SUNOCO STATION #0363-5430
FACILITY ID No. 09-30778
INCIDENT NO. 52366
610 YORK ROAD
WARMINSTER TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA 18974

SITE CHARACTERIZATION REPORT/REMEDIAL ACTION PLAN

Submitted To:

PADEP – Southeast Regional Office
Storage Tank Program
2 East Main Street
Norristown, Pennsylvania 19401

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August 2020

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1 Site Summary

At the request of ***Finch Petroleum, LLC (Finch), RT Environmental Services, Inc. (RT)*** is submitting this Site Characterization Report (SCR) and Remedial Action Plan (RAP) to the Pennsylvania Department of Environmental Protection (*PADEP*). This investigation was completed in response to a reported release of unleaded gasoline and subsequent removal of a 12,000-gallon Ultra unleaded gasoline UST. This property has operated as a retail gasoline service station since the 1950's. The property is located at the intersection of Old York Road and Street Road in Warminster Township, Bucks County, Pennsylvania (Site).

The Site is currently an active retail gasoline service facility and convenience store. The property operates three 12,000-gallon unleaded gasoline underground storage tanks (USTs), dispenser islands and associated piping which were installed in 1983. During annual tank compliance testing in 2018, Trammel Testing, Inc. determined that tank 001 (Ultra gasoline unit) failed the EZY 3 Locator Plus (tightness) test on September 12, 2018 resulting in the submission of a "Notification of Reportable Release" to the Pennsylvania Department of Environmental Protection (PA DEP) Bureau of Environmental Cleanup and Brownfields.

According to the Daily/Monthly Inventory Reconciliation records, tank 001 was removed from service on September 27, 2018 while tanks 002 & 003 remained in operation until July 15, 2019 when they were taken off line and emptied of remaining product by Finch on July 19, 2019. As the tanks were in service for approximately 35 plus years, Finch decided to replace all three units during the tank upgrade.

Finch contracted Matt's Valley Petroleum, Inc. (Matt's) to remove and replace the old units with three new 12,000-gallon fiberglass tanks. In turn, Matt's subcontracted the tank removal work to ECI, LLC (ECI) who is a licensed tank removal contractor in PA. ECI mobilized to the project Site on Monday July 15, 2019 in order to begin disconnecting electrical connections and other tank components in preparation for tank extraction. The contractor re-mobilized on Tuesday July 16th and began uncovering and removing fill from around tank 001 by utilizing a JCB 83 L track excavator. When the tank was clear of pea gravel on all four sides, the retaining straps were cut and the tank lifted out of the excavation. Petroleum contaminated pea gravel and soil removed from the excavation were stored on the asphalt/concrete pads surrounding the excavation. Since petroleum was documented in the pit excavation, a "Notification of

Reportable Release" was submitted by RT on behalf of Finch. This document confirmed that a release was identified on July 16, 2019 during the removal of a regulated UST. A verbal notification to the Department was also made by the certified installer on July 16th.

ECI returned to the property on Wednesday July 17th to continue the removal of the remaining USTs. Storage tank and contaminated soil removal was completed on July 23rd. RT field personnel conducted attainment soil sampling on Tuesday July 24th using a systematic random sampling plan. Due to groundwater seeping into the pit, RT collected twelve (12) sidewall soil samples. The samples were labeled, packed on ice and immediately transported to the TestAmerica login facility in King of Prussia for analysis of the PA Short List of Petroleum Products for unleaded gasoline. Laboratory results indicate that all of the parameters tested were either below the laboratories method detection limits or below the Residential Statewide Health Standard (SHS) Medium Specific Concentration (MSC) for the constituents of concern analyzed.

In total, 11,727-gallons of petroleum impacted water, sludge and sediment were removed from the USTs and the excavation and transported by Monarch to their facility in Woodstown, New Jersey for permanent disposal (US EPA ID No. NJD011881174; NJDEP Certification No. US470102). An additional 578-gallons of petroleum contaminated water was removed by J&J Environmental on July 15, 2019 and transported to Eldridge, Inc. in West Chester on August 9 for permanent disposal. In total, 642.5-tons (459-cubic yards) of petroleum impacted soils were removed from the property on August 8, 2019 and transported by the B. Blair Corporation of Ivyland, PA to the Clean Earth of Southeastern Pennsylvania disposal facility in Morrisville, PA. The rolloff's containing the remnants of the tank shells were transported by A.J. Catagnus, Inc. for disposal at their facility in Norristown on July 19, 2019.

Finch completed the process of replacing the existing tank field with three (3) new 12,000-gallon fiberglass tanks during the last week in August. Matt Valley personnel also installed new product lines to the pump islands. The tanks were filled with Sunoco Ultra and regular gasoline products on August 14th and a concrete pad was poured over the tank field on August 28th & 29th. The system was pressure tested on September 11, 2019 and the facility reopened for public distribution on September 12, 2019.

In order to completely characterize the Site, Finch authorized RT to investigate groundwater quality via monitoring wells left on-Site from previous environmental investigations. RT field

personnel began the process of evaluating the suitability of the ten (10) monitoring points in August 2019 with initial groundwater samples being collected in mid-January 2020. Upon completion of three (3) baseline sampling and three (3) vacuum extraction events, a comparison of the analytical data suggested that two (2) additional point of compliance wells along with In-situ Chemical Oxidation remediation beneath the property would be necessary in order to demonstrate attainment of a non-Residential Statewide Health standard for groundwater.

2 Site Information

To obtain information regarding the physical Site setting, RT completed a review of reasonably ascertainable published information regarding the geologic and topographic characteristics of the Site. Information reviewed included topographic and geologic maps, geologic reports, and online soil reports. The Site setting is summarized in the following sections.

2.1 Site Description

The project Site is located at the intersection of Old York Road and Street Road in Warminster Township, Bucks County, Pennsylvania. The property includes one parcel consisting of approximately 0.75-acres. The approximate Site location coordinates are latitude 40° 12' 22" North and longitude 75° 5' 60" West. The Site, an operating Sunoco retail gasoline station and convenience store since 1996, has just completed the process of upgrading its underground storage tank field in August/September 2019 (refer to **Figures 1 & 2**).

2.2 Topographic Setting

According to the Hatboro, PA United States Geological Survey (*USGS*) 7.5-minute series topographic quadrangle map (2013), the Site is located at an elevation of approximately 290-feet above mean sea level (*msl*). Site topography around the property is slopes gently towards the north, northeast and northwest. The closest surface water body to the project Site is an unnamed tributary to Little Neshaminy Creek situated 3,465-feet (0.65-mile) northwest at an elevation of 270-feet msl.

2.3 Site History

According to a Phase I report prepared by e Phase, Inc. in July 2017, the existing gasoline station building was constructed sometime between 1950 and 1958 with renovations taking place at least when Sunoco assumed operations around 1996. The existing Site product storage system consists of three (3) 12,000-gallon unleaded gasoline fiberglass UST's and four (4) unleaded

gasoline dispensers which were installed in the same pit during December 1983. The majority of the site is covered with asphalt and concrete.

In November 1995 through February 1996, Groundwater & Environmental Services, Inc. (GES) personnel conducted construction oversight activities on building upgrades performed at the property. The station building, which was formerly an Atlantic two-bay automobile service station, was razed and replaced with the current Sunoco convenience store. This store is equipped with a natural gas heating system and there are no potable groundwater wells on the property. During Site excavation operations, three (3) steel 3,000-gallon and one (1) steel 4,000-gallon pre-Act 2 unleaded gasoline USTs, that were previously closed in-situ, were discovered at the southern corner of the property and removed. Localized soil contamination was noted in the UST excavation and beneath the eastern dispenser islands. Based on the contamination observed during the UST closure activity, a Notification of Reportable Release (NORR) was submitted to the PADEP on February 28, 1996 thereby initiating a remedial investigation at the Site.

2.4 Prior Investigations

The project Site has historically operated as a retail gasoline service station since the 1950's. The property currently operates three (3) 12,000-gallon unleaded gasoline underground storage tanks (USTs), dispenser islands and associated piping which were installed in 1983 and replaced in 2019. The following is a list of environmental investigations that have been conducted at the property since 1996:

	Document	Consultant	Date
1.	Site Characterization Report	Handex of Eastern PA.	5-28-1996
2.	Additional Site Characterization Report / Remedial Action Plan	GES	1-06- 2006
3.	Site Characterization Report / Remedial Action Completion Report	GES	10-01- 2009
4.	Site Characterization Addendum / Remedial Action Completion Report Addendum	GES	4-08- 2010
5.	Supplemental Information for Site Characterization Report Addendum / Remedial Action Completion Report Addendum	GES	7-20-2010
6.	Remedial Action Completion Report	PA DEP	10-13-2010

	Approval Letter		
7.	Environment Covenant (Site Specific Standard for benzene at 12 µg/L)	GES	11-15-2010
8.	Phase II ESA Report	GES	2-02-2017
9.	Phase I ESA	ePhase, Inc.	7-11-2017
10.	Notice of Contamination	Trammel Testing	9-12-2018
11.	Notification of Reportable Release	RT Environmental	7-24-1019

A copy of documents 2 through 11 have been included in **Appendix D**.

2.5 Site Geology

The Atlas of Preliminary Geologic Quadrangles of Pennsylvania (Map 61) indicates that the Site is underlain by the Stockton Formation. The Geology and Hydrology of the Stockton Formation in Southern Pennsylvania describes this formation as a light-gray to buff cross-bedded, coarse-grained, arkosic sandstone, pebbly sandstone, reddish-brown arkosic sandstone siltstone and silty mudstone. Bedrock composition is further described as red to purplish-red sandstone, shale, and siltstone. This formation is weathered to a moderate depth. Native soil conditions were reported as a surface layer of friable, dark reddish-brown silt loam mottled with weak red and grayish-brown, generally about 10 inches in depth. Beneath the surface layer, the subsoil was reported as consisting of a weak-red silt loam mottled with reddish-brown and gray in the upper six inches to yellowish red and gray below six inches to bedrock, generally about ten feet to fourteen feet.

According to subsurface drilling conducted by GES, the Site is underlain by approximately seven (7) feet of silt, sand, and clay. Weathered shale bedrock was encountered at depth of four to seven feet bgs, which is consistent with the regional geologic description.

2.6 Site Hydrological Conditions

2.6.1 Surface Water

The service station is located in the Delaware River Basin, Neshaminy Creek Sub-basin, and the Neshaminy Creek Watershed. The lower Delaware Sub-basin has a drainage area of ~2,708-square miles and the Neshaminy Creek Watershed drains approximately 233-square miles.

2.6.2 Surface Drainage (Streams)

The closest stream to the project Site is an unnamed tributary to Little Neshaminy Creek situated 3,465-feet (0.65-mile) northwest at an elevation of 270-feet above msl. The next closest stream is also an unnamed tributary to Pennypack Creek situated 3,560-feet (0.67-mile) south at an elevation of 275-feet above msl. An unnamed tributary to Neshaminy Creek is situated 3,850-feet (0.73-mile) northeast of the Site at an elevation of 270-feet above msl. The furthest perennial stream channel still within a 1-mile radius of the project Site is an unnamed tributary to Little Neshaminy Creek situated 4,450-feet (0.84-mile) east at an elevation of 275-feet above msl. All four points are the headwaters of the various stream channels. The approximate elevation of the project Site is 295-feet which is near the peak of a small rise which slopes off in all directions (refer to **Figure 2**).

2.6.3 Groundwater Gradient

As detailed in the prior GES reports, groundwater flow direction has varied with seasonal changes in both the shallow and deep water-bearing zones. General flow directions has historically been towards the southwest, west-southwest, west-northwest and east-northeast. The horizontal groundwater gradient in the shallow water-bearing zone across the Site and surrounding area has ranged from 0.01 to 0.25-feet/foot (ft/ft), with an average of 0.08 ft/ft. The horizontal groundwater gradient in the deep water-bearing zone across the Site and surrounding area ranged from 0.001 to 0.01 ft/ft, with an average of 0.004 ft/ft. The most recent well gauging activities indicate a southwesterly shallow groundwater flow (refer to **Figures 7 & 9**) along with a north-northeasterly groundwater flow (**Figures 8 & 10**) for the three (3) deep wells at the Site (MW-7, MW-8 & MW-9). Regional groundwater flow is estimated to be towards the northwest, towards an unnamed tributary of Little Neshaminy Creek.

