NS		NA			NA		0.015	J	0.0095		U	0.0095
Acetophenone	3.6	7,800	130,000		NA			NA			U	0.016		U	0.016
Anthracene	NS	18,000	250,000		NA			NA		0.57		0.01		U	0.01
Atrazine	0.33	220	3,200		NA			NA			U	0.02		U	0.02
Benzaldehyde	NS	170	910		NA			NA			U	0.055		U	0.055
Benzidine	NS	NS	NS		NA			NA			U *1	0.07		U *1	0.07
Benzo[a]anthracene	0.71	5.1	23		NA			NA		**0.86**		0.025		U	0.025
Benzo[a]pyrene	NS	0.51	2.3		NA			NA		**0.72**		0.0089		U	0.0089
Benzo[b]fluoranthene	NS	5.1	23		NA			NA		0.82		0.0086		U	0.0086
Benzo[g,h,i]perylene	NS	NS	NS		NA			NA		0.4	*+	0.0098		U *+	0.0098
Benzo[k]fluoranthene	NS	51	230		NA			NA		0.38		0.0065		U	0.0065
Bis(2-chloroethoxy)methane	NS	190	2,700		NA			NA			U	0.026		U	0.026
Bis(2-chloroethyl)ether	0.33	0.63	3.3		NA			NA			U	0.012		U	0.012
Bis(2-ethylhexyl) phthalate	14	39	180		NA			NA		0.073	J	0.018		U	0.018
Butyl benzyl phthalate	29	290	1,300		NA			NA			U	0.016		U	0.016
Caprolactam	16	290	1,300		NA			NA			U	0.052		U	0.052
Carbazole	NS	NS	NS		NA			NA		0.25	J	0.013		U	0.013
Chrysene	NS	510	2,300		NA			NA		0.83		0.014		U	0.014
Dibenz(a,h)anthracene	NS	0.51	2.3		NA			NA		0.085		0.014		U	0.014
Dibenzofuran	NS	NS	NS		NA			NA		0.19	J	0.011		U	0.011
Diethyl phthalate	44	51,000	730,000		NA			NA			U	0.011		U	0.011
Dimethyl phthalate	NS	NS	NS		NA			NA			U	0.076		U	0.076
Di-n-butyl phthalate	NS	6300	91,000		NA			NA			U	0.013	0.021	J	0.013
Di-n-octyl phthalate	NS	630	9,100		NA			NA			U	0.018		U	0.018
Fluoranthene	NS	2,400	33,000		NA			NA		2.1		0.012		U	0.012
Fluorene	NS	2,400	33,000		NA			NA		0.3	J	0.0097		U	0.0098
Hexachlorobenzene	0.17	0.43	2.3		NA			NA			U	0.016		U	0.016
Hexachlorobutadiene	0.17	8.9	47		NA			NA			U	0.0071		U	0.0071
Hexachlorocyclopentadiene	2.5	2.7	7,800		NA			NA			U *+	0.029		U *+	0.029
Hexachloroethane	0.17	17	91		NA			NA			U	0.011		U	0.011
Indeno[1,2,3-cd]pyrene	NS	5.1	23		NA			NA		0.39		0.013		U	0.013
Isophorone	0.23	570	2,700		NA			NA			U	0.096		U	0.096
Naphthalene	19	5.7	27		NA			NA		0.1	J	0.0057		U	0.0058
Nitrobenzene	0.17	7.5	36		NA			NA			U	0.018		U	0.019
N-Nitrosodimethylamine	NS	NS	NS		NA			NA			U	0.031		U	0.031
N-Nitrosodi-n-propylamine	0.17	0.17	0.36		NA			NA			U	0.024		U	0.024
N-Nitrosodiphenylamine	1.1	110	520		NA			NA			U	0.027		U	0.027
Pentachlorophenol	0.33	1.0	4.4		NA			NA			U	0.068		U	0.068
Phenanthrene	NS	NS	NS		NA			NA		2.5		0.014		U	0.014
Phenol	21	19,000	270,000		NA			NA			U	0.012		U	0.012
Pyrene	NS	1,800	25,000		NA			NA		1.8		0.0083		U	0.0083
SVOC TIC Conc. (# TICs)	NS	NS	NS		NA			NA		1.27 (4)			0.37 (1)		

mg/kg = Milligrams per kilogram
ft bgs = feet below ground surface
Q = Qualifier; MDL = Method Detection Limit
NS = No standard
U = Analyzed for but Not Detected at the MDL
Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds 2021 RSRS and 2021 SRSMGW
* = NRSRS that exceeds SRSMGW

p = %RPD between the primary and confirmation column/detector is >40%. Lower value reported.
F1 = MS and/or MSD recovery exceeds control limits.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
*1 = LCS/LCSD RPD exceeds control limits.
B = Compound was found in the blank and sample.
J = Concentration detected at a value below the RL and above the MDL

TABLE 3B
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS - SEMIVOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:				GP-3-2024-1-1.5			GP-3-2024-9.5-10			GP-4-2024-1-1.5			GP-4-2024-10-10.5		
Lab ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non Residential SRS (NRSRS)	460-310859-1			460-310859-2			460-310859-7			460-310859-8		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs)				1-1.5			9.5-10			1-1.5			10-10.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organic Compounds (mg/kg)															
1,1'-Biphenyl	NS	87	450		U	0.012		U	0.012		U	0.012		U	0.012
1,2,4,5-Tetrachlorobenzene	NS	23	390		U	0.011		U	0.011		U	0.011		U	0.01
1,2-Diphenylhydrazine	NS	NS	NS		U	0.014		U	0.014		U	0.013		U	0.013
2,2'-oxybis[1-chloropropane]	1.9	3,100	52,000		U	0.021		U	0.021		U	0.021		U	0.02
2,3,4,6-Tetrachlorophenol	26	1,900	27,000		U	0.023		U	0.024		U	0.023		U	0.023
2,4,5-Trichlorophenol	68	6,300	91,000		U	0.035		U	0.036		U	0.035		U	0.034
2,4,6-Trichlorophenol	0.86	49	230		U	0.044		U	0.046		U	0.044		U	0.043
2,4-Dichlorophenol	0.19	190	2,700		U	0.022		U	0.023		U	0.022		U	0.021
2,4-Dimethylphenol	2.3	1,300	18,000		U *+	0.041		U *+	0.042		U *+	0.041		U *+	0.04
2,4-Dinitrophenol	0.33	130	1,800		U	0.17		U	0.17		U	0.17		U	0.16
2,4-Dinitrotoluene	NS	NS	NS		U	0.037		U	0.038		U	0.037		U	0.036
2,6-Dinitrotoluene	NS	NS	NS		U	0.025		U	0.026		U	0.025		U	0.024
2-Chloronaphthalene	NS	4,800	67,000		U	0.016		U	0.016		U	0.016		U	0.015
2-Chlorophenol	0.76	390	6,500		U	0.012		U	0.013		U	0.012		U	0.012
2-Methylnaphthalene	3.1	240	3,300		U	0.0097		U	0.01		U	0.0096		U	0.0093
2-Methylphenol	0.77	320	4,600		U	0.013		U	0.013		U	0.013		U	0.012
2-Nitroaniline	NS	NS	NS		U	0.026		U	0.027		U	0.026		U	0.025
2-Nitrophenol	NS	NS	NS		U	0.035		U	0.036		U	0.034		U	0.033
3,3'-Dichlorobenzidine	3.9	1.2	5.7		U *1	0.052		U *1	0.054		U *1	0.052		U *1	0.05
3-Nitroaniline	NS	NS	NS		U	0.082		U	0.084		U	0.081		U	0.079
4,6-Dinitro-2-methylphenol	NS	NS	NS		U	0.14		U	0.15		U	0.14		U	0.14
4-Bromophenyl phenyl ether	NS	NS	NS		U	0.014		U	0.014		U	0.014		U	0.013
4-Chloro-3-methylphenol	NS	NS	NS		U	0.019		U	0.02		U	0.019		U	0.019
4-Chloroaniline	0.23	2.7	13		U *1	0.061		U *1	0.063		U *1	0.061		U *1	0.059
4-Chlorophenyl phenyl ether	NS	NS	NS		U	0.012		U	0.013		U	0.012		U	0.012
4-Methylphenol	0.75	630	9,100		U	0.022		U	0.022		U	0.021		U	0.021
4-Nitroaniline	NS	27	130		U	0.04		U	0.041		U	0.039		U	0.038
4-Nitrophenol	NS	NS	NS		U	0.056		U	0.058		U	0.056		U	0.054
Acenaphthene	NS	3,600	50,000	0.013	J	0.0098		U	0.01	0.043	J	0.0098		U	0.0095
Acenaphthylene	NS	NS	NS		U	0.0099		U	0.01	0.018	J	0.0098		U	0.0095
Acetophenone	3.6	7,800	130,000		U	0.017		U	0.017		U	0.017		U	0.016
Anthracene	NS	18,000	250,000	0.032	J	0.011		U	0.011	0.11	J	0.01		U	0.01
Atrazine	0.33	220	3,200		U	0.02		U	0.021		U	0.02		U	0.02
Benzaldehyde	NS	170	910		U	0.057		U	0.059		U	0.057		U	0.055
Benzidine	NS	NS	NS		U *1	0.072		U *1	0.075		U *1	0.072		U *1	0.07
Benzo[a]anthracene	0.71	5.1	23	0.17		0.026		U	0.027	0.37		0.026		U	0.025
Benzo[a]pyrene	NS	0.51	2.3	0.16		0.0092		U	0.0095	0.32		0.0091		U	0.0089
Benzo[b]fluoranthene	NS	5.1	23	0.19		0.0089		U	0.0092	0.38		0.0089		U	0.0086
Benzo[g,h,i]perylene	NS	NS	NS	0.11	J *+	0.01		U *+	0.01	0.18	J *+	0.01		U *+	0.0098
Benzo[k]fluoranthene	NS	51	230	0.079		0.0068		U	0.007	0.16		0.0067		U	0.0065
Bis(2-chloroethoxy)methane	NS	190	2,700		U	0.027		U	0.028		U	0.027		U	0.026
Bis(2-chloroethyl)ether	0.33	0.63	3.3		U	0.012		U	0.012		U	0.012		U	0.012
Bis(2-ethylhexyl) phthalate	14	39	180	0.3	J	0.018		U	0.019	0.045	J	0.018		U	0.018
Butyl benzyl phthalate	29	290	1,300	0.13	J	0.016		U	0.017		U	0.016		U	0.016
Caprolactam	16	290	1,300		U	0.054		U	0.055		U	0.053		U	0.052
Carbazole	NS	NS	NS	0.015	J	0.013		U	0.014	0.049	J	0.013		U	0.013
Chrysene	NS	510	2,300	0.16	J	0.015		U	0.015	0.36		0.014		U	0.014
Dibenz(a,h)anthracene	NS	0.51	2.3	0.015	J	0.015		U	0.015	0.041		0.015		U	0.014
Dibenzofuran	NS	NS	NS		U	0.012		U	0.012	0.021	J	0.011		U	0.011
Diethyl phthalate	44	51,000	730,000		U	0.011		U	0.011		U	0.011		U	0.011
Dimethyl phthalate	NS	NS	NS		U	0.078		U	0.081		U	0.078		U	0.076
Di-n-butyl phthalate	NS	6300	91,000	0.083	J	0.013		U	0.013	0.019	J	0.013		U	0.013
Di-n-octyl phthalate	NS	630	9,100		U	0.018		U	0.019		U	0.018		U	0.018
Fluoranthene	NS	2,400	33,000	0.32	J	0.012		U	0.012	0.77		0.012		U	0.012
Fluorene	NS	2,400	33,000	0.011	J	0.01		U	0.01	0.042	J	0.01		U	0.0098
Hexachlorobenzene	0.17	0.43	2.3		U	0.016		U	0.017		U	0.016		U	0.016
Hexachlorobutadiene	0.17	8.9	47		U	0.0074		U	0.0076		U	0.0073		U	0.0071
Hexachlorocyclopentadiene	2.5	2.7	7,800		U *+	0.03		U *+	0.031		U *+	0.03		U *+	0.029
Hexachloroethane	0.17	17	91		U	0.012		U	0.012		U	0.012		U	0.011
Indeno[1,2,3-cd]pyrene	NS	5.1	23	0.1		0.013		U	0.014	0.18		0.013		U	0.013
Isophorone	0.23	570	2,700		U	0.1		U	0.1		U	0.099		U	0.096
Naphthalene	19	5.7	27		U	0.006		U	0.0062		U	0.0059		U	0.0058
Nitrobenzene	0.17	7.5	36		U	0.019		U	0.02		U	0.019		U	0.019
N-Nitrosodimethylamine	NS	NS	NS		U	0.032		U	0.033		U	0.032		U	0.031
N-Nitrosodi-n-propylamine	0.17	0.17	0.36		U	0.025		U	0.026		U	0.025		U	0.024
N-Nitrosodiphenylamine	1.1	110	520		U	0.028		U	0.029		U	0.028		U	0.027
Pentachlorophenol	0.33	1.0	4.4		U	0.071		U	0.073		U	0.07		U	0.068
Phenanthrene	NS	NS	NS	0.2	J	0.014		U	0.015	0.61		0.014		U	0.014
Phenol	21	19,000	270,000		U	0.013		U	0.013		U	0.013		U	0.012
Pyrene	NS	1,800	25,000	0.31	J	0.0086		U	0.0089	0.72		0.0085		U	0.0083
SVOC TIC Conc. (# TICs)	NS	NS	NS	1.78 (5)			ND (0)			0.35 (1)			0.35 (1)		

mg/kg = Milligrams per kilogram
ft bgs = feet below ground surface
Q = Qualifier; MDL = Method Detection Limit
NS = No standard
U = Analyzed for but Not Detected at the MDL

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds 2021 RSRS and 2021 SRSMGW

* = NRSRS that exceeds SRSMGW

TABLE 3C
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS - INORGANICS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	GP-1-2024-6-6.5			GP-1-2024-8-8.5			GP-2-2024-1-1.5			GP-2-2024-8.5-9		
Lab ID:				460-310859-3			460-310859-4			460-310859-5			460-310859-6		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):				6-6.5			8-8.5			1-1.5			8.5-9		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)															
C10-C12 Aromatics	NS	NS	NS		U	2		U	2		NA			NA	
C12-C16 Aliphatics	NS	NS	NS		U	2		U	2		NA			NA	
C12-C16 Aromatics	NS	NS	NS		U	3		U	3		NA			NA	
C16-C21 Aliphatics	NS	NS	NS		U	2		U	2		NA			NA	
C16-C21 Aromatics	NS	NS	NS		U	5		U	5		NA			NA	
C21-C36 Aromatic	NS	NS	NS		U	8		U	8.1		NA			NA	
C21-C40 Aliphatics	NS	NS	NS		U	7		U	7.1		NA			NA	
C9-C12 Aliphatics	NS	NS	NS		U	3		U	3		NA			NA	
Total Aliphatics	NS	NS	NS		U	0.01		U	0.01		NA			NA	
Total Aromatics	NS	NS	NS		U	0.01		U	0.01		NA			NA	
Total EPH	NS	5,300	75,000		U	0.01		U	0.01		NA			NA	
Total EPH (C9-C40)	NS	5,300	75,000		NA			NA		1,200		71		U	14
Pesticides (mg/kg)															
4,4'-DDD	0.47	2.3	11		NA			NA			U	0.0012		U	0.0012
4,4'-DDE	0.47	2.0	11		NA			NA			U	0.0008		U	0.0008
4,4'-DDT	0.67	1.9	9.5		NA			NA			U	0.0012		U	0.0012
Aldrin	0.13	0.041	0.21		NA			NA			U	0.001		U	0.001
alpha-BHC	0.0023	0.086	0.41		NA			NA			U	0.00069		U	0.00069
beta-BHC	0.0046	0.30	1.4		NA			NA			U	0.00076		U	0.00076
Chlordane (technical)	1.4	0.27	1.4		NA			NA			U	0.016		U	0.016
delta-BHC	NS	NS	NS		NA			NA			U	0.00041		U	0.00041
Dieldrin	0.024	0.034	0.16		NA			NA			U	0.00088		U	0.00088
Endosulfan I	NS	470	7,800		NA			NA			U	0.001		U	0.001
Endosulfan II	NS	470	7,800		NA			NA			U	0.0017		U	0.0017
Endosulfan sulfate	NS	NS	NS		NA			NA			U	0.00085		U	0.00085
Endrin	1.6	19	270		NA			NA			U	0.00097		U	0.00097
Endrin aldehyde	NS	NS	NS		NA			NA			U	0.0016		U	0.0016
Endrin ketone	NS	NS	NS		NA			NA			U	0.0013		U	0.0013
gamma-BHC (Lindane)	0.0035	0.57	2.8		NA			NA			U	0.00063		U	0.00063
Heptachlor	0.083	0.15	0.81		NA			NA			U	0.0008		U	0.0008
Heptachlor epoxide	0.081	0.076	0.40		NA			NA			U	0.001		U	0.001
Methoxychlor	NS	320	4,600		NA			NA			U	0.0015		U	0.0015
Toxaphene	6.2	0.49	2.3		NA			NA			U	0.024		U	0.024
Herbicides (mg/kg)															
2,4,5-T	NS	NS	NS		NA			NA			U	0.0071		U	0.0072
2,4-D	NS	NS	NS		NA			NA			U	0.012		U	0.012
Silvex (2,4,5-TP)	NS	NS	NS		NA			NA			U	0.0035		U	0.0035
PCBs (mg/kg)															
Aroclor 1016	NS	NS	NS		NA			NA			U	0.036		U	0.018
Aroclor 1221	NS	NS	NS		NA			NA			U	0.036		U	0.018
Aroclor 1232	NS	NS	NS		NA			NA			U	0.036		U	0.018
Aroclor 1242	NS	NS	NS		NA			NA			U	0.036		U	0.018
Aroclor 1248	NS	NS	NS		NA			NA		0.71		0.036		U	0.018
Aroclor 1254	NS	NS	NS		NA			NA			U	0.036		U	0.018
Aroclor 1260	NS	NS	NS		NA			NA			U	0.036		U	0.018
Aroclor 1268	NS	NS	NS		NA			NA		1.6		0.036		U	0.018
Aroclor-1262	NS	NS	NS		NA			NA			U	0.036		U	0.018
Total PCBs	1.6	0.25	1.1		NA			NA		**2.2** *		0.036		U	0.018
Metals (mg/kg)															
Aluminum	NS	78,000	NS		NA			NA		4,760		4.9	4,310		5
Antimony	5.4	31	520		NA			NA		**13.1**		0.13	0.22	J	0.13
Arsenic	19	19	19		NA			NA		14.5		0.092	**22.6***		0.093
Barium	2,100	16,000	260,000		NA			NA		166		0.13	7.8		0.13
Beryllium	0.70	160	2,600		NA			NA		0.21	J	0.051	0.32	J	0.051
Cadmium	1.9	71	1,100		NA			NA		**34**		0.1	0.1	U	0.1
Calcium	NS	NS	NS		NA			NA		12,400		36.4	328		36.7
Chromium	NS	NS	NS		NA			NA		102		0.81	11		0.82
Cobalt	90	23	390		NA			NA		13.3		0.13	2.5		0.13
Copper	910	3,100	52,000		NA			NA		**4,450**		3.3	7.2		0.33
Iron	NS	NS	NS		NA			NA		83,300		180	15,400		18.2
Lead **	90	200	800		NA			NA		**3,040** *		1.8	5.3		0.18
Magnesium	NS	NS	NS		NA			NA		1,650		9.1	979		9.2
Manganese	NS	1,900	31,000		NA			NA		734		0.36	66.1		0.36
Mercury	0.10	23	390		NA			NA		**0.63**		0.0076	0.017		0.0075
Nickel	48	1,600	26,000		NA			NA		**217**		0.42	4.7		0.42
Potassium	NS	NS	NS		NA			NA		336		14.5	803		14.6
Selenium	11	390	6,500		NA			NA		0.51	J	0.11	0.12	U	0.12
Silver	0.50	390	6,500		NA			NA		**1.3**		0.08	0.08	U	0.08
Sodium	NS	NS	NS		NA			NA		164		40.8	42.9	J	41.2
Thallium	NS	NS	NS		NA			NA		0.051	J	0.037	0.037	U	0.037
Vanadium	NS	390	6,500		NA			NA		20.3		0.18	10.6		0.19
Zinc	930	23,000	390,000		NA			NA		**1,740**		2.7	23.5		2.8
Conventionals (mg/kg)															
Cyanide, Total	20	47	780		NA			NA		0.49		0.11		U F1	0.13
Hexavalent Chromium, Total	NS	240	20		NA			NA			U	0.84		NA	

mg/kg = Milligrams per kilogram

ft bgs = Feet below ground surface

Q = Qualifier; NS = No standard; NA = Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* = NRSRS that exceeds SRSMGW

** = NJAC 7:26D was amended on May 6, 2024. The lead ingestion-dermal exposure pathway was updated from 400 mg/kg to 200 mg/kg.

F1 = MS and/or MSD recovery exceeds control limits.; p = The %RPD between the primary and confirmation column/detector is >40%. Lower value reported.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.; *1 = LCS/LCSD RPD exceeds control limits.; B = Compound was found in the blank and sample.

TABLE 3C
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS - INORGANICS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	GP-3-2024-1-1.5			GP-3-2024-9.5-10			GP-4-2024-1-1.5			GP-4-2024-10-10.5		
Lab ID:				460-310859-1			460-310859-2			460-310859-7			460-310859-8		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):				1-1.5			9.5-10			1-1.5			10-10.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)															
C10-C12 Aromatics	NS	NS	NS		NA			NA			NA			NA	
C12-C16 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
C12-C16 Aromatics	NS	NS	NS		NA			NA			NA			NA	
C16-C21 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
C16-C21 Aromatics	NS	NS	NS		NA			NA			NA			NA	
C21-C36 Aromatic	NS	NS	NS		NA			NA			NA			NA	
C21-C40 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
C9-C12 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
Total Aliphatics	NS	NS	NS		NA			NA			NA			NA	
Total Aromatics	NS	NS	NS		NA			NA			NA			NA	
Total EPH	NS	5,300	75,000		NA			NA			NA			NA	
Total EPH (C9-C40)	NS	5,300	75,000	240		15		U	15	330		15		U	14
Pesticides (mg/kg)															
4,4'-DDD	0.47	2.3	11		U	0.0012		U	0.0012		U	0.0012		U	0.0012
4,4'-DDE	0.47	2.0	11		U	0.00083		U	0.00085	0.083		0.00082		U	0.0008
4,4'-DDT	0.67	1.9	9.5		U	0.0013		U	0.0013	0.12		0.0013		U	0.0012
Aldrin	0.13	0.041	0.21		U	0.0011		U	0.0011		U	0.001		U	0.001
alpha-BHC	0.0023	0.086	0.41		U	0.00071		U	0.00073		U	0.00071		U	0.00069
beta-BHC	0.0046	0.30	1.4		U	0.00078		U	0.00081		U	0.00078		U	0.00076
Chlordane (technical)	1.4	0.27	1.4		U	0.017		U	0.017		U	0.017		U	0.016
delta-BHC	NS	NS	NS		U	0.00043		U	0.00044		U	0.00043		U	0.00042
Dieldrin	0.024	0.034	0.16		U	0.00091		U	0.00094		U	0.0009		U	0.00088
Endosulfan I	NS	470	7,800		U	0.0011		U	0.0011		U	0.0011		U	0.001
Endosulfan II	NS	470	7,800		U	0.0018		U	0.0019		U	0.0018		U	0.0017
Endosulfan sulfate	NS	NS	NS		U	0.00088		U	0.00091		U	0.00087		U	0.00085
Endrin	1.6	19	270		U	0.001		U	0.001		U	0.001		U	0.00097
Endrin aldehyde	NS	NS	NS		U	0.0017		U	0.0017		U	0.0016		U	0.0016
Endrin ketone	NS	NS	NS		U	0.0014		U	0.0014		U	0.0013		U	0.0013
gamma-BHC (Lindane)	0.0035	0.57	2.8		U	0.00065		U	0.00067		U	0.00064		U	0.00063
Heptachlor	0.083	0.15	0.81		U	0.00083		U	0.00085		U	0.00082		U	0.0008
Heptachlor epoxide	0.081	0.076	0.40		U	0.001		U	0.0011		U	0.001		U	0.001
Methoxychlor	NS	320	4,600		U	0.0016		U	0.0016		U	0.0016		U	0.0015
Toxaphene	6.2	0.49	2.3		U	0.025		U	0.026		U	0.025		U	0.025
Herbicides (mg/kg)															
2,4,5-T	NS	NS	NS		U	0.0074		U	0.0076		U	0.0073		U	0.0072
2,4-D	NS	NS	NS		U	0.013		U	0.013		U	0.013		U	0.012
Silvex (2,4,5-TP)	NS	NS	NS		U	0.0036		U	0.0037		U	0.0036		U	0.0035
PCBs (mg/kg)															
Aroclor 1016	NS	NS	NS		U	0.19		U	0.019		U	0.018		U	0.018
Aroclor 1221	NS	NS	NS		U	0.19		U	0.019		U	0.018		U	0.018
Aroclor 1232	NS	NS	NS		U	0.19		U	0.019		U	0.018		U	0.018
Aroclor 1242	NS	NS	NS		U	0.19		U	0.019		U	0.018		U	0.018
Aroclor 1248	NS	NS	NS		U	0.19		U	0.019	0.25		0.018		U	0.018
Aroclor 1254	NS	NS	NS		U	0.19		U	0.019		U	0.018		U	0.018
Aroclor 1260	NS	NS	NS	5.2		0.19		U	0.019		U	0.018		U	0.018
Aroclor 1268	NS	NS	NS		U	0.19		U	0.019		U	0.018		U	0.018
Aroclor-1262	NS	NS	NS		U	0.19		U	0.019	0.39	p	0.018		U	0.018
Total PCBs	1.6	0.25	1.1	**5.2 ***		0.19		U	0.019	**0.63**	p	0.018		U	0.018
Metals (mg/kg)															
Aluminum	NS	78,000	NS	9,960		5.3	3,930		5.6	22,400		5.1	3,510		4.7
Antimony	5.4	31	520	0.61	J	0.14		U	0.15	2.7		0.14		U	0.13
Arsenic	19	19	19	6.9		0.1	6.9		0.11	9.9		0.095	1.2		0.088
Barium	2,100	16,000	260,000	109		0.14	6.3		0.15	128		0.13	8.7		0.12
Beryllium	0.70	160	2,600	0.47		0.055	0.31	J	0.059	0.27	J	0.053	0.19	J	0.049
Cadmium	1.9	71	1,100	1.7		0.11		U	0.12	**2.5**		0.1		U	0.097
Calcium	NS	NS	NS	20,900		39.4	208		41.8	6,190		37.7	282		34.9
Chromium	NS	NS	NS	28.6		0.88	9.1		0.93	47.6		0.84	6.9		0.78
Cobalt	90	23	390	6.9		0.14	2.4		0.15	6.9		0.14	1.6	J	0.13
Copper	910	3,100	52,000	86.6		0.36	5.5		0.38	776		0.34	4		0.32
Iron	NS	NS	NS	30,100		19.5	10,400		20.7	38,700		18.7	5,480		17.3
Lead **	90	200	800	**258**		0.19	3.5		0.21	**351**		0.19	3		0.17
Magnesium	NS	NS	NS	11,100		9.9	1,090		10.5	1,470		9.4	999		8.8
Manganese	NS	1,900	31,000	261		0.39	58.7		0.41	279		0.37	30.3		0.35
Mercury	0.10	23	390	**0.65**		0.0076		U	0.0085	**0.81**		0.0083		U	0.0073
Nickel	48	1,600	26,000	25.1		0.45	6		0.48	**54.9**		0.44	5.3		0.4
Potassium	NS	NS	NS	2,360		15.7	741		16.6	565		15	704		13.9
Selenium	11	390	6,500	0.26	J	0.12	0.13	J	0.13	0.7	J	0.12		U	0.11
Silver	0.50	390	6,500	0.15	J	0.086		U	0.091	0.44		0.082		U	0.076
Sodium	NS	NS	NS	133		44.2		U	46.9	209		42.3		U	39.2
Thallium	NS	NS	NS	0.19	J	0.04		U	0.042	0.053	J	0.038		U	0.035
Vanadium	NS	390	6,500	29.3		0.2	10.2		0.21	22.4		0.19	7.2		0.18
Zinc	930	23,000	390,000	251		3	51.4		3.1	758		2.8	37.9		2.6
Conventionals (mg/kg)															
Cyanide, Total	20	47	780	0.21		0.11		U	0.13	0.21	J	0.13		U	0.12
Hexavalent Chromium, Total	NS	240	20		U	0.87		NA		NA				NA	

mg/kg = Milligrams per kilogram

ft bgs = Feet below ground surface

Q = Qualifier; NS = No standard; NA = Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* = NRSRS that exceeds SRSMGW

** = NJAC 7:26D was amended on May 6, 2024. The lead ingestion-dermal exposu

F1 = MS and/or MSD recovery exceeds control limits.; p = The %RPD between the p

*+ = LCS and/or LCSD is outside acceptance limits, high biased.; *1 = LCS/LCSD R

TABLE 3D
SEPTEMBER 2024 SOIL ANALYTICAL RESULTS - SPLP
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	GP-1-2024-6-6.5			GP-1-2024-8-8.5			GP-2-2024-1-1.5			GP-2-2024-8.5-9			GP-3-2024-1-1.5			GP-3-2024-9.5-10			GP-4-2024-1-1.5			GP-4-2024-10-10.5		
Lab ID:				460-310859-3			460-310859-4			460-310859-5			460-310859-6			460-310859-1			460-310859-2			460-310859-7			460-310859-8		
Date Sampled:				9/5/24			9/5/24			9/5/24			9/5/24			9/5/24			9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):				6-6.5			8-8.5			1-1.5			8.5-9			1-1.5			9.5-10			1-1.5			10-10.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
SPLP Metals (µg/l)																											
Antimony	NS	NS	NS		NA			NA		3		0.76		NA			NA			NA			NA			NA	
Cadmium	NS	NS	NS		NA			NA		0.69	J	0.39		NA			NA			NA			NA			NA	
Cobalt	NS	NS	NS		NA			NA		0.72	J	0.71		NA			NA			NA			NA			NA	
Copper	NS	NS	NS		NA			NA		16.9		2.5		NA			NA			NA		3.8	J	2.5		NA	
Lead	NS	NS	NS		NA			NA		108		0.84		NA			NA			NA			NA			NA	
Nickel	NS	NS	NS		NA			NA		5.9	B	0.91		NA			NA			NA			NA			NA	
Silver	NS	NS	NS		NA			NA			U	0.29		NA			NA			NA			NA			NA	
Zinc	NS	NS	NS		NA			NA		42.5		6.5		NA			NA			NA			NA			NA	
SPLP																											
Sample Initial Amt (Kg)	NS	NS	NS		NA			NA		0.1001				NA			NA			NA		0.1001				NA	
Leachate Final pH (SU)	NS	NS	NS		NA			NA		9.68				NA			NA			NA		9.28				NA	
Leachate Final Amt (L)	NS	NS	NS		NA			NA		2				NA			NA			NA		2				NA	

µg/L = Micrograms per liter
Q = Qualifier; ft bgs = Feet below ground surface
Kg = Kilogram; SU = Standard Units; L = Liters
NS = No standard; NA = Not analyzed
U = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL
MDL = Method Detection Limit
U = Analyzed for but Not Detected at the MDL
B = Compound was found in the blank and sample.