2.6.4 Supply Wells/Potable Water Well Inventory

To assess potential groundwater receptors in the area, RT completed a review of available state water well database information using the ***Pennsylvania Department of Conservation Natural Resources (PADCNR)*** online ***Pennsylvania Groundwater Information System (PaGWIS)***. According to information included in this database, there are three (3) domestic groundwater wells located within a ½-mile radius of the Site. The location of these observation wells are identified on ***Figure 6*** – *Well Receptor Map* which contains a water well inventory summary beneath the map. The wells varied in depth from 95 to 200-feet although a depth of well #3 was unknown. Shallow groundwater flow is away from the wells (southwest) while the deep groundwater flow direction is towards well #2 (north-northeast). According to local inquires in the area, the

municipal water system which provides potable water to this section of Warminster Township is the Warminster Municipal Water Authority.

2.7 Site Soils

Soils at the Site are identified by the United States Department of Agriculture (*USDA*), Natural Resources Conservation Service (*NRCS*), Web Soil Survey as UgB – Urban land, 0 to 8 percent slopes. Parent material of urban lands are considered to be pavement, buildings and other artificially covered areas of human transported material.

3 Hydrocarbon Release

On September 12, 2018, Trammel Testing, Inc. arrived on-Site to conduct the annual UST system testing. Trammel tested the three tanks, associated lines, leak detectors, vapor recovery, impact valves and liquid sensor shut down system. All components passed with the exception of tank 001 (Ultra Grade) which failed the "EZY 3 Locator Plus" (tightness) test. As a result, the Trammel technician submitted a Notification of Reportable Release to the PA DEP for tank 001. The notification document stated "During a facility operations inspection it was discovered that tank 001 – a 12,000 gallon ultra-gasoline tank has been failing the SCLD tank leak tests. The monitor was serviced a few times to correct the problem with unsatisfactory results. The tank continued to fail the CSLD testing. A tank tightness test was performed to determine if there is a problem with the tank. The tank test indication is an air leak above the liquid level of 27.5 inches. The source of the leak could not be identified.

As a follow-up to the "Notice of Contamination" sent to DEP on September 12, 2018 by Trammel Testing, Inc., the Department conducted a Site inspection on September 21, 2018. Ms. Quadirah Glover, Water Quality Specialist and Mr. Scott Godshall, Environmental Trainee visited the facility in order to review the tank tightness testing results and leak history. A copy of the "DEP Storage System Report Form – Narrative Information" for the September 21, 2018 inspection can be found in Appendix F.

According to the Daily/Monthly Inventory Reconciliation records, tank 001 was removed from service on September 27, 2018 while tanks 002 & 003 remained in operation until July 15, 2019 when they were taken off line and emptied by Finch of remaining product on July 19, 2019. A release from the 12,000-gallon ultra-unleaded gasoline UST was confirmed on July 16, 2019 during removal of the regulated Ultra tank by ECI, LLC (a subcontractor to Matt's Valley

Petroleum, Inc.). This fiberglass tank was installed on the property in December 1983 during a facility upgrade which replaced steel UST's originally installed during the 1950's.

4 Site Characterization Activities

4.1 Soil Characterization

As discussed above, a release of unleaded gasoline was confirmed during the replacement of three (3) fiberglass UST's at the Sunoco retail gasoline station and convenience store in Warminster. The USTs were removed by ECI, LLC beginning on July 16, 2019. RT personnel was on-Site in order to provide oversight assistance and to screen soil with a photoionization detector (PID). PID readings ranged from 300 to 2,500 ppm with strong petroleum odors being noted in the excavation. Visible staining of the pea gravel bed was observed along with elevated PID readings exceeding 2,500 ppm.

4.2 Storage Tank Information

The annual Underground Storage Tank Facility Operations Inspection conducted on September 12, 2018 reported the following information:

- Tanks 001, 002 & 003 are single fiberglass tanks installed in December 1983;
- Tank 001 stores Sunoco Ultra gasoline while tanks 002 & 003 store regular gasoline; Tanks 002 and 003 have a manifold tank with 002 being the master tank and 003 is the drone;
- Tank 001 is non-compliant for tank release protection. This tank has not passed a CSLD since July 2nd 2018 and the owner has had the ATG serviced twice to try and rectify the problem but with no success. The tank was precision tested on 9/12/18 but failed the tightness test. A notice of contamination was filed by Trammel Testing on 9/12/18.
- According to the Daily/Monthly Inventory Reconciliation records, tank 001 was removed from service on September 27, 2018 while tanks 002 & 003 remained in operation until July 15, 2019 when they were taken off line and emptied of remaining product by Sunoco on July 19, 2019.
- A "Notification of Reportable Release" was submitted on behalf of Finch by RT on 7-24-2019.

4.3 UST Removal Activities

Finch initially contracted Matt's Valley Petroleum, Inc. (Matt's) to upgrade the Ultra tank (001) and reline the regular product tanks (002 & 003). Matt's subcontracted the tank removal work to ECI, LLC (ECI) who is a licensed tank removal contractor in PA. Personnel from ECI mobilized to the Site on June 17, 2019 to replace tank 001 with a new 12,000-gallon fiberglass unit. Once the Ultra tank was uncovered, ECI recommended that all three tanks be upgraded with new fiberglass units and feed lines as the existing tanks had been in service for approximately 35-plus years. Based on ECI's recommendation, Finch agreed to replace all three units during the tank upgrade. During this initial Site work, two representatives from the PA DEP Norristown office arrived at the property to inspect the removal of the Ultra tank. Ms. Quadirah Glover, Water Quality Specialist and Mr. Scott Godshall, Environmental Trainee inspected the facility on June 17th. Ms. Glover recommended that all soil/pea gravel removed from the excavation be properly stored in accordance with established guidance procedures. Due to Finch's decision to replace all three tanks, the installation of tank 001 was delayed until tanks 002 & 003 could be emptied of remaining product and the additional storage tanks could be ordered via Matt's.

ECI re-mobilized to the project Site on Monday July 15, 2019 in order to begin disconnecting electrical connections and other tank components in preparation for tank extraction. Excavation work began on Tuesday July 16th with the removal of fill from around tank 001 by utilizing a JCB 83 L track excavator. When the tank was clear of pea gravel on all four sides, the remaining tie-down straps were cut and the tank lifted out of the excavation. Petroleum contaminated pea gravel and soil removed from the excavation were placed/stored on plastic covered asphalt/concrete surrounding the excavation.

RT personnel were on-Site during the tank removal process in order to provide oversight assistance and to screen soil with a photoionization detector (PID). Upon removal of tank 001, PID readings ranged from 300 to 2,500 ppm with strong petroleum odors being noted in the excavation. Visible staining of the pea gravel bed was observed along with petroleum contaminated water in the bottom of the pit and elevated PID readings exceeding 2,500 ppm. As previously stated, any petroleum contaminated material was stockpiled on the plastic lined asphalt surface surrounding the tank excavation. The soil stockpile was covered each night with a plastic tarp.

ECI returned to the property on Wednesday July 17th to continue the removal of the remaining USTs. Monarch Environmental, Inc. (Monarch) arrived on Site at 1030 to complete removal of

any remaining product and sludge in tanks 002 & 003. Upon completion of soil (pea gravel) excavation activities, tank 002 was lifted from the pit and placed on the contaminated soil stockpile. Remaining fill around tank 003 was removed and the tank lifted from the pit area. PID screening levels of the material removed from tank 003 varied from 50 to 1,500 ppm. Once the pit was clear, Monarch removed any petroleum contaminated water from the bottom of the excavation. Monarch left the project Site at 1445 and properly disposed of 2,902-gallons of petroleum contaminated fluids (see Disposal Document in **Appendix B**).

After allowing the three tanks to naturally vent overnight, ECI proceeded to dismantle the tanks using the excavator bucket and placed the contents into 20-cubic yard rolloff's on July 18th. Tanks 002 & 003 were compacted into one rolloff while tank 001 was place into a second container. RT proceeded to collect a composite soil sample from the stockpile for disposal profiling required by Clean Earth. Excavation of the tank field continued on July 19th and RT personnel collected a water sample from the pit before making sure that the soil stockpile was covered over the weekend.

RT returned to the Site on Monday July 23rd and continued to provide oversight assistance (PID readings) to ECI as they removed additional soil from the pit area. Monarch re-mobilized to the property and removed an additional 2,726-gallons of petroleum impacted water from the tank excavation. RT conducted attainment soil sampling on Tuesday July 24th using a systematic random sampling plan. Due to groundwater seeping into the pit, RT collected twelve (12) sidewall soil samples. The samples were labeled, packed on ice and immediately transported to the TestAmerica login facility in King of Prussia for analysis of the PA Short List of Petroleum Products for unleaded gasoline. Laboratory results indicate that all of the parameters tested were either below the laboratories method detection limits or below the Residential Statewide Health Standard (SHS) Medium Specific Concentration (MSC) for the constituents of concern analyzed (**Table 1**)

4.4 Analytical Results

Sidewall attainment soil samples, CS-1 through CS-12, were collected at depths ranging from 5.0 to 12.0-feet below surface grade in accordance with a systematic random sampling plan (refer to Figure 4) on July 26, 2019. Analytical results indicate that a majority of the samples collected did not have any reported compounds above the laboratory detection limits (CS-1, CS-4, CS-5, CS-6, CS-8, CS-9, CS-10, CS-11 and CS-12). The remaining three samples (CS-2, CS-3 and CS-7) reported minor detections of ethylbenzene, naphthalene, toluene, 1,2,4-

trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes. All concentrations were reported at 1.0 mg/kg or less (refer to Table 1).

A grab water sample was obtained from the pit excavation on July 19, 2019. Analytical results reported excesses of benzene, ethylbenzene, naphthalene, toluene, MTBE, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes (refer to Table 2). Based on this information, a groundwater investigation is being initiated at the site.

4.5 Disposal Activities

In total, 11,727-gallons of petroleum impacted water, sludge and sediment were removed from the USTs and the excavation and transported by Monarch to their facility in Woodstown, New Jersey for permanent disposal (US EPA ID No. NJD011881174; NJDEP Certification No. US470102). An additional 578-gallons of petroleum contaminated water was removed by J&J Environmental on July 15, 2019 and transported to Eldridge, Inc. in West Chester on August 9 for permanent disposal. In total, 642.5-tons (459-cubic yards) of petroleum impacted soils were removed from the property on August 8, 2019 and transported by the B. Blair Corporation of Ivyland, PA to the Clean Earth of Southeastern Pennsylvania disposal facility in Morrisville, PA. The rolloff's containing the remnants of the tank shells were transported by A.J. Catagnus, Inc. for disposal at their facility in Norristown on July 19, 2019 (see Disposal Documents in **Appendix B**).

4.6 Completion of Tank Replacement

Finch completed the process of replacing the existing tank field with three (3) new 12,000-gallon fiberglass tanks during the last week in August. Matt Valley personnel also installed new product lines to the pump islands. The tanks were filled with Sunoco Ultra, diesel and regular gasoline products on August 14th and a concrete pad was poured over the tank field on August 28th & 29th. The system was pressure tested on September 11, 2019 and the facility reopened for public distribution on September 12, 2019. The new tanks are designated 004 (Regular), 005 (Ultra) and 006 (Diesel).

4.7 Groundwater Investigation

At the time of tank removal, a sheen of petroleum product was observed on water in the bottom of the excavation. During the course of soil removal, any potentially contaminated groundwater accumulating in the excavation was removed from the pit via vacuum truck. A sample of the pit water was collected by RT personnel on July 19, 2019 and transported to the TestAmerica login facility in King of Prussia for analysis of unleaded gasoline parameters. Analytical results

indicated an exceedance of benzene, ethylbenzene, toluene, naphthalene, MTBE, 1,2,4-Trimethylbenzene and total xylenes of the Direct Contact non-Residential Statewide Health Standards. Based on these results, a groundwater monitoring program was initiated at the Site.

4.8 Existing Groundwater Monitoring Wells

As determined during a Site survey, there are ten (10) existing monitoring wells on the property from prior investigations. These wells have been properly accessed / gauged by RT and determine to be functional and in adequate condition to be used in the on-going groundwater monitoring program. The following is a summary of the existing groundwater monitoring wells at the Site:

- Three (3) monitoring wells (MW-1, MW-2 and MW-3) were installed by Handex on 5-28-1996 (25-feet deep);
- Monitoring well MW-4 was installed by GES on 10-27-1997 to a depth of 25-feet;
- Wells MW-5 and MW-6 were installed by GES on 10-18-2004 to depths of 50 & 47-feet respectively;
- Monitoring Well MW-7 is a deep well installed by air rotary methods on 11-23-2004. This well maintains 6-inch steel casing down to 60-feet with 40-feet of 2-inch well screen and 60-feet of solid PVC pipe; and,
- Monitoring wells MW-8, MW-9 and MW-10 were installed under GES supervision during February 2007. Deep monitoring wells MW-8 and MW-9 were drilled to depths of 100 and 89-feet respectively while MW-10 was extended to a depth of 50-feet.

Summary of Monitoring Well Construction Details

Well ID	Date of Installation	Casing and Screen Material	Depth to Screen Top	Screen Length	Depth to Bottom	Consultant
MW-1	5-28-96	2" Sch 40 PVC	5'	20'	25'	Handex
MW-2	5-28-96	4" Sch 40 PVC	5'	20'	25'	Handex
MW-3	5-28-96	4" Sch 40 PVC	5'	20'	25'	Handex
MW-4	10-27-97	4" Sch 40 PVC	5'	20'	25'	GES
MW-5	10-18-04	4" Sch 40 PVC	10'	40'	50'	GES
MW-6	10-18-04	6" Sch 40 PVC	10'	37'	47'	GES
MW-7	11-23-04	2" Sch 40 PVC	60'	40'	100'	GES
MW-8*	2-25-07	2" Sch 40 PVC	60'	40'	100'	GES
MW-9	2-25-07	2" Sch 40 PVC	59'	30'	89'	GES
MW-10	2-26-07	4" Sch 40 PVC	10'	40'	50'	GES

*Tubing logged in the well; RT will try to remove.

4.9 Initial Monitoring Well Access & Gauging Event

RT field personnel mobilized to the project Site on Thursday August 29, 2019 to locate then access the monitoring wells constructed during the previous groundwater investigation by both Handex and GES. It was anticipated that once the well access covers were removed, the well bore would be sealed with either grout or bentonite. However, all of the observation points located in the asphalt parking lot were found to be accessible although the field technician could not remove the protective PVC caps on MW-1 and MW-2. The only existing well that could not be located was MW-3 which may have been under construction material or inadvertently removed during the facility upgrades. RT also opened the three (3) soil gas manhole covers and found the tubing leading to the implant was still in place.

Of the seven (7) wells that could be opened and gauged, four (4) maintained a light non-aqueous phase liquid (LNAPL) (MW-4, MW-5, MW-9 and MW-10) while MW-8 only had a strong petroleum odor. Initial well gauging indicated a groundwater flow towards the northwest.

4.10 Baseline Groundwater Sampling

4.10.1 Initial Groundwater Sampling Event

An initial groundwater sampling event was conducted on January 15, 2020 in order to assess the serviceability of each well, obtain groundwater elevations and collect field data during the well purging process. After locating each of the 10 monitoring wells previously installed by Handex and GES, the well covers were removed and each well was gauged to determine groundwater elevations. Groundwater samples were collected from wells MW-1, MW-2, MW-3, MW-7 and MW-9 while product was detected in MW-4, MW-5 and MW-10. The well casing in MW-8 was blocked with dedicated tubing left in the well from a previous sampling event by GES. Since the field technician did not have the appropriate equipment to bail product and remove the tubing from MW-8, it was decided to complete sampling activities for the day and return to the office.

RT personnel returned to the Site on January 17, 2020 to remove product from wells MW-4, MW-5 and MW-10. Field notes indicate that a trace of product was observed on MW-4 upon which approximately 5-gallons of water/product was removed from the well via hand bailer and place in a 55-gallon drum which was staged on the property. Well MW-5 had a measurable amount of product (0.12') on the surface. Approximately 5-gallons of water/product was also removed from this well. Product in observation point MW-10 measured 0.3' before removing

~5-gallons of water and product. Upon completion of purging/sample collection in MW-3, MW-6 and MW-9 the product in well MW-5 had rebounded back to its original thickness (0.12').

RT returned to the Site on January 31, 2020 with equipment to remove the dedicated tubing left in the well casing (MW-8) by the previous consultant. Once the tubing was removed, the water column was allowed to stabilize before gauging. RT purged and collected groundwater samples from MW-4, MW-5 and MW-10 once all of the field parameters had stabilized (parameter stabilization sampling method used for all groundwater monitoring events). RT personnel then properly gauged, purged and collected a groundwater sample from monitoring point MW-8.

4.10.2 Monitoring Well Vacuum Event

Once it was verified that all ten (10) of the existing monitoring wells could be used in the proposed groundwater investigation, RT decided to conduct a vacuum extraction event to see if product and impacted groundwater removal would affect the water quality in the individual wells. RT and its subcontractor mobilized to the Site on March 4, 2020 to perform groundwater extraction on the shallow wells which indicated impacted water quality during the initial sampling event. The deep monitoring wells, MW-7, MW-8 and MW-9, were not included in this vacuum event along with well MW-1 and MW-2 which indicated no petroleum impacts. The following table indicates the approximated volume removed from each well:

Well Number	Gallons
MW-3	~750
MW-4	~200
MW-5	~575
MW-6	~750
MW-10	~750

In total, approximately 3,050-gallons of petroleum impacted groundwater was removed from the wells. The waste water was transported by J&J Environmental, Inc. (J&J) to Environmental Recovery Corporation in Lancaster, PA for disposal (see disposal manifests in **Appendix B**). Upon completion of the vacuum event, 4-inch diameter sorbent socks were placed in wells MW-4 and MW-10 to collect residual LNAPL entering the well casing.

4.10.3 Second Groundwater Sampling Event

A second groundwater sampling event was conducted on April 16, 2020 after allowing the wells to stabilize following completion of the vacuum event. Analytical results were puzzling as wells

which indicated no petroleum contamination during the initial sampling event (MW-1, MW-2 and MW-7) were now impacted and wells which showed significant impacts (MW-4, MW-5 and MW-6) reported reduced or no residual petroleum characteristics. Only wells MW-3 and MW-10 indicated a consistent water quality concentrations between the two sampling events. In order to conduct a proper evaluation of the water quality at the Site, additional vacuum events were proposed before the next sampling event. Once again, sorbent socks were re-installed in wells MW-6 and MW-10.

4.10.4 Second Groundwater Extraction Event

A second vacuum extraction event was conducted on May 12, 2020 by J&J with oversight from RT field personnel. After opening and gauging each well, it was noted that only minimal product staining was observed on the sorbent socks removed from MW-4 and MW-10. This extraction event removed approximately 3,000-gallons of groundwater from six (6) of the ten (10) wells. Petroleum impacted groundwater was removed from MW-10, MW-6, MW-5, MW-4, MW-3 and MW-2 with all of the wells recharging at an suitable rate which prevented any of the well bores from going dry. Wells with 2-inch casing (MW-1, MW-7, MW-8 and MW-9) were not pumped as the subcontractor did not bring 1-inch threaded PVC to use as a stinger. Upon completion of the extraction event, J&J transported the 3,000-gallons of waste water to Eldredge, Inc. in West Chester, PA for disposal.

4.10.5 Third Groundwater Extraction Event

A third vacuum event took place on May 28, 2020 in order to remove a representative amount of groundwater from each of the well bores. Upon completion of well gauging operations, J&J proceeded to use 1-inch stingers in the 2-inch casing wells and 2-inch stingers in the larger wells. The PVC pipe inserted into each well bore was properly decontaminated between wells by RT field personnel with an Alconox wash and clean water rinse. Once complete, J&J transported the 3,000-gallons of waste water to Eldredge, Inc. in West Chester, PA for disposal (refer to **Appendix B**). It was noted that sorbent socks were not re-installed in wells MW-4 and MW-10 as LNAPL entering the well casing had significantly diminished.

4.10.6 Third Groundwater Sampling Event

A third groundwater sampling event was conducted on June 18, 2020. It was anticipated that this event would show improvement to the overall groundwater quality beneath the Site as the result of the three extraction events along with clarifying the results of the first two sampling events. The results indicate that MW-1 reported all analytical compounds below the laboratories method detection limits (MDLs) conforming to the results obtained in the initial sampling event. Monitoring well MW-2 showed an increase in benzene concentrations (13

µg/L) over the January results (0.46 µg/L) but less than the April event (190 µg/L). The same trend carries through for the other eight parameters except for MTBE which was below the MDLs in all three events. Sample point MW-3 was consistent with all parameters over the three events while well MW-4 reported elevated concentrations in the first and third events with most parameters decreasing from January to April (benzene 3,800 µg/L to 1,600 µg/L), (ethylbenzene 2,500 µg/L to 1,500 µg/L), toluene (2,400 µg/L to 430 µg/L), (1, 2,4-Trimethylbenzene 1,700 µg/L to 1,400 µg/L) and total xylenes (16,000 µg/L to 8,100 µg/L). This is reflective of the three vacuum events conducted over the previous three months.

Monitoring well MW-5 is also consistent with the first and third sampling events with all of the constituents of concerning decreasing. The first and third sampling events for MW-6 are also consistent although a decreasing trend is noted in all parameters analyzed. It is the opinion of the managing geologist that second sampling event is not representative of the actual water quality and should be discarded. The same relationship was found in well MW-7 although the benzene concentration increased from non-detect to 6.6 µg/L. Wells MW-8 and MW-9 showed a similar pattern although the concentrations increased from January to June in all parameters except MTBE which remained the same (2.0 µg/L).

Monitoring well MW-10 along with MW-3, are the only sample points which reported consistent concentrations for a majority of the parameters over the three sampling events. The only exception to this statement in MW-10 is toluene, which decreased from 7,100 µg/L from January to 620 µg/L in April then increased to 3,200 µg/L during the June sampling event. This well was first observed with a small amount of product in January which has decreased to a sheen prior to the May 28th vacuum event.

Based on the quality inconsistencies observed between the first and second and the second and third groundwater sampling events, it is recommended that the second data set (April 2020) be omitted from future analytical discussion. The field technician who collected the samples in April stated that he did not experience any abnormalities during well purging or sample collection, mix-up or mis-identify well locations or mis-label any of the sample containers. However, mis-identification of the samples collected is the only relevant justification for the inconsistent April data set. Although the April data set has been left off the data summary table (**Table 3**) the laboratory reports for the April 16, 2020 sampling event have been included in **Appendix A**.

4.11 Proposed Monitoring Program

Based on the groundwater data sets obtained in January, April and June of 2020, only the January and June sampling events are considered to be relevant moving forward. The existing

wells sufficiently cover the groundwater flow beneath the Site although, based on the concentrations reported in MW-10, two (2) additional shallow down-gradient point-of-compliance wells are recommended for installation along the western perimeter of the property (refer to **Figure 3**). These compliance wells will be drilled to a depth of 25-feet, completed with 20-feet of 4-inch screen and monitor the shallow groundwater zone. Once installed, Finch will complete one additional round of baseline monitoring before the initiation of remedial operations and subsequent quarterly attainment sampling activities. Finch, through its consultant RT, will continue to analyze the groundwater samples for the PA DEP Short List of Unleaded Gasoline parameters and evaluate the monitoring results as they become available.

5 Site Conceptual Model

A petroleum release was discovered during the annual tank compliance testing in 2018 by Trammel Testing, Inc. During the tightness testing, tank 001 (Ultra gasoline unit) failed the EZY 3 Locator Plus test on September 12, 2018 resulting in the submission of a "Notification of Reportable Release" to the Pennsylvania Department of Environmental Protection (PA DEP) Bureau of Environmental Cleanup and Brownfields. Remedial activities, as further discussed in Section 8, consisted of excavation and removal of three 12,000-gallon USTs and all petroleum impacted soil from the pit. Three new fiberglass tanks were re-installed in the excavation which was backfilled with quarry-supplied pea gravel and capped with concrete.