TABLE 3E
SEPTEMBER 2024 -SPLP PFAS SOIL ANALYTICAL RESULTS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	NJDEP interim SLRS (µg/L)	GP-2-2024-1-1.5			GP-3-2024-1-1.5			GP-4-2024-1-1.5		
Lab ID:		460-310859-5			460-310859-1			460-310859-7		
Date Sampled:		9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):		1-1.5'			1-1.5'			1-1.5'		
		Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
SPLP Per- and Polyfluoroalkyl Substances (PFAS) (µg/l)										
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NS		U	0.00047		U	0.00047		U	0.00049
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	NS	0.0021	J	0.00093		U	0.00095	0.0024	J	0.00097
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	NS		U *+	0.0011		U *+	0.0011		U *+	0.0011
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	NS	0.004		0.00096		U	0.00098	0.0068		0.001
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NS		U	0.0023		U	0.0024		U	0.0024
3-Perfluoropentylpropanoic acid (5:3 FTCA)	NS		U	0.0023		U	0.0024		U	0.0024
3-Perfluoropropylpropanoic acid (3:3 FTCA)	NS		U	0.00093		U	0.00095		U	0.00097
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS		U	0.00047		U	0.00047		U	0.00049
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NS		U	0.00047		U	0.00047		U	0.00049
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	**0.40**		U	0.00043		U	0.00044		U	0.00045
N-ethylperfluorooctane sulfonamide (NEtFOSA)	NS		U	0.00047		U	0.00047		U	0.00049
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	NS		U	0.0023		U	0.0024		U	0.0024
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	0.0072		0.00047		U	0.00047	0.0033		0.00049
N-methylperfluorooctane sulfonamide (NMeFOSA)	NS		U	0.00047		U	0.00047		U	0.00049
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	NS		U	0.0028		U	0.0028		U	0.0029
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	0.0013	J	0.00062		U	0.00063		U	0.00065
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS		U	0.00047		U	0.00047		U	0.00049
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	NS		U	0.00047		U	0.00047		U	0.00049
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS		U	0.00047		U	0.00047		U	0.00049
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS		U	0.00047		U	0.00047		U	0.00049
Perfluorobutanesulfonic acid (PFBS)	NS	0.001	J	0.00047		U	0.00047	0.0009	J	0.00049
Perfluorobutanoic acid (PFBA)	NS	0.016		0.00093	0.003	J	0.00095	0.0027	J	0.00097
Perfluorodecanesulfonic acid (PFDS)	NS	0.0069		0.00047	0.0061		0.00047		U	0.00049
Perfluorodecanoic acid (PFDA)	NS	0.15		0.00047	0.015		0.00047	0.012		0.00049
Perfluorododecanesulfonic acid (PFDoS)	NS		U	0.00047		U	0.00047		U	0.00049
Perfluorododecanoic acid (PFDoA)	NS	0.0047		0.00047		U	0.00047		U	0.00049
Perfluoroheptanesulfonic acid (PFHpS)	NS	0.015		0.00047		U	0.00047	0.001	J	0.00049
Perfluoroheptanoic acid (PFHpA)	NS	0.087		0.00048	0.0067		0.00048	0.0077		0.00049
Perfluorohexanesulfonic acid (PFHxS)	NS	0.028		0.00047	0.0011	J	0.00047	0.0025		0.00049
Perfluorohexanoic acid (PFHxA)	NS	0.054		0.00047	0.01		0.00047	0.006		0.00049
Perfluorononanesulfonic acid (PFNS)	NS	0.0006	J	0.00047		U	0.00047		U	0.00049
Perfluorononanoic acid (PFNA)	**0.26**	0.22		0.00047	0.054		0.00047	0.025		0.00049
Perfluorooctanesulfonamide (PFOSA)	NS	0.079		0.00047	0.0018	J	0.00047	0.0073		0.00049
Perfluorooctanesulfonic acid (PFOS)	**0.26**	**1.17**	B	0.00047	0.17	B	0.00047	0.13	B	0.00049
Perfluorooctanoic acid (PFOA)	**0.28**	**0.61**		0.0005	0.032		0.00051	0.039		0.00052
Perfluoropentanesulfonic acid (PFPeS)	NS	0.0021		0.00047		U	0.00047		U	0.00049
Perfluoropentanoic acid (PFPeA)	NS	0.041		0.00056	0.0093		0.00057	0.0054		0.00058
Perfluorotetradecanoic acid (PFTeDA)	NS		U	0.00047		U	0.00047		U	0.00049
Perfluorotridecanoic acid (PFTrDA)	NS	0.0005	J	0.00047		U	0.00047		U	0.00049
Perfluoroundecanoic acid (PFUnA)	NS	0.019		0.00047	0.013		0.00047	0.0028		0.00049
SPLP SUMMARY										
Sample Initial Amt (kg)	NS	0.0251			0.0253			0.0252		
Leachate Final pH (SU)	NS	8.92			5.79			7.62		
Leachate Final Amt (L)	NS	0.5			0.5			0.5		

All results are reported in micrograms per liter (µg/l)
NJDEP: New Jersey Department of Enviromental Protection
Q = Qualifier
NS = No standard
U = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL
MDL = Method Detection Limit
ft bgs = feet below ground surface

Exceeds NJDEP interim Soil Leachate Remediation Standard (SLRS)
Method Detection Limit exceeds a standard but compound not detected
Soil leachatre standard is the Ground Water Remediation Standard multiplied by a dilution attenuation facter (DAF) of 20

TABLE 3F
SEPTEMBER 2024 -PFAS SOIL ANALYTICAL RESULTS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	NJDEP calculated[1] interim SRS-MGW (mg/kg)	NJDEP interim R-SRS (mg/kg)	NJDEP interim NR-SRS (mg/kg)	GP-2-2024-1-1.5			GP-3-2024-1-1.5			GP-4-2024-1-1.5		
Lab ID:				460-310859-5			460-310859-1			460-310859-7		
Date Sampled:				9/5/24			9/5/24			9/5/24		
Sample Depth (ft bgs):				1-1.5'			1-1.5'			1-1.5'		
				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Per- and Polyfluoroalkyl Substances (PFAS) (mg/kg)												
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	NS	NS	NS		U	0.0001		U	0.0001		U	0.0001
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	NS	NS	NS		U	0.0001		U	0.0001		U	0.0001
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	NS	NS	NS	0.00013	J	0.0001		U	0.0001		U	0.0001
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NS	NS	NS		U	0.00026		U	0.00025		U	0.00026
3-Perfluoropentylpropanoic acid (5:3 FTCA)	NS	NS	NS		U	0.00026		U	0.00025		U	0.00026
3-Perfluoropropylpropanoic acid (3:3 FTCA)	NS	NS	NS		U	0.0001		U	0.0001		U	0.0001
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	**NS[2]**	**0.23**	**3.9**		U	0.000051		U	0.000051		U	0.000051
N-ethylperfluorooctane sulfonamide (NEtFOSA)	NS	NS	NS	0.00089		0.000051		U	0.000051		U	0.000051
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	NS	NS	NS	0.00031	J	0.00026		U	0.00025		U	0.00026
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	NS	NS	0.002		0.000051	0.00034		0.000051	0.00053		0.000051
N-methylperfluorooctane sulfonamide (NMeFOSA)	NS	NS	NS	0.000082	J	0.000051		U	0.000051		U	0.000051
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	NS	NS	NS	0.00035	J	0.00026		U	0.00025		U	0.00026
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	NS	NS	0.00062		0.000054		U	0.000054	0.000061	J	0.000054
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluorobutanoic acid (PFBA)	NS	NS	NS	0.00029	J	0.0001		U	0.0001		U	0.0001
Perfluorodecanesulfonic acid (PFDS)	NS	NS	NS	0.0023		0.000051	0.0039		0.000051	0.00016	J	0.000051
Perfluorodecanoic acid (PFDA)	NS	NS	NS	0.0068		0.000051	0.00074		0.000051	0.00064		0.000051
Perfluorododecanesulfonic acid (PFDoS)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluorododecanoic acid (PFDoA)	NS	NS	NS	0.0015		0.000051	0.00043		0.000051	0.00032		0.000051
Perfluoroheptanesulfonic acid (PFHpS)	NS	NS	NS	0.00045		0.000051		U	0.000051		U	0.000051
Perfluoroheptanoic acid (PFHpA)	NS	NS	NS	0.0027		0.000051	0.00021		0.000051	0.00023		0.000051
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	NS	0.0011		0.000051	0.000056	J	0.000051	0.00012	J	0.000051
Perfluorohexanoic acid (PFHxA)	NS	NS	NS	0.0012		0.000051	0.00032		0.000051	0.00018	J	0.000051
Perfluorononanesulfonic acid (PFNS)	NS	NS	NS		U	0.000051		U	0.000051		U	0.000051
Perfluorononanoic acid (PFNA)	**0.0078 (Calculated)[1]**	**0.047**	**0.67**	0.0078		0.000051	0.0017		0.000051	0.00079		0.000051
Perfluorooctanesulfonamide (PFOSA)	NS	NS	NS	0.0064		0.000051	0.00012	J	0.000051	0.00022		0.000051
Perfluorooctanesulfonic acid (PFOS)	**0.0073 (Calculated)[1]**	**0.11**	**1.6**	**0.045**		0.000051	0.0073		0.000051	0.0054		0.000051
Perfluorooctanoic acid (PFOA)	**0.00098 (Calculated)[1]**	**0.13**	**1.8**	**0.02**		0.00011	0.00098		0.00011	**0.0012**		0.00011
Perfluoropentanesulfonic acid (PFPeS)	NS	NS	NS	0.000072	J	0.000051		U	0.000051		U	0.000051
Perfluoropentanoic acid (PFPeA)	NS	NS	NS	0.0011		0.000082	0.0004		0.000081	0.00027		0.000082
Perfluorotetradecanoic acid (PFTeDA)	NS	NS	NS	0.00091		0.000051	0.00018	J	0.000051	0.0002	J	0.000051
Perfluorotridecanoic acid (PFTrDA)	NS	NS	NS	0.00067		0.000051	0.00031		0.000051	0.00012	J	0.000051
Perfluoroundecanoic acid (PFUnA)	NS	NS	NS	0.001		0.000051	0.0025		0.000051	0.00045		0.000051

All results are reported in milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
Q = Qualifier
NS = No standard
U = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL
MDL = Method Detection Limit

[1] AOC Specific MGW-SRS calculated using the synthetic precipitation leaching procedure (SPLP) and the Department's PFAS SPLP calculator
[2] AOC Specific SRS-MGW could not be calculated as all soil results were Not Detected at the MDL
Exceeds AOC Specific Soil Remediation Standards for the Migration to Groundwater pathway (SRS-MGW)

TABLE 4A
SEPTEMBER 2024 - ANALYTICAL RESULTS - VOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP2-2024-1.0-1.5			TP3-2024-1.0-1.5			TP4-2024-1.0-1.5		
Lab ID:				460-311355-10			460-311355-2			460-311355-1		
Date Sampled:				9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			1-1.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organic Compounds (mg/kg)												
1,1,1-Trichloroethane	0.20	160,000	NS		U	0.00024		NA			U	0.00026
1,1,2,2-Tetrachloroethane	0.0069	3.5	18		U	0.00022		NA			U	0.00024
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS		U	0.00031		NA			U	0.00033
1,1,2-Trichloroethane	0.017	12	64		U	0.00018		NA			U	0.0002
1,1-Dichloroethane	0.24	120	640		U	0.00021		NA			U	0.00023
1,1-Dichloroethene	0.0069	11	180		U	0.00023		NA			U	0.00025
1,2,3-Trichlorobenzene	NS	NS	NS		U	0.00019		NA			U	0.0002
1,2,4-Trichlorobenzene	0.52	94	13,000		U	0.00037		NA			U	0.0004
1,2-Dibromo-3-Chloropropane	0.026	0.12	0.52		U	0.00048		NA			U	0.00051
1,2-Dichlorobenzene	11	6,700	110,000		U	0.00037		NA			U	0.0004
1,2-Dichloroethane	0.0095	5.8	30		U	0.00031		NA			U	0.00033
1,2-Dichloropropane	0.0058	5.7	27		U	0.00044		NA			U	0.00047
1,3-Dichlorobenzene	11	6,700	110,000		U	0.00038		NA			U	0.0004
1,4-Dichlorobenzene	1.4	780	13,000		U	0.00023		NA			U	0.00025
1,4-Dioxane	0.067	7.0	36		U	0.0095		NA			U	0.01
2-Butanone (MEK)	0.98	47,000	780,000		U	0.00038		NA			U	0.00041
2-Hexanone	0.15	390	6,500		U	0.0018		NA			U	0.0019
4-Methyl-2-pentanone (MIBK)	NS	NS	NS		U	0.0016		NA			U	0.0017
Acetone	19	70,000	NS		U	0.0059		NA			U	0.0063
Acrolein	NS	NS	NS		U	0.029		NA			U	0.031
Acrylonitrile	NS	NS	NS		U	0.005		NA			U	0.0054
Benzene	0.0094	2.2	11		U	0.00027		NA			U	0.00029
Bromoform	0.018	88	460		U *+	0.00044		NA			U *+	0.00047
Bromomethane	0.043	18	82		U	0.001		NA			U	0.0011
Carbon disulfide	3.7	NS	NS		U	0.00028		NA			U	0.00029
Carbon tetrachloride	0.0075	1.4	6.9		U	0.0004		NA			U	0.00043
Chlorobenzene	0.64	510	8,400		U	0.00018		NA			U	0.0002
Chlorobromomethane	NS	NS	NS		U	0.00029		NA			U	0.00031
Chlorodibromomethane	0.005	8.3	43		U	0.0002		NA			U	0.00021
Chloroethane	NS	NS	NS		U *+	0.00054		NA			U *+	0.00058
Chloroform	0.33	590	13,000		U	0.001		NA			U	0.0011
Chloromethane	NS	270	1,200		U	0.00045		NA			U	0.00048
cis-1,2-Dichloroethene	0.35	780	13,000		U	0.00037		NA			U	0.0004
cis-1,3-Dichloropropene	0.0063	4.8	23		U	0.00028		NA			U	0.0003
Cyclohexane	NS	NS	NS		U	0.00023		NA			U	0.00024
Dichlorobromomethane	0.0050	11	59		U	0.00027		NA			U	0.00028
Dichlorodifluoromethane	38	16,000	260,000		U	0.00035		NA			U	0.00037
Ethylbenzene	15	10	48		U	0.00021		NA			U	0.00022
Isopropylbenzene	22	7,800	130,000		U	0.00019		NA			U	0.0002
Methyl acetate	22	78,000	NS		U	0.00029		NA			U	0.00032
Methyl tert-butyl ether	0.25	140	650		U	0.0045		NA			U	0.0048
Methylcyclohexane	NS	NS	NS		U	0.00053		NA			U	0.00057
Methylene Chloride	0.013	50	260		U	0.00052		NA			U	0.00055
m-Xylene & p-Xylene	19	12,000	190000		U	0.0012		NA			U	0.0013
o-Xylene	19	12,000	190000		U	0.00018		NA			U	0.00019
Styrene	2.1	16,000	260,000		U	0.0002		NA			U	0.00021
Tert-butyl Alcohol	0.32	1,400	23,000		U	0.00029		NA			U	0.00031
Tetrachloroethene	0.0086	47	1,700		U	0.0081		NA			U	0.0087
Toluene	7.8	6,300	100,000		U	0.00032		NA			U	0.00034
trans-1,2-Dichloroethene	0.56	1,300	22,000		U	0.00024		NA			U	0.00026
trans-1,3-Dichloropropene	0.0063	4.8	23		U	0.00025		NA			U	0.00027
Trichloroethene	0.0065	3.0	14		U	0.00028		NA			U	0.00029
Trichlorofluoromethane	29	23,000	390,000		U	0.00033		NA			U	0.00036
Vinyl chloride	0.0067	0.97	5.0	0.00089	J	0.00042		NA			U	0.00045
Xylenes, Total	19	12,000	190,000		U	0.00057		NA			U	0.0006
VOC TIC Conc. (# TICs)	NS	NS	NS	ND				NA		ND		

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; ND = Non-Detect; NA: Not Analyzed; U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

**MDL exceeds a standard but compound ND**

* Exceeds NRSRS and SRSMGW

** NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exposure pathway was updated from 400 mg/kg to 200 mg/kg.

F1 = MS and/or MSD recovery exceeds control limits.; *+ = LCS and/or LCSD is outside acceptance limits, high biased.; *1 = LCS/LCSD RPD exceeds control limits.

TABLE 4A
SEPTEMBER 2024 - ANALYTICAL RESULTS - VOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP6-2024-1.0-1.5			TP8-2024-1.0-1.5			TP8-2024-8.0-8.5			TP9-2024-1.0-1.5		
Lab ID:				460-311355-5			460-311355-3			460-311355-4			460-311355-6		
Date Sampled:				9/12/24			9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organic Compounds (mg/kg)															
1,1,1-Trichloroethane	0.20	160,000	NS		NA			U	0.00022		U	0.00021		U	0.00022
1,1,2,2-Tetrachloroethane	0.0069	3.5	18		NA			U	0.0002		U	0.0002		U	0.00021
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS		NA			U	0.00029		U	0.00027		U	0.00029
1,1,2-Trichloroethane	0.017	12	64		NA			U	0.00017		U	0.00016		U	0.00017
1,1-Dichloroethane	0.24	120	640		NA			U	0.0002		U	0.00019		U	0.0002
1,1-Dichloroethene	0.0069	11	180		NA			U	0.00021		U	0.00021		U	0.00022
1,2,3-Trichlorobenzene	NS	NS	NS		NA			U	0.00017		U	0.00017		U	0.00017
1,2,4-Trichlorobenzene	0.52	94	13,000		NA			U	0.00034		U	0.00033		U	0.00034
1,2-Dibromo-3-Chloropropane	0.026	0.12	0.52		NA			U	0.00044		U	0.00042		U	0.00044
1,2-Dichlorobenzene	11	6,700	110,000		NA			U	0.00034		U	0.00033		U	0.00035
1,2-Dichloroethane	0.0095	5.8	30		NA			U	0.00028		U	0.00027		U	0.00028
1,2-Dichloropropane	0.0058	5.7	27		NA			U	0.0004		U	0.00039		U	0.00041
1,3-Dichlorobenzene	11	6,700	110,000		NA			U	0.00035		U	0.00033		U	0.00035
1,4-Dichlorobenzene	1.4	780	13,000		NA			U	0.00021		U	0.00021		U	0.00022
1,4-Dioxane	0.067	7.0	36		NA			U	0.0088		U	0.0084		U	0.0088
2-Butanone (MEK)	0.98	47,000	780,000		NA		0.028		0.00035		U	0.00034		U	0.00035
2-Hexanone	0.15	390	6,500		NA			U	0.0016		U	0.0016		U	0.0016
4-Methyl-2-pentanone (MIBK)	NS	NS	NS		NA			U	0.0015		U	0.0014		U	0.0015
Acetone	19	70,000	NS		NA		0.11		0.0055		U	0.0052		U	0.0055
Acrolein	NS	NS	NS		NA			U	0.027		U	0.026		U	0.027
Acrylonitrile	NS	NS	NS		NA			U	0.0046		U	0.0044		U	0.0047
Benzene	0.0094	2.2	11		NA		0.0024		0.00025		U	0.00024		U	0.00025
Bromoform	0.018	88	460		NA			U *+	0.00041		U *+	0.00039		U *+	0.00041
Bromomethane	0.043	18	82		NA			U	0.00095		U	0.00091		U	0.00096
Carbon disulfide	3.7	NS	NS		NA		0.0044		0.00025		U	0.00024		U	0.00026
Carbon tetrachloride	0.0075	1.4	6.9		NA			U	0.00037		U	0.00035		U	0.00037
Chlorobenzene	0.64	510	8,400		NA			U	0.00017		U	0.00016		U	0.00017
Chlorobromomethane	NS	NS	NS		NA			U	0.00027		U	0.00026		U	0.00027
Chlorodibromomethane	0.005	8.3	43		NA			U	0.00019		U	0.00018		U	0.00019
Chloroethane	NS	NS	NS		NA			U *+	0.0005		U *+	0.00048		U *+	0.0005
Chloroform	0.33	590	13,000		NA			U	0.00093		U	0.00089		U	0.00093
Chloromethane	NS	270	1,200		NA			U	0.00042		U	0.0004		U	0.00042
cis-1,2-Dichloroethene	0.35	780	13,000		NA			U	0.00034		U	0.00033		U	0.00034
cis-1,3-Dichloropropene	0.0063	4.8	23		NA			U	0.00026		U	0.00025		U	0.00026
Cyclohexane	NS	NS	NS		NA			U	0.00021		U	0.0002		U	0.00021
Dichlorobromomethane	0.0050	11	59		NA			U	0.00025		U	0.00023		U	0.00025
Dichlorodifluoromethane	38	16,000	260,000		NA			U	0.00032		U	0.00031		U	0.00032
Ethylbenzene	15	10	48		NA		0.0015		0.00019		U	0.00018		U	0.00019
Isopropylbenzene	22	7,800	130,000		NA			U	0.00017		U	0.00016		U	0.00017
Methyl acetate	22	78,000	NS		NA		0.0037		0.00027		U	0.00026		U	0.00027
Methyl tert-butyl ether	0.25	140	650		NA		0.0081		0.0041		U	0.0039		U	0.0041
Methylcyclohexane	NS	NS	NS		NA			U	0.00049		U	0.00047		U	0.00049
Methylene Chloride	0.013	50	260		NA		0.003		0.00048		U	0.00046		U	0.00048
m-Xylene & p-Xylene	19	12,000	190000		NA			U	0.0011		U	0.001		U	0.0011
o-Xylene	19	12,000	190000		NA		0.0011		0.00017		U	0.00016		U	0.00017
Styrene	2.1	16,000	260,000		NA		0.0016		0.00019		U	0.00018		U	0.00019
Tert-butyl Alcohol	0.32	1,400	23,000		NA			U	0.00027		U	0.00025		U	0.00027
Tetrachloroethene	0.0086	47	1,700		NA			U	0.0075		U	0.0072		U	0.0075
Toluene	7.8	6,300	100,000		NA			U	0.00029		U	0.00028		U	0.00029
trans-1,2-Dichloroethene	0.56	1,300	22,000		NA		0.00073	J	0.00022		U	0.00021		U	0.00022
trans-1,3-Dichloropropene	0.0063	4.8	23		NA			U	0.00023		U	0.00022		U	0.00024
Trichloroethene	0.0065	3.0	14		NA			U	0.00025		U	0.00024		U	0.00026
Trichlorofluoromethane	29	23,000	390,000		NA			U	0.00031		U	0.00029		U	0.00031
Vinyl chloride	0.0067	0.97	5.0		NA		0.00041	J	0.00039		U	0.00037		U	0.00039
Xylenes, Total	19	12,000	190,000		NA			U	0.00052		U	0.0005		U	0.00052
VOC TIC Conc. (# TICs)	NS	NS	NS		NA		0.284 (10)			ND			ND		

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; ND = Non-Detect; NA: Not Analyzed; U = Analyzed for but Not Detected

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

**MDL exceeds a standard but compound ND**

* Exceeds NRSRS and SRSMGW

** NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exposure pathwa

F1 = MS and/or MSD recovery exceeds control limits.; *+ = LCS and/or LCSD is outside acc

TABLE 4A
SEPTEMBER 2024 - ANALYTICAL RESULTS - VOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP11-2024-1.0-1.5			TP11-2024-8.0-8.5			TP12-2024-1.0-1.5		
Lab ID:				460-311355-7			460-311355-8			460-311355-9		
Date Sampled:				9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organic Compounds (mg/kg)												
1,1,1-Trichloroethane	0.20	160,000	NS		U	0.00021		U	0.00018		U	0.00028
1,1,2,2-Tetrachloroethane	0.0069	3.5	18		U	0.00019		U	0.00017		U	0.00025
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS		U	0.00027		U	0.00024		U	0.00036
1,1,2-Trichloroethane	0.017	12	64		U	0.00016		U	0.00014		U	0.00021
1,1-Dichloroethane	0.24	120	640		U	0.00018		U	0.00016		U	0.00024
1,1-Dichloroethene	0.0069	11	180		U	0.0002		U	0.00018		U	0.00027
1,2,3-Trichlorobenzene	NS	NS	NS		U	0.00016		U	0.00014		U	0.00022
1,2,4-Trichlorobenzene	0.52	94	13,000		U	0.00032		U	0.00028		U	0.00043
1,2-Dibromo-3-Chloropropane	0.026	0.12	0.52		U	0.00041		U	0.00036		U	0.00055
1,2-Dichlorobenzene	11	6,700	110,000		U	0.00032		U	0.00028		U	0.00043
1,2-Dichloroethane	0.0095	5.8	30		U	0.00026		U	0.00023		U	0.00035
1,2-Dichloropropane	0.0058	5.7	27		U	0.00038		U	0.00033		U	0.0005
1,3-Dichlorobenzene	11	6,700	110,000		U	0.00033		U	0.00029		U	0.00043
1,4-Dichlorobenzene	1.4	780	13,000		U	0.0002		U	0.00018		U	0.00027
1,4-Dioxane	0.067	7.0	36		U	0.0082		U	0.0072		U	0.011
2-Butanone (MEK)	0.98	47,000	780,000		U	0.00033		U	0.00029	0.0051	J	0.00044
2-Hexanone	0.15	390	6,500		U	0.0015		U	0.0013		U	0.002
4-Methyl-2-pentanone (MIBK)	NS	NS	NS		U	0.0014		U	0.0012		U	0.0018
Acetone	19	70,000	NS		U	0.0051	0.0054		0.0045	0.026		0.0068
Acrolein	NS	NS	NS		U	0.025		U	0.022		U	0.033
Acrylonitrile	NS	NS	NS		U	0.0043		U	0.0038		U	0.0058
Benzene	0.0094	2.2	11		U	0.00023		U	0.0002		U	0.00031
Bromoform	0.018	88	460		U *+	0.00038		U *+	0.00033		U *+	0.0005
Bromomethane	0.043	18	82		U	0.00089		U	0.00078		U	0.0012
Carbon disulfide	3.7	NS	NS		U	0.00024		U	0.00021	0.00043	J	0.00032
Carbon tetrachloride	0.0075	1.4	6.9		U	0.00035		U	0.0003		U	0.00046
Chlorobenzene	0.64	510	8,400		U	0.00016		U	0.00014		U	0.00021
Chlorobromomethane	NS	NS	NS		U	0.00025		U	0.00022		U	0.00033
Chlorodibromomethane	0.005	8.3	43		U	0.00017		U	0.00015		U	0.00023
Chloroethane	NS	NS	NS		U *+	0.00047		U *+	0.00041		U *+	0.00062
Chloroform	0.33	590	13,000		U	0.00087		U	0.00076		U	0.0012
Chloromethane	NS	270	1,200		U	0.00039		U	0.00034		U	0.00052
cis-1,2-Dichloroethene	0.35	780	13,000		U	0.00032		U	0.00028		U	0.00043
cis-1,3-Dichloropropene	0.0063	4.8	23		U	0.00024		U	0.00021		U	0.00032
Cyclohexane	NS	NS	NS		U	0.0002		U	0.00017		U	0.00026
Dichlorobromomethane	0.0050	11	59		U	0.00023		U	0.0002		U	0.00031
Dichlorodifluoromethane	38	16,000	260,000		U	0.0003		U	0.00026		U	0.0004
Ethylbenzene	15	10	48		U	0.00018		U	0.00016		U	0.00024
Isopropylbenzene	22	7,800	130,000		U	0.00016		U	0.00014		U	0.00021
Methyl acetate	22	78,000	NS		U	0.00025		U	0.00022		U	0.00034
Methyl tert-butyl ether	0.25	140	650		U	0.0038		U	0.0034		U	0.0051
Methylcyclohexane	NS	NS	NS		U	0.00046		U	0.0004		U	0.00061
Methylene Chloride	0.013	50	260		U	0.00044		U	0.00039		U	0.00059
m-Xylene & p-Xylene	19	12,000	190000		U	0.001	0.0021		0.0009		U	0.0014
o-Xylene	19	12,000	190000		U	0.00016		U	0.00014		U	0.00021
Styrene	2.1	16,000	260,000		U	0.00017		U	0.00015		U	0.00023
Tert-butyl Alcohol	0.32	1,400	23,000		U	0.00025		U	0.00022		U	0.00033
Tetrachloroethene	0.0086	47	1,700		U	0.007		U	0.0061		U	0.0093
Toluene	7.8	6,300	100,000		U	0.00027		U	0.00024		U	0.00036
trans-1,2-Dichloroethene	0.56	1,300	22,000		U	0.00021		U	0.00018		U	0.00028
trans-1,3-Dichloropropene	0.0063	4.8	23		U	0.00022		U	0.00019		U	0.00029
Trichloroethene	0.0065	3.0	14		U	0.00024		U	0.00021		U	0.00032
Trichlorofluoromethane	29	23,000	390,000		U	0.00029		U	0.00025		U	0.00038
Vinyl chloride	0.0067	0.97	5.0		U	0.00036		U	0.00032	0.00057	J	0.00048
Xylenes, Total	19	12,000	190,000		U	0.00049		U	0.00043		U	0.00065
VOC TIC Conc. (# TICs)	NS	NS	NS	ND			ND			ND		