5.1 Migration Pathways

As previously stated, remedial activities consisted of over excavation via excavator of all petroleum impacted soil by removal of concrete cap overlying the tank field, soil (pea gravel) fill, tanks and impacted soils around/beneath the tanks. Petroleum contamination was detected via PID screening during the soil removal process. Confirmatory sidewall soil samples (biased sampling method) obtained at the completion of the remedial activity indicated that all constituents-of-concern were reported below the most stringent residential Statewide Health standard for soil (no exceedance).

Migration pathways at the Site are limited as all impacted soil materials have been removed. The UST excavation was completed with three new 12,000-gallon tanks, backfilled with quarry delivered pea gravel and capped with concrete. Bedrock was not encountered during the soil removal process, however; groundwater contamination is a concern and is being further evaluated in an on-going monitoring program.

No migration pathways exist in the vicinity of the tank field and all petroleum impacted soils have been removed. Therefore, the source of the contamination has been eliminated. All constituents of concern addressed in the attainment soil samples were reported as below default screening values for potential vapor migration.

5.2 Potential Receptors and Completed Exposure Pathways

The Site and surrounding properties are designated for commercial use and are developed with retail structures. Migration pathways present at the Site are incomplete as the source of contamination has been removed from the project Site. In addition, the affected soil area associated with the tank field is covered with a concrete pad with a majority of the parcel being asphalt paved (no surface water infiltration). Any potential migration routes (sewer and water lines) were not located in the release area and are not of further concern. The indoor air exposure pathway has been evaluated (Section 7.0) via two sub-slab sampling events adjacent to the convenience store. Analytical results from the first sampling event indicated that minor detections of ethylbenzene, naphthalene, toluene and total xylenes. Upon comparing soil gas results to the Pennsylvania Department of Environmental Protection (PADEP) Act 2 Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values ($SV/_{SS}$) in a non-residential setting ($\mu g/m^3$), all reported concentration are several orders of magnitude below their respective SV_{SS}.

A second sampling event was conducted 47-days after the May 26th collection (July 13, 2020). Analytical results for sample point SG-2 were reported as non-detect for all compounds. Therefore, the potential receptors are not of further concern.

6 Ecological Receptor Evaluation

In accordance with Title 25, Section 250.311 (Evaluation of Ecological Receptors), a determination of ecological receptors is required unless:

> "jet fuel, gasoline, kerosene, No. 2 fuel oil, or diesel fuel are the only constituents detected on- Site"; or

> "the area of contaminated soil is less than two acres and the area of contaminated sediment is less than 1,000 square feet"; or

> "the Site has features, such as buildings, parking lots or graveled paved area, which would obviously eliminate the specific exposure pathways, such as soils exposure".

Gasoline is the only constituent detected on-Site. Following the objectives of the ecological screening procedure, no further ecological action is required.

7 Vapor Intrusion Analysis

In compliance with Act 2 regulations, RT has conducted a vapor intrusion analysis to evaluate the potential for any remaining petroleum-impacted groundwater to pose a health risk to humans and/or habitats of concern. This analysis was conducted in conjunction with the on-going groundwater investigation.

On May 26, 2020, RT field personnel mobilized to the property in Warminster to install two (2) sub-slab vapor points inside the Sunoco convenience store. Due to the limited retail space, RT attempted to install the points in areas which would be out of customer traffic pathways such as a rear utility room and behind the register service counter. In both cases, a subsurface obstruction was encountered (utility line i.e. electrical, plumbing or mechanical). Due to these impediments, RT elected to utilize one of the historic vapor points previously installed on the property by GES on the exterior of the convenience store. Three (3) soil-gas points (SG-1, SG-2 & SG-3) were installed on February 9, 2007 in front of the convenience store building (**Figure 6**). The points were constructed with ½-inch diameter stainless steel implants (0.0057-inch screen size) to depths of 4 feet each. Polyethylene tubing was connected to the implants to facilitate soil-gas sampling. Upon locating the points and removing the manway covers, the lines were inspected for kinks and tears. RT decided to set up on vapor point number 2 which is located directly in front of the convenience store entrance. After an initial purge with a hand vacuum pump, the field technician connected the summa canister. Upon installation of all lines and documentation of equipment settings, the canister was opened and a pinhole leak in the line was detected and the test was aborted. Once the leak in the tubing was located, the compromised section was removed and a leak test was performed on SG-2 using a helium shroud as follows:

- Initial measurement of helium below slab (0 ppm);
- Fill shroud with helium (17.6%);
- Check helium level below slab again (0 ppm);
- Check confirmed no leaks in system then proceed to perform shut-in test of sampling system (purge lines);

- Prior to sampling, the soil vapor point was purged using an SKC pump set to low air flow mode in order to remove stagnant air from the collection tubing;
- Upon completion of line purging, a valve on the individual SUMMA canister was open to begin sample collection.

A One-liter Summa canister with a pressure gauge was used to collect the sample based on individual canister starting and ending pressures. Upon completion of the sampling period, the canister was removed from the sample probe, properly labeled with chain of custody protocols and records, and immediately transported to the TestAmerica login facility in King of Prussia, PA for shipment to the Burlington, VT laboratory.

Analytical results indicated that minor detections of ethylbenzene, naphthalene, toluene and total xylenes. Upon comparing soil gas results to the Pennsylvania Department of Environmental Protection (PADEP) Act 2 Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values ($SV/_{SS}$) in a non-residential setting ($\mu g/m^3$) (Effective Date: January 18, 2017), all reported concentration are several orders of magnitude below their respective SV_{SS}.

A second sampling event was conducted 47-days after the May 26th collection (July 13, 2020). Analytical results for sample point SG-2 were reported as non-detect for all compounds analyzed. A summary of the soil gas analytical data is provided in **Table 5** and a copy of the laboratory analytical report can be found in **Appendix A**.

8 Conclusions and Recommendations

Based on the soil attainment sampling conducted by RT on July 26, 2019, no residual soil contamination remains in the excavation at concentrations above the selected rSHS. Therefore, no additional soil excavation/remediation is proposed. However, at the time of the tank removal, a sheen of petroleum product was observed on water in the bottom of the excavation. During the course of soil removal, any potentially contaminated groundwater accumulating in the excavation was removed from the pit via vacuum truck. A sample of the pit water was collected by RT personnel on July 19, 2019 and transported to the TestAmerica login facility in King of Prussia for analysis of unleaded gasoline parameters. Analytical results indicated an exceedance of benzene, ethylbenzene, toluene, naphthalene, MTBE, 1,2,4-Trimethylbenzene and total xylenes of the used aquifer non-Residential Statewide Health standards. Based on these results, a groundwater monitoring program was initiated at the Site.

As documented in Section 4.8, ten (10) existing monitoring wells are present on the property from prior investigations. These wells have been accessed and found to be functional for continued use in a groundwater monitoring program. RT has completed three (3) baseline sampling and groundwater extraction events over a six month period in order to assess groundwater quality and reduce constituent of concern concentrations beneath the site. Based on the quality inconsistencies observed between the first and second and the second and third groundwater sampling events, it is our opinion that the second data set (April 2020) be omitted from future analytical discussion. The field technician who collected the samples in April stated that he did not experience any abnormalities during well purging or sample collection, a mix-up or mis-identification of well locations or mis-labeling of sample containers is the only relevant justification for the inconsistent April data set.

As indicated on **Table 3**, groundwater quality monitoring results, there is a noticeable reduction in the various constituent of concern concentrations from the samples obtained in January 2020 when compared with the results obtained in June 2020. This is attributed to the three vacuum extraction events which removed approximately 9,000-gallons of petroleum impacted groundwater from the various observation points. Benzene concentrations dropped significantly in five of the seven shallow wells that were located either side or down gradient to the retrofitted tank field. Similar reductions were noted for toluene, 1,2,4-trimethylbenzene and total xylenes while minor reductions were observed in ethylbenzene, cumene and naphthalene concentrations. Slight increases in benzene, ethylbenzene, naphthalene, toluene, 1,2,4–trimethylbenzene, 1,3,5-trimethylbenzene and total xylene concentrations were noted in the three deep wells.

Although the three vacuum extraction events conducted to date have resulted in an overall reduction in the dissolved-phase plume, a more substantive remedial option will need to be employed in order to the reduce the petroleum hydrocarbon concentrations to achieve a non-Residential Statewide Health standard.

Vapor intrusion into the retail store is not of further concern as the two rounds of soil/gas sampling in collection point SG-2 did not report any petroleum compounds above the PADEP Sub-slab Soil Gas non-residential screening values.

9 Remedial Action Plan

9.1 Remedial Action Options

The following remedial alternatives have been evaluated based on the two (2) reputable groundwater sampling events and depth to water information:

9.1.1 Proposed Alternatives

a. **Option 1 – Vacuum Extraction** – Once the existing monitoring wells were determined to be viable observation points, three (3) vacuum events were conducted at the Site to remove residual product from the water column. These extraction events took place on March 4, 2020, May 12, 2020 and May 28, 2020. The effectiveness of this methodology on further reduction in the constituent of concern concentrations is undergoing further evaluation.

b. **Option 2 – Oxygen Release Compound Filter Socks** – An alternative option would be to install Oxygen Release Compound filter socks into designated monitoring wells or new monitoring points and observe their effect on groundwater quality on a quarterly basis. The ORC socks would be inserted in series within the screened interval in wells MW-3, MW-4, MW-5, MW-6 and MW-10 (shallow groundwater zone) or new recommended points. It would be anticipated that the ORC concentration will vary between 10 and 18 percent, depending on product selection, and should continue to be effective for a period of between 9 to 12-months before replacement. ORC products vary by manufacturer but generally provide a 10-foot radius of influence with a reported treatment zone (dispersal) from 20 to 50-feet downgradient over time.

c. **Option 3 – In-Situ Chemical Oxidation** - The next alternative remedial option would be chemical injection to reduce the constituents-of–concern concentrations in groundwater. This would involve installation of injection points throughout the Site for the application of treatment chemicals. The injection would be monitored over a period of time to observe the progress of this remediation option.

d. **Option 4 – No Action** – This option would consist of implementing long-term institutional controls to restrict access to the property and would be combined with monitored natural attenuation. For this option, it would be anticipated that a series of off-Site wells would be necessary.

9.1.2 Remedy Selection Criteria

In general, the evaluation criteria is directly or indirectly related to the overall Site remediation objective that is to assure water quality complies with the non-residential Statewide Health

Standard established for a used aquifer. In addition, the remediator aims to reduce the risks posed by any remaining contamination to human health or the environment.

9.1.3 Alternative Analysis

No Action – This No Action option was eliminated from further consideration based on the initial presence of the LNAPL and the property owners desire to complete clean-up activities associated with the replacement of the three (3) 12,000-gallom USTs on the Site (source of contamination has been removed) in a timely manner and limited Activity Use Limitations (AULS).

Vacuum Extraction – This methodology was further evaluated and selected as the initial best option available to remediate the Site using a non-residential Statewide Health Standard for groundwater. To date, three (3) vacuum extraction events have taken place (March 4, 2020, May 12, 2020 and May 28, 2020) with a notable reduction in benzene, ethylbenzene, toluene and total xylenes along with a slight reduction in cumene, naphthalene and 1,2,4-trimethylbenzene concentrations. RT is proposing to conduct one (1) addition vacuum event prior to conducting third quarter groundwater sampling. Although this option has been effective in reducing the individual compound mass from beneath the Site, this method alone will not further reduce the concentrations to meet the non-residential Statewide Health Standard in all wells.

Oxygen Release Compound Filter Socks – ORC filter socks were evaluated as a remediation method to reduce the groundwater concentrations in the various wells. However, this option was rejected due to the minimal effective radius (~10-feet) around each well along with the need to install new monitoring wells once the existing wells were converted into remediation points.

In-situ Chemical Injection – In-situ Chemical Oxidation (ISCO) technology has been selected as the most effective option for the remediation of petroleum hydrocarbon contamination. The ISCO process involves injecting oxidants (substances readily reduces) and, in some cases, other reaction generating substances (catalysts) into contaminated areas of the subsurface. The oxidant reacts with the contaminant causing decomposition of the contaminant and the production of innocuous substances such as carbon dioxide and water. This reaction, called oxidation, is a chemical reaction characterized by the loss of one or more electrons from an atom or molecule. Carbon in the form of organic carbon and manufactured hydrocarbons are common substances readily oxidized (reductants). ISCO technologies that effectively destroy petroleum hydrocarbons include hydrogen peroxide, Fenton's solution (hydrogen peroxide with an iron catalyst), proprietary modified Fenton's solutions, sodium persulfate, ozone, or a combination of these oxidants.