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; ND = Non-Detect; NA: Not Analyzed; U = Analyzed for but Not Detected

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

**MDL exceeds a standard but compound ND**

* Exceeds NRSRS and SRSMGW

** NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exposure pathwa

F1 = MS and/or MSD recovery exceeds control limits.; *+ = LCS and/or LCSD is outside acc

TABLE 4B
SEPTEMBER 2024 - ANALYTICAL RESULTS - SEMIVOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP2-2024-1.0-1.5			TP3-2024-1.0-1.5			TP4-2024-1.0-1.5			TP6-2024-1.0-1.5		
Lab ID:				460-311355-10			460-311355-2			460-311355-1			460-311355-5		
Date Sampled:				9/12/24			9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			1-1.5			1-1.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organic Compounds (mg/kg)															
1,1'-Biphenyl	NS	87	450	0.013	J	0.012		NA		1.4	J	0.06		NA	
1,2,4,5-Tetrachlorobenzene	NS	23	390		U	0.011		NA			U	0.054		NA	
1,2-Diphenylhydrazine	NS	NS	NS		U	0.013		NA			U	0.068		NA	
2,2'-oxybis[1-chloropropane]	1.9	3,100	52,000		U	0.02		NA			U	0.1		NA	
2,3,4,6-Tetrachlorophenol	26	1,900	27,000		U	0.023		NA			U	0.12		NA	
2,4,5-Trichlorophenol	68	6,300	91,000		U	0.035		NA			U	0.18		NA	
2,4,6-Trichlorophenol	0.86	49	230		U	0.044		NA			U	0.22		NA	
2,4-Dichlorophenol	0.19	190	2,700		U	0.022		NA			U	0.11		NA	
2,4-Dimethylphenol	2.3	1,300	18,000		U	0.041		NA		0.29	J	0.21		NA	
2,4-Dinitrophenol	0.33	130	1,800		U	0.17		NA			U	0.85		NA	
2,4-Dinitrotoluene	NS	NS	NS		U	0.037		NA			U	0.19		NA	
2,6-Dinitrotoluene	NS	NS	NS		U	0.025		NA			U	0.13		NA	
2-Chloronaphthalene	NS	4,800	67,000		U	0.016		NA			U	0.08		NA	
2-Chlorophenol	0.76	390	6,500		U	0.012		NA			U	0.062		NA	
2-Methylnaphthalene	3.1	240	3,300	0.041	J	0.0096		NA		8.3		0.048		NA	
2-Methylphenol	0.77	320	4,600		U	0.013		NA		0.17	J	0.065		NA	
2-Nitroaniline	NS	NS	NS		U	0.026		NA			U	0.13		NA	
2-Nitrophenol	NS	NS	NS		U	0.034		NA			U	0.17		NA	
3,3'-Dichlorobenzidine	3.9	1.2	5.7		U	0.052		NA			U	0.26		NA	
3-Nitroaniline	NS	NS	NS		U	0.081		NA			U	0.41		NA	
4,6-Dinitro-2-methylphenol	NS	NS	NS		U	0.14		NA			U	0.71		NA	
4-Bromophenyl phenyl ether	NS	NS	NS		U	0.014		NA			U	0.069		NA	
4-Chloro-3-methylphenol	NS	NS	NS		U	0.019		NA			U	0.097		NA	
4-Chloroaniline	0.23	2.7	13		U	0.061		NA			U	0.31		NA	
4-Chlorophenyl phenyl ether	NS	NS	NS		U	0.012		NA			U	0.061		NA	
4-Methylphenol	0.75	630	9,100		U	0.021		NA		0.62	J	0.11		NA	
4-Nitroaniline	NS	27	130		U	0.039		NA			U	0.2		NA	
4-Nitrophenol	NS	NS	NS		U	0.056		NA			U	0.28		NA	
Acenaphthene	NS	3,600	50,000	0.086	J	0.0097		NA		7.5		0.049	0.83	J	0.051
Acenaphthylene	NS	NS	NS	0.17	J	0.0098		NA		2.5		0.049	0.22	J	0.051
Acetophenone	3.6	7,800	130,000		U	0.017		NA			U	0.085		NA	
Anthracene	NS	18,000	250,000	0.37		0.01		NA		13		0.053	2		0.054
Atrazine	0.33	220	3,200		U	0.02		NA			U	0.1		NA	
Benzaldehyde	NS	170	910		U	0.057		NA			U	0.29		NA	
Benzidine	NS	NS	NS		U	0.072		NA			U	0.36		NA	
Benzo[a]anthracene	0.71	5.1	23	1.3		0.026		NA		18		0.13	3.3		0.13
Benzo[a]pyrene	NS	0.51	2.3	1.2		0.0091		NA		16		0.046	2.7		0.047
Benzo[b]fluoranthene	NS	5.1	23	1.6		0.0088		NA		20		0.045	3.7		0.046
Benzo[g,h,i]perylene	NS	NS	NS	0.72		0.01		NA		6.9		0.051	1.2	J	0.052
Benzo[k]fluoranthene	NS	51	230	0.6		0.0067		NA		7.6		0.034	1.3		0.035
Bis(2-chloroethoxy)methane	NS	190	2,700		U	0.027		NA			U	0.13		NA	
Bis(2-chloroethyl)ether	0.33	0.63	3.3		U	0.012		NA			U	0.06		NA	
Bis(2-ethylhexyl) phthalate	14	39	180	0.085	J	0.018		NA			U	0.092		NA	
Butyl benzyl phthalate	29	290	1,300		U	0.016		NA			U	0.081		NA	
Caprolactam	16	290	1,300		U	0.053		NA			U	0.27		NA	
Carbazole	NS	NS	NS	0.15	J	0.013		NA		5		0.066		NA	
Chrysene	NS	510	2,300	1.5		0.014		NA		18		0.073	3		0.075
Dibenz(a,h)anthracene	NS	0.51	2.3	0.19		0.015		NA		2.1		0.075	0.39		0.077
Dibenzofuran	NS	NS	NS	0.061	J	0.011		NA		4.8		0.058		NA	
Diethyl phthalate	44	51,000	730,000		U	0.011		NA			U	0.056		NA	
Dimethyl phthalate	NS	NS	NS		U	0.078		NA			U	0.39		NA	
Di-n-butyl phthalate	NS	6,300	91,000		U	0.013		NA			U	0.065		NA	
Di-n-octyl phthalate	NS	630	9,100		U	0.018		NA			U	0.092		NA	
Fluoranthene	NS	2,400	33,000	2.5		0.012		NA		36		0.06	6.5		0.062
Fluorene	NS	2,400	33,000	0.093	J	0.01		NA		9.2		0.051	0.81	J	0.052
Hexachlorobenzene	0.17	0.43	2.3		U	0.016		NA			U	0.082		NA	
Hexachlorobutadiene	0.17	8.9	47		U	0.0073		NA			U	0.037		NA	
Hexachlorocyclopentadiene	2.5	2.7	7,800		U *+	0.03		NA			U *+	0.15		NA	
Hexachloroethane	0.17	17	91		U	0.012		NA			U	0.059		NA	
Indeno[1,2,3-cd]pyrene	NS	5.1	23	0.7		0.013		NA		7.5		0.068	1.3		0.069
Isophorone	0.23	570	2,700		U	0.099		NA			U	0.5		NA	
Naphthalene	19	5.7	27	0.065	J	0.0059		NA		12		0.03	0.31	J	0.031
Nitrobenzene	0.17	7.5	36		U	0.019		NA			U	0.096		NA	
N-Nitrosodimethylamine	NS	NS	NS		U	0.032		NA			U	0.16		NA	
N-Nitrosodi-n-propylamine	0.17	0.17	0.36		U	0.025		NA			U	0.13		NA	
N-Nitrosodiphenylamine	1.1	110	520		U	0.028		NA			U	0.14		NA	
Pentachlorophenol	0.33	1.0	4.4		U	0.07		NA			U	0.35		NA	
Phenanthrene	NS	NS	NS	1.9		0.014		NA		55	D	0.14	7.9		0.073
Phenol	21	19,000	270,000		U	0.013		NA		0.35	J	0.064		NA	
Pyrene	NS	1,800	25,000	2.9		0.0085		NA		34		0.043	5.9		0.044
SVOC TIC Conc. (# TICs)	NS	NS	NS	4.71 (10)				NA		101.2 (20)				NA	

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; NA = Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* NRSRS that exceeds SRSMGW

F1 = MS and/or MSD recovery exceeds control limits.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

D = Dilluted

TABLE 4B
SEPTEMBER 2024 - ANALYTICAL RESULTS - SEMIVOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP8-2024-1.0-1.5			TP8-2024-8.0-8.5			TP9-2024-1.0-1.5		
Lab ID:				460-311355-3			460-311355-4			460-311355-6		
Date Sampled:				9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organic Compounds (mg/kg)												
1,1'-Biphenyl	NS	87	450	0.2	J	0.064		U	0.012	0.037	J	0.012
1,2,4,5-Tetrachlorobenzene	NS	23	390		U	0.058		U	0.01		U	0.01
1,2-Diphenylhydrazine	NS	NS	NS		U	0.073		U	0.013		U	0.013
2,2'-oxybis[1-chloropropane]	1.9	3,100	52,000		U	0.11		U	0.02		U	0.02
2,3,4,6-Tetrachlorophenol	26	1,900	27,000		U	0.13		U	0.023		U	0.023
2,4,5-Trichlorophenol	68	6,300	91,000		U	0.19		U	0.034		U	0.034
2,4,6-Trichlorophenol	0.86	49	230		U	0.24		U	0.043		U	0.043
2,4-Dichlorophenol	0.19	190	2,700		U	0.12		U	0.021		U	0.021
2,4-Dimethylphenol	2.3	1,300	18,000		U	0.22		U	0.04		U	0.04
2,4-Dinitrophenol	0.33	130	1,800		U	0.91		U	0.16		U	0.16
2,4-Dinitrotoluene	NS	NS	NS		U	0.2		U	0.036		U	0.036
2,6-Dinitrotoluene	NS	NS	NS		U	0.13		U	0.024		U	0.024
2-Chloronaphthalene	NS	4,800	67,000		U	0.086		U	0.015		U	0.015
2-Chlorophenol	0.76	390	6,500		U	0.066		U	0.012		U	0.012
2-Methylnaphthalene	3.1	240	3,300	0.52	J	0.052		U	0.0093	0.14	J	0.0093
2-Methylphenol	0.77	320	4,600		U	0.069		U	0.012		U	0.012
2-Nitroaniline	NS	NS	NS		U	0.14		U	0.025		U	0.025
2-Nitrophenol	NS	NS	NS		U	0.19		U	0.033		U	0.033
3,3'-Dichlorobenzidine	3.9	1.2	5.7		U	0.28		U	0.05		U	0.05
3-Nitroaniline	NS	NS	NS		U	0.44		U	0.079		U	0.079
4,6-Dinitro-2-methylphenol	NS	NS	NS		U	0.75		U	0.14		U	0.14
4-Bromophenyl phenyl ether	NS	NS	NS		U	0.073		U	0.013		U	0.013
4-Chloro-3-methylphenol	NS	NS	NS		U	0.1		U	0.019		U	0.019
4-Chloroaniline	0.23	2.7	13		U	0.33		U	0.059		U	0.059
4-Chlorophenyl phenyl ether	NS	NS	NS		U	0.065		U	0.012		U	0.012
4-Methylphenol	0.75	630	9,100		U	0.12		U	0.021		U	0.021
4-Nitroaniline	NS	27	130		U	0.21		U	0.038		U	0.038
4-Nitrophenol	NS	NS	NS		U	0.3		U	0.054		U	0.054
Acenaphthene	NS	3,600	50,000	0.29	J	0.053		U	0.0095	0.34		0.0095
Acenaphthylene	NS	NS	NS	0.17	J	0.053		U	0.0096	0.065	J	0.0095
Acetophenone	3.6	7,800	130,000	0.48	J	0.091		U	0.016		U	0.016
Anthracene	NS	18,000	250,000	0.63	J	0.056		U	0.01	0.73		0.01
Atrazine	0.33	220	3,200		U	0.11		U	0.02		U	0.02
Benzaldehyde	NS	170	910	0.79	J	0.31		U	0.055		U	0.055
Benzidine	NS	NS	NS		U	0.39		U	0.07		U	0.07
Benzo[a]anthracene	0.71	5.1	23	**1.3**		0.14	0.052		0.025	**1.3**		0.025
Benzo[a]pyrene	NS	0.51	2.3	**1.2**		0.049	0.035		0.0089	**1.2**		0.0089
Benzo[b]fluoranthene	NS	5.1	23	1.8		0.048	0.053		0.0086	1.3		0.0086
Benzo[g,h,i]perylene	NS	NS	NS	0.63	J	0.055	0.016	J	0.0099	0.82		0.0098
Benzo[k]fluoranthene	NS	51	230	0.63		0.036	0.029	J	0.0066	0.44		0.0065
Bis(2-chloroethoxy)methane	NS	190	2,700		U	0.14		U	0.026		U	0.026
Bis(2-chloroethyl)ether	0.33	0.63	3.3		U	0.064		U	0.012		U	0.012
Bis(2-ethylhexyl) phthalate	14	39	180	6.4		0.098		U	0.018		U	0.018
Butyl benzyl phthalate	29	290	1,300	0.27	J	0.087		U	0.016		U	0.016
Caprolactam	16	290	1,300		U	0.29		U	0.052		U	0.052
Carbazole	NS	NS	NS	0.17	J	0.07		U	0.013	0.18	J	0.013
Chrysene	NS	510	2,300	1.3	J	0.078	0.055	J	0.014	1.4		0.014
Dibenz(a,h)anthracene	NS	0.51	2.3	0.18		0.08		U	0.014	0.16		0.014
Dibenzofuran	NS	NS	NS	0.2	J	0.062		U	0.011	0.14	J	0.011
Diethyl phthalate	44	51,000	730,000		U	0.06		U	0.011		U	0.011
Dimethyl phthalate	NS	NS	NS		U	0.42		U	0.076		U	0.076
Di-n-butyl phthalate	NS	6,300	91,000	0.39	J	0.07		U	0.013		U	0.013
Di-n-octyl phthalate	NS	630	9,100		U	0.098		U	0.018		U	0.018
Fluoranthene	NS	2,400	33,000	2.7		0.065	0.1	J	0.012	3		0.012
Fluorene	NS	2,400	33,000	0.46	J	0.054		U	0.0098	0.35		0.0097
Hexachlorobenzene	0.17	0.43	2.3		U	0.088		U	0.016		U	0.016
Hexachlorobutadiene	0.17	8.9	47		U	0.039		U	0.0071		U	0.0071
Hexachlorocyclopentadiene	2.5	2.7	7,800		U *+	0.16		U *+	0.029		U *+	0.029
Hexachloroethane	0.17	17	91		U	0.063		U	0.011		U	0.011
Indeno[1,2,3-cd]pyrene	NS	5.1	23	0.62		0.072		U	0.013	0.68		0.013
Isophorone	0.23	570	2,700		U	0.53		U	0.097		U	0.096
Naphthalene	19	5.7	27	0.31	J	0.032		U	0.0058	0.11	J	0.0057
Nitrobenzene	0.17	7.5	36		U	0.1		U	0.019		U	0.018
N-Nitrosodimethylamine	NS	NS	NS		U	0.17		U	0.031		U	0.031
N-Nitrosodi-n-propylamine	0.17	0.17	0.36		U	0.13		U	0.024		U	0.024
N-Nitrosodiphenylamine	1.1	110	520		U	0.15		U	0.027		U	0.027
Pentachlorophenol	0.33	1.0	4.4		U	0.38		U	0.069		U	0.068
Phenanthrene	NS	NS	NS	2.8		0.075	0.076	J	0.014	3.9		0.014
Phenol	21	19,000	270,000		U	0.068		U	0.012		U	0.012
Pyrene	NS	1,800	25,000	2.4		0.046	0.091	J	0.0083	3.6		0.0083
SVOC TIC Conc. (# TICs)	NS	NS	NS	60.8 (16)			0.27 (1)			6.24 (12)		

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; NA = Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* NRSRS that exceeds SRSMGW

F1 = MS and/or MSD recovery exceeds control limits.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

D = Dilluted

TABLE 4B
SEPTEMBER 2024 - ANALYTICAL RESULTS - SEMIVOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP11-2024-1.0-1.5			TP11-2024-8.0-8.5			TP12-2024-1.0-1.5		
Lab ID:				460-311355-7			460-311355-8			460-311355-9		
Date Sampled:				9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organic Compounds (mg/kg)												
1,1'-Biphenyl	NS	87	450	0.19	J	0.012		U	0.012	0.042	J	0.012
1,2,4,5-Tetrachlorobenzene	NS	23	390		U	0.01		U	0.01		U	0.011
1,2-Diphenylhydrazine	NS	NS	NS		U	0.013		U	0.013		U	0.014
2,2'-oxybis[1-chloropropane]	1.9	3,100	52,000		U	0.02		U	0.02		U	0.021
2,3,4,6-Tetrachlorophenol	26	1,900	27,000		U	0.023		U	0.023		U	0.024
2,4,5-Trichlorophenol	68	6,300	91,000		U	0.034		U	0.034		U	0.036
2,4,6-Trichlorophenol	0.86	49	230		U	0.043		U	0.043		U	0.046
2,4-Dichlorophenol	0.19	190	2,700		U	0.021		U	0.022		U	0.023
2,4-Dimethylphenol	2.3	1,300	18,000		U	0.04		U	0.04		U	0.043
2,4-Dinitrophenol	0.33	130	1,800		U	0.16		U	0.17		U	0.18
2,4-Dinitrotoluene	NS	NS	NS		U	0.036		U	0.036		U	0.039
2,6-Dinitrotoluene	NS	NS	NS		U	0.024		U	0.024		U	0.026
2-Chloronaphthalene	NS	4,800	67,000		U	0.015		U	0.016		U	0.017
2-Chlorophenol	0.76	390	6,500		U	0.012		U	0.012		U	0.013
2-Methylnaphthalene	3.1	240	3,300	0.65		0.0093		U	0.0094	0.12	J	0.01
2-Methylphenol	0.77	320	4,600		U	0.012		U	0.013	0.018	J	0.013
2-Nitroaniline	NS	NS	NS		U	0.025		U	0.026		U	0.027
2-Nitrophenol	NS	NS	NS		U	0.033		U	0.034		U	0.036
3,3'-Dichlorobenzidine	3.9	1.2	5.7		U	0.05		U	0.051		U	0.054
3-Nitroaniline	NS	NS	NS		U	0.079		U	0.08		U	0.085
4,6-Dinitro-2-methylphenol	NS	NS	NS		U	0.14		U	0.14		U	0.15
4-Bromophenyl phenyl ether	NS	NS	NS		U	0.013		U	0.013		U	0.014
4-Chloro-3-methylphenol	NS	NS	NS		U	0.019		U	0.019		U	0.02
4-Chloroaniline	0.23	2.7	13		U	0.059		U	0.06		U	0.064
4-Chlorophenyl phenyl ether	NS	NS	NS		U	0.012		U	0.012		U	0.013
4-Methylphenol	0.75	630	9,100		U	0.021		U	0.021	0.35	J	0.022
4-Nitroaniline	NS	27	130		U	0.038		U	0.039		U	0.041
4-Nitrophenol	NS	NS	NS		U	0.054		U	0.055		U	0.058
Acenaphthene	NS	3,600	50,000	1.3		0.0095		U	0.0096	0.27	J	0.01
Acenaphthylene	NS	NS	NS	0.062	J	0.0095		U	0.0096	0.32	J	0.01
Acetophenone	3.6	7,800	130,000		U	0.016		U	0.017	0.1	J	0.018
Anthracene	NS	18,000	250,000	2.4		0.01		U	0.01	0.97		0.011
Atrazine	0.33	220	3,200		U	0.02		U	0.02		U	0.021
Benzaldehyde	NS	170	910		U	0.055		U	0.056	0.22	J	0.059
Benzidine	NS	NS	NS		U	0.07		U	0.071		U	0.075
Benzo[a]anthracene	0.71	5.1	23	**4**		0.025		U	0.025	**2.8**		0.027
Benzo[a]pyrene	NS	0.51	2.3	**3.6**		0.0089		U	0.009	**2.5**		0.0095
Benzo[b]fluoranthene	NS	5.1	23	4.5		0.0086		U	0.0087	3.9		0.0093
Benzo[g,h,i]perylene	NS	NS	NS	2.2		0.0098		U	0.0099	1.3		0.011
Benzo[k]fluoranthene	NS	51	230	1.7		0.0065		U	0.0066	1.3		0.007
Bis(2-chloroethoxy)methane	NS	190	2,700		U	0.026		U	0.026		U	0.028
Bis(2-chloroethyl)ether	0.33	0.63	3.3		U	0.012		U	0.012		U	0.012
Bis(2-ethylhexyl) phthalate	14	39	180		U	0.018		U	0.018	0.51		0.019
Butyl benzyl phthalate	29	290	1,300		U	0.016		U	0.016	0.03	J	0.017
Caprolactam	16	290	1,300		U	0.052		U	0.052		U	0.056
Carbazole	NS	NS	NS	1.3		0.013		U	0.013	0.35	J	0.014
Chrysene	NS	510	2,300	3.5		0.014		U	0.014	2.9		0.015
Dibenz(a,h)anthracene	NS	0.51	2.3	**0.59**		0.014		U	0.015	0.38		0.016
Dibenzofuran	NS	NS	NS	1.2		0.011		U	0.011	0.21	J	0.012
Diethyl phthalate	44	51,000	730,000		U	0.011		U	0.011		U	0.012
Dimethyl phthalate	NS	NS	NS		U	0.076		U	0.076		U	0.081
Di-n-butyl phthalate	NS	6,300	91,000		U	0.013		U	0.013	0.12	J	0.013
Di-n-octyl phthalate	NS	630	9,100		U	0.018		U	0.018		U	0.019
Fluoranthene	NS	2,400	33,000	7.8		0.012		U	0.012	5.8		0.013
Fluorene	NS	2,400	33,000	1.5		0.0098		U	0.0098	0.32	J	0.01
Hexachlorobenzene	0.17	0.43	2.3		U	0.016		U	0.016		U	0.017
Hexachlorobutadiene	0.17	8.9	47		U	0.0071		U	0.0072		U	0.0076
Hexachlorocyclopentadiene	2.5	2.7	7,800		U *+	0.029		U *+	0.03		U *+	0.031
Hexachloroethane	0.17	17	91		U	0.011		U	0.012		U	0.012
Indeno[1,2,3-cd]pyrene	NS	5.1	23	2.3		0.013		U	0.013	1.3		0.014
Isophorone	0.23	570	2,700		U	0.096		U	0.097		U	0.1
Naphthalene	19	5.7	27	2.5		0.0058		U	0.0058	0.3	J	0.0062
Nitrobenzene	0.17	7.5	36		U	0.018		U	0.019		U	0.02
N-Nitrosodimethylamine	NS	NS	NS		U	0.031		U	0.031		U	0.033
N-Nitrosodi-n-propylamine	0.17	0.17	0.36		U	0.024		U	0.024		U	0.026
N-Nitrosodiphenylamine	1.1	110	520		U	0.027		U	0.028		U	0.029
Pentachlorophenol	0.33	1.0	4.4		U	0.068		U	0.069		U	0.073
Phenanthrene	NS	NS	NS	11	D	0.027		U	0.014	3.7		0.015
Phenol	21	19,000	270,000		U	0.012		U	0.012		U	0.013
Pyrene	NS	1,800	25,000	7.2		0.0083		U	0.0084	5.3		0.0089
SVOC TIC Conc. (# TICs)	NS	NS	NS	15.26 (20)			0.49 (1)			10.72 (11)		

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; NA = Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

* NRSRS that exceeds SRSMGW

F1 = MS and/or MSD recovery exceeds control limits.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

D = Dilluted

TABLE 4C
SEPTEMBER 2024 ANALYTICAL RESULTS - INORGANICS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL. ,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP2-2024-1.0-1.5			TP3-2024-1.0-1.5			TP4-2024-1.0-1.5			TP6-2024-1.0-1.5		
Lab ID:				460-311355-10			460-311355-2			460-311355-1			460-311355-5		
Date Sampled:				9/12/24			9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			1-1.5			1-1.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)															
C10-C12 Aromatics	NS	NS	NS		NA			NA			NA			NA	
C12-C16 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
C12-C16 Aromatics	NS	NS	NS		NA			NA			NA			NA	
C16-C21 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
C16-C21 Aromatics	NS	NS	NS		NA			NA			NA			NA	
C21-C36 Aromatic	NS	NS	NS		NA			NA			NA			NA	
C21-C40 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
C9-C12 Aliphatics	NS	NS	NS		NA			NA			NA			NA	
Total EPH (C9-C40)	NS	5,300	75,000	520		14		NA		450		15		NA	
Pesticides (mg/kg)															
4,4'-DDD	0.47	2.3	11		U	0.0012	0.015		0.0014		NA			NA	
4,4'-DDE	0.47	2.0	11	0.049		0.00082	0.051		0.001		NA			NA	
4,4'-DDT	0.67	1.9	9.5	0.23		0.0013	0.037	p	0.0016		NA			NA	
Aldrin	0.13	0.041	0.21		U	0.001		U	0.0013		NA			NA	
alpha-BHC	0.0023	0.086	0.41		U	0.0007		U	0.00086		NA			NA	
beta-BHC	0.0046	0.30	1.4		U	0.00078		U	0.00095		NA			NA	
Chlordane (technical)	1.4	0.27	1.4		U	0.017		U	0.02		NA			NA	
delta-BHC	NS	NS	NS		U	0.00042		U	0.00052		NA			NA	
Dieldrin	0.024	0.034	0.16		U	0.0009		U	0.0011		NA			NA	
Endosulfan I	NS	470	7,800		U	0.0011		U	0.0013		NA			NA	
Endosulfan II	NS	470	7,800		U	0.0018		U	0.0022		NA			NA	
Endosulfan sulfate	NS	NS	NS		U	0.00087		U	0.0011		NA			NA	
Endrin	1.6	19	270		U	0.00099		U	0.0012		NA			NA	
Endrin aldehyde	NS	NS	NS		U	0.0016		U	0.002		NA			NA	
Endrin ketone	NS	NS	NS		U	0.0013		U	0.0016		NA			NA	
gamma-BHC (Lindane)	0.0035	0.57	2.8		U	0.00064		U	0.00078		NA			NA	
Heptachlor	0.083	0.15	0.81		U	0.00082		U	0.001		NA			NA	
Heptachlor epoxide	0.081	0.076	0.40	0.0079		0.001		U	0.0013		NA			NA	
Methoxychlor	NS	320	4,600		U	0.0016		U	0.0019		NA			NA	
Toxaphene	6.2	0.49	2.3		U	0.025		U	0.03		NA			NA	
Herbicides (mg/kg)															
2,4,5-T	NS	NS	NS		U	0.0073		U	0.0089		NA			NA	
2,4-D	NS	NS	NS		U	0.013		U	0.015		NA			NA	
Silvex (2,4,5-TP)	NS	NS	NS		U	0.0036		U	0.0044		NA			NA	
PCBs (mg/kg)															
Aroclor 1016	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1221	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1232	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1242	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1248	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1254	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1260	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor 1268	NS	NS	NS		U	0.018		NA			NA			NA	
Aroclor-1262	NS	NS	NS		U	0.018		NA			NA			NA	
Total PCBs	1.6	0.25	1.1		U	0.018		NA			NA			NA	
Metals (mg/kg)															
Aluminum	NS	78,000	NS	5,720		4.4		NA		3,640		4.9	12,200		4.8
Antimony	5.4	31	520	0.95		0.12		NA		0.69	J	0.13	1.4		0.13
Arsenic	19	19	19	6.3		0.083		NA		10.2		0.092	6.7		0.09
Barium	2,100	16,000	260,000	166		0.12		NA		218		0.13	157		0.13
Beryllium	0.70	160	2,600	0.31	J	0.046		NA		0.28	J	0.051	0.54		0.05
Cadmium	1.9	71	1,100	1.2		0.091		NA		1.4		0.1	**3**		0.099
Calcium	NS	NS	NS	4,670		32.9		NA		2,480		36.5	11,500		35.6
Chromium	NS	NS	NS	24.3		0.73		NA		16.1		0.81	92		0.79
Cobalt	90	23	390	3.7		0.12		NA		3.6		0.13	9.8		0.13
Copper	910	3,100	52,000	59.9		0.3		NA		71		0.33	376		0.32
Iron	NS	NS	NS	14,800		16.3		NA		13,500		18.1	27,500		17.7
Lead **	90	200	800	**586**		0.16		NA		**757**		0.18	**596**		0.17
Magnesium	NS	NS	NS	1,460		8.3		NA		1,420		9.1	4600		8.9
Manganese	NS	1,900	31,000	145		0.33		NA		99.1		0.36	318		0.35
Mercury	0.10	23	390	**1.1**		0.04		NA		**1.1**		0.041	**0.67**		0.009
Nickel	48	1,600	26,000	40.1		0.38		NA		11.6		0.42	**175**		0.41
Potassium	NS	NS	NS	480		13.1		NA		463		14.5	1,700		14.2
Selenium	11	390	6,500	0.59	J	0.1		NA		0.55	J	0.11	0.36	J	0.11
Silver	0.50	390	6,500	0.33		0.072		NA		0.35	J	0.08	**0.67**		0.078
Sodium	NS	NS	NS	68.5	J	37		NA		90.6		41	1,840		40
Thallium	NS	NS	NS	0.082	J	0.033		NA		0.2	J	0.037	0.14	J	0.036
Vanadium	NS	390	6,500	18.1		0.17		NA		13.9		0.18	28.1		0.18
Zinc	930	23,000	390,000	259		2.5		NA		430		2.7	**1,390**		2.7
Metals (mg/kg)															
Hexavalent Chromium	NS	240	20		U	0.87		NA			NA			U	0.9

mg/kg = Milligrams per kilogram

Q = Qualifier; ft bgs = Feet below ground surface

NS = No standard; NA = Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)

Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)

Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

Exceeds SRSMGW and RSRS

**MDL exceeds a standard**

* Exceeds NRSRS and SRSMGW

Lead** = NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exposure pathway was updated from 400 mg/kg to 200 mg/kg.

F1 = MS and/or MSD recovery exceeds control limits.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*1 = LCS/LCSD RPD exceeds control limits.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

H = Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

TABLE 4C
SEPTEMBER 2024 ANALYTICAL RESULTS - INORGANICS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL. ,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP8-2024-1.0-1.5			TP8-2024-8.0-8.5			TP9-2024-1.0-1.5		
Lab ID:				460-311355-3			460-311355-4			460-311355-6		
Date Sampled:				9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)												
C10-C12 Aromatics	NS	NS	NS		U	11		NA			NA	
C12-C16 Aliphatics	NS	NS	NS	63		45		NA			NA	
C12-C16 Aromatics	NS	NS	NS		U	17		NA			NA	
C16-C21 Aliphatics	NS	NS	NS	160		45		NA			NA	
C16-C21 Aromatics	NS	NS	NS	89		28		NA			NA	
C21-C36 Aromatic	NS	NS	NS	370		45		NA			NA	
C21-C40 Aliphatics	NS	NS	NS	1,200		160		NA			NA	
C9-C12 Aliphatics	NS	NS	NS		U	67		NA			NA	
Total EPH (C9-C40)	NS	5,300	75,000	4,000		310	23		14	77		14
Pesticides (mg/kg)												
4,4'-DDD	0.47	2.3	11	0.12		0.0013		NA			U	0.0011
4,4'-DDE	0.47	2.0	11		U	0.00088		NA			U	0.0008
4,4'-DDT	0.67	1.9	9.5		U	0.0014		NA			U	0.0012
Aldrin	0.13	0.041	0.21		U	0.0011		NA			U	0.001
alpha-BHC	0.0023	0.086	0.41		U	0.00076		NA			U	0.00068
beta-BHC	0.0046	0.30	1.4		U	0.00084		NA			U	0.00075
Chlordane (technical)	1.4	0.27	1.4		U	0.018		NA			U	0.016
delta-BHC	NS	NS	NS		U	0.00046		NA			U	0.00041
Dieldrin	0.024	0.034	0.16		U	0.00097		NA			U	0.00088
Endosulfan I	NS	470	7,800		U	0.0011		NA			U	0.001
Endosulfan II	NS	470	7,800		U	0.0019		NA			U	0.0017
Endosulfan sulfate	NS	NS	NS		U	0.00094		NA			U	0.00085
Endrin	1.6	19	270		U	0.0011		NA			U	0.00097
Endrin aldehyde	NS	NS	NS		U	0.0018		NA			U	0.0016
Endrin ketone	NS	NS	NS		U	0.0015		NA			U	0.0013
gamma-BHC (Lindane)	0.0035	0.57	2.8		U	0.00069		NA			U	0.00062
Heptachlor	0.083	0.15	0.81		U	0.00088		NA			U	0.0008
Heptachlor epoxide	0.081	0.076	0.40		U	0.0011		NA			U	0.001
Methoxychlor	NS	320	4,600		U	0.0017		NA			U	0.0015
Toxaphene	6.2	0.49	2.3		U	0.027		NA			U	0.024
Herbicides (mg/kg)												
2,4,5-T	NS	NS	NS		U	0.0079		NA			U	0.0071
2,4-D	NS	NS	NS		U	0.014		NA			U	0.012
Silvex (2,4,5-TP)	NS	NS	NS		U	0.0039		NA			U	0.0035
PCBs (mg/kg)												
Aroclor 1016	NS	NS	NS		U	0.4		U	0.018		U	0.018
Aroclor 1221	NS	NS	NS		U	0.4		U	0.018		U	0.018
Aroclor 1232	NS	NS	NS		U	0.4		U	0.018		U	0.018
Aroclor 1242	NS	NS	NS		U	0.4		U	0.018		U	0.018
Aroclor 1248	NS	NS	NS	15		0.4	0.21		0.018		U	0.018
Aroclor 1254	NS	NS	NS		U	0.4		U	0.018		U	0.018
Aroclor 1260	NS	NS	NS	2.4		0.4		U	0.018		U	0.018
Aroclor 1268	NS	NS	NS		U	0.4		U	0.018		U	0.018
Aroclor-1262	NS	NS	NS		U	0.4		U	0.018		U	0.018
Total PCBs	1.6	0.25	1.1	**17 ***		0.4	0.21		0.018		U	0.018
Metals (mg/kg)												
Aluminum	NS	78,000	NS	8,010		4.8	3,890		4.1	3,540		4.3
Antimony	5.4	31	520	**39.4**		0.13	0.15	J	0.11	0.24	J	0.11
Arsenic	19	19	19	**19.1***		0.089	3		0.077	7.9		0.081
Barium	2,100	16,000	260,000	1,360		0.13	25.2		0.11	59.3		0.11
Beryllium	0.70	160	2,600	0.55		0.049	0.16	J	0.043	0.21	J	0.045
Cadmium	1.9	71	1,100	**22.2**		0.098	0.13	J	0.085	0.18	J	0.089
Calcium	NS	NS	NS	55,700		35.3	835		30.6	586		32
Chromium	NS	NS	NS	804		0.79	268		0.68	7.8		0.71
Cobalt	90	23	390	**120**		0.13	4.9		0.11	2.4		0.12
Copper	910	3,100	52,000	**1,510**		0.32	24.4		0.28	16.5		0.29
Iron	NS	NS	NS	115,000		175	9,620		15.2	6,440		15.9
Lead **	90	200	800	**7,330***		1.7	56.3		0.15	**133**		0.16
Magnesium	NS	NS	NS	32,300		8.9	1,050		7.7	717		8
Manganese	NS	1,900	31,000	1,040		0.35	41.9		0.3	59.6		0.32
Mercury	0.10	23	390	**7.4**		0.88	**0.45**		0.0081	**0.44**		0.0079
Nickel	48	1,600	26,000	**2,630**		4.1	**133**		0.35	5.6		0.37
Potassium	NS	NS	NS	906		14.1	612		12.2	296		12.7
Selenium	11	390	6,500	0.81	J	0.11	0.15	J	0.096	0.27	J	0.1
Silver	0.50	390	6,500	**4.3**		0.077	0.12	J	0.067	0.14	J	0.07
Sodium	NS	NS	NS	3,050		39.7	57	J	34.3	41.7	J	36
Thallium	NS	NS	NS	0.092	J	0.036		U	0.031	0.06	J	0.032
Vanadium	NS	390	6,500	29.6		0.18	8.4		0.15	9		0.16
Zinc	930	23,000	390,000	**6,400**		26.5	45.7		2.3	138		2.4
Metals (mg/kg)												
Hexavalent Chromium	NS	240	20	1.3	J	0.95		U	0.86		NA	

mg/kg = Milligrams per kilogram
Q = Qualifier; ft bgs = Feet below ground surface
NS = No standard; NA = Not analyzed
U = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL
MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds SRSMGW and RSRS
MDL exceeds a standard

* Exceeds NRSRS and SRSMGW
Lead** = NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exp
F1 = MS and/or MSD recovery exceeds control limits.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
*1 = LCS/LCSD RPD exceeds control limits.
p = The %RPD between the primary and confirmation column/detector is >40%. The
H = Sample was prepped or analyzed beyond the specified holding time. Th

TABLE 4C
SEPTEMBER 2024 ANALYTICAL RESULTS - INORGANICS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL. ,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP11-2024-1.0-1.5			TP11-2024-8.0-8.5			TP12-2024-1.0-1.5		
Lab ID:				460-311355-7			460-311355-8			460-311355-9		
Date Sampled:				9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
NJDEP EPH (mg/kg)												
C10-C12 Aromatics	NS	NS	NS		NA			NA			NA	
C12-C16 Aliphatics	NS	NS	NS		NA			NA			NA	
C12-C16 Aromatics	NS	NS	NS		NA			NA			NA	
C16-C21 Aliphatics	NS	NS	NS		NA			NA			NA	
C16-C21 Aromatics	NS	NS	NS		NA			NA			NA	
C21-C36 Aromatic	NS	NS	NS		NA			NA			NA	
C21-C40 Aliphatics	NS	NS	NS		NA			NA			NA	
C9-C12 Aliphatics	NS	NS	NS		NA			NA			NA	
Total EPH (C9-C40)	NS	5,300	75,000	27		14		U	14	1,200		150
Pesticides (mg/kg)												
4,4'-DDD	0.47	2.3	11		NA			NA			U	0.0012
4,4'-DDE	0.47	2.0	11		NA			NA			U	0.00085
4,4'-DDT	0.67	1.9	9.5		NA			NA			U	0.0013
Aldrin	0.13	0.041	0.21		NA			NA		0.011		0.0011
alpha-BHC	0.0023	0.086	0.41		NA			NA			U	0.00074
beta-BHC	0.0046	0.30	1.4		NA			NA			U	0.00081
Chlordane (technical)	1.4	0.27	1.4		NA			NA			U	0.018
delta-BHC	NS	NS	NS		NA			NA			U	0.00044
Dieldrin	0.024	0.034	0.16		NA			NA			U	0.00094
Endosulfan I	NS	470	7,800		NA			NA			U	0.0011
Endosulfan II	NS	470	7,800		NA			NA			U	0.0019
Endosulfan sulfate	NS	NS	NS		NA			NA			U	0.00091
Endrin	1.6	19	270		NA			NA			U	0.001
Endrin aldehyde	NS	NS	NS		NA			NA			U	0.0017
Endrin ketone	NS	NS	NS		NA			NA			U	0.0014
gamma-BHC (Lindane)	0.0035	0.57	2.8		NA			NA			U	0.00067
Heptachlor	0.083	0.15	0.81		NA			NA			U	0.00085
Heptachlor epoxide	0.081	0.076	0.40		NA			NA			U	0.0011
Methoxychlor	NS	320	4,600		NA			NA			U	0.0017
Toxaphene	6.2	0.49	2.3		NA			NA			U	0.026
Herbicides (mg/kg)												
2,4,5-T	NS	NS	NS		NA			NA			U	0.0077
2,4-D	NS	NS	NS		NA			NA			U	0.013
Silvex (2,4,5-TP)	NS	NS	NS		NA			NA			U	0.0038
PCBs (mg/kg)												
Aroclor 1016	NS	NS	NS		NA			NA			U	0.019
Aroclor 1221	NS	NS	NS		NA			NA			U	0.019
Aroclor 1232	NS	NS	NS		NA			NA			U	0.019
Aroclor 1242	NS	NS	NS		NA			NA			U	0.019
Aroclor 1248	NS	NS	NS		NA			NA			U	0.019
Aroclor 1254	NS	NS	NS		NA			NA			U	0.019
Aroclor 1260	NS	NS	NS		NA			NA		0.44		0.019
Aroclor 1268	NS	NS	NS		NA			NA			U	0.019
Aroclor-1262	NS	NS	NS		NA			NA			U	0.019
Total PCBs	1.6	0.25	1.1		NA			NA		**0.44**		0.019
Metals (mg/kg)												
Aluminum	NS	78,000	NS	4,220		4.9	3,770		5.6	9,570		11.2
Antimony	5.4	31	520		U	0.13		U F1	0.15	3		0.3
Arsenic	19	19	19	3.1		0.093	3.2		0.11	8.9		0.21
Barium	2,100	16,000	260,000	56.7		0.13	5.1		0.15	134		0.3
Beryllium	0.70	160	2,600	0.21	J	0.051	0.24	J	0.058	0.4	J	0.12
Cadmium	1.9	71	1,100	0.14	J	0.1		U	0.12	**6.4**		0.23
Calcium	NS	NS	NS	743		36.7	309		41.5	22,900		83.3
Chromium	NS	NS	NS	8.2		0.82	7.2		0.93	1,650		1.9
Cobalt	90	23	390	2.1		0.13	2		0.15	**30.3**		0.3
Copper	910	3,100	52,000	9.4		0.33	5.9		0.38	379		0.75
Iron	NS	NS	NS	8,130		18.2	7,810		20.6	48,800		41.3
Lead **	90	200	800	81.5		0.18	2.8		0.2	**584**		0.41
Magnesium	NS	NS	NS	818		9.2	951		10.4	3,260		20.9
Manganese	NS	1,900	31,000	120		0.36	38.2		0.41	358		0.82
Mercury	0.10	23	390	**0.24**		0.0078		U	0.0078	**0.9**		0.041
Nickel	48	1,600	26,000	4.6		0.42	4.9		0.48	**1,340**		0.96
Potassium	NS	NS	NS	346		14.6	597		16.5	604		33.1
Selenium	11	390	6,500	0.15	J	0.12		U	0.13	0.57	J	0.26
Silver	0.50	390	6,500		U	0.08		U	0.091	**0.73**	J	0.18
Sodium	NS	NS	NS		U	41.2		U	46.6	95.1	J	93.5
Thallium	NS	NS	NS	0.042	J	0.037		U	0.042		U	0.084
Vanadium	NS	390	6,500	8.6		0.19	9.3		0.21	17.1		0.42
Zinc	930	23,000	390,000	70.4		2.7	19.4		3.1	764		6.2
Metals (mg/kg)												
Hexavalent Chromium	NS	240	20		NA			NA			U	0.91

mg/kg = Milligrams per kilogram
Q = Qualifier; ft bgs = Feet below ground surface
NS = No standard; NA = Not analyzed
U = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL
MDL = Method Detection Limit

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds SRSMGW and RSRS
**MDL exceeds a standard**

* Exceeds NRSRS and SRSMGW
Lead** = NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exp
F1 = MS and/or MSD recovery exceeds control limits.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
*1 = LCS/LCSD RPD exceeds control limits.
p = The %RPD between the primary and confirmation column/detector is >40%. The
H = Sample was prepped or analyzed beyond the specified holding time. Th

TABLE 4D
SEPTEMBER 2024 SPLP ANALYTICAL RESULTS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET, CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP2-2024-1.0-1.5			TP3-2024-1.0-1.5			TP4-2024-1.0-1.5			TP6-2024-1.0-1.5			TP8-2024-1.0-1.5		
Lab ID:				460-311355-10			460-311355-2			460-311355-1			460-311355-5			460-311355-3		
Date Sampled:				9/12/24			9/12/24			9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				1-1.5			1-1.5			1-1.5			1-1.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
SPLP Semi-Volatiles (µg/L)																		
2-Methylnaphthalene	NS	NS	NS		U	0.73		NA			U H	0.73		NA			U	0.73
Benzo[a]anthracene	NS	NS	NS		U	0.81		NA			U H	0.81		U	0.81		NA	
Benzo[a]pyrene	NS	NS	NS		U	0.37		NA			U H	0.37		U	0.37		NA	
Benzo[b]fluoranthene	NS	NS	NS		U	0.37		NA			U H	0.37		NA			NA	
Dibenz(a,h)anthracene	NS	NS	NS		U	1		NA			U H	1		U	1		NA	
Indeno[1,2,3-cd]pyrene	NS	NS	NS		U	0.65		NA			U H	0.65		U	0.65		NA	
Naphthalene	NS	NS	NS		U	0.21		NA			U H	0.21		U	0.21		NA	
SPLP Metals (µg/L)																		
Antimony	NS	NS	NS		NA			NA			NA			NA		28.6		0.76
Cadmium	NS	NS	NS		NA			NA			NA			NA			U	0.39
Cobalt	NS	NS	NS		NA			NA			NA			NA			U	0.71
Copper	NS	NS	NS		NA			NA			NA			NA		23.2		2.5
Lead	NS	NS	NS	43.5		0.84		NA		96		0.84		NA		15.9		0.84
Mercury	NS	NS	NS	0.13	J	0.091		NA		0.25		0.091		NA			U	0.091
Nickel	NS	NS	NS		NA			NA			NA			NA		57.6		0.91
Silver	NS	NS	NS		NA			NA			NA			NA			U	0.29
Zinc	NS	NS	NS		NA			NA			NA		28.7		6.5	10.4	J	6.5
SPLP																		
Sample Initial Amt (Kg)	NS	NS	NS	0.1				NA		0.10007			0.1001			0.10004		
Leachate Final pH (SU)	NS	NS	NS	9.74				NA		10.19			9.28			9.13		
Leachate Final Amt (L)	NS	NS	NS	2				NA		2			2			2		

µg/L = Micrograms per Liter

ft bgs = Feet below ground surface

Q = Qualifier; Kg = Kilogram; SU = Standard Units; L = Liters

NS = No standard; NA: Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

H = Sample was prepped or analyzed beyond the specified holding time.

TABLE 4D
SEPTEMBER 2024 SPLP ANALYTICAL RESULTS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET, CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	2021 NJ SRSMGW	2021 NJ Residential SRS (RSRS)	2021 NJ Non-Residential SRS (NRSRS)	TP8-2024-8.0-8.5			TP9-2024-1.0-1.5			TP11-2024-1.0-1.5			TP11-2024-8.0-8.5			TP12-2024-1.0-1.5		
Lab ID:				460-311355-4			460-311355-6			460-311355-7			460-311355-8			460-311355-9		
Date Sampled:				9/12/24			9/12/24			9/12/24			9/12/24			9/12/24		
Sample Depth (ft bgs):				8-8.5			1-1.5			1-1.5			8-8.5			1-1.5		
				Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
SPLP Semi-Volatiles (µg/L)																		
2-Methylnaphthalene	NS	NS	NS		NA			NA			U	0.73		NA			NA	
Benzo[a]anthracene	NS	NS	NS		NA			NA			U	0.81		NA			NA	
Benzo[a]pyrene	NS	NS	NS		NA			NA			U	0.37		NA			NA	
Benzo[b]fluoranthene	NS	NS	NS		NA			NA			U	0.37		NA			U	0.37
Dibenz(a,h)anthracene	NS	NS	NS		NA			NA			U	1		NA			NA	
Indeno[1,2,3-cd]pyrene	NS	NS	NS		NA			NA			U	0.65		NA			NA	
Naphthalene	NS	NS	NS		NA			NA			U	0.21		NA			NA	
SPLP Metals (µg/L)																		
Antimony	NS	NS	NS		NA			NA			NA			NA		2		0.76
Cadmium	NS	NS	NS		NA			NA			NA			NA			U	0.39
Cobalt	NS	NS	NS		NA			NA			NA			NA			U	0.71
Copper	NS	NS	NS		NA			NA			NA			NA			NA	
Lead	NS	NS	NS		NA			NA			NA			NA			NA	
Mercury	NS	NS	NS		NA			NA			NA			NA			NA	
Nickel	NS	NS	NS		NA			NA			NA			NA		4.3		0.91
Silver	NS	NS	NS		NA			NA			NA			NA			U	0.29
Zinc	NS	NS	NS		NA			NA			NA			NA			NA	
SPLP																		
Sample Initial Amt (Kg)	NS	NS	NS		NA			NA		0.10003				NA		0.10001		
Leachate Final pH (SU)	NS	NS	NS		NA			NA		9.94				NA		9.15		
Leachate Final Amt (L)	NS	NS	NS		NA			NA		2				NA		2		

µg/L = Micrograms per Liter

ft bgs = Feet below ground surface

Q = Qualifier; Kg = Kilogram; SU = Standard Units; L = Liters

NS = No standard; NA: Not analyzed

U = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL

MDL = Method Detection Limit

H = Sample was prepped or analyzed beyond the specified holding time.

TABLE 5 - MONITORING WELL CONSTRUCTION SUMMARY
"S YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
Block: 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Name	Date Installed	Permit Number	Top of Screen (feet bgs)	Total Depth (feet bgs)	Well Diameter (inches)	Well Material
MW-1	9/5/24	E202409317	7	17	2	PVC
MW-2	9/5/24	E202409321	5	15	2	PVC
MW-3	9/5/24	E202409319	7	17	2	PVC

Name	State Plane Coordinates NAD 83		Coordinates		TOC Elevation (feet above MSL)	Groundwater Elevation (feet above MSL)
	Northing (Y)	Easting (X)	Latitude (N)	Longitude (W)		
MW-1	400,882.9	319,028.6	39º 55′ 56.56”	-75º 07′ 02.25”	24.77	10.82
MW-2	400,842.4	319,274.0	39º 55′ 56.18”	-75º 06′ 59.10”	23.63	9.33
MW-3	400,704.8	319,020.4	39º 55′ 54.80”	-75º 07′ 02.34”	23.90	9.66

bgs = Below ground surface
MSL = Mean Sea Level
Elevation data and well construction obtained from Vargo Associates
Guaging and sample event on September 23, 2024
TOC = Top of inner (PVC) casing
Wells are finished as stickups and have steel well protector

TABLE 6A
SEPTEMBER 2024 - ANALYTICAL GROUNDWATER RESULTS - VOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	NJDEP GWQS for Class IIA Aquifers (µg/L)	NJDEP VI GWSLs (µg/L)	MW-1			MW-2			MW-3			EB-240923			TB		
Lab ID:			460-311991-3			460-311991-1			460-311991-2			460-311991-4			460-311991-5		
Date Sampled:			9/23/24			9/23/24			9/23/24			9/23/24			9/23/24		
Groundwater Depth (feet btoc):			13.95			14.30			14.24			NA			NA		
			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatile Organics by 8260 (µg/L)																	
1,1,1-Trichloroethane	30	13,000		U	0.24		U	0.24		U	0.24		U	0.24		U	0.24
1,1,2,2-Tetrachloroethane	1	NS		U	0.37		U	0.37		U	0.37		U	0.37		U	0.37
1,1,2-Trichloroethane	3	NS		U	0.2		U	0.2		U	0.2		U	0.2		U	0.2
1,1-Dichloroethane	50	NS		U	0.26		U	0.26		U	0.26		U	0.26		U	0.26
1,1-Dichloroethene	1	26		U	0.26		U	0.26		U	0.26		U	0.26		U	0.26
1,2,3-Trichlorobenzene	NS	NS		U	0.36		U	0.36	1		0.36		U	0.36		U	0.36
1,2,4-Trichlorobenzene	9	130		U	0.37		U	0.37	4.3		0.37		U	0.37		U	0.37
1,2-Dichlorobenzene	600	6,800		U	0.21		U	0.21		U	0.21		U	0.21		U	0.21
1,2-Dichloroethane	2	230		U	0.43		U	0.43		U	0.43		U	0.43		U	0.43
1,2-Dichloropropane	1	11		U	0.35		U	0.35		U	0.35		U	0.35		U	0.35
1,3-Dichlorobenzene	600	NS		U	0.34		U	0.34		U	0.34		U	0.34		U	0.34
1,4-Dichlorobenzene	75	21,000		U	0.33		U	0.33		U	0.33		U	0.33		U	0.33
2-Butanone (MEK)	300	2,500,000		U	1.9		U	1.9		U	1.9		U	1.9		U	1.9
2-Hexanone	40	NS		U	1.1		U	1.1		U	1.1		U	1.1		U	1.1
4-Methyl-2-pentanone (MIBK)	NS	900,000		U	1.3		U	1.3		U	1.3		U	1.3		U	1.3
Acetone	6,000	NS		U	4.4		U	4.4		U	4.4		U	4.4		U	4.4
Benzene	1	23		U	0.2		U	0.2		U	0.2		U	0.2		U	0.2
Bromochloromethane	NS	NS		U	0.41		U	0.41		U	0.41		U	0.41		U	0.41
Bromodichloromethane	1	NS	0.57	J	0.34		U	0.34		U	0.34		U	0.34		U	0.34
Bromoform	4	NS		U	0.54		U	0.54		U	0.54		U	0.54		U	0.54
Bromomethane	10	20		U	0.55		U	0.55		U	0.55		U	0.55		U	0.55
Carbon disulfide	700	1,500		U	0.82		U	0.82		U	0.82		U	0.82		U	0.82
Carbon tetrachloride	1	1.0		U	0.21		U	0.21		U	0.21		U	0.21		U	0.21
Chlorobenzene	50	770		U	0.38		U	0.38		U	0.38		U	0.38		U	0.38
Chlorodibromomethane	1	NS		U	0.28		U	0.28		U	0.28		U	0.28		U	0.28
Chloroethane	NS	26,000		U	0.32		U	0.32		U	0.32		U	0.32		U	0.32
Chloroform	70	1,000	3.9		0.33		U	0.33		U	0.33		U	0.33		U	0.33
Chloromethane	NS	240		U	0.4		U	0.4		U	0.4		U	0.4		U	0.4
cis-1,2-Dichloroethene	70	NS		U	0.22		U	0.22		U	0.22		U	0.22		U	0.22
cis-1,3-Dichloropropene	NS	8.4		U	0.22		U	0.22		U	0.22		U	0.22		U	0.22
Cyclohexane	NS	16,000		U	0.32		U	0.32		U	0.32		U	0.32		U	0.32
Dichlorodifluoromethane	1,000	NS		U	0.31		U	0.31		U	0.31		U	0.31		U	0.31
Ethylbenzene	700	700		U	0.3		U	0.3		U	0.3		U	0.3		U	0.3
Freon TF	20,000	20,000		U	0.31		U	0.31		U	0.31		U	0.31		U	0.31
Isopropylbenzene	700	NS		U	0.34		U	0.34		U	0.34		U	0.34		U	0.34
Methyl acetate	7,000	NS		U	0.79		U	0.79		U	0.79		U	0.79		U	0.79
Methylcyclohexane	NS	NS		U	0.71		U	0.71		U	0.71		U	0.71		U	0.71
Methylene Chloride	3	2,600		U	0.32		U	0.32		U	0.32		U	0.32		U	0.32
Methyl tert-butyl ether	70	690		U	0.22		U	0.22		U	0.22		U	0.22		U	0.22
Styrene	100	180,000		U	0.42		U	0.42		U	0.42		U	0.42		U	0.42
Tert-butyl Alcohol	100	NS		U	8.3	9.6	J	8.3		U	8.3		U	8.3		U	8.3
Tetrachloroethene	1	36		U	0.25		U	0.25	**1.3 ***		0.25		U	0.25		U	0.25
Toluene	600	330,000		U	0.38		U	0.38		U	0.38		U	0.38		U	0.38
trans-1,2-Dichloroethene	100	NS		U	0.24		U	0.24		U	0.24		U	0.24		U	0.24
trans-1,3-Dichloropropene	NS	8.4		U	0.22		U	0.22		U	0.22		U	0.22		U	0.22
Trichloroethene	1	3.0		U	0.31		U	0.31	0.53	J	0.31		U	0.31		U	0.31
Trichlorofluoromethane	2,000	NS		U	0.32		U	0.32		U	0.32		U	0.32		U	0.32
Vinyl chloride	1	1.0		U	0.17		U	0.17		U	0.17		U	0.17		U	0.17
Xylenes, Total	1,000	7,800		U	0.65		U	0.65		U	0.65		U	0.65		U	0.65
VOC TIC Conc. (# TICs)	100/500 total	NS	ND			ND			ND			ND			ND		
Volatile Organics by 8260 (µg/L)																	
1,2-Dibromo-3-Chloropropane	0.02	NS		U	0.01		U	0.01		U	0.01		U	0.01		U	0.01
Ethylene Dibromide	0.03	0.45		U	0.0079		U	0.0079		U	0.0079		U	0.0079		U	0.0079

µg/L = All concentrations reported in micrograms per liter
btoc = Below top of casing
TICs = Tentatively Identified Compounds
U = Sample concentration not detected above the MDL
NS = No standard available
Q = Qualifier
MDL = Method Detection Limit

NJ-GWIIA = 2020 NJ Groundwater Quality Class IIA Criteria
NJ-VIGWS = 2021 NJ Vapor Intrusion Groundwater Screening Levels
# Exceeds 2020 NJ Groundwater Quality Criteria for Class IIA Aquifers (NJ-GWIIA)
# Exceeds NJ-GWIIA and 2021 NJ Vapor Intrusion Groundwater Screening Levels (NJ-VIGWSL)
# MDL exceeds a remediation standard
J = Concentration detected at a value below the RL and above the MDL for target compounds.
1.3* = Meets standard after rounding according to NJDEP Guidance for the Attainment of Remediation Standards
ND = Not Detected