As a conceptual Site model has been established through the preparation of this Site Characterization report, the next step will be to perform bench-scale testing. In order to determine

the most appropriate ISCO technology along with accurate oxidant injection volume, RT will hire a consultant who specializes in remediation methodologies to calculate the total oxidant demand (TOD) of the contaminated zone. Bench-scale testing will be used to calculate the TOD, to quantify treatment efficiencies of the oxidant with the constituents of concern (COCs), to determine the potential for metals mobilization and estimate the oxidant injection volume and concentration. Once the type of oxidant has determined, the oxidant concentration and injection volume, injection rates, injection pressures, and radius of influence will be formulated. Based on these parameters, a full-scale injection program can be designed, which would include injection point spacing, frequency of injections as well as costs and progress monitoring.

9.1.4 ISCO Injection Monitoring

Performance monitoring (during application) and post application monitoring are important components of the ISCO process. Proper evaluation of monitoring results will determine the effectiveness of the ISCO application, confirm delivery parameters, determine if adjustments to delivery parameters are necessary, and determine if cleanup objectives are being met. Monitoring points will be located downgradient of the injection locations. Measurements to determine baseline conditions will include COC concentrations, pH, ORP, DO and by-products that will potentially be generated by the ISCO process. During performance monitoring, pH, temperature, ORP, DO, specific conductivity, Fe^{+2}, sulfate and CO_2 will be measured at both the injection and monitoring points. COC concentrations will be measured at the established monitoring points.

9.2 Groundwater Water Monitoring Activities

Finch Petroleum will complete a minimum of eight (8) quarterly groundwater sampling events beginning with the first quarter of 2021 following completion of the ISCO injection program. Finch, through its consultant RT, will continue the quarterly groundwater monitoring for the Site and evaluate the monitoring results as they become available. RT will submit further Remedial Action Progress Reports after the monitoring events, in conjunction with the extraction/remediation events, in accordance with the following schedule:

Action Item	Planned Action Date
Install Point-of-Compliance Wells (MW-11 & 12)	9-09-20
Initiate Bench-Scale and Treatability Testing	9-15-20
Third Quarter 2020 Groundwater Monitoring	9-24-20
Fourth Vacuum Extraction Event	10-01-20

DEP Quarterly Report	10-15-20
In-situ Chemical Injection	10-27-20
Fourth Quarter 2020 Groundwater Monitoring	12-15-20
DEP Quarterly Report	1-15-21
Evaluate Effectiveness of Chemical Injection	1-25-21
First Quarter 2021 Groundwater Monitoring	3-17-21
DEP Quarterly Report	4-15-21
Second Quarter 2021 Groundwater Monitoring	6-15-21
DEP Quarterly Report	7-15-21
Third Quarter 2021 Groundwater Monitoring	9-15-21
DEP Quarterly Report	10-15-21
Fourth Quarter 2021 Groundwater Monitoring	12-15-21
DEP Quarterly Report	1-19-22
First Quarter 2022 Groundwater Monitoring	3-16-22
DEP Quarterly Report	4-15-22
Second Quarter 2022 Groundwater Monitoring	6-15-22
DEP Quarterly Report	7-15-22
Third Quarter 2022 Groundwater Monitoring	9-15-22
DEP Quarterly Report	10-12-22
Fourth Quarter 2022 Groundwater Monitoring	12-15-22
DEP Quarterly Report	1-18-23
Submit Completion Report to DEP	3-15-23

9.3 Analytical Methods

The participating laboratory will utilize EPA Method 5030B/8260B – Volatile Organic Compounds by GC/MS to determine volatile organic compounds in a variety of water matrices. Compounds to be analyzed (PA Short List of Petroleum Products for Unleaded Gasoline) include Benzene, Toluene, Ethylbenzene, Naphthalene, Cumene (isopropylbenzene), MTBE, Total Xylenes, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

9.3.1 Attaining Acceptable Groundwater Concentrations

A non-residential used aquifer statewide standard has been selected for groundwater media. To date, RT has conducted three groundwater sampling events of which, the April 16, 2020 has been disregarded due to suspect field quality issues. As the recommended remedial action at the Site

will involve an ISCO application, one (1) additional baseline sampling event will take place during the third quarter 2020 prior to the start of injection operations. Following completion of remedial operations, a post-remediation sampling event will take place during the fourth quarter of 2020. Therefore, the eight (8) quarters of attainment sampling will begin during the first quarter of 2021 in order to demonstrate compliance with the non-residential statewide health standards for unleaded gasoline constituents in groundwater.

9.3.2 Remedial Action Reporting

Based on the post excavation soil sampling results following the 2019 tank removal activity, soils demonstrate attainment of the applicable rSHS. Soil gas sampling in front of the convenience store (2 events) was conducted to ensure that there is no capable exposure pathway. RT will continue the quarterly groundwater monitoring at the Site and evaluate the results as they become available.

10 References

- Berg, T. M., Edmunds, W. E., Geyer, A. R., and others, compilers, 1980, Geologic map of Pennsylvania (2nd ed.): Pennsylvania Geological Survey, 4th series, Map 1, 3 sheets, scale 1:250,000.
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- United States Department of Agriculture (USDA), Natural Resource Conservation Service, Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm), 610 York Road, Warminster, Pennsylvania.
- Shultz, Charles H., 1999, The Geology of Pennsylvania, Pennsylvania Geological Survey, 888 pp.
- U. S. Geologic Survey Topographic Maps, Philadelphia, PA Quadrangle, 7.5 Minute Series, Imagery Updated July 2010 (NAIP), revised 2016.

11 Signatures

This Act 2 Statewide Health Standard Final Report was prepared and submitted by:

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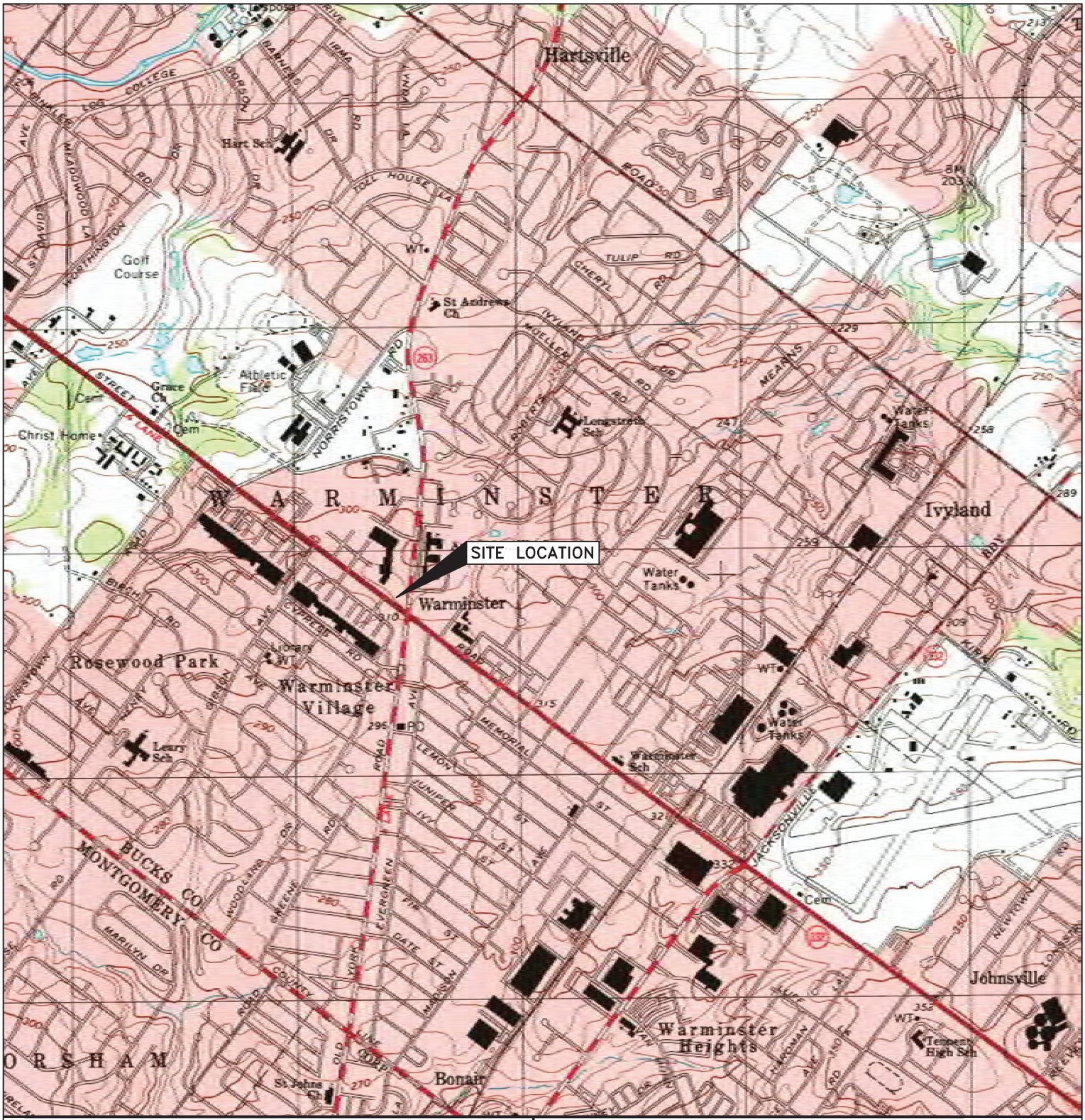
Senior Consultant
RT Environmental Services, Inc.
Pennsylvania Registered Professional Geologist No. PG-4709

"By affixing my seal to this document, I am certifying that the information contained herein is true and correct. I further certify that I am licensed to practice geology in the Commonwealth of Pennsylvania and that it is within my professional area of expertise to verify the correctness of this information."

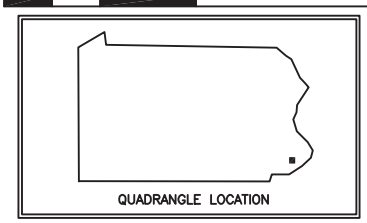
FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
HATBORO, PA
CONTOUR INTERVAL 10 FEET

SCALE (feet)

0 2000' 4000'



RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 1
SITE LOCATION MAP

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	73057-01	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON	AS
SCALE	1" = 2000'	DRAWING NUMBER			REVISION	
DATE	7/31/19	y:\rt projects\73000 series\73057-01\slm.dwg				

Legend

Property Boundary

0 30' 60'

RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 2
SITE AERIAL PHOTOGRAPH

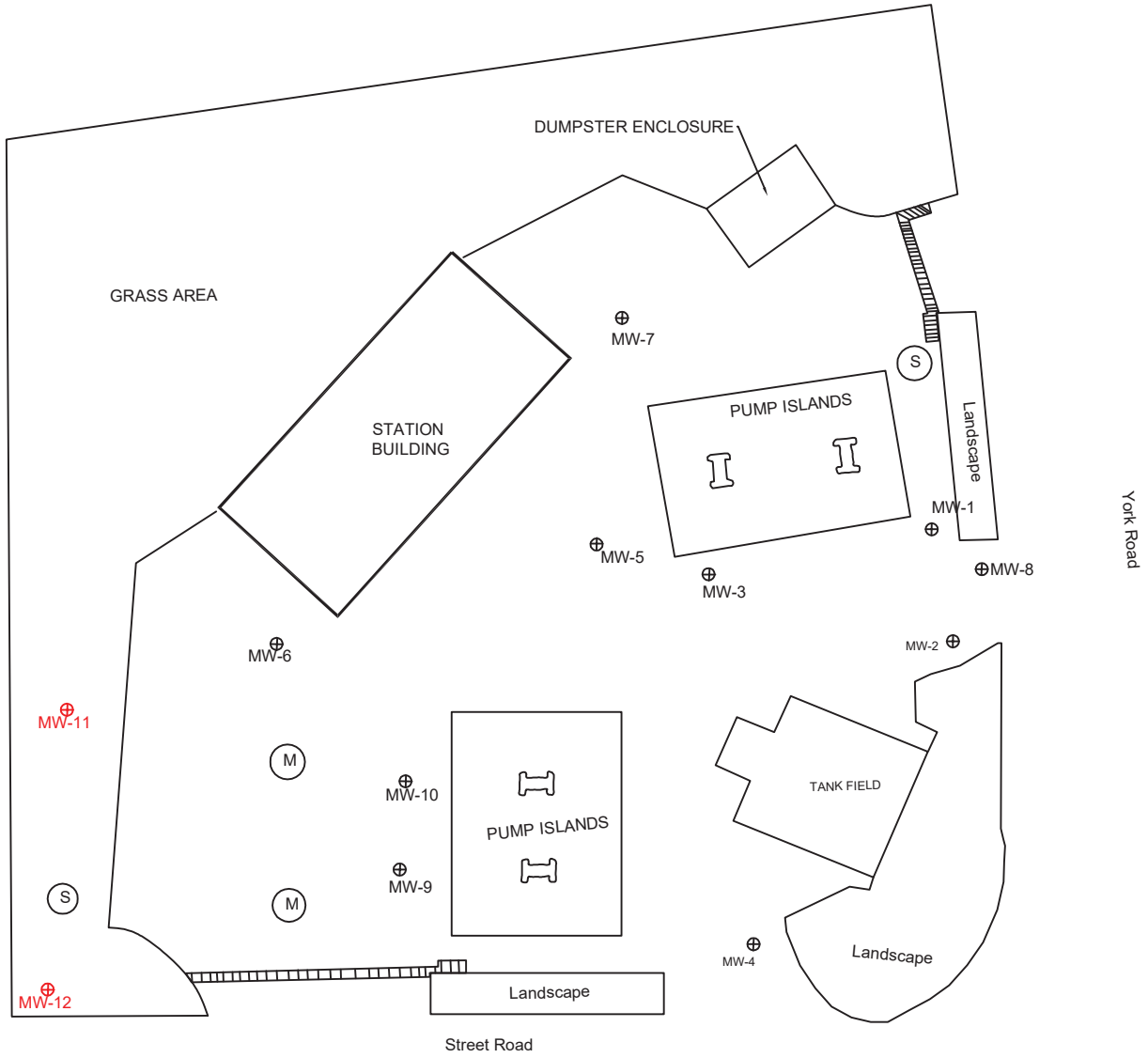
610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-01				AS

SCALE	DRAWING NUMBER	REVISION
1" = 30'	y:\rt projects\73000 series\73057-01\figures.dwg	1

DATE 7/30/2019



LEGEND

- Monitoring Well
- Sewer
- Manhole
- Stormwater Inlet
- Proposed Monitoring Well

0 50' 100'

RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 3
SITE LAYOUT MAP

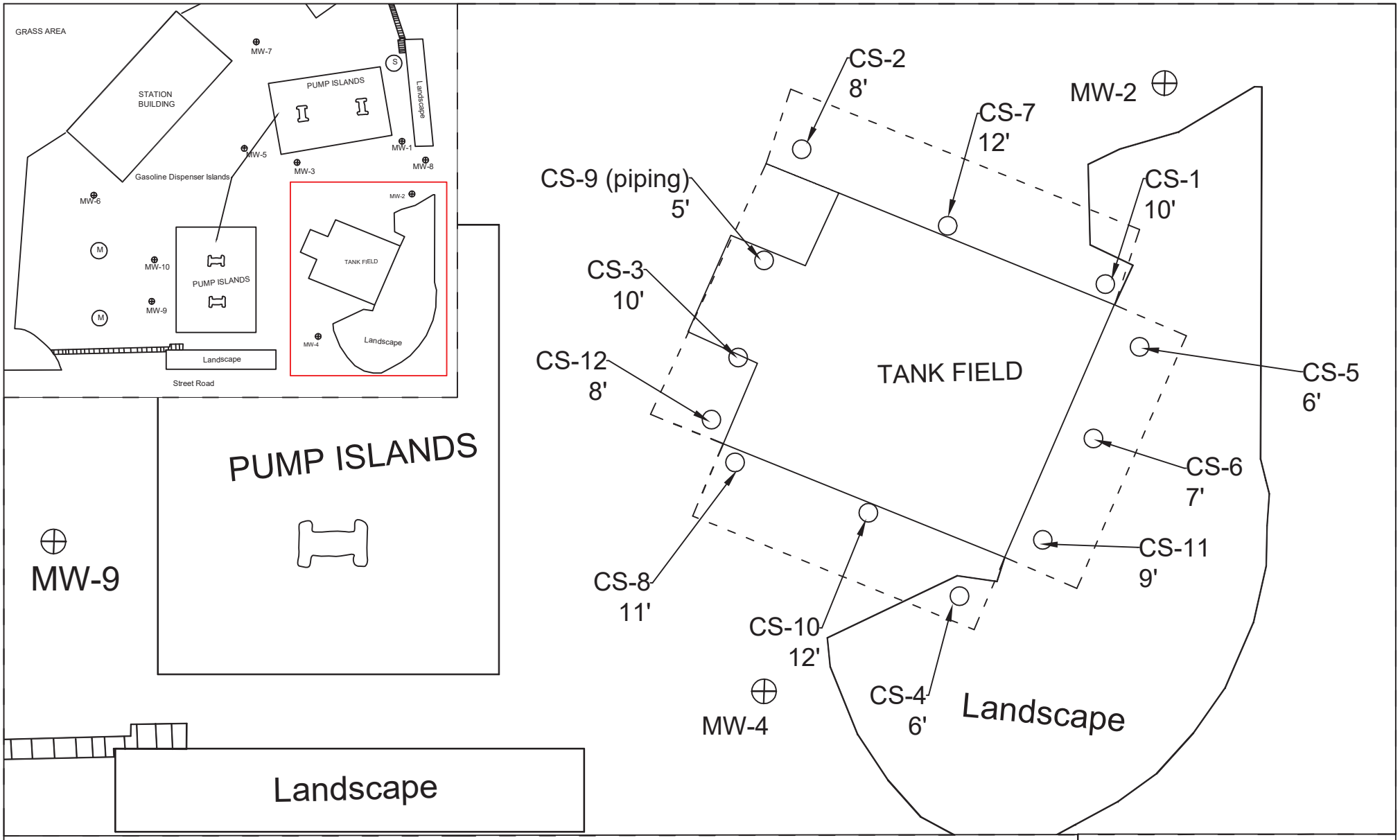
610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-01				AS

SCALE	DRAWING NUMBER	REVISION
1" = 50'	y:\rt projects\73000 series\73057-02\figures_2007.dwg[1]	

DATE 7/30/2019



RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 4
ATTAINMENT SOIL SAMPLE LOCATION MAP

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-01				AS

SCALE	DRAWING NUMBER	REVISION
1" = 50'	y:\rt projects\73000 series\73057-01\figures.dwg	1

DATE 7/30/2019

Map ID	PAWellID	County	Municipality	DateDrilled	LatitudeDD	LongitudeDD	OriginalOwner	WellUse	WaterUse
1	69172	BUCKS	WARMINSTER TWP.	1/1/1970	40.2025	-75.09333	SMITH ELMER	WITHDRAWAL	DOMESTIC
2	6300	BUCKS	WARMINSTER TWP.	1/1/1932	40.21222	-75.10111	CHRIST'S HOME FOR CHILDREN	WITHDRAWAL	DOMESTIC
3	5062	BUCKS	WARMINSTER TWP.		40.20833	-75.1025	JONES C	WITHDRAWAL	DOMESTIC

Note: This figure displays readily available information provided by the Pennsylvania Groundwater Information System (PaGWIS). RT provided the addresses for the above potentially potable wells to the Warminster Municipal Authority and a township representative indicated that, to the best of their knowledge, these properties are connected to the public water supply.

0 1000' 2000'

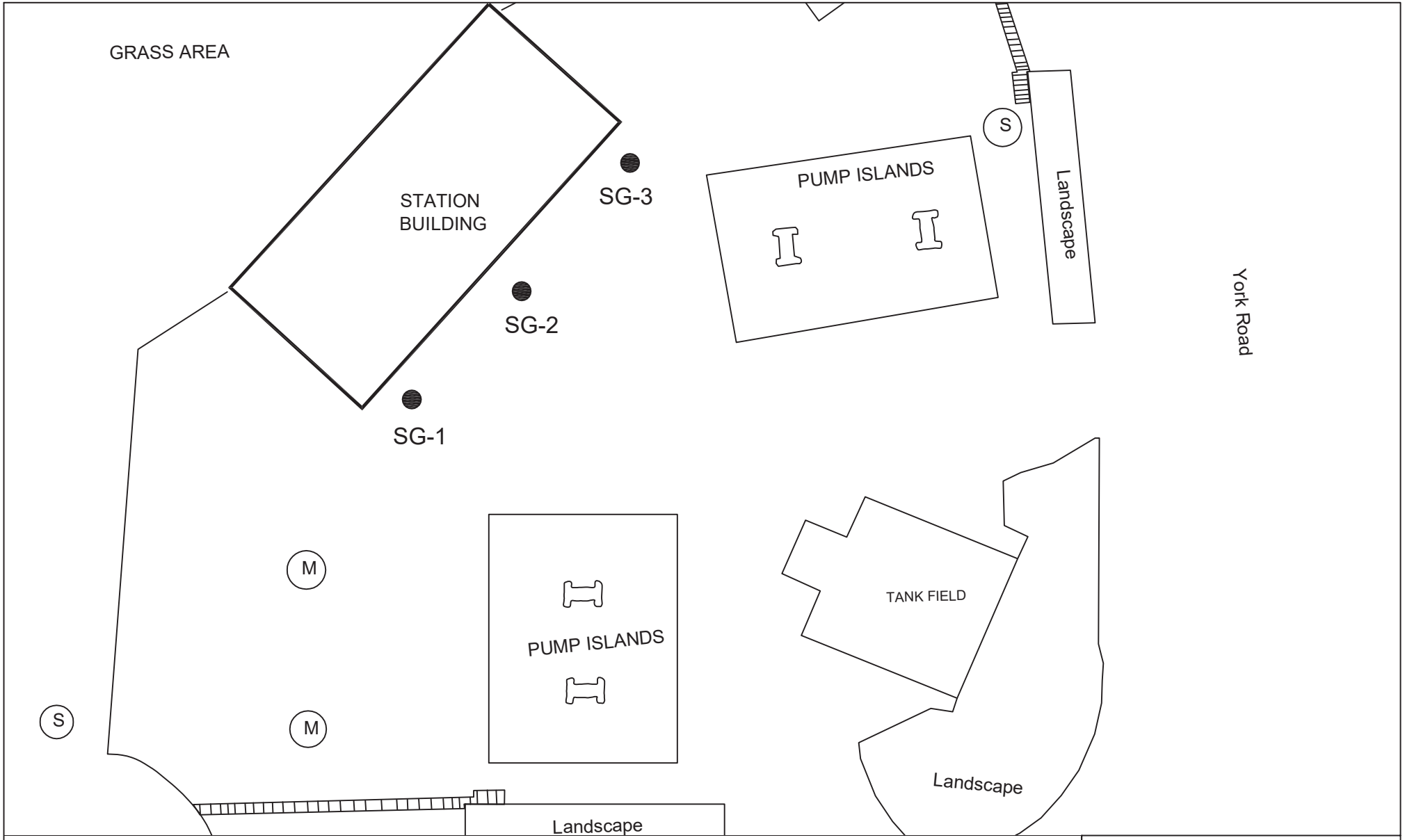
RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 5
1/2–MILE WELL SEARCH RESULTS MAP

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	73057–01	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON	VL
SCALE	1" = 30'	DRAWING NUMBER			REVISION	
DATE	7/30/2019	y:\rt projects\73000 series\73057-01\figures.dwg				



LEGEND

- ⊕ Monitoring Well
- Ⓜ Manhole
- Ⓢ Sewer
- ● Soil Gas Sample Location

0 40' 80'

RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 6
SOIL GAS SAMPLE LOCATION POINTS