TABLE 6B
SEPTEMBER 2024 - ANALYTICAL GROUNDWATER RESULTS - SEMIVOLATILES
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,
CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:	NJDEP	MW-1			MW-2			MW-3			EB-240923		
Lab ID:	GWQS for	460-311991-3			460-311991-1			460-311991-2			460-311991-4		
Date Sampled:	Class IIA	9/23/24			9/23/24			9/23/24			9/23/24		
Groundwater Depth (feet btoc):	Aquifers	13.95			14.30			14.24					
	(µg/L)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Semi-Volatile Organics by 8270 SIMs (µg/L)													
1,4-Dioxane	0.4		U	0.17		U	0.17		U	0.17		U	0.17
Benzo[a]anthracene	0.10		U	0.016		U	0.016		U	0.016		U	0.016
Benzo[a]pyrene	0.10		U	0.022		U	0.022		U	0.022		U	0.022
Benzo[b]fluoranthene	0.20		U	0.024		U	0.024		U	0.024		U	0.024
Benzo[g,h,i]perylene	100		U	0.035		U	0.035		U	0.035		U	0.035
Benzo[k]fluoranthene	0.50		U	0.028		U	0.028		U	0.028		U	0.028
Bis(2-chloroethyl)ether	7		U	0.026		U	0.026		U	0.026		U	0.026
Dibenz(a,h)anthracene	0.30		U	0.02		U	0.02		U	0.02		U	0.02
Hexachlorobenzene	0.020		U	0.011		U	0.011		U	0.011		U	0.011
Indeno[1,2,3-cd]pyrene	0.20		U	0.036		U	0.036		U	0.036		U	0.036
N-Nitrosodimethylamine	0.80		U	0.12		U	0.12		U	0.12		U	0.12
Pentachlorophenol	0.30		U	0.18		U	0.18		U	0.18		U	0.18
Semi-Volatile Organics by 8270 (µg/L)													
1,1'-Biphenyl	400		U	1.2		U	1.2		U	1.2		U	1.2
1,2,4,5-Tetrachlorobenzene	NS		U	1.2		U	1.2		U	1.2		U	1.2
1-Methylnaphthalene	5		U	1.1		U	1.1		U	1.1		U	1.1
2,2'-oxybis[1-chloropropane]	300		U	0.63		U	0.63		U	0.63		U	0.63
2,3,4,6-Tetrachlorophenol	200		U	0.75		U	0.75		U	0.75		U	0.75
2,4,5-Trichlorophenol	700		U	0.88		U	0.88		U	0.88		U	0.88
2,4,6-Trichlorophenol	20		U	0.86		U	0.86		U	0.86		U	0.86
2,4-Dichlorophenol	20		U	1.1		U	1.1		U	1.1		U	1.1
2,4-Dimethylphenol	100		U	0.62		U	0.62		U	0.62		U	0.62
2,4-Dinitrophenol	40		U	2.6		U	2.6		U	2.6		U	2.6
2,4-Dinitrotoluene	NS		U	1		U	1		U	1		U	1
2,6-Dinitrotoluene	NS		U	0.83		U	0.83		U	0.83		U	0.83
2-Chloronaphthalene	600		U	1.2		U	1.2		U	1.2		U	1.2
2-Chlorophenol	40		U *-	0.38		U *-	0.38		U *-	0.38		U *-	0.38
2-Methylnaphthalene	30		U *-	0.53		U *-	0.53		U *-	0.53		U *-	0.53
2-Methylphenol	50		U *-	0.67		U *-	0.67		U *-	0.67		U *-	0.67
2-Nitroaniline	NS		U	0.47		U	0.47		U	0.47		U	0.47
2-Nitrophenol	NS		U	0.75		U	0.75		U	0.75		U	0.75
3 & 4 Methylphenol	NS		U	0.64		U	0.64		U	0.64		U	0.64
3,3'-Dichlorobenzidine	30		U *-	1.4		U *-	1.4		U *-	1.4		U *-	1.4
3-Nitroaniline	NS		U	1.9		U	1.9		U	1.9		U	1.9
4,6-Dinitro-2-methylphenol	0.7		U	3		U	3		U	3		U	3
4-Bromophenyl phenyl ether	NS		U	0.75		U	0.75		U	0.75		U	0.75
4-Chloro-3-methylphenol	100		U	0.58		U	0.58		U	0.58		U	0.58
4-Chloroaniline	30		U	1.9		U	1.9		U	1.9		U	1.9
4-Chlorophenyl phenyl ether	NS		U	1.3		U	1.3		U	1.3		U	1.3
4-Nitroaniline	NS		U	1.2		U	1.2		U	1.2		U	1.2
4-Nitrophenol	NS		U	4		U	4		U	4		U	4
Acenaphthene	400		U	1.1		U	1.1		U	1.1		U	1.1
Acenaphthylene	100		U	0.82		U	0.82		U	0.82		U	0.82
Acetophenone	700		U	2.3		U	2.3		U	2.3		U	2.3
Anthracene	2,000		U	1.3		U	1.3		U	1.3		U	1.3
Atrazine	3		U	1.3		U	1.3		U	1.3		U	1.3
Benzaldehyde	NS		U	2.1		U	2.1		U	2.1		U	2.1
Bis(2-chloroethoxy)methane	NS		U	0.59		U	0.59		U	0.59		U	0.59
Bis(2-ethylhexyl) phthalate	3		U	0.8		U	0.8		U	0.8		U	0.8
Butyl benzyl phthalate	100		U	0.85		U	0.85		U	0.85		U	0.85
Caprolactam	4,000		U	2.2		U	2.2		U	2.2		U	2.2
Carbazole	NS		U	0.68		U	0.68		U	0.68		U	0.68
Chrysene	5		U	0.91		U	0.91		U	0.91		U	0.91
Dibenzofuran	NS		U	1.1		U	1.1		U	1.1		U	1.1
Diethyl phthalate	6,000		U	0.98		U	0.98		U	0.98		U	0.98
Dimethyl phthalate	100		U	0.77		U	0.77		U	0.77		U	0.77
Di-n-butyl phthalate	700		U	0.84		U	0.84		U	0.84		U	0.84
Di-n-octyl phthalate	100		U	0.75		U	0.75		U	0.75		U	0.75
Fluoranthene	300		U	0.84		U	0.84		U	0.84		U	0.84
Fluorene	300		U	0.91		U	0.91		U	0.91		U	0.91
Hexachlorobutadiene	1		U	0.78		U	0.78		U	0.78		U	0.78
Hexachlorocyclopentadiene	40		U	3.6		U	3.6		U	3.6		U	3.6
Hexachloroethane	7		U	0.8		U	0.8		U	0.8		U	0.8
Isophorone	40		U	0.8		U	0.8		U	0.8		U	0.8
Naphthalene	300		U	0.54		U	0.54		U	0.54		U	0.54
Nitrobenzene	6		U	0.57		U	0.57		U	0.57		U	0.57
N-Nitrosodi-n-propylamine	10		U	0.43		U	0.43		U	0.43		U	0.43
N-Nitrosodiphenylamine	10		U	0.89		U	0.89		U	0.89		U	0.89
Phenanthrene	100		U	1.3		U	1.3		U	1.3		U	1.3
Phenol	2,000		U	0.29		U	0.29		U	0.29		U	0.29
Pyrene	200		U	1.6		U	1.6		U	1.6		U	1.6
SVOC TIC Conc. (# TICs)	NS	ND			ND			ND			ND		

µg/L = All concentrations reported in micrograms per liter
btoc = Below top of casing
TICs = Tentatively Identified Compounds
U = Sample concentration not detected above the MDL
NS = No standard available; Q = Qualifier

NJ-GWIIA = 2020 NJ Groundwater Quality Class IIA Criteria
Exceeds 2020 NJ Groundwater Quality Criteria for Class IIA Aquifers (NJ-GWIIA)
MDL exceeds a remediation standard
*- : LCS and/or LCSD is outside acceptance limits, LOW biased.
* : Compound does not exceed a standard once rounding is applied to result
ND = Not Detected; MDL = Method Detection Limit

TABLE 6C
SEPTEMBER 2024 - ANALYTICAL GROUNDWATER RESULTS - INORGANICS
"S. YAFFA AND SONS, INC."
616 CHESTNUT STREET ET AL.,CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project # 11595-03

Sample ID:		MW-1			MW-2			MW-3			EB-240923		
Lab ID:	NJDEP GWQS	460-311991-3			460-311991-1			460-311991-2			460-311991-4		
Date Sampled:	for Class IIA	9/23/24			9/23/24			9/23/24			9/23/24		
Groundwater Depth (feet btoc):	Aquifers (µg/L)	13.95			14.30			14.24			NA		
		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Metals by 6020B (µg/L)													
Aluminum	200	102		19.5	**3,100**		19.5	**1,360**		19.5		U	19.5
Antimony	6		U	0.76	1.5	J	0.76		U	0.76		U	0.76
Arsenic	3	2		0.89	**10.8**		0.89	1.3	J	0.89		U	0.89
Barium	6,000	164		0.91	124		0.91	95.9		0.91		U	0.91
Beryllium	1		U	0.13	0.25	J	0.13		U	0.13		U	0.13
Cadmium	4	0.75	J	0.39	0.53	J	0.39		U	0.39		U	0.39
Calcium	NS	105,000		54	195,000		54	84,200		53.6		U	53.6
Chromium	70		U	2.5	12.4		2.5	5.5		2.5		U	2.5
Cobalt	100	4.9		0.71	15.9		0.71	7.1		0.71		U	0.71
Copper	1,300		U	2.5	14.5		2.5	9.5		2.5		U	2.5
Iron	300	116	J	58.2	**4,010**		58	**1,210**		58.2		U	58.2
Lead	5		U	0.84	**30.1**		0.84	2.2		0.84		U	0.84
Magnesium	NS	53400		46.9	181000		46.9	34000		46.9		U	46.9
Manganese	50	**125**		1.5	**131**		1.5	**1,150**		1.5		U	1.5
Mercury	2		U	0.091		U	0.091		U	0.091		U	0.091
Nickel	100	9.2		0.91	36.2		0.91	5.6		0.91		U	0.91
Potassium	NS	13,800		112	58,200		112	27,200		112		U	112
Selenium	40	3.6		0.59	1	J	0.59	2.7		0.59		U	0.59
Silver	40		U	0.29		U	0.29		U	0.29		U	0.29
Sodium	50,000	**87,900**		219	**112,000**		219	26,900		219		U	219
Thallium	2		U	0.21		U	0.21		U	0.21		U	0.21
Vanadium	NS	13.2		0.68	15.9		0.68	4.6		0.68		U	0.68
Zinc	2,000	9.4	J	6.5	41.3		6.5	11.3	J	6.5		U	6.5

µg/L = All concentrations reported in micrograms per liter
btoc = Below top of casing
U = Sample concentration not detected above the MDL
NS = No standard available
Q = Qualifier
MDL = Method Detection Limit
J = Concentration detected at a value below the RL and above the MDL
ND = Not Detected
NS = No standard available

NJ-GWIIA = 2020 NJ Groundwater Quality Class IIA Criteria
Exceeds 2020 NJ Groundwater Quality Criteria for Class IIA Aquifers (NJ-GWIIA)

Table 7 – SURROUNDING 200 FOOT RADIUS LAND USE EVALUATION
"S. YAFFA AND SONS, INC.
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project No. 11595-03

Map ID	BLOCK	LOT	Property Address	Owner Address	Land Use
2	388	82	709 CHESTNUT ST	15 NO 35TH STREET CAMDEN, NJ 08105	Residential
4	324	11	620 MT VERNON ST	PO BOX 95120 CAMDEN, NJ 081015120	Vacant Land
5	323	43	1027 SO 6TH ST	1027 SO 6TH STREET CAMDEN, NJ 08103	Vacant land
6	329	148	1137 BARING ST	766 MOUNT VERNON STREET CAMDEN, NJ 08103	Residential
7	330	185	1136 BARING ST	1136 BARING STREET CAMDEN, NJ 081032202	Residential
8	402	73	701 KAIGHN AVE	406 CHAMBERS AVENUE CAMDEN, NJ 08103	Commercial
9	402	76	707 KAIGHN AVE	707 KAIGHN AVENUE CAMDEN, NJ 08103	Commercial
10	324	37	613 CHESTNUT ST	306 MUNN LANE CHERRY HILL, NJ 08034	Residential
11	324	12	622 MT VERNON ST	306 MUNN LANE CHERRY HILL, NJ 08034	Vacant Land
12	324	14	626 MT VERNON ST	PO BOX 95120 CAMDEN, NJ 081015120	Vacant Land
13	324	22	643 CHESTNUT ST	PO BOX 8908 COLLINGSWOOD, NJ 08108	Commercial
14	324	28	619-635 CHESTNUT ST	No Information	Vacant Land
15	329	152	1129 BARING ST	1127 BARING STREET CAMDEN, NJ 081032201	Vacant land
16	324	44	1026 SO 6TH ST	1727 HYBRID PLACE CLEMENTON, NJ 08021	Vacant Land
17	324	42	603 CHESTNUT ST	603 CHESTNUT STREET CAMDEN, NJ 081032306	Vacant Land
18	324	40	607 CHESTNUT ST	811 CHURCH ROAD, #105 CHERRY HILL, NJ 08002	Vacant Land
19	324	39	609 CHESTNUT ST	520 MARKET ST, 13TH FL CAMDEN, NJ 08102	Public property
20	324	38	611 CHESTNUT ST	611 CHESTNUT STREET CAMDEN, NJ 08104	Residential
21	324	5	608 MT VERNON ST	608 MT VERNON STREET CAMDEN, NJ 081032312	Vacant Land
22	324	6	610 MT VERNON ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
23	324	3	604 MT VERNON ST	604 MT VERNON STREET CAMDEN, NJ 081032312	Vacant Land
24	324	4	606 MT VERNON ST	PO BOX 95120 CAMDEN, NJ 081015120	Public property
25	388	83	707 CHESTNUT ST	B-3 CHESTNUT COURT CAMDEN, NJ 08103	Residential
26	323	17	1023 SO 6TH ST	900 HADDON AVENUE, #201 COLLINGSWOOD, NJ 08108	Residential
27	329	149	1135 BARING ST	1135 BARING STREET CAMDEN, NJ 081032201	Vacant land
28	330	184	1134 BARING ST	1134 BARING STREET CAMDEN, NJ 08103-2202	Vacant land
29	324	34	619-635 CHESTNUT ST	811 CHURCH ROAD, #105 CHERRY HILL, NJ 08002	Vacant Land
30	329	146	1141 BARING ST	1141 BARING STREET CAMDEN, NJ 08103	Residential
31	324	10	618 MT VERNON ST	811 CHURCH ROAD, #105 CHERRY HILL, NJ 08002	Vacant Land
32	324	23	641 CHESTNUT ST	1622 MT EPHRAIM AVENUE CAMDEN, NJ 08104	Vacant Land
33	329	145	1143 BARING ST	1143 BARING STREET CAMDEN, NJ 081039481	Vacant land
34	329	150	1133 BARING ST	6158 WAYNE AVENUE PNNSAUKEN, NJ 08110	Residential
35	330	181	1128 BARING ST	22 EDEN HOLLOW LANE SICKLERVILLE, NJ 08080	Residential
36	323	18	1025 SO 6TH ST	2106 OLD YORK ROAD BORDENTOWN, NJ 085054213	Residential
37	332	109	617 KAIGHN AVE	PO BOX 95120 CAMDEN, NJ 081015120	Public property
38	332	121	620 SYCAMORE ST	333 LAFAYETTE AVE, 18J BROOKLYN, NY 11238	Vacant land
39	332	99	1142 SO 6TH ST	424 KING DRIVE GLASSBORO, NJ 08025	Residential
40	330	183	1132 BARING ST	PO BOX 95120 CAMDEN, NJ 081015120	Public property
41	330	169	1104 BARING ST	10 JOLINE ROAD KENDALL, NJ 08824	Residential
42	329	158	1117 BARING ST	6115 FORREST AVENUE PENNSAUKEN, NJ 08110	Residential
43	330	175	1116 BARING ST	273-A WESTFIELD GARDENS CAMDEN, NJ 08105	Residential
44	323	14	576 MT VERNON ST	3501 BLACK HORSE PK, #530 TURNERSVILLE, NJ 08012	Residential
45	323	7	562 MT VERNON ST	PO BOX 245 PENNSAUKEN, NJ 08110	Residential
46	323	16	580 MT VERNON ST	1319 LANSDOWN AVENUE CAMDEN, NJ 08104	Vacant land
47	332	122	622 SYCAMORE ST	622 SYCAMORE STREET CAMDEN, NJ 081032313	Vacant land
48	324	31	619-635 CHESTNUT ST	No Information	Vacant Land
49	324	45	1024 SO 6TH ST	1031 KENWOOD AVENUE CAMDEN, NJ 08103	Residential
50	388	81	711 CHESTNUT ST	22 EDENHOLLOW LANE SICKLERVILLE, NJ 08081	Residential
51	329	164	1105 BARING ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA, 19462	Residential
52	329	141	1151 BARING ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
53	329	142	1149 BARING ST	206 CHATHAM ROAD LINDENWOLD, NJ 08021	Vacant land
54	330	191	1148 BARING ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
55	401	38	SS SYCAMORE 42 E 7TH ST	PO BOX 1575 LAKEWOOD, NJ 08701	Residential (Apartment)
56	329	156	1121 BARING ST	8616 108TH STREET RICHMOND HILL, NY 11418	Residential
57	388	84	705 CHESTNUT ST	705 CHESTNUT STREET CAMDEN, NJ 081032401	Vacant land
58	329	103	1100 MARION ST	PO BOX 95120 CAMDEN, NJ 081015120	Public property
59	324	33	619-635 CHESTNUT ST	No Information	Vacant Land
60	323	15	578 MT VERNON ST	742 TULIP STREET CAMDEN, NJ 08104	Residential
61	330	177	1120 BARING ST	1501 LTL GLOUCESTER, #F37 BLACKWOOD, NJ 08012	Residential
62	388	86	701-703 CHESTNUT ST	PO BOX 95120 CAMDEN, NJ 08105120	Public property
63	329	157	1119 BARING ST	1119 BARING STREET CAMDEN, NJ 08103	Residential
64	330	176	1118 BARING ST	1118 BARING STREET CAMDEN, NJ 081032202	Residential
65	330	178	1122 BARING ST	1122 BARING STREET CAMDEN, NJ 08103	Residential

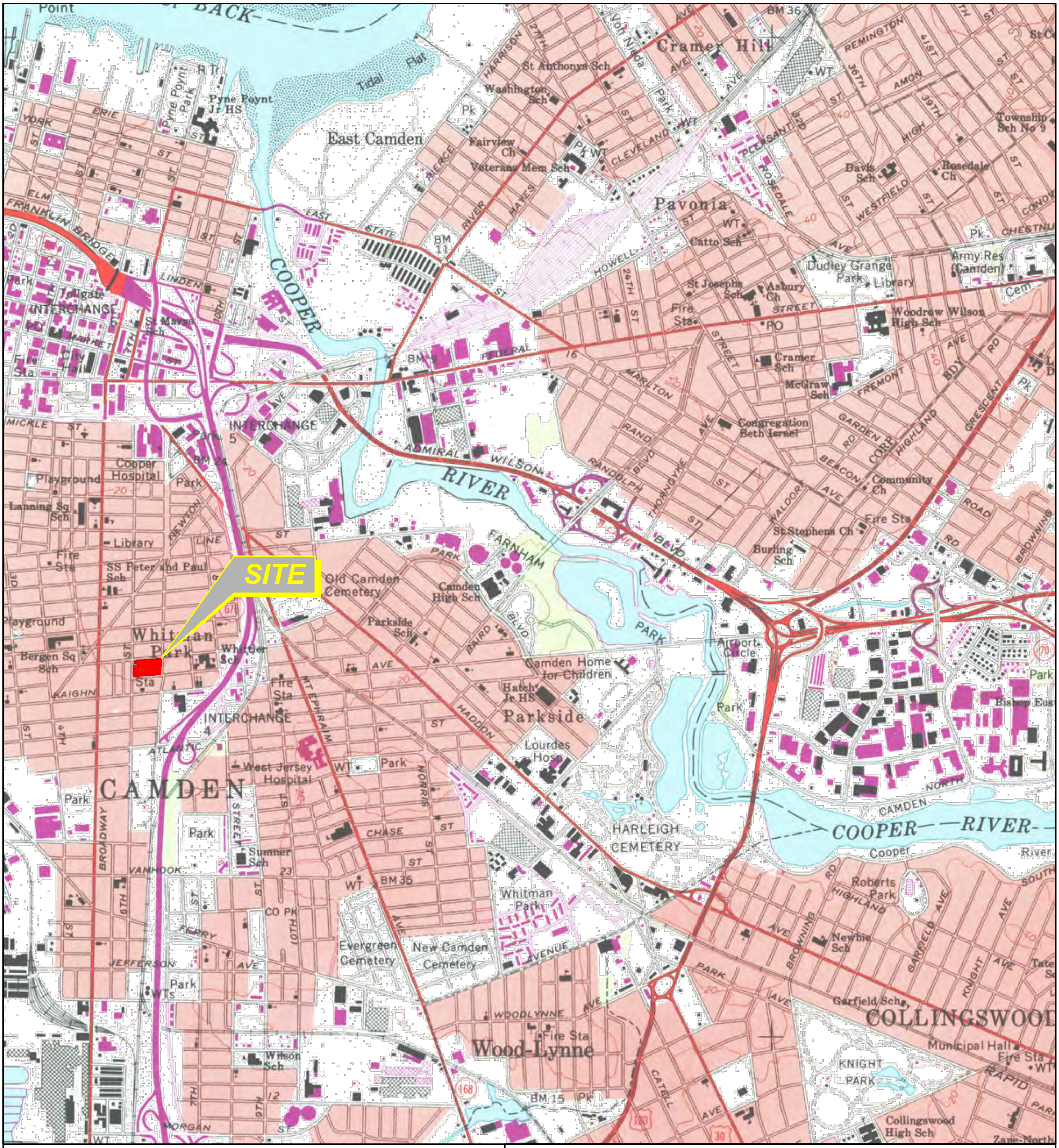
Table 7 – SURROUNDING 200 FOOT RADIUS LAND USE EVALUATION
"S. YAFFA AND SONS, INC.
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project No. 11595-03

Map ID	BLOCK	LOT	Property Address	Owner Address	Land Use
66	330	190	1146 BARING ST	1146 BARING STREET CAMDEN, NJ 081032202	Residential
67	332	90	SE 6TH & SYCAMORE STS	424 KING DRIVE GLASSBORO, NJ 08025	Commercial
68	332	101	606 SYCAMORE ST	284 E PENN STREET PHILADELPHIA, PA 191441710	Vacant land
69	332	110			unknown
71	330	170	1106 BARING ST	559 RAMONA GONZALEZ ST CAMDEN, NJ 08103	Residential
72	330	172	1110 BARING ST	1110 BARING STREET CAMDEN, NJ 081032202	Vacant land
73	329	155	1123 BARING ST	1123 BARING STREET CAMDEN, NJ 081032201	Residential
74	401	37	SE 7TH & SYCAMORE ST	406 CHAMBERS AVENUE CAMDEN, NJ 08103	Vacant land
75	324	32	619-635 CHESTNUT ST	No Information	Vacant Land
76	332	117	612 SYCAMORE ST	200 HDDNFLD-BRLN RD, #102 GIBBSBORO, NJ 08026	Residential
77	388	41	700 MT VERNON ST	201 BLACKWD-CLEMTN RD/209 PINE HILL, NJ 08021	Vacant land
78	388	40	702 MT VERNON ST	PO BOX 600 TRENTON, NJ 086250600	Public property
79	329	140	1153 BARING ST	2931 CRAMER STREET CAMDEN, NJ 081052201	Vacant land
80	330	193	1152 BARING ST	884 HADDON AVENUE CAMDEN, NJ 081032727	Vacant land
81	329	162	1109 BARING ST	2559 MILVID COURT RALEIGH, NC 276103554	Vacant land
82	331	80	601-609 SYCAMORE ST	811 CHURCH ROAD, #105 CHERRY HILL, NJ 08002	Vacant Land
83	329	160	1113 BARING ST	374 SO 30TH STREET CAMDEN, NJ 08105	Residential
84	330	173	1112 BARING ST	1112 BARING STREET CAMDEN, NJ 081032202	Vacant land
85	331	88	1110 SO 6TH ST	1110 SO 6TH STREET CAMDEN, NJ 08103	Vacant Land
86	324	1	600 MT VERNON ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
87	324	24	639 CHESTNUT ST	639 CHESTNUT STREET CAMDEN, NJ 08103	Vacant Land
88	332	123	624 SYCAMORE ST	129 N COUNTY LINE RD #124 JACKSON, NJ 08527	Residential
89	330	188	1142 BARING ST	1142 BARING STREET CAMDEN, NJ 081032202	Residential
90	330	186	1138 BARING ST	1138 BARING STREET CAMDEN, NJ 081032202	Residential
91	323	13	574 MT VERNON ST	512 LINE STREET CAMDEN, NJ 08103	Residential
92	329	165	1103 BARING ST	1103 BARING STREET CAMDEN, NJ 08103	Residential
93	324	2	602 MT VERNON ST	26 NEVADA AVENUE CHERRY HILL, NJ 080023006	Vacant Land
94	329	163	1107 BARING ST	1107 BARING STREET CAMDEN, NJ 081032201	Residential
95	330	179	1124 BARING ST	135 BERGEN COURT COPIAGUE, NY 11726	Residential
96	329	166	1101 BARING ST	1101 BARING STREET CAMDEN, NJ 081032201	Residential
97	330	167	1100 BARING ST	1531 NEWPORT STREET CAMDEN, NJ 08104	Commercial
98	330	168	1102 BARING ST	1102 BARING STREET CAMDEN, NJ 08103	Residential
99	323	10	568 MT VERNON ST	568 MT VERNON STREET CAMDEN, NJ 081032233	Vacant land
100	323	11	570 MT VERNON ST	570 MOUNT VERNON STREET CAMDEN, NJ 08103	Residential
101	323	9	566 MT VERNON ST	335 SUMMIT STREET CAMDEN, NJ 08102	Vacant land
102	323	8	564 MT VERNON ST	564 MT VERNON STREET CAMDEN, NJ 081032233	Vacant land
103	329	159	1115 BARING ST	1115 BARING STREET CAMDEN, NJ 081032201	Vacant land
104	330	171	1108 BARING ST	1108 BARING STREET CAMDEN, NJ 08103	Residential
105	331	89	1108 SO 6TH ST	520 MARKET ST, 13TH FL CAMDEN, NJ 08102	Vacant Land
106	331	50	SS CHESTNUT 60 E 6TH ST	811 CHURCH ROAD, #105 CHERRY HILL, NJ 08002	Vacant Land
107	331	53	620 CHESTNUT ST	324 BERKLEY STREET CAMDEN, NJ 08103	Residential
108	330	174	1114 BARING ST	216 HADDON AVE, #503 HADDON TOWNSHIP, NJ 08108	Residential
109	323	12	572 MT VERNON ST	572 MT VERNON STREET CAMDEN, NJ 081032233	Residential
110	331	19			Vacant land
111	329	161	1111 BARING ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETNG, PA 19462	Residential
112	329	143	1147 BARING ST	457 NO 35TH STREET CAMDEN, NJ 08105	Residential
113	332	153	621 KAIGHN AVE	8 LEXINGTON WAY SICKLERVILLE, NJ 08081	Commercial
114	323	21	555 CHESTNUT ST	555 CHESTNUT STREET CAMDEN, NJ 08103	Commercial
115	329	147	1139 BARING ST	1139 BARING STREET CAMDEN, NJ 08103	Residential
116	329	153	1127 BARING ST	1127 BARING STREET CAMDEN, NJ 081031234	Residential
117	330	180	1126 BARING ST	321 JOHN F KENNEDY BLVD LAWNSIDE, NJ 08045	Residential
118	332	116	610 SYCAMORE ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
119	330	182	1130 BARING ST	1147 BARING STREET CAMDEN, NJ 081032201	Residential
120	330	187	1140 BARING ST	1140 BARING STREET CAMDEN, NJ 081032202	Residential
121	324	27	619-635 CHESTNUT ST	No Information	Vacant Land
122	324	26	619-635 CHESTNUT ST	No Information	Vacant Land
123	329	151	1131 BARING ST	1127 BARING STREET CAMDEN, NJ 081032201	Vacant land
124	390	1	700 CHESTNUT ST	PO BOX 8908 COLLINGSWOOD, NJ 08108	Commercial
125	323	24	553 CHESTNUT ST	553 CHESTNUT STREET CAMDEN, NJ 08103	Residential
126	332	111			unknown
127	332	124	626 SYCAMORE ST	626 SYCAMORE STREET CAMDEN, NJ 081032313	Residential
128	332	125	628 SYCAMORE ST	22 EDEN HOLLOW LANE SICKLERVILLE, NJ 08081	Residential
129	332	126	630 SYCAMORE ST	PO BOX 127 GLASSBORO, NJ 08028	Vacant land

Table 7 – SURROUNDING 200 FOOT RADIUS LAND USE EVALUATION
"S. YAFFA AND SONS, INC.
616 CHESTNUT STREET ET AL., CITY OF CAMDEN, CAMDEN COUNTY, NJ 08103
BLOCK 331 / NJDEP CSRRP PI # 025881
Montrose Project No. 11595-03

Map ID	BLOCK	LOT	Property Address	Owner Address	Land Use
130	331	120	1106 SO 6TH ST	1106 SO 6TH STREET CAMDEN, NJ 081032305	Vacant land
131	323	44	1029 SO 6TH ST	217 RUTLEDGE STREET BROOKLYN, NY 11211	Vacant land
132	329	138	1157 BARING ST	PO BOX 95120 CAMDEN, NJ 081015120	Public property
133	330	189	1144 BARING ST	400 HETTY HILL STREET GAFFNEY, SC 293404232	Residential
134	332	118	613-615 KAIGHN AVE	276 WALNUT AVENUE BELLMAWR, NJ 08031	Commercial
135	331	54	624-644 CHESTNUT ST	PO BOX 95120 CAMDEN, NJ 081015120	Vacant land
136	329	154	1125 BARING ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
137	330	192	1150 BARING ST	PO BOX 95120 CAMDEN, NJ 081015120	Public property
138	324	29	619-635 CHESTNUT ST	No Information	Vacant Land
139	324	25	637 CHESTNUT ST	611 CHESTNUT STREET CAMDEN, NJ 08104	Residential
140	323	6	560 MT VERNON ST	1111 MARION STREET CAMDEN, NJ 08104	Vacant land
141	323	20	565 CHESTNUT ST	565 CHESTNUT STREET CAMDEN, NJ 081032231	Vacant land
142	331	113	602 1/2 CHESTNUT ST	PO BOX 95120 CAMDEN, NJ 081015120	Vacant land
143	331	87	1112 SO 6TH ST	PO BOX 95120 CAMDEN, NJ 081015120	Vacant land
144	332	130	638 SYCAMORE ST	638 SYCAMORE STREET CAMDEN, NJ 081032313	Vacant land
145	324	43	601 CHESTNUT ST	601 CHESTNUT STREET CAMDEN, NJ 081032778	Vacant Land
146	323	19	567-569 CHESTNUT ST	PO BOX 95120 CAMDEN, NJ 081015120	Vacant land
147	330	194	1154 BARING ST	832 GERMANTOWN PIKE, #5 PLYMOUTH MEETING, PA 19462	Residential
148	329	144	1145 BARING ST	1145 BARING STREET CAMDEN, NJ 08103	Vacant land
149	331	46	602 CHESTNUT ST	811 CHURCH ROAD, #105 CHERRY HILL, NJ 08002	Vacant land
150	332	115	608 SYCAMORE ST	608 SYCAMORE STREET CAMDEN, NJ 08103	Residential
151	324	30	619-635 CHESTNUT ST	No Information	Vacant Land
152	390	2	NE SYCAMORE & 7TH ST	PO BOX 1575 LAKEWOOD, NJ 08701	Residential (Apartment)
153	332	127	632 SYCAMORE ST	705 CHESTNUT STREET CAMDEN, NJ 081032401	Vacant land
154	332	128	634 SYCAMORE ST	634 SYCAMORE STREET CAMDEN, NJ 08103	Vacant land
155	332	129	636 SYCAMORE ST	PO BOX 95120 CAMDEN, NJ 081015120	Public property
156	402	74	703 KAIGHN AVE	406 CHAMBERS AVENUE CAMDEN, NJ 08103	Commercial
157	402	75	705 KAIGHN AVE	707 KAIGHN AVENUE CAMDEN, NJ 08103	Commercial
158	402	77	709 KAIGHN AVE	707 KAIGHN AVENUE CAMDEN, NJ 08103	Commercial

Figures



NOTE:
1. BASEMAP FROM USGS 1:2400-SCALE QUADRANGLE FOR CAMDEN, NJ 1967.

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

SITE LOCATION MAP AND TOPOGRAPHIC MAP

MONTROSE ENVIRONMENTAL

MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 2,000'
Drawn By:	JLW
Checked By:	CDV
Project Mgr.:	CDV
Originated By:	SDW
Project No.:	11595-01
Drawing Date:	09/19/2023
Sheet No.:	OF
Revision Number:	1

FIGURE 1

Pile ID	Area (square feet)	Total Volume (cubic yards)	Approx. Volume of Soil (cubic yards)	Approx. Volume of Construction Debris* (cubic yards)	Approx. Volume of Solid Waste* (cubic yards)
Pile A - Block 324	6,367	1,660	1,494	166	0
Pile B - Block 331	44,912	35,516**	30,415	3,379	1,722
Pile C - Block 331	8,154	2,106	211	1,895	0
Pile D - Block 331	4,067	840	--	--	--
Solid Waste - Block 324	1,709	270	0	0	270

* - "Construction Debris" includes brick, block, and asphalt. "Solid Waste" includes tires, metal, etc. Debris estimates are based on field observations and historical aerial photos. These estimates are approximate and for conceptual purposes only.

** - Pile B is comprised of unprocessed soil and construction debris placed over top of solid waste (tires, metal, etc.). Total volume is calculated from surface topography and includes the buried solid waste layer.

APRIL 2022 AERIAL IMAGERY PROVIDED BY VARGO ASSOCIATES

FORMER PILE BOUNDARIES AS MAPPED BY VARGO ASSOCIATES

SITE BOUNDARY

0 25 50 100

1 INCH = 50 FT

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

AERIAL PHOTOGRAPH

MONTROSE ENVIRONMENTAL

MONTROSE ENVIRONMENTAL SOLUTIONS, INC.

500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 50'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	06/11/2023
Sheet No.:	OF
Revision Number:	1

FIGURE 2

LEGEND

- SITE BOUNDARY
- FORMER RAILROAD SPUR
- AREA OF CONCERN
- FORMER DWELLING LOCATIONS
- FORMER JUNKYARD
- FORMER BUILDING
- FORMER OFFICE

NOTES:
1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL
2. * AOC NOT SHOWN (REFERS TO ENTIRE SITE).

AOC ID	Description
AOC-1	Former 1,000-gallon No. 2 Heating-Oil AST, 616 Chestnut Street (Lot 50) and Former 275-Gallon Heating-Oil AST at 604 Chestnut Street (Lot 46)
AOC-2	Former Registered 500- or 550-Gallon Gasoline/Diesel-Fuel UST, Removed November 18, 2002
AOC-3	Loading/Unloading Areas for Trash and Demolition debris*
AOC-4	Storage Pads, Including Drum and/or Waste Storage
AOC-5	Stormwater Collection System
AOC-6	Waste Piles, as defined by N.J.A.C. 7:26 • AOC-6a: Pile B – Soil and Mixed / Unprocessed Materials • AOC-6b: Pile C – Unprocessed Concrete, Brick, Block • AOC-6c: Pile D – Mixture of Screened Soil and Crushed Demolition debris • AOC-6d: Solid Waste Beneath Pile B
AOC-7	Historical Fill*
AOC-8	Three Pole-Mounted Electrical Transformers
AOC-9	Spill Incident # 96-04-19-0840-37: Spills from trucks cranes, and containers
AOC-10	Spill Incident # 23-03-27-1509-15: Stained soil underneath screening equipment
AOC-11	Former Railroad Spur
AOC-12	Former Residential Dwellings
AOC-13	Former On-Site Operations • AOC-13a: Steam Fitting Shop • AOC-13b: Greenhouse • AOC-13c: Junk Storage Areas • AOC-13d: Automotive Repair • AOC-13e: Yaffa Paper Stock Warehouse • AOC-13f: Yaffa Scrap Metal Operations • AOC-13g: Weyhill Soil/Debris Stockpiling Operations*
AOC-14	Off-site Coal & Wood Yard - 621 Kaighn Ave
AOC-15	Off-site Historical Cleaners - 1136 Baring Street

0 25 50 100

1 INCH = 50 FT

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

AREA OF CONCERN MAP

MONTROSE ENVIRONMENTAL

MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
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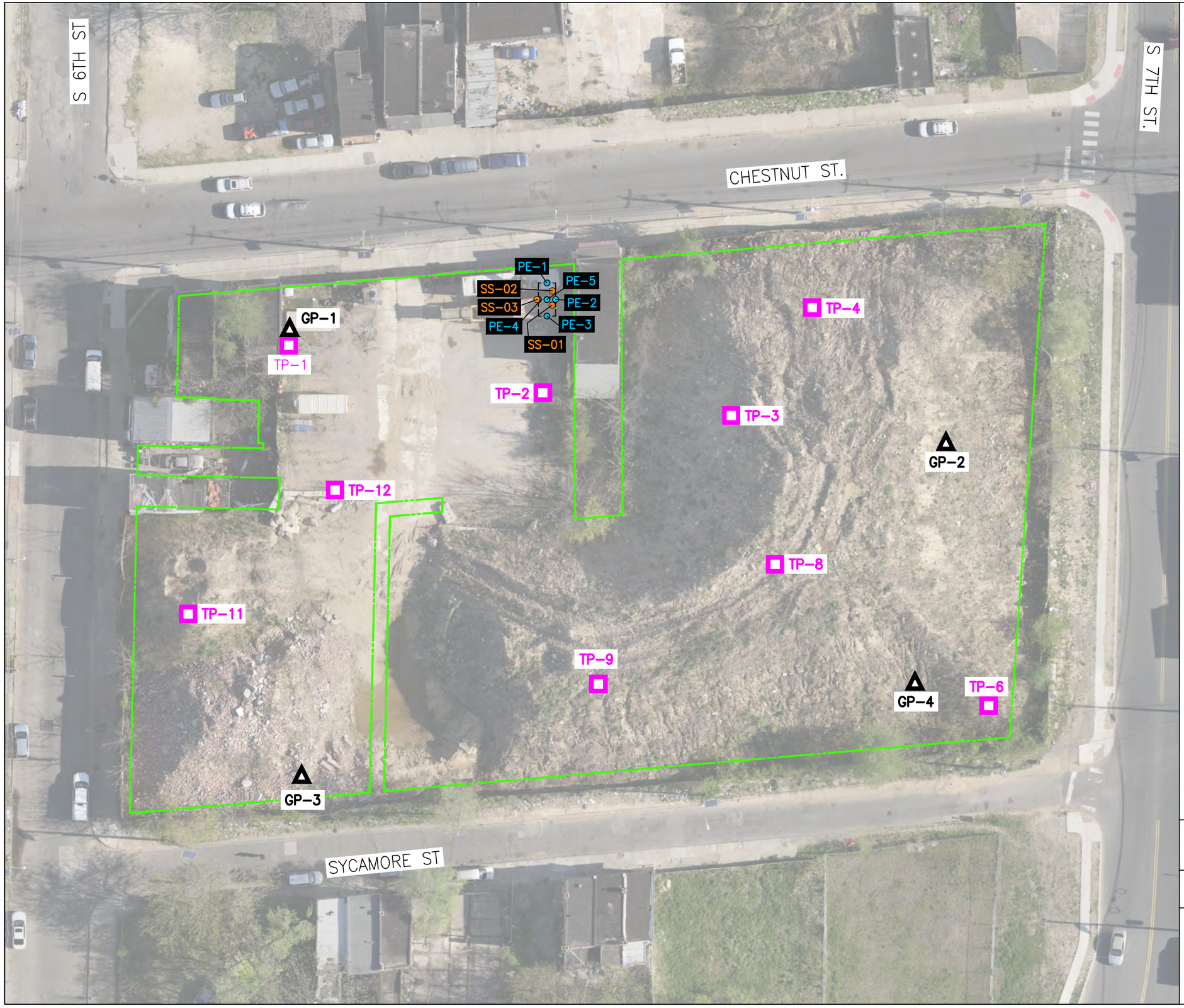
Scale:	1" = 50'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595–03
Drawing Date:	08/14/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 3

P:\projects\Camden Redevelopment Agency_11595\11595-01 Yaffa PAS\ICAD\Aerial Photo and Site Plan - Block 331.dwg



LEGEND

- SITE BOUNDARY
- EXCAVATION BOUNDARY (MAY 13, 2024)
- SOIL SAMPLE LOCATION (MAY 5, 2023)
- POST– EXCAVATION SOIL SAMPLE LOCATION (MAY 13, 2024)
- DIRECT–PUSH BORING LOCATION (SEPTEMBER 5, 2024)
- TEST PIT LOCATION (SEPTEMBER 12, 2024)

NOTES:
1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL

0 20 40 80

1 INCH = 40 FT

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

SOIL SAMPLE LOCATIONS - MAY 2023, MAY 2024, AND SEPTEMBER 2024

MONTROSE ENVIRONMENTAL

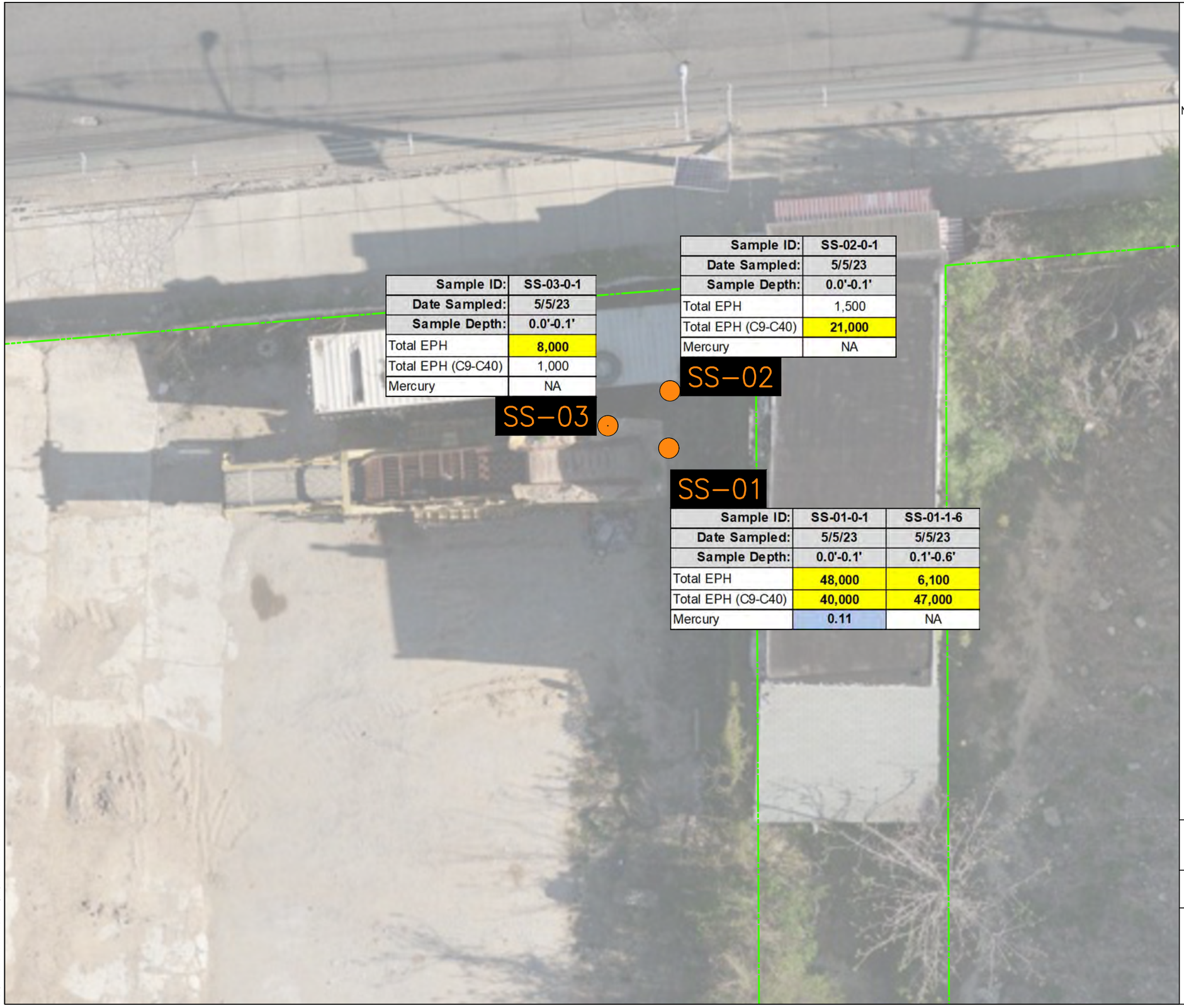
MONTROSE ENVIRONMENTAL SOLUTIONS, INC.

500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 40'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/30/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 4

P:\projects\Camden Redevelopment Agency\11595\11595-01 Yaffa PASI\CAD\Aerial Photo and Site Plan - Block 331.dwg



Sample ID:	SS-03-0-1
Date Sampled:	5/5/23
Sample Depth:	0.0'-0.1'
Total EPH	8,000
Total EPH (C9-C40)	1,000
Mercury	NA

Sample ID:	SS-02-0-1
Date Sampled:	5/5/23
Sample Depth:	0.0'-0.1'
Total EPH	1,500
Total EPH (C9-C40)	21,000
Mercury	NA

Sample ID:	SS-01-0-1	SS-01-1-6
Date Sampled:	5/5/23	5/5/23
Sample Depth:	0.0'-0.1'	0.1'-0.6'
Total EPH	48,000	6,100
Total EPH (C9-C40)	40,000	47,000
Mercury	0.11	NA

LEGEND

SITE BOUNDARY

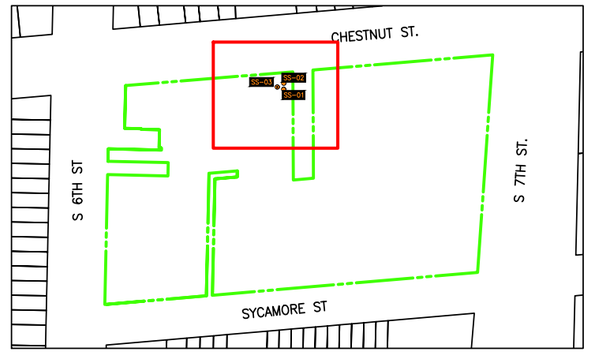
SOIL SAMPLE LOCATIONS (MAY 5, 2023)

NOTES:
1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

MDL = Method Detection Limit
mg/kg = All results reported in milligram per kilogram
ft bgs = feet below ground surface
NA = Not Analyzed
NS = No standard
Q = Qualifier
Total EPH = Fully Fractionated EPH Results
Total EPH (C9-C40) = Unfractionated EPH Results (Carbon 9 through Carbon 40)

Analytical Parameters	2021 NJ MGWSRS (mg/kg)	2021 NJ Residential SRS (mg/kg)	2021 NJ Non-Residential SRS (mg/kg)	Free Product Limit (mg/kg)
Total EPH	NS	5,300	75,000	8,000
Mercury	0.1	23	390	NS



0 5 10 20

1 INCH = 10 FT

S. YAFFA & SONS, INC.
616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

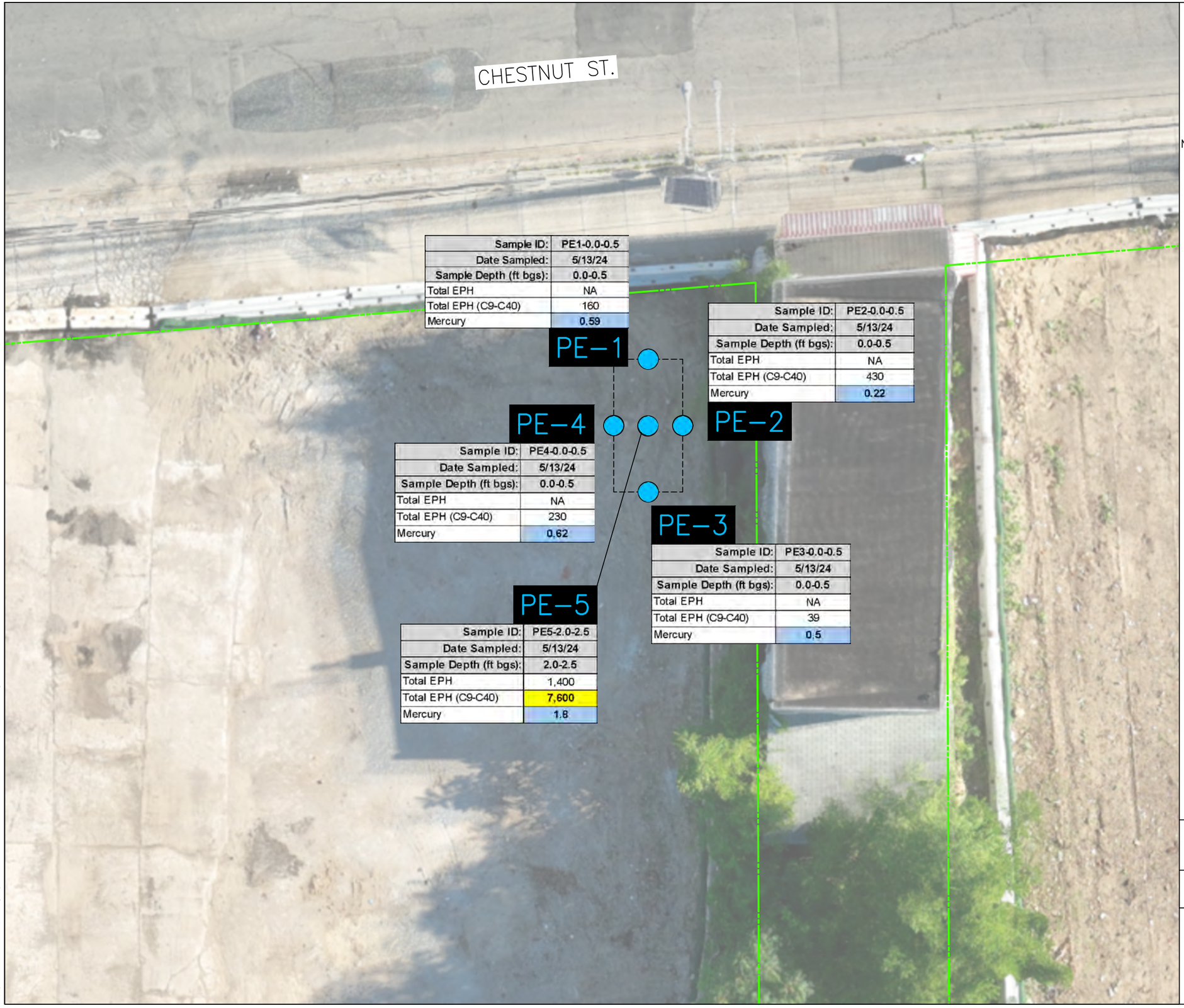
SOIL SAMPLE SUMMARY RESULTS
MAY 5, 2023

MONTROSE ENVIRONMENTAL
MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 10'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/14/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 5

P:\projects\Camden Redevelopment Agency\11595\11595-01 Yaffa PAS\CAD\SI Maps - Yaffa & Sons - Block 331.dwg



Sample ID:	PE1-0.0-0.5
Date Sampled:	5/13/24
Sample Depth (ft bgs):	0.0-0.5
Total EPH	NA
Total EPH (C9-C40)	160
Mercury	0.59

Sample ID:	PE2-0.0-0.5
Date Sampled:	5/13/24
Sample Depth (ft bgs):	0.0-0.5
Total EPH	NA
Total EPH (C9-C40)	430
Mercury	0.22

Sample ID:	PE4-0.0-0.5
Date Sampled:	5/13/24
Sample Depth (ft bgs):	0.0-0.5
Total EPH	NA
Total EPH (C9-C40)	230
Mercury	0.62

Sample ID:	PE3-0.0-0.5
Date Sampled:	5/13/24
Sample Depth (ft bgs):	0.0-0.5
Total EPH	NA
Total EPH (C9-C40)	39
Mercury	0.5

Sample ID:	PE5-2.0-2.5
Date Sampled:	5/13/24
Sample Depth (ft bgs):	2.0-2.5
Total EPH	1,400
Total EPH (C9-C40)	7,600
Mercury	1.8

LEGEND

SITE BOUNDARY

EXCAVATION BOUNDARY (MAY 13, 2024)

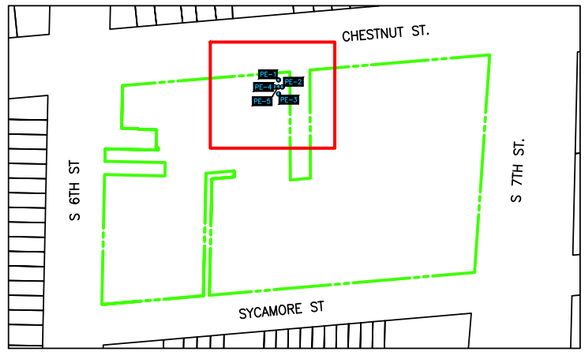
POST– EXCAVATION SOIL SAMPLE LOCATION (MAY 13, 2024)

NOTES:
1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)

MDL = Method Detection Limit
mg/kg = All results reported in milligram per kilogram
ft bgs = feet below ground surface
NA = Not Analyzed
NS = No standard
Q = Qualifier
Total EPH = Fully Fractionated EPH Results
Total EPH (C9-C40) = Unfractionated EPH Results (Carbon 9 through Carbon 40)

Analytical Parameters	2021 NJ MGWSRS (mg/kg)	2021 NJ Residential SRS (mg/kg)	2021 NJ Non-Residential SRS (mg/kg)	Free Product Limit (mg/kg)
Total EPH	NS	5,300	75,000	8,000
Mercury	0.1	23	390	NS



0 5 10 20

1 INCH = 10 FT

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

SOIL POST EXCAVATION SUMMARY RESULTS
MAY 13, 2024

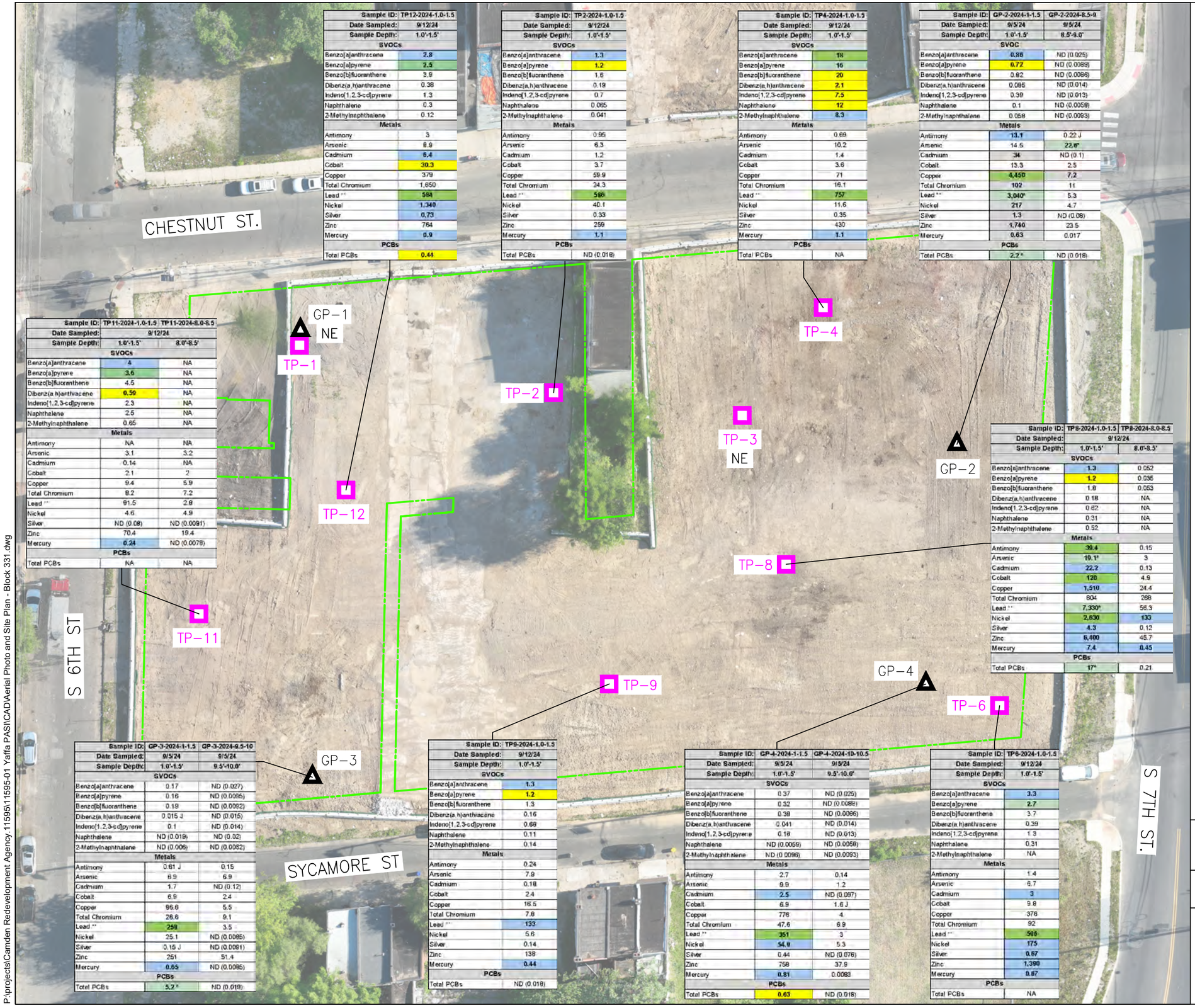
MONTROSE ENVIRONMENTAL

MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 10'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/14/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 6

P:\projects\Camden Redevelopment Agency\11595\11595-01 Yaffa PAS\CAD\SI Maps - Yaffa & Sons - Block 331.dwg



Sample ID:	TP12-2024-1.0-1.5
Date Sampled:	9/12/24
Sample Depth:	1.0'-1.5'
SVOCs	
Benzo[a]anthracene	2.8
Benzo[a]pyrene	2.5
Benzo[b]fluoranthene	3.9
Dibenz(a,h)anthracene	0.38
Indeno[1,2,3-cd]pyrene	1.3
Naphthalene	0.3
2-Methylnaphthalene	0.12
Metals	
Antimony	3
Arsenic	8.9
Cadmium	6.4
Cobalt	30.3
Copper	379
Total Chromium	1,650
Lead **	584
Nickel	1,340
Silver	0.73
Zinc	764
Mercury	0.9
PCBs	
Total PCBs	0.44

Sample ID:	TP2-2024-1.0-1.5
Date Sampled:	9/12/24
Sample Depth:	1.0'-1.5'
SVOCs	
Benzo[a]anthracene	1.3
Benzo[a]pyrene	1.2
Benzo[b]fluoranthene	1.6
Dibenz(a,h)anthracene	0.19
Indeno[1,2,3-cd]pyrene	0.7
Naphthalene	0.065
2-Methylnaphthalene	0.041
Metals	
Antimony	0.95
Arsenic	6.3
Cadmium	1.2
Cobalt	3.7
Copper	59.9
Total Chromium	24.3
Lead **	586
Nickel	40.1
Silver	0.33
Zinc	259
Mercury	1.1
PCBs	
Total PCBs	ND (0.018)

Sample ID:	TP4-2024-1.0-1.5
Date Sampled:	9/12/24
Sample Depth:	1.0'-1.5'
SVOCs	
Benzo[a]anthracene	18
Benzo[a]pyrene	16
Benzo[b]fluoranthene	20
Dibenz(a,h)anthracene	2.1
Indeno[1,2,3-cd]pyrene	7.5
Naphthalene	12
2-Methylnaphthalene	8.3
Metals	
Antimony	0.69
Arsenic	10.2
Cadmium	1.4
Cobalt	3.6
Copper	71
Total Chromium	16.1
Lead **	757
Nickel	11.6
Silver	0.35
Zinc	430
Mercury	1.1
PCBs	
Total PCBs	NA

Sample ID:	GP-2-2024-1-1.5	GP-2-2024-8.5-9
Date Sampled:	9/5/24	9/5/24
Sample Depth:	1.0'-1.5'	8.5'-9.0'
SVOC		
Benzo[a]anthracene	0.88	ND (0.025)
Benzo[a]pyrene	0.72	ND (0.0089)
Benzo[b]fluoranthene	0.92	ND (0.0086)
Dibenz(a,h)anthracene	0.085	ND (0.014)
Indeno[1,2,3-cd]pyrene	0.39	ND (0.013)
Naphthalene	0.1	ND (0.0059)
2-Methylnaphthalene	0.058	ND (0.0093)
Metals		
Antimony	13.1	0.22 J
Arsenic	14.5	22.8*
Cadmium	.34	ND (0.1)
Cobalt	13.3	2.5
Copper	4,450	7.2
Total Chromium	102	11
Lead **	3,040*	5.3
Nickel	217	4.7
Silver	1.3	ND (0.08)
Zinc	1,740	23.5
Mercury	0.63	0.017
PCBs		
Total PCBs	2.2*	ND (0.018)

Sample ID:	TP11-2024-1.0-1.5	TP11-2024-8.0-8.5
Date Sampled:	9/12/24	
Sample Depth:	1.0'-1.5'	8.0'-8.5'
SVOCs		
Benzo[a]anthracene	4	NA
Benzo[a]pyrene	3.6	NA
Benzo[b]fluoranthene	4.5	NA
Dibenz(a,h)anthracene	0.59	NA
Indeno[1,2,3-cd]pyrene	2.3	NA
Naphthalene	2.5	NA
2-Methylnaphthalene	0.65	NA
Metals		
Antimony	NA	NA
Arsenic	3.1	3.2
Cadmium	0.14	NA
Cobalt	2.1	2
Copper	9.4	5.9
Total Chromium	8.2	7.2
Lead **	91.5	2.8
Nickel	4.6	4.9
Silver	ND (0.08)	ND (0.0091)
Zinc	70.4	19.4
Mercury	0.24	ND (0.0079)
PCBs		
Total PCBs	NA	NA

Sample ID:	TP8-2024-1.0-1.5	TP8-2024-8.0-8.5
Date Sampled:	9/12/24	
Sample Depth:	1.0'-1.5'	8.0'-8.5'
SVOCs		
Benzo[a]anthracene	1.3	0.052
Benzo[a]pyrene	1.2	0.035
Benzo[b]fluoranthene	1.8	0.053
Dibenz(a,h)anthracene	0.18	NA
Indeno[1,2,3-cd]pyrene	0.82	NA
Naphthalene	0.31	NA
2-Methylnaphthalene	0.52	NA
Metals		
Antimony	39.4	0.15
Arsenic	19.1*	3
Cadmium	22.2	0.13
Cobalt	120	4.9
Copper	1,510	24.4
Total Chromium	804	268
Lead **	7,330*	56.3
Nickel	2,630	133
Silver	4.3	0.12
Zinc	5,400	45.7
Mercury	7.4	0.45
PCBs		
Total PCBs	17*	0.21