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-02				AS

SCALE	DRAWING NUMBER	REVISION
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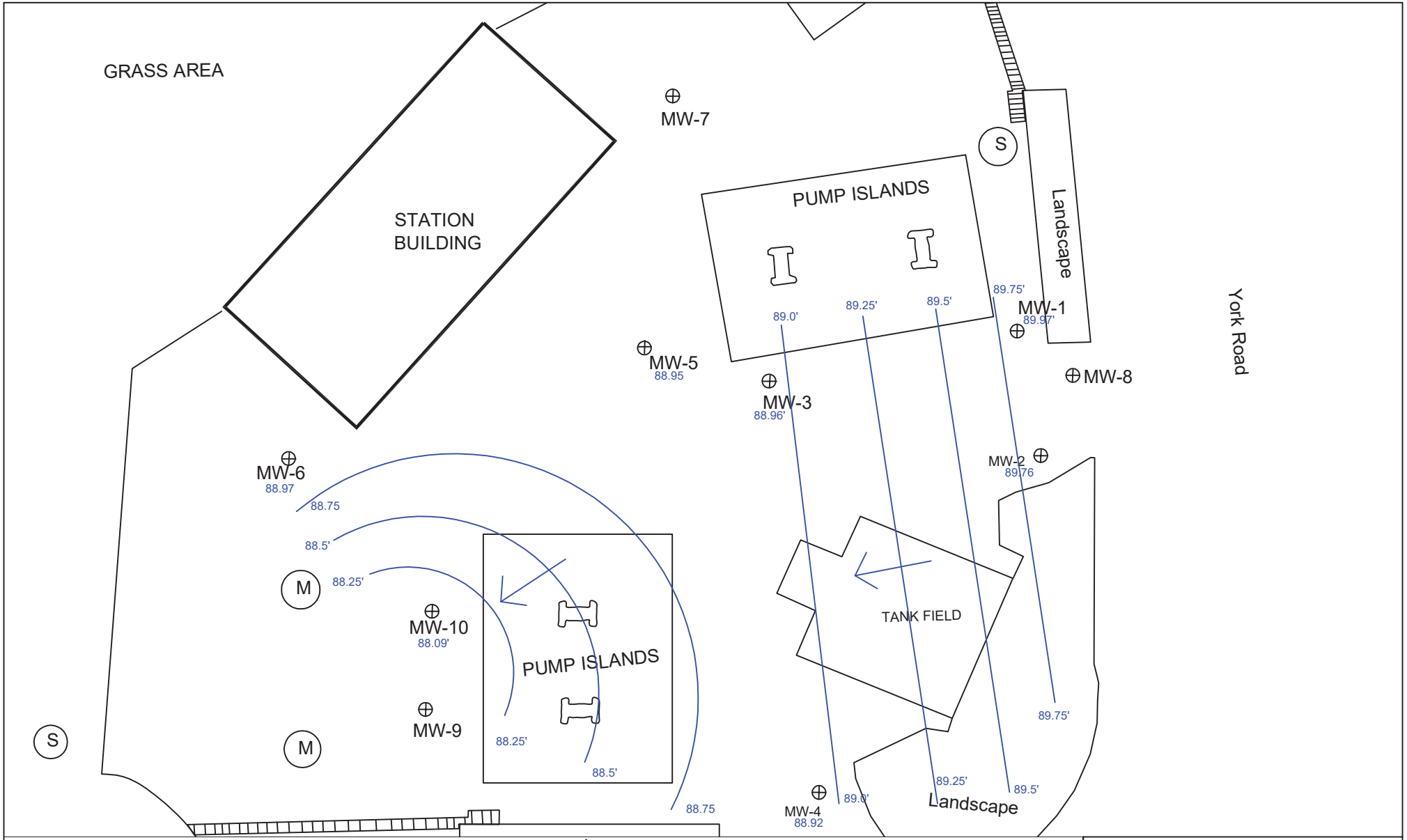
DATE 7/8/2020



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215 West Church Road
King of Prussia, PA 19406

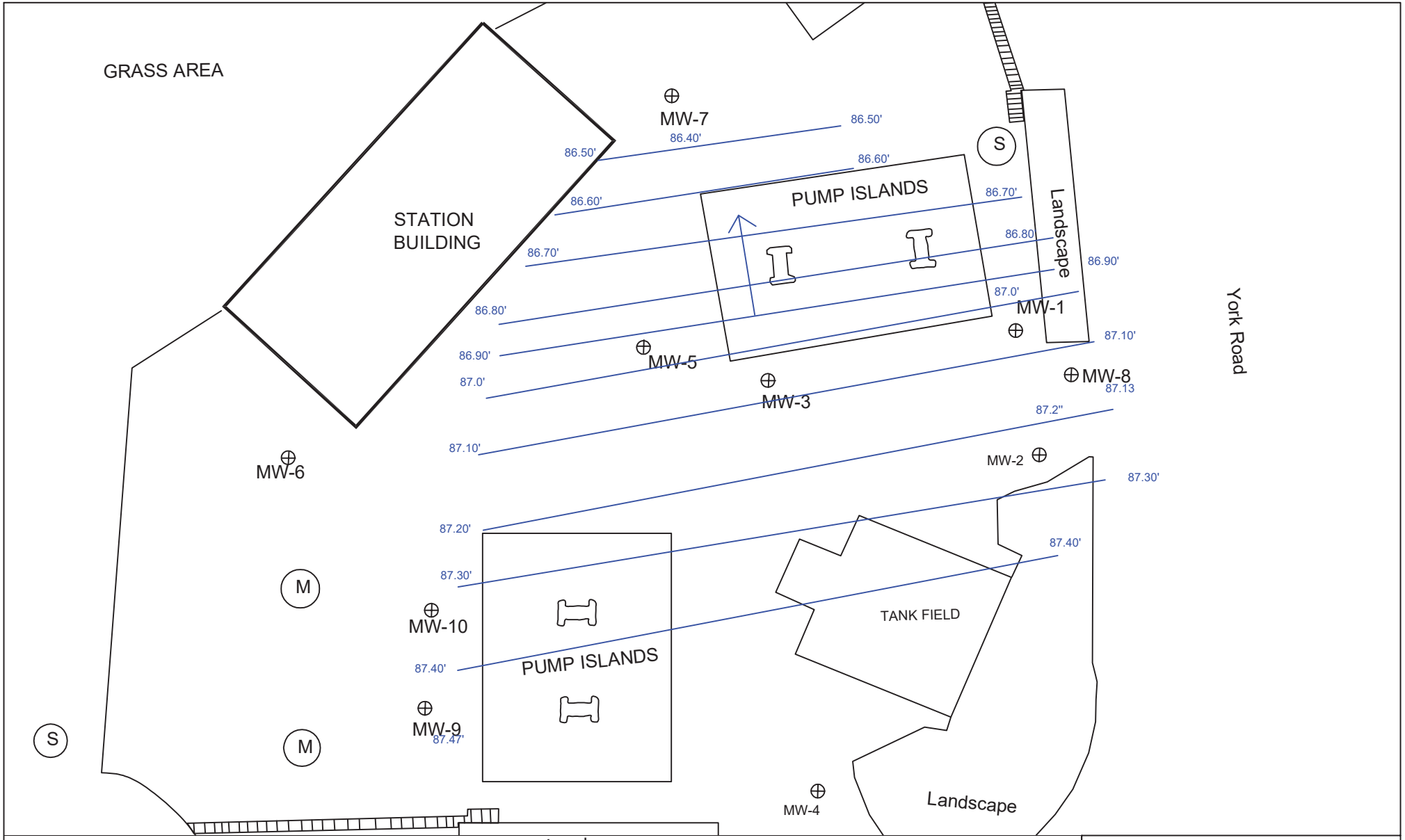
FIGURE 7
SHALLOW GW FLOW MAP
APRIL 16, 2020

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-02				AS

SCALE	DRAWING NUMBER	REVISION
1" = 40'	y:\rt projects\73000 series\73057-02\figures_2007.dwg	
DATE 4/21/2020		



RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 8
DEEP GW FLOW MAP
APRIL 16, 2020

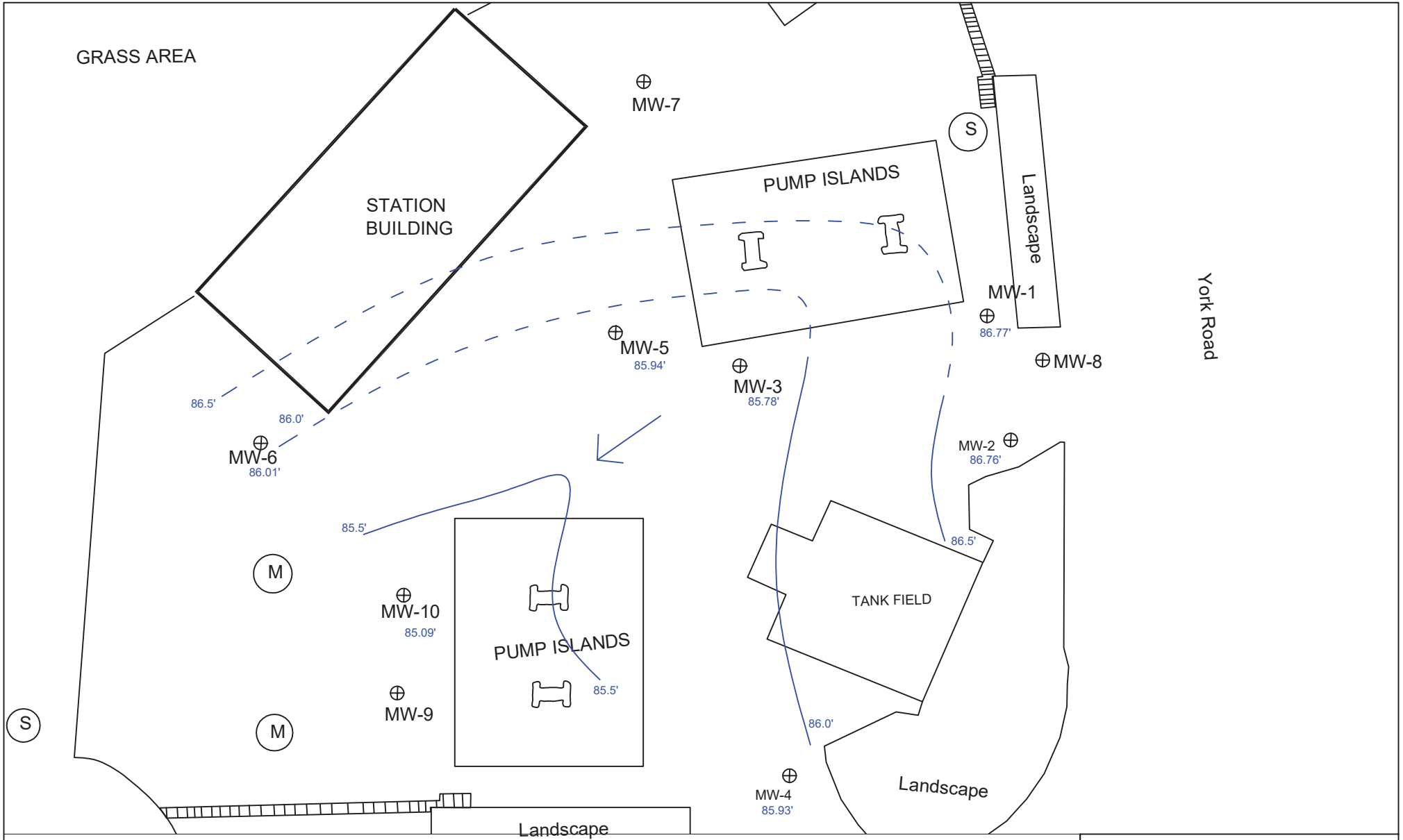
610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-02				AS

SCALE	DRAWING NUMBER	REVISION
1" = 40'	y:\rt projects\73000 series\73057-02\figures_2007.dwg	

DATE 4/21/2020



RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 9
SHALLOW GW FLOW MAP
JUNE 18, 2020