Sample ID:	GP-3-2024-1-1.5	GP-3-2024-9.5-10
Date Sampled:	9/5/24	9/5/24
Sample Depth:	1.0'-1.5'	9.5'-10.0'
SVOCs		
Benzo[a]anthracene	0.17	ND (0.027)
Benzo[a]pyrene	0.16	ND (0.0095)
Benzo[b]fluoranthene	0.19	ND (0.0092)
Dibenz(a,h)anthracene	0.015 J	ND (0.015)
Indeno[1,2,3-cd]pyrene	0.1	ND (0.014)
Naphthalene	ND (0.019)	ND (0.02)
2-Methylnaphthalene	ND (0.009)	ND (0.0092)
Metals		
Antimony	0.61 J	0.15
Arsenic	6.9	6.9
Cadmium	1.7	ND (0.12)
Cobalt	6.9	2.4
Copper	86.8	5.5
Total Chromium	28.6	9.1
Lead **	258	3.5
Nickel	25.1	ND (0.0085)
Silver	0.15 J	ND (0.0091)
Zinc	251	51.4
Mercury	0.65	ND (0.0085)
PCBs		
Total PCBs	5.2 *	ND (0.018)

Sample ID:	TP9-2024-1.0-1.5
Date Sampled:	9/12/24
Sample Depth:	1.0'-1.5'
SVOCs	
Benzo[a]anthracene	1.3
Benzo[a]pyrene	1.2
Benzo[b]fluoranthene	1.3
Dibenz(a,h)anthracene	0.16
Indeno[1,2,3-cd]pyrene	0.68
Naphthalene	0.11
2-Methylnaphthalene	0.14
Metals	
Antimony	0.24
Arsenic	7.9
Cadmium	0.18
Cobalt	2.4
Copper	16.5
Total Chromium	7.8
Lead **	133
Nickel	5.6
Silver	0.14
Zinc	138
Mercury	0.44
PCBs	
Total PCBs	ND (0.018)

Sample ID:	GP-4-2024-1-1.5	GP-4-2024-10-10.5
Date Sampled:	9/5/24	9/5/24
Sample Depth:	1.0'-1.5'	9.5'-10.0'
SVOCs		
Benzo[a]anthracene	0.37	ND (0.025)
Benzo[a]pyrene	0.32	ND (0.0089)
Benzo[b]fluoranthene	0.38	ND (0.0086)
Dibenz(a,h)anthracene	0.041	ND (0.014)
Indeno[1,2,3-cd]pyrene	0.18	ND (0.013)
Naphthalene	ND (0.0059)	ND (0.0059)
2-Methylnaphthalene	ND (0.0096)	ND (0.0093)
Metals		
Antimony	2.7	0.14
Arsenic	9.9	1.2
Cadmium	2.5	ND (0.097)
Cobalt	6.9	1.6 J
Copper	776	4
Total Chromium	47.6	6.9
Lead **	351	3
Nickel	54.9	5.3
Silver	0.44	ND (0.076)
Zinc	758	37.9
Mercury	0.81	0.0083
PCBs		
Total PCBs	0.63	ND (0.018)

Sample ID:	TP6-2024-1.0-1.5
Date Sampled:	9/12/24
Sample Depth:	1.0'-1.5'
SVOCs	
Benzo[a]anthracene	3.3
Benzo[a]pyrene	2.7
Benzo[b]fluoranthene	3.7
Dibenz(a,h)anthracene	0.39
Indeno[1,2,3-cd]pyrene	1.3
Naphthalene	0.31
2-Methylnaphthalene	NA
Metals	
Antimony	1.4
Arsenic	6.7
Cadmium	3
Cobalt	9.8
Copper	376
Total Chromium	92
Lead **	596
Nickel	175
Silver	0.67
Zinc	1,390
Mercury	0.87
PCBs	
Total PCBs	NA

LEGEND

SITE BOUNDARY

TEST PIT/SOIL SAMPLE LOCATION (SEPTEMBER 12, 2024)

SOIL SAMPLE LOCATION (SEPTEMBER 5, 2024)

NOTES:
1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL
2. NE = NO EXCEEDANCE REPORTED

Exceeds 2021 NJ SRS for the Migration to Groundwater Pathway (SRSMGW)
Exceeds 2021 NJ Residential Soil Remediation Standard (RSRS)
Exceeds 2021 NJ Non-Residential Soil Remediation Standard (NRSRS)
Exceeds SRSMGW and RSRS

\# MDL exceeds a remediation standard
* = NRSRS that exceeds SRSMGW
Lead ** = NJAC 7:26D was amended on May 6 ,2024. The lead ingestion-dermal exposure pathway was updated from 400 mg/kg to 200 mg/kg.
MDL = Method Detection Limit
mg/kg = All results reported in milligram per kilogram
Sample depth = Feet below ground surface
NA = Not analyzed
ND (#) = Not detected (Method Detection Limit reported)
NS = No Standard
Q = No Quailfer
J = Concentration detected at a value below the RL and above the MDL

Analytical Parameters	2021 NJ MGWSRS (mg/kg)	2021 NJ Residential SRS (mg/kg)	2021 NJ Non-Residential SRS (mg/kg)
EPH	NS	5,300	75,000
Benzo[a]anthracene	0.71	5.1	23
Benzo[a]pyrene	NS	0.51	2.3
Benzo[b]fluoranthene	NS	5.1	23
Dibenz(a,h)anthracene	NS	0.51	2.3
Indeno[1,2,3-cd]pyrene	NS	5.1	23
Naphthalene	19	5.7	27
2-Methylnaphthalene	3.1	240	3,300
Antimony	5.4	31	520
Arsenic	19	19	19
Cadmium	1.9	71	1,100
Cobalt	90	23	390
Copper	910	3,100	52,000
Total Chromium	NS	NS	NS
Lead**	90	200	800
Nickel	48	1,600	26,000
Silver	0.5	390	6,500
Zinc	930	23,000	390,000
Mercury	0.1	23	390
Total PCBs	1.6	0.25	1.1

0 20 40 80
1 INCH = 40 FT

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

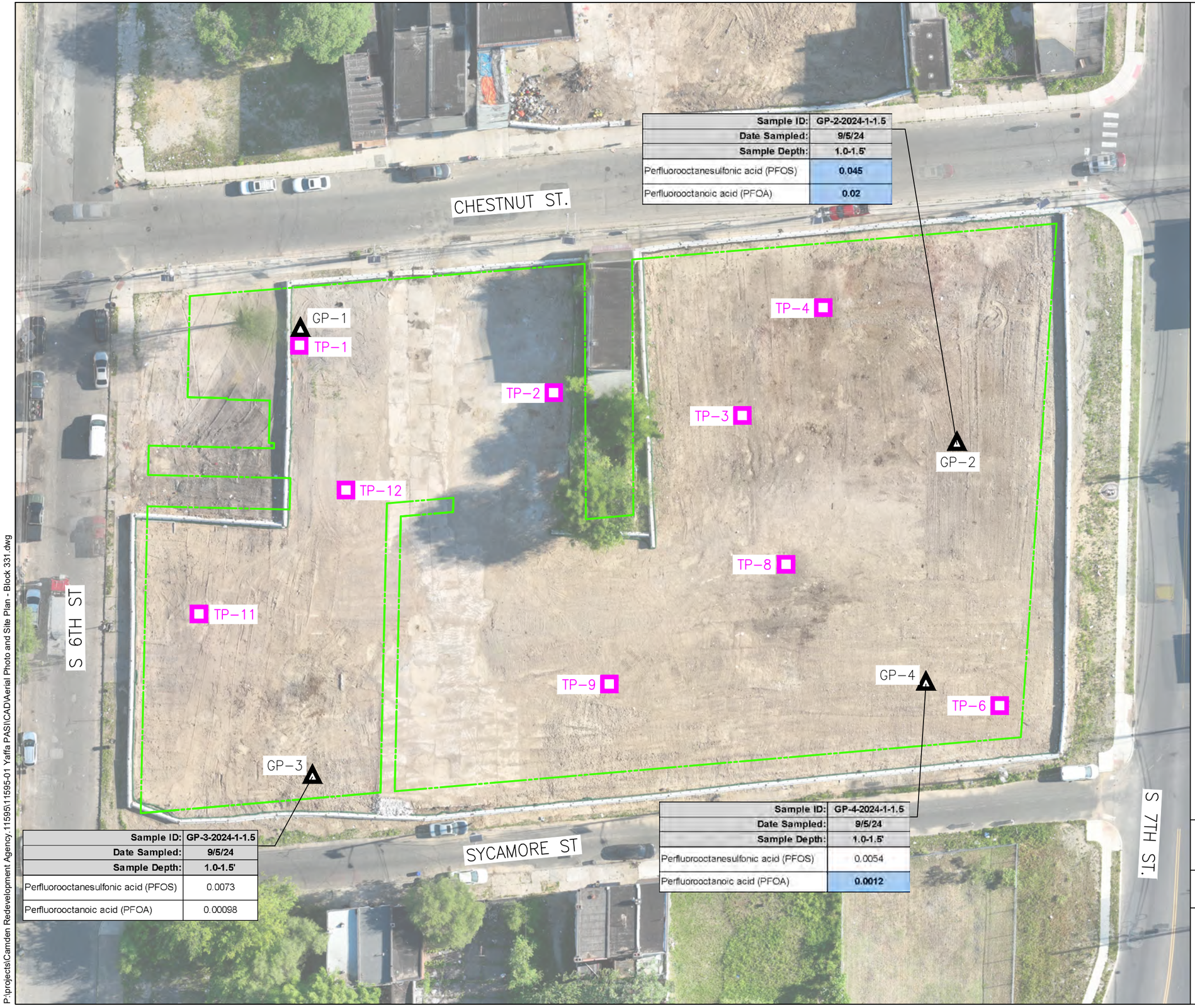
SOIL ANALYTICAL EXCEEDANCE MAP - SEPTEMBER 2024

MONTROSE ENVIRONMENTAL
MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 40'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/25/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 7A

P:\projects\Camden Redevelopment Agency,11595\11595-01 Yaffa PAS\CAD\Aerial Photo and Site Plan - Block 331.dwg



LEGEND

SITE BOUNDARY

TEST PIT/SOIL SAMPLE LOCATION (SEPTEMBER 12, 2024)

SOIL SAMPLE LOCATION (SEPTEMBER 5, 2024)

NOTES:

1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL

[1] AOC Specific MGW-SRS Calculated using the synthetic precipitation leaching procedure (SPLP) and the Department's PFAS SPLP calculator

[2] AOC Specific SRS-MGW could not be calculated as all soil results were Not Detected at the MDL

Exceeds AOC Specific Soil Remediation Standards for the Migration to Groundwater pathway (SRS-MGW)

NJDEP = New Jersey Department of Enviromental Protection
MDL = Method Detection Limit
mg/kg = All results reported in milligram per kilogram
ft bgs = Feet below ground surface
NA = Not analyzed
ND (#) = Not detected (Method Detection Limit reported)
NS = No Standard
Q = No Qualifer
J = Concentration detected at a value below the RL and above the MDL

Analytical Parameters	Calculated Site Specific MGWSRS
Perfluorooctanesulfonic acid (PFOS)	0.00054 (Calculated)[1]
Perfluorooctanoic acid (PFOA)	0.000086 (Calculated)[1]

0 20 40 80

1 INCH = 40 FT

S. YAFFA & SONS, INC.
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CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

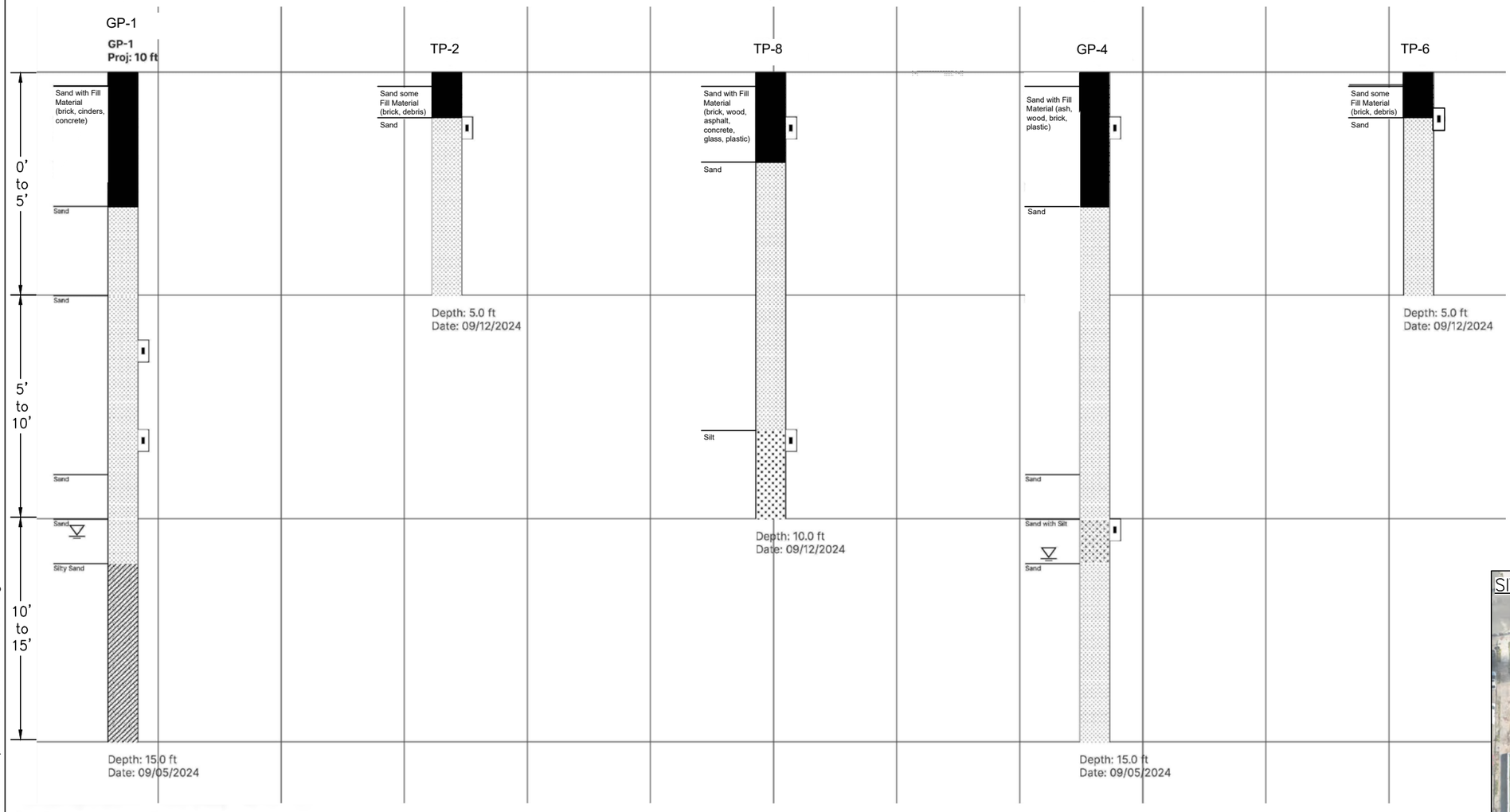
PFAS SOIL ANALYTICAL EXCEEDANCE MAP - SEPTEMBER 2024

MONTROSE ENVIRONMENTAL
MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 40'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/25/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 7B

P:\projects\Camden Redevelopment Agency 11595\11595-01 Yaffa PASI\CAD\Aerial Photo and Site Plan - Block 331.dwg



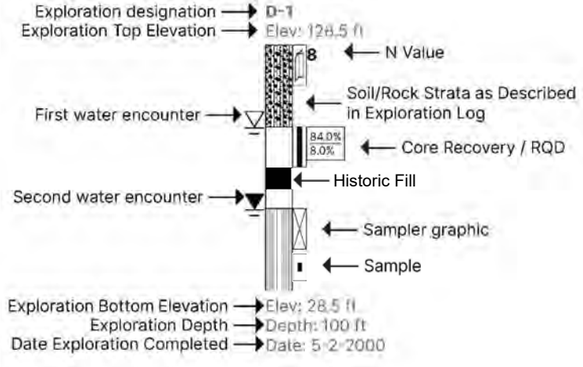
SITE KEY LEGEND

- SITE BOUNDARY
- MONITORING WELL LOCATIONS
- TEST PIT/SOIL SAMPLE LOCATION (SEPTEMBER 12, 2024)
- GEOPROBE/SOIL SAMPLE LOCATION (SEPTEMBER 5, 2024)

NOTES:

1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL

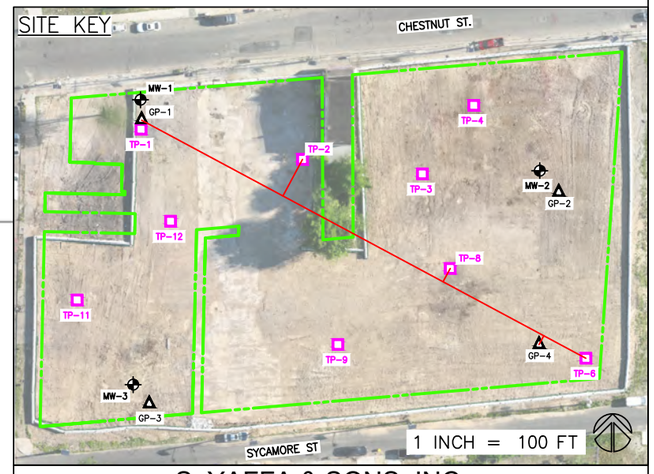
EXPLORATION LOG LEGEND



LEGEND KEY

- Fine to Medium Sand
- Silty Sand
- Silt

SITE KEY



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CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

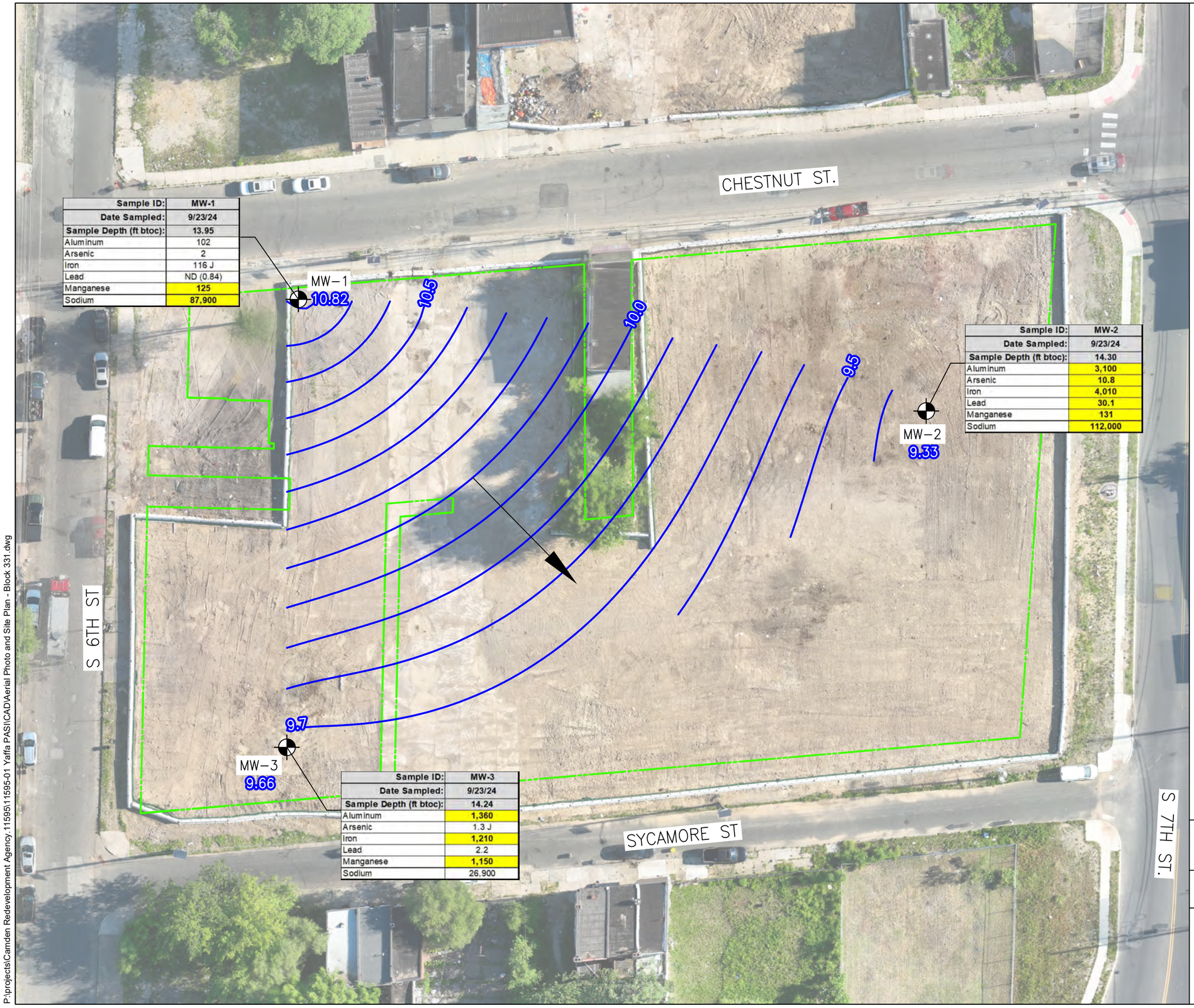
SOIL CROSS SECTION MAP

MONTROSE ENVIRONMENTAL
MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	AS SHOWN
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/25/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 8

P:\projects\Camden Redevelopment Agency\11595\11595-01 Yaffa PAS\CAD\SI Maps - Yaffa & Sons - Block 331.dwg



LEGEND

- SITE BOUNDARY
- 9.5 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- MONITORING WELL LOCATIONS
- 9.33 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

Exceeds 2020 NJ Groundwater Quality Criteria for Class IIA Aquifers (NJ-GWIIA)

NJ-GWIIA = 2020 NJ Groundwater Quality Class IIA Criteria
µg/L = All concentrations reported in micrograms per liter
ND = Not Detected
J = Concentration detected at a value below the RL and above the MDL for target compounds.
MDL = Method Detection Limit
DTW = Depth to Water
bgs = Below ground surface

Analytical Parameters	NJDEP GWQS for Class IIA Aquifers (µg/L)
Aluminum	200
Arsenic	3
Iron	300
Lead	5
Manganese	50
Sodium	50000

NOTES:
1. JUNE 2024 AERIAL IMAGERY PROVIDED BY TPI ENVIRONMENTAL

0 20 40 80
1 INCH = 40 FT

S. YAFFA & SONS, INC.
616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

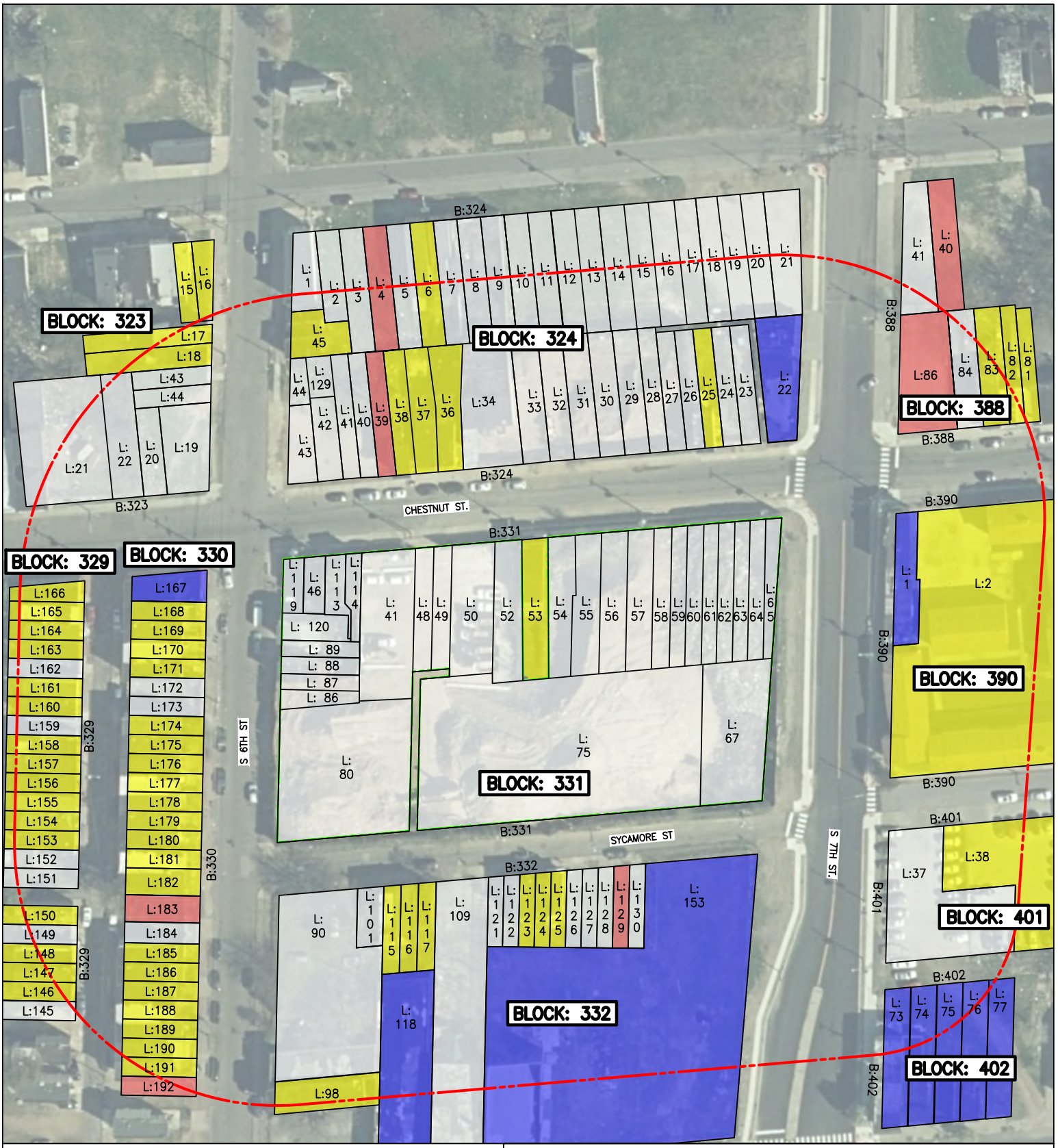
GROUNDWATER ANALYTICAL RESULTS AND CONTOUR MAP - SEPTEMBER 2024

MONTROSE ENVIRONMENTAL
MONTROSE ENVIRONMENTAL SOLUTIONS, INC.
500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 40'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/14/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 9

P:\projects\Camden Redevelopment Agency 11595\11595-01 Yaffa PASI\CAD\Aerial Photo and Site Plan - Block 331.dwg



AERIAL IMAGERY PROVIDED BY NJGIN

SITE BOUNDARY

200' BOUNDARY

PARCEL BOUNDARY

RESIDENTIAL

VACANT

COMMERCIAL

PUBLIC PROPERTY

INDUSTRIAL

0 50 100

1 INCH = 100 FT

S. YAFFA & SONS, INC.

616 CHESTNUT STREET ET AL,
CITY OF CAMDEN, CAMDEN COUNTY NJ 08103, BLOCK 331,
NJDEP PI # 025881, ACTIVITY # LSR160001

LAND USE WITHIN 200 FEET OF THE SITE

MONTROSE ENVIRONMENTAL

MONTROSE ENVIRONMENTAL SOLUTIONS, INC.

500 HORIZON DRIVE SUITE, 540
ROBBINSVILLE, NEW JERSEY 08691
T: 609.890.7277 montrose-env.com

Scale:	1" = 100'
Drawn By:	MN
Checked By:	ES
Project Mgr.:	CDV
Originated By:	MCB
Project No.:	11595-03
Drawing Date:	10/25/2024
Sheet No.:	OF
Revision Number:	1

FIGURE 10

P:\projects\Camden Redevelopment Agency\11595\11595-01 Yaffa PASI\CAD\SI Maps - Yaffa & Sons - Block 331.dwg

Appendix A – Boring Logs and Well Construction Logs, Permits, and Form Bs

MONTROSE ENVIRONMENTAL

SOIL BORING: GP-1

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 7822DT
Drilling Method: Direct Push
Boring Diameter: 2 in
Total Depth: 15'

Coordinates: 39.932379, -75.117293
Coords Sys: Lat/Lon
Surface Elevation: 21.5'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
	0			3/4-Inch Stone 0.3	0	
	1			**Fine to Medium Sand**, with some **Fill (brick)**, Little **Gravel**, Brown, loose, dry, no odor, no staining 1.0	0	
	2			**Fine to Medium Sand** with **Fill (cinders, brick, and concrete)**, Dark Brown, loose, dry, no odor, no staining 2.0	0	
	3			**Fill (cinders and Concrete)**, Black, loose, dry, no odor, no staining 3.0	0	
	4			**Fine to Medium Sand**, medium dense, Reddish Brown, dry, no odor, no staining	0	
	5			5.0	0	
	6			**Fine to Medium Sand**, medium dense, Light Brown, dry, no odor, no staining. Samples : GP-1-2024-6-6.5 and GP-1-2024-8-8.5	0	▬
	7				0	
	8				0	▬
	9			9.0	0	
▽	10			**Fine to Medium Sand**, medium dense, Reddish Brown, moist, no odor, no staining 10.0	0	
	11			**Fine to Medium Sand**, with Little to trace , **Silt**, Reddish Brown, saturated, no odor, no staining. Water table @ 10 Feet 11.0	0	
	12			**Silty Sand**, medium dense to soft, Reddish Brown, wet to saturated, no odor, no staining.	0	
	13				0	
	14				0	
	15			15.0	0	
				End of Boring,		

NOTES:

SOIL BORING: GP-2

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 7822DT
Drilling Method: Direct Push
Boring Diameter: 2 in
Total Depth: 15'

Coordinates: 39.932272, -75.116417
Coords Sys: Lat/Lon
Surface Elevation: 20.4'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
	0			3/4-Inch Stone 0.3	0	
	1			**Fine to Medium Sand** And **Fill Material (ash, brick, metal debris)**, Dark Brown, dry, medium dense, no odor, no staining. Sample: GP-2-2024-1-1.5	0	▬
	2			2.0 **Fine to Medium Sand**, with some **Fill Material (ash, trace coal fragment)**, Brown, dry, medium dense, no odor, no staining 3.0	0	
	3			**Fine to Medium Sand**, Reddish Brown, dry to moist, medium dense, no odor, no staining	0	
	4				0	
	5				0	
	6				0	
	7			7.0 **Fine to Medium Sand**, Gray mixed with some Brown @ 9-10 ft, dry, medium dense, no odor, no staining. Sample : GP-2-2024-1-1.5	0	
	8				0	▬
▽	9				0	
	10			10.0 **Fine to Medium Sand**, with some to little **Silt**, Light Brown, wet, medium dense, no odor, no staining 11.0	0	
	11			**Silt**, Gray, soft, wet, no odor, no staining	0	
	12				0	
	13				0	
	14			14.0 **Fine to Medium Sand**, with little to trace **Silt**, Gray, wet, medium dense, no odor, no staining 15.0	0	
	15			End of Boring	0	

NOTES:

SOIL BORING: GP-3

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 7822DT
Drilling Method: Direct Push
Boring Diameter: 2 in
Total Depth: 18'

Coordinates: 39.931890, -75.117318
Coords Sys: Lat/Lon
Surface Elevation: 20.8'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
	0			3/4-Inch Stone 0.3	0	
	1			**Fine to Medium Sand** dry loose And **Fill (brick, Asphalt, Ash)**, Brown, no odor, no staining. Sample GP-3-2024-1-1.5	0	▬
	2				0	
	3			3.0 **Fine to Medium Sand**, dry, medium dense, Light Brown, no odor, no staining	0	
	4				0	
	5			5.0 **Fine to Medium Sand**, dry, medium dense, Reddish Brown, no odor, no staining. Sample GP-3-2024-9.5-10	0	
	6				0	
	7				0	
	8				0	
	9				0	▬
▽	10			10.0 **Fine to Medium Sand**, saturated, medium dense, Reddish Brown, Water table @ 10 feet bgs, no odor, no staining 11.0	0	
	11			**Fine to Medium Sand**, saturated, medium dense, with Trace **Silt**, Brown, no odor, no staining	0	
	12				0	
	13			13.5 **Silty Sand**, saturated, medium dense, Reddish Brown, no odor, no staining 14.0	0	
	14			**Fine to Medium Sand**, wet, medium dense, Brown, no odor, no staining	0	
	15				0	
	16			16.0 **Silty Sand**, wet, soft, Light Gray, no odor, no staining	0	
	17			17.5 **Fine to Medium Sand**, moist, medium dense, Gray, no odor, no staining 18.0	0	
	18			End of Boring		
	19					

NOTES:

SOIL BORING: GP-4

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 7822DT
Drilling Method: Direct Push
Boring Diameter: 2 in
Total Depth: 15'

Coordinates: 39.932004, -75.116388
Coords Sys: Lat/Lon
Surface Elevation: 18.5'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
	0			3/4-Stone 0.3	0	
	1			**Fine to Medium Sand** And **Fill Material (ash, wood, brick, plastic)**, Dark Brown, loose, dry, no odor, @ 1-1.5 ft bgs lens of ash with blue and yellow staining. Sample: GP-4-2024-1-1.5	0	▬
	2			2.5	0	
	3			**Fine to Medium Sand**, Trace **Glass (2.5-3.0 ft bgs)**, Brown, medium dense, dry, no odor, no staining	0	
	4				0	
	5			5.0	0	
	6			**Fine to Medium Sand**, Reddish Brown, medium dense, dry to moist, no odor, no staining	0	
	7				0	
	8				0	
	9			9.0	0	
	10			**Fine to Medium Sand**, Grayish Brown, medium dense, moist to wet no odor, no staining 10.0	0	
▽	11			**Fine to Medium Sand**, with some to little **Silt**, Gray, Saturated, Soft, no odor, no staining, water table @ 15.5 feet bgs, Sample: GP-4-2024-10-10.5 11.0	0	▬
	12			**Fine to Medium Sand**, Grayish Brown, medium dense, saturated, no odor, no staining	0	
	13				0	
	14				0	
	15			15.0	0	
				End of Boring		

NOTES:

MONTROSE ENVIRONMENTAL

TEST PIT: TP-1

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 8'

Coordinates: 39.932395, -75.117297
Coords Sys: Lat/Lon
Surface Elevation: 22.0'
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone (0.3)		
	0			**Fine to Medium Sand**, Little **Fill Material (brick, wood)**, Dark Brown, no odor, no staining. (1.0)	0	
	1			**Fine to Medium Sand**, Reddish Brown, no odor, no staining, dry	0	
	2				0	
	3				0	
	4				0	
	5				0	
	6					
	7					
	8			(8.0)		

End of test pit, no ground water encountered

NOTES: TP-1 was performed to visually assess for signs of former 550-gallon UST

TEST PIT: TP-2

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 5'

Coordinates: 39.932270, -75.116955
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone 0.3		
				Fine to Medium Sand, Some **Fill Material (brick, debris)**, Dark Brown, dry, no odor, no staining 1.0	0	
	1			**Fine Sand**, Brown, dry, no odor, no staining. Sample: TP-2-2024-1.0-1.5	0	■
	2				0	
	3				0	
	4				0	
	5			5.0 End of test pit, no ground water encountered	0	

NOTES: Hit refusal from concrete. Moved TP-2 to the north-east

MONTROSE ENVIRONMENTAL

TEST PIT: TP-3

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 5'

Coordinates: 39.931899, -75.117274
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone 0.3		
	1			**Fine to Medium Sand** And **Fill Material (brick, metal, debris)**, Brown, no odor, no staining. Sample: TP-3-2024-1.0-1.5	0.2 0.1	■
				1.5		
	2			**Fine to Medium Sand**, Brown, no odor, no staining, dry	0	
	3				0	
	4				0	
	5			5.0	0	
				End of test pit, no ground water encountered		

NOTES:

MONTROSE ENVIRONMENTAL

TEST PIT: TP-4

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 5'

Coordinates: 39.932417, -75.116533
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone 0.3		
				Fine to Medium Sand with **Fill Material (brick, wood, metal, debris)**, Brown, no odor no staining 1.0	0.7	
	1			**Fine to Medium Sand**, brown, dry, no odor, dark discoloration @ 1-1.5 feet bgs. Sample: TP-4-2024-1-1.5 1.5	0.2	■
				Fine to Medium Sand, Light Brown, medium dense, moist, no odor, no staining		
	2				0.2	
	3				0	
	4				0	
	5			5.0 End of test pit, no ground water encountered	0	

NOTES:

MONTROSE ENVIRONMENTAL

TEST PIT: TP-6

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 5'

Coordinates: 39.931975, -75.116271
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone 0.3		
				Fine to Medium Sand with **Fill Material (brick, metal, debris)**, Dark Brown, dry, no odor, no staining 1.0	0.2	
	1			**Medium Sand**, Brown, no odor, no staining. Sample: TP-6-2024-1.0-1.5	0	■
	2				0	
	3				0	
	4				0	
	5			5.0 End of test pit, no ground water encountered	0	

NOTES:

TEST PIT: TP-8

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 10'

Coordinates: 39.932091, -75.116588
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone 0.3		
	1			**Fine to Medium Sand** with **Fill Material (brick, wood, asphalt, concrete, glass, plastic)**, Dark Brown, loose, dry, no odor, staining present. Sample - TP-8-2024-1.0-1.5	0 127	■
	2			2.0 **Fine to Medium Sand**, Light Brown, dry, no odor, no staining	127	
	3				0.2	
	4				0	
	5				0	
	6				0	
	7				0	
	8			8.0 **Silt**, Gray, moist, no odor, no staining. Sample - TP-8-2024-8.0-8.5	0	■
	9				0	
	10			10.0 End of test pit, no groundwater encountered	0	

NOTES: Refusal due to concrete slab ~ 2 feet bgs at proposed location. 2nd attempt was in between prior building footprint.

MONTROSE ENVIRONMENTAL

TEST PIT: TP-9

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 10'

Coordinates: 39.932007, -75.116805
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone 0.3		
				Fine to Medium Sand with **Fill Material (brick)**, Light Brown, dry, no odor no staining 0.5	0.2	
	1			**Fine Sand**, Light Brown, dry, no odor no staining	0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
	9				0	
	10			10.0 End of Test Pit, no groundwater encountered	0	

NOTES:

MONTROSE ENVIRONMENTAL

TEST PIT: TP-11

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 10'

Coordinates: 39.93239, -75.11706
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
	0			3/4-Inch Stone 0.1	0	
				Fine to Medium Sand, Little **Fill Material (brick, debris)**, Dark Brown, dry, no odor, no staining 0.5		
	1			**Fine to Medium Sand**, Reddish Brown, dry, no odor, no staining. Sample: TP-11-2024-1.0-1.5	0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
	9				0	
	10			10.0 End of test pit, no ground water encountered	0	

NOTES:

TEST PIT: TP-12

Client: CRA
Project: Yaffa
Date Started: 09/12/2024
Date Completed: 09/12/2024
Well Completion Date: -

Drilling Company: Summit
Driller: Tim Cornelius
Drill Rig: -
Drilling Method: Track-Mounted Mini...
Boring Diameter: -
Total Depth: 5'

Coordinates: 39.93239, -75.11706
Coords Sys: Lat/Lon
Surface Elevation: N/A
Logged By: MP
Checked By: ES

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic
				3/4-Inch Stone		
				0.3		
				Fine to Medium Sand with **Fill Material (garbage, plastic, metal, brick)**, Dark Brown, no odor, no staining. Sample: TP-12-2024-1.0-1.5	0.1	
	1				0	■
	2				0	
				3.0		
	3			**Fine to Medium Sand**, Brown, no odor, no staining	0	
	4				0	
				5.0		
	5			End of Test Pit , no groundwater encounered	0	

DRAFT

NOTES:

MONITORING WELL: MW-1

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 7822DT
Drilling Method: Direct Push
Boring Diameter: 2 in
Total Depth: 17'

Coordinates: 39.932379, -75.117293
Coords Sys: Lat/Lon
Surface Elevation: 21.5'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Depth (ft)	USCS	Visual Classification and Remarks	PID (PPM)
		3/4-Inch Stone	
0.3		**Fine to Medium Sand**, Some **Fill (brick)**, Little **Gravel**, Brown, loose, dry, no odor, no staining	
1.0		**Fine to Medium Sand** with **Fill (cinders, brick, and concrete)**, Dark Brown, loose, dry, no odor, no staining	
2.0		**Fill (cinders and concrete)**, Black, loose, dry, no odor, no staining	
3.0		**Fine to Medium Sand**, medium dense, Reddish Brown, dry, no odor, no staining	0
5.0		**Fine to Medium Sand**, medium dense, Light Brown, dry, no odor, no staining. Samples : GP-1-2024-6-6.5 and GP-1-2024-8-8.5	0
9.0		**Fine to Medium Sand**, medium dense, Reddish Brown, moist, no odor, no staining	0
10.0		**Fine to Medium Sand**, Little to trace Silt, Reddish Brown, saturated, no odor, no staining. Water table @ 10 Feet	0
11.0		**Silty Sand**, reddish brown, medium dense to soft, wet to saturated, no odor, no staining.	0
15.0		End of Monitoring Well	0

Backfilled with Bentonite Chips
Backfilled with Choker Sand
Backfilled with #1 Filter Sand

NOTES: Well set at 17 Feet bgs. Three foot stickup with protective steel casing.

MONITORING WELL: MW-2

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 6712DT
Drilling Method: Auger
Boring Diameter: -
Total Depth: 15'

Coordinates: 39.932272, -75.116417
Coords Sys: Lat/Lon
Surface Elevation: 20.4'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Water Levels	Depth (ft)	Graphic Log	USCS	Visual Classification and Remarks	Samples: PID (PPM)	Samples: Sample Graphic	Well
				3/4-Inch Stone — 0.3			
	1			**Fine to Medium Sand** And **Fill Material (ash, brick, metal debris)**, Dark Brown, dry, medium dense, no odor, no staining. Sample: GP-2-2024-1-1.5 — 2.0			Backfilled with Bentonite Chips
	2			**Fine to Medium Sand**, with Some **Fill Material (ash, coal fragment)**, Brown, dry, medium dense, no odor, no staining — 3.0			Backfilled with Choker Sand
	3			**Fine to Medium Sand**, Reddish Brown, dry to moist, medium dense, no odor, no staining	0		
	4				0		
	5				0		
	6				0		
	7				0		
	8			**Fine to Medium Sand**, Gray mixed with some Brown @ 9-10 ft, dry, medium dense, no odor, no staining. Sample : GP-2-2024-1-1.5 — 7.0	0		
⊻	9				0		Backfilled with #1 Filter Sand
	10			**Fine to Medium Sand**, Some to little **Silt**, Light Brown, wet, medium dense, no odor, no staining — 10.0	0		
	11			**Silt**, Gray, soft, wet, no odor, no staining — 11.0	0		
	12				0		
	13				0		
	14			**Fine to Medium Sand**, little to trace **Silt**, Gray, wet, medium dense, no odor, no staining — 14.0	0		
	15			End of Monitoring Well — 15.0	0		
	16						

NOTES: Well set at 15 Feet bgs. Three foot stickup with protective steel casing.

MONITORING WELL: MW-3

Client: CRA
Project: Yaffa
Date Started: 09/05/2024
Date Completed: 09/05/2024
Well Completion Date: -

Drilling Company: ECDI
Driller: Joe Barnak
Drill Rig: Geoprobe 7822DT
Drilling Method: Auger
Boring Diameter: -
Total Depth: 18'

Coordinates: 39.931890, -75.117318
Coords Sys: Lat/Lon
Surface Elevation: 20.8'
Logged By: ES
Checked By: CV

Project Address 616 Chestnut Street, Camden, NJ

Depth (ft)	USCS	Visual Classification and Remarks	PID (PPM)
0		3/4-Inch Stone	0
0.3			
1		**Fine to Medium Sand** dry loose And **Fill (brick, asphalt, ash)**, Brown, no odor, no staining. Sample GP-3-2024-1-1.5	0
2			0
3			0
3.0		**Fine to Medium Sand**, dry, medium dense, Light Brown, no odor, no staining	
4			0
5			0
5.0		**Fine to Medium Sand**, dry, medium dense, Reddish Brown, no odor, no staining. Sample GP-3-2024-9.5-10	
6			0
7			0
8			0
9			0
10			0
10.0		**Fine to Medium Sand**, saturated, medium dense, Reddish Brown, Water table @ 10 feet bgs, no odor, no staining	
11			0
11.0		**Fine to Medium Sand**, saturated, medium dense, Trace **Silt**, Brown, no odor, no staining	
12			0
13			0
13.5		**Silty Sand**, saturated, medium dense, Reddish Brown, no odor, no staining	
14			0
14.0		**Fine to Medium Sand**, wet, medium dense, Brown, no odor, no staining	
15			0
16			0
16.0		**Silty Sand**, wet, soft, Light Gray, no odor, no staining	
17			0
17.5		**Fine to Medium Sand**, moist, medium dense, Gray, no odor, no staining	
18			
18.0		End of Boring	
19			

Samples: PID (PPM), Sample Graphic

Well: Backfilled with Bentonite Chips; Backfilled with #1 Filter Sand

NOTES: Well set at 17 Feet bgs. Three foot stickup with protective steel casing.

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202409317

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: JAMES W DUFFY, MASTER LICENSE # 0001581

Permit Issued to: EAST COAST DRILLING, INC.

Company Address: 200 CENTURY PKWY STE B MOUNT LAUREL, NJ 08054

PROPERTY OWNER

Name: CAMDEN CITY

Organization: CAMDEN CITY

Address: PO BOX 95120

City: Camden State: New Jersey Zip Code: 08101

PROPOSED WELL LOCATION

Facility Name: S. Yaffa & Sons, Inc.

Address: SS CHESTNUT 60 E 6TH ST

County: Camden Municipality: Camden City Lot: 41 Block: 331

Easting (X): 319024 Northing (Y): 400879
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-1

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 30

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: September 6, 2024
Expiration Date: September 6, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner

Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202409317

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202409321

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: JAMES W DUFFY, MASTER LICENSE # 0001581

Permit Issued to: EAST COAST DRILLING, INC.

Company Address: 200 CENTURY PKWY STE B MOUNT LAUREL, NJ 08054

PROPERTY OWNER

Name: CAMDEN CITY

Organization: CAMDEN CITY

Address: PO BOX 95120

City: Camden State: New Jersey Zip Code: 08101

PROPOSED WELL LOCATION

Facility Name: S. Yaffa & Sons, Inc.

Address: 624-644 Chestnut Street

County: Camden Municipality: Camden City Lot: 61 Block: 331

Easting (X): 319279 Northing (Y): 400840
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-2

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 30

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: September 6, 2024
Expiration Date: September 6, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner

Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202409321

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202409319

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: JAMES W DUFFY, MASTER LICENSE # 0001581

Permit Issued to: EAST COAST DRILLING, INC.

Company Address: 200 CENTURY PKWY STE B MOUNT LAUREL, NJ 08054

PROPERTY OWNER

Name: CAMDEN CITY

Organization: CAMDEN CITY

Address: PO BOX 95120

City: Camden State: New Jersey Zip Code: 08101

PROPOSED WELL LOCATION

Facility Name: S. Yaffa & Sons, Inc.

Address: 601-609 SYCAMORE STREET

County: Camden Municipality: Camden City Lot: 80 Block: 331

Easting (X): 319004 Northing (Y): 400703
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-3

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 30

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: September 6, 2024
Expiration Date: September 6, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner

Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202409319

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Service ID: 1807023

This document has not yet been reviewed and approved or denied by the NJ DEP. Deficiencies in submittal information or actual construction may result in denial.

WELL RECORD SUBMITTAL PDF

PROPERTY OWNER: CAMDEN CITY CAMDEN CITY

Organization: CAMDEN CITY

Address: PO BOX 95120, Camden (Camden), New Jersey 08101

WELL LOCATION: S. Yaffa & Sons, Inc.

Address: SS CHESTNUT 60 E 6TH ST

County: Camden Municipality: Camden City Lot: 41 Block: 331

Easting(X): 319024 Northing(Y): 400879 Coordinate System: NJ State Plane (NAD83) - USFEET

Method: GPS Point of Reference: Well

GPS Manufacturer: Trimble Surveyor Name:

GPS Model: Pathfinder Surveyor License #:

Accuracy: 10 Accuracy units: Feet

WELL USE: Monitoring **DATE WELL STARTED:** 09/06/2024

Other Use(s): **DATE WELL COMPLETED:** 09/06/2024

WELL CONSTRUCTION

Permit Number Total Depth Drilled(ft): 17 Drilling Company:

E202409317 Finished Well Depth(ft): 17 Driller Name: Joseph Barnak

Local ID: MW-1 Well was finished: Above Grade License No.: 534717

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating/Screen Slot # (lbs/sch no.)
Borehole(s)	0	17	8	N/A	N/A
Casing(s)	0	7	2	PVC	Sch. 40
Screen(s)	7	17	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	8	2	5	94	8
Gravel Pack	5	17	8	2	#0		
Gravel Pack	4	5	8	2	#00		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

Additional Information:

Attachments:

RECORD OF TEST Depth to Pump: ft. below land surface

PENDING APPROVAL

Test Date: _____ Pump Capacity: _____ gpm

Static Water Level: 10.5 ft. below land surface Total Design Head: _____ ft.

Pumping Water Level: _____ ft. below land surface Pump Horsepower: _____

Water Level Measure Tool: M-Scope If pump tested Discharge Rate: _____ gpm

Pumping Equipment: _____ Duration of Test: _____ hours

Well Yield: _____ gpm Date Boring Decommissioned: _____

PUMPING EQUIPMENT AND ADDITIONAL INFORMATION

Well Development Period: 1 hours

Method of Development: _____

Installed: _____ Protective Casing: Yes

Installer's Name: _____ Drilling Fluid: _____

Installer's Registration No.: _____ Drill Rig: 7822DT

Pump Type: _____ Health and Safety Plan: Yes

GEOLOGIC LOG

Depth to Top	Depth to Bottom	Color	USCS	Additional Description
0	7	Light Brown	GP - Poorly graded gravels and gravel-sand mixtures, little or no fines	
7	12	Light Brown	GW - Well-graded gravels and gravel-sand mixtures, little or no fines	
12	17	Light Brown	SW - Well-graded sands and gravelly sands, little or no fines	

PENDING APPROVAL

Service ID: 1807040

This document has not yet been reviewed and approved or denied by the NJ DEP. Deficiencies in submittal information or actual construction may result in denial.

WELL RECORD SUBMITTAL PDF

PROPERTY OWNER: CAMDEN CITY CAMDEN CITY

Organization: CAMDEN CITY

Address: PO BOX 95120, Camden (Camden), New Jersey 08101

WELL LOCATION: S. Yaffa & Sons, Inc.

Address: 624-644 Chestnut Street

County: Camden Municipality: Camden City Lot: 61 Block: 331

Easting(X): 319279 Northing(Y): 400840 Coordinate System: NJ State Plane (NAD83) - USFEET

Method: GPS Point of Reference: Well

GPS Manufacturer: Trimble Surveyor Name:

GPS Model: Pathfinder Surveyor License #:

Accuracy: 10 Accuracy units: Feet

WELL USE: Monitoring **DATE WELL STARTED:** 09/06/2024

Other Use(s): **DATE WELL COMPLETED:** 09/06/2024

WELL CONSTRUCTION

Permit Number Total Depth Drilled(ft): 15 Drilling Company:

E202409321 Finished Well Depth(ft): 15 Driller Name: Joseph Barnak

Local ID: MW-2 Well was finished: Above Grade License No.: 534717

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating/Screen Slot # (lbs/sch no.)
Borehole(s)	0	15	8	N/A	N/A
Casing(s)	0	5	2	PVC	Sch. 40
Screen(s)	5	15	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	8	2	5	94	8
Gravel Pack	3	15	8	2	#0		
Gravel Pack	2	3	8	2	#00		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

Additional Information:

Attachments:

RECORD OF TEST Depth to Pump: ft. below land surface

PENDING APPROVAL

Test Date: _____ Pump Capacity: _____ gpm

Static Water Level: 10.5 ft. below land surface Total Design Head: _____ ft.

Pumping Water Level: _____ ft. below land surface Pump Horsepower: _____

Water Level Measure Tool: M-Scope If pump tested Discharge Rate: _____ gpm

Pumping Equipment: _____ Duration of Test: _____ hours

Well Yield: _____ gpm Date Boring Decommissioned: _____

PUMPING EQUIPMENT AND ADDITIONAL INFORMATION

Well Development Period: 1 hours

Method of Development: _____

Installed: _____ Protective Casing: Yes

Installer's Name: _____ Drilling Fluid: _____

Installer's Registration No.: _____ Drill Rig: 7822DT

Pump Type: _____ Health and Safety Plan: Yes

GEOLOGIC LOG

Depth to Top	Depth to Bottom	Color	USCS	Additional Description
0	5	Light Brown	GP - Poorly graded gravels and gravel-sand mixtures, little or no fines	
5	10	Light Brown	GW - Well-graded gravels and gravel-sand mixtures, little or no fines	
10	15	Gray	GM - Silty gravels, gravel-sand-silt mixtures	

PENDING APPROVAL

Service ID: 1807060

This document has not yet been reviewed and approved or denied by the NJ DEP. Deficiencies in submittal information or actual construction may result in denial.

WELL RECORD SUBMITTAL PDF

PROPERTY OWNER: CAMDEN CITY CAMDEN CITY

Organization: CAMDEN CITY

Address: PO BOX 95120, Camden (Camden), New Jersey 08101

WELL LOCATION: S. Yaffa & Sons, Inc.

Address: 601-609 SYCAMORE STREET

County: Camden Municipality: Camden City Lot: 80 Block: 331

Easting(X): 319004 Northing(Y): 400703 Coordinate System: NJ State Plane (NAD83) - USFEET

Method: GPS Point of Reference: Well

GPS Manufacturer: Trimble Surveyor Name:

GPS Model: Pathfinder Surveyor License #:

Accuracy: 10 Accuracy units: Feet

WELL USE: Monitoring **DATE WELL STARTED:** 09/06/2024

Other Use(s): **DATE WELL COMPLETED:** 09/06/2024

WELL CONSTRUCTION

Permit Number Total Depth Drilled(ft): 17 Drilling Company:

E202409319 Finished Well Depth(ft): 17 Driller Name: Joseph Barnak

Local ID: MW-3 Well was finished: Above Grade License No.: 534717

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating/Screen Slot # (lbs/sch no.)
Borehole(s)	0	17	8	N/A	N/A
Casing(s)	0	7	2	PVC	Sch. 40
Screen(s)	7	17	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	8	2	5	94	8
Gravel Pack	5	17	8	2	#0		
Gravel Pack	4	5	8	2	#00		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

Additional Information:

Attachments:

RECORD OF TEST Depth to Pump: ft. below land surface

PENDING APPROVAL

Test Date: _____ Pump Capacity: _____ gpm

Static Water Level: 10.5 ft. below land surface Total Design Head: _____ ft.

Pumping Water Level: _____ ft. below land surface Pump Horsepower: _____

Water Level Measure Tool: M-Scope If pump tested Discharge Rate: _____ gpm

Pumping Equipment: _____ Duration of Test: _____ hours

Well Yield: _____ gpm Date Boring Decommissioned: _____

PUMPING EQUIPMENT AND ADDITIONAL INFORMATION

Well Development Period: 1 hours

Method of Development: _____

Installed: _____ Protective Casing: Yes

Installer's Name: _____ Drilling Fluid: _____

Installer's Registration No.: _____ Drill Rig: 7822DT

Pump Type: _____ Health and Safety Plan: Yes

GEOLOGIC LOG

Depth to Top	Depth to Bottom	Color	USCS	Additional Description
0	7	Light Brown	GP - Poorly graded gravels and gravel-sand mixtures, little or no fines	
7	12	Light Brown	GW - Well-graded gravels and gravel-sand mixtures, little or no fines	
12	17	Light Brown	SW - Well-graded sands and gravelly sands, little or no fines	

PENDING APPROVAL

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: S. Yaffa & Sons, Inc.
List all AKAs:
Street Address: SS Chestnut 60 E 6th Street
Municipality: City of Camden (Township, Borough or City)
County: Camden Zip Code: 08103
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner City of Camden
2. Well Location (Street Address) SS Chestnut 60 E 6th Street
3. Well Location (Municipal Block and Lot) Block# 331 Lot # 41

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202409317
2. Site Well Number (As shown on application or plans): MW-1
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39º 55′ 56.56” Longitude: West 75º 07′ 02.25”
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 400,883 feet East 319,029 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01’): 24.77
   Elevation Top of Outer casing: 25.10 Elevation of ground: 21.5
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS Observations April 29, 2022.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR’S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: R E. Vg Date: September 23, 2024
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: S. Yaffa & Sons, Inc.
List all AKAs:
Street Address: 624-644 Chestnut Street
Municipality: City of Camden (Township, Borough or City)
County: Camden Zip Code: 08103
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner City of Camden
2. Well Location (Street Address) 624-644 Chestnut Street
3. Well Location (Municipal Block and Lot) Block# 331 Lot # 61

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202409321
2. Site Well Number (As shown on application or plans): MW-2
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39º 55′ 56.18” Longitude: West 75º 06′ 59.10”
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 400,842 feet East 319,274 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01’): 23.63
   Elevation Top of Outer casing: 23.96 Elevation of ground: 20.4
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS Observations April 29, 2022.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR’S CERTIFICATION

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SEAL

Professional Land Surveyor's Signature: R E. Vg Date: September 23, 2024
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: S. Yaffa & Sons, Inc.
List all AKAs:
Street Address: 601-609 Sycamore Street
Municipality: City of Camden (Township, Borough or City)
County: Camden Zip Code: 08103
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner City of Camden
2. Well Location (Street Address) 601-609 Sycamore Street
3. Well Location (Municipal Block and Lot) Block# 331 Lot # 80

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202409319
2. Site Well Number (As shown on application or plans): MW-3
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39º 55′ 54.80” Longitude: West 75º 07′ 02.34”
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 400,705 feet East 319,020 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01’): 23.90
   Elevation Top of Outer casing: 24.27 Elevation of ground: 20.8
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS Observations April 29, 2022.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR’S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: R E. Vg Date: September 23, 2024
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

Appendix B – Photographic Documentation

March 2023 - Stained area (AOC-9b)

March 27, 2023 – Photo taken by Montrose of stained soil (AOC-9b) at Block 331.

May 2024 – Excavation of Stained area (AOC-9b)

May 13, 2024 – Photo taken by Montrose of stained soil (AOC-9b) at Block 33 prior to excavation.

May 13, 2024 – Photo taken by Montrose of stained soil (AOC-9b) at Block 33 excavation extent prior to excavation.

May 13, 2024 – Historic fill (brick and debris) observed within excavation of AOC-9b.

May 13, 2024 – Excavation of AOC-9b completed down to two feet below grade.

June 7, 2024 – Photo taken by Montrose of former stained soil area (AOC-9b) following post-excavation and backfill at Block 331.

Site Investigation September 2024

September 5, 2024 – Soil boring GP-1. Macrocore core liners 0-5 feet, 5-10 feet, 10-15 feet shown.

September 5, 2024 – Soil boring GP-2 (MW-2). Macrocore core liners 0-5 feet, 5-10 feet, 10-15 feet shown.

September 5, 2024 – Soil boring GP-4. Macrocore core liners 0-5 feet, 5-10 feet, 10-15 feet shown.

September 5, 2024 – Soil boring GP-4. Staining observed at 1-1.5 feet bgs.

September 12, 2024 – Test pit TP-1 near MW-1.

September 12, 2024 – Test pit TP-2

September 12, 2024 – Test pit TP-3

September 12, 2024 – Test pit TP-4

September 12, 2024 – Test pit TP-6

September 12, 2024 – Test pit TP-8

September 12, 2024 – Test pit TP-11

September 12, 2024 – Test pit TP-12

September 12, 2024 – MW-1 next to test pit TP-1.