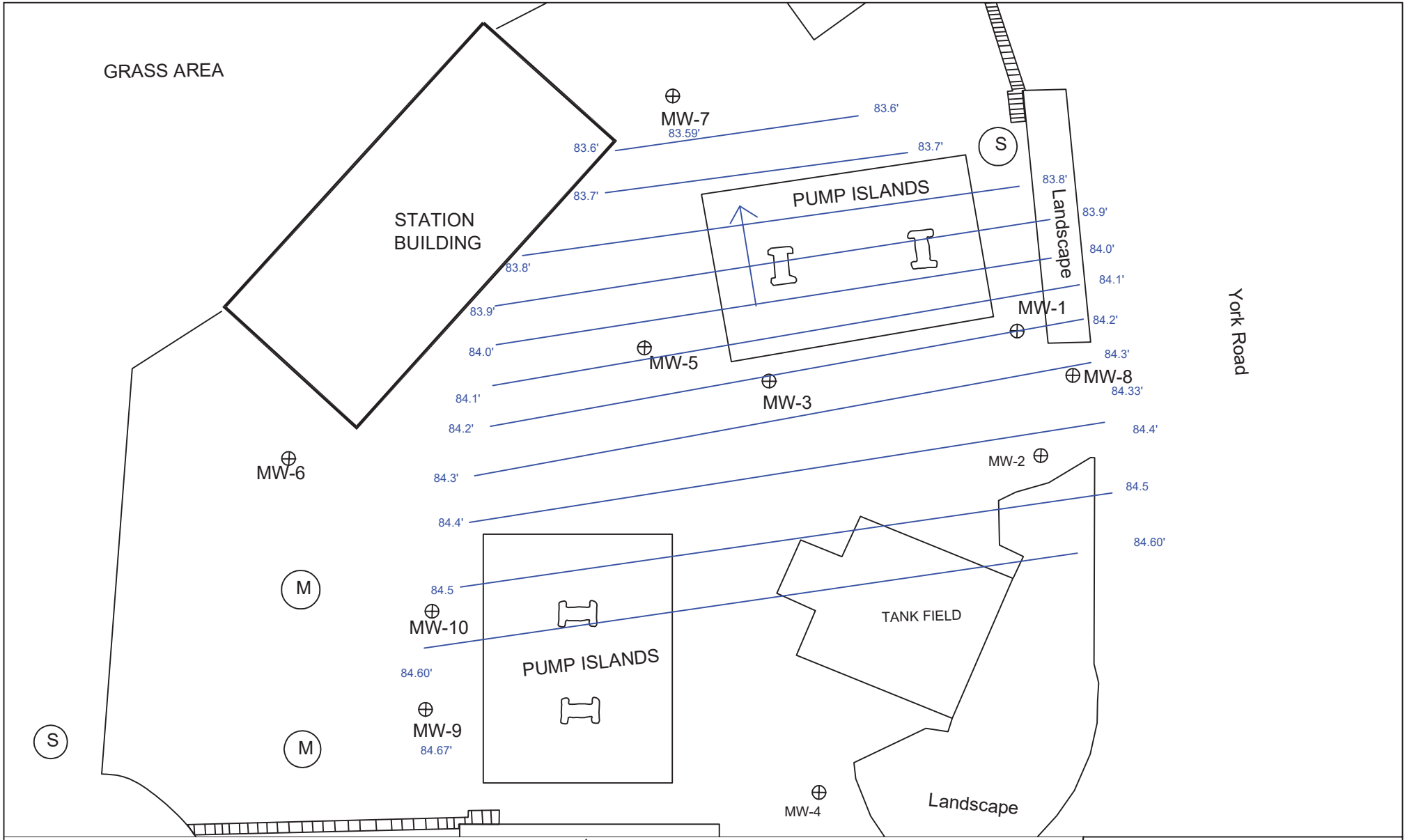
610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-02				AS

SCALE	DRAWING NUMBER	REVISION
1" = 40'	y:\rt projects\73000 series\73057-02\figures_2007.dwg	

DATE 7/2/2020



RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 10
DEEP GW FLOW MAP
JUNE 18, 2020

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
73057-02				AS

SCALE	DRAWING NUMBER	REVISION
1" = 40'	y:\rt projects\73000 series\73057-02\figures_2007.dwg[1]	

DATE 7/2/2020

TABLES

Table 1
Summary of Laboratory Analytical Results
Attainment Soil Sampling
July 26, 2019
Finch Petroleum, LLC
610 York Road
Warminster Township, Bucks County, Pennsylvania
RT Project Number: 73057-01

Analyte[1]			Constituents[2]								
			Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	1, 2, 4-Trimethylbenzene	1, 3, 5-Trimethylbenzene	Total Xylenes
PADEP RSG MSC[3]			0.5	70	600	2	25	100	8.4	74	1,000
Soil SHS VI Screening Values (mg/kg)[4]			0.13	46	600	0.28	25	44	8.4	74	990
Sample ID	Date Sampled	Sample Depth (Feet)									
CS-1	7/26/2019	10.0	<0.012	<0.018	<0.019	<0.0077	<0.052	<0.015	<0.014	<0.015	<0.017
CS-2	7/26/2019	8.0	<0.0086	0.013	<0.014	<0.0055	0.068	0.072	0.067	0.031	0.17
CS-3	7/26/2019	10.0	<0.011	<0.016	<0.017	<0.0070	<0.048	<0.014	<0.012	<0.014	0.017
CS-4	7/26/2019	6.0	<0.012	<0.017	<0.018	<0.0075	<0.050	<0.014	<0.013	<0.014	<0.016
CS-5	7/26/2019	6.0	<0.088	<0.013	<0.014	<0.0057	<0.038	<0.011	<0.010	<0.011	<0.012
CS-6	7/26/2019	7.0	<0.0099	<0.015	<0.016	<0.0064	<0.043	<0.012	<0.011	<0.012	<0.014
CS-7	7/26/2019	12.0	<0.018	<0.027	<0.028	<0.012	<0.078	0.048	0.85	0.49	1.0
CS-8	7/26/2019	11.0	<0.012	<0.017	<0.019	<0.0076	<0.051	0.026	<0.013	<0.015	0.023
CS-9	7/26/2019	5.0	<0.0098	<0.015	<0.016	<0.0063	<0.043	<0.012	<0.011	<0.012	<0.014
CS-10	7/26/2019	12.0	<0.0097	<0.014	<0.015	<0.0062	<0.042	<0.012	<0.011	<0.012	<0.013
CS-11	7/26/2019	9.0	<0.011	<0.016	<0.017	<0.0070	<0.047	<0.013	<0.012	<0.013	<0.015
CS-12	7/26/2019	8.0	<0.010	<0.016	<0.017	<0.0067	<0.046	<0.013	<0.012	<0.013	<0.014
PADEP RSG MSC[3]			0.5	70	600	2	25	100	8.4	74	1,000

Notes:

(1) - Soil samples were analyzed for the PADEP short list of required unleaded gasoline parameters.

(2) - All laboratory results reported in milligrams per kilogram (mg/kg).

(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Medium-Specific Concentrations (August 27, 2016).

MSC - Medium-Specific Concentration

PADEP - Pennsylvania Department of Environmental Protection

RSG - Residential Soil-to-Groundwater

<0.00016 - Compound not detected above the listed laboratory detection limit

Bold - Compound was reported above its Act 2 residential MSC.

Table 2
Summary of Laboratory Analytical Results
Excavation Groundwater Sample
July 19, 2019
Finch Petroleum, LLC
610 York Road
Warminster Township, Bucks County, Pennsylvania
RT Project Number: 73057-01

Sample ID:	Direct Contact Residential	Direct Contact Non-Residential	W-1
Lab ID:			460-187013-1
Sample Date:			7/19/2019
1,2,4-Trimethylbenzene	15	62	**2,000**
1,3,5-Trimethylbenzene	420	1200	**510**
Benzene	5	5	**5,300**
Ethylbenzene	700	700	**1,900**
Isopropylbenzene	840	3500	93
MTBE	20	20	**61**
Naphthalene	100	100	**500**
Toluene	1000	1000	**27,000**
Xylenes, Total	10000	10000	**16,000**

Notes:
Direct Contact R = MSC (Residential Used Aquifer TDS =< 2500)
Direct Contact NR = MSC (NonResidential Used Aquifer TDS =< 2500)
Bold and Highlighted = Detection over the lowest standard
Bold = Detection
Site specific standard 12 ug/L benzene

Table 3
Summary of Laboratory Analytical Results for Monitoring Wells
Quarterly Monitoring Results
SUNOCO STATION # 0363-5430
Finch Petroleum, LLC
610 York Road
Warminster Township
Bucks County, Pennsylvania
RT Project No. 73057-02

Analyte[1]		Constituents[2]								
		Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	1, 2, 4-Trimethylbenzene	1, 3, 5-Trimethylbenzene	Total Xylenes
PADEP NRSG MSC[3]		**5**	**700**	**3,500**	**20**	**100**	**1,000**	**62**	**1,200**	**10,000**
Vapor Intrusion Screening Values (SVss)[4]		**2,000**	**6,300**	**220,000**	**61,000**	**460**	**2,800,000**	**3,900**	**3,900**	**56,000**
1/10 Vapor Intrusion Screening Values		**200**	**630**	**22,000**	**6,100**	**46**	**280,000**	**390**	**390**	**5,600**
Sample ID	Date Sampled									
MW-1	1/15/2020	<0.20	<0.30	<0.34	<0.47	<0.88	0.56	<0.37	<0.33	1.20
	6/18/2020	<0.20	<0.30	<0.34	<0.47	<0.88	<0.38	<0.37	<0.33	<0.65
MW-2	1/15/2020	0.46	0.34	<0.34	<0.47	<0.88	0.51	<0.37	<0.33	1
	6/18/2020	**13**	60	20	<0.47	5.5	70	58	9.1	190
MW-3	1/17/2020	**810**	**1,300**	79	<9.3	**290**	**1,800**	**1,100**	270	6,200
	6/18/2020	**520**	**840**	72	3.0	**180**	140	**1,000**	73	1,300
MW-4	Product									
	1/31/2020	**3,800**	**2,500**	110	<12	**360**	**2,400**	**1,700**	450	**16,000**
	6/18/2020	**1,600**	**1,500**	73	<9.3	**310**	430	**1,400**	350	8,100
MW-5	Product									
	1/31/2020	**750**	**1,100**	78	<9.3	**220**	**1,400**	**1,000**	250	5,500
	6/18/2020	**370**	620	54	<2.3	**110**	300	680	76	1,600
MW-6	1/17/2020	**1,100**	**1,300**	61	<9.3	**210**	**1,800**	**920**	230	6,800
	6/18/2020	**440**	960	52	<4.7	160	690	890	140	3,700
MW-7	1/15/2020	<0.20	<0.30	<0.34	2.8	<0.88	<0.38	<0.37	<0.33	<0.65
	6/18/2020	**6.60**	<0.30	<0.34	2.70	<0.88	<0.38	<0.37	<0.33	<0.65
MW-8	Well Casing Blocked									
	1/31/2020	**150**	4.6	7.7	2.6	2.4	2.9	0.5	<0.33	21
	6/18/2020	**300**	94	19	2.1	40	60	**170**	26	540
MW-9	1/17/2020	**98**	9	5.3	2.0	6.2	8.9	13	2.6	31.0
	6/18/2020	**270**	68	15	2.0	33	52	**130**	18	440
MW-10	Product									
	1/31/2020	**2,900**	**2,200**	89	<9.3	**340**	**7,100**	**1,300**	330	**13,000**
	6/18/2020	**2,000**	**2,000**	83	<9.3	**280**	**3,200**	**1,400**	330	**11,000**

Notes:

(1) - Well samples were analyzed for the PADEP short list of required unleaded gasoline parameters.

(2) - All laboratory results reported in micrograms per liter (µg/L).

(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Non-Residential Medium-Specific Concentrations (August 27, 2016).

(4) - Sub-Slab Soil Gas Non-Residential Statewide Health Standard Screenig Values (SV_{SS}) in µg/m^3 - Effective January 18, 2017.

MSC - Medium-Specific Concentration

PADEP - Pennsylvania Department of Environmental Protection

RSG - Residential Soil-to-Groundwater

<1.0 - Compound not detected above the listed laboratory method detection limit

Bold - Compound was reported above its Act 2 residential MSC.

Table 4
GROUNDWATER ELEVATION TABLE
Warminster Sunoco
610 York Road
Warminster, PA
RT PROJECT # 73057-02

Monitoring Well	Date	Top of Casing Elevation (feet)	Total Well Depth (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	10/4/2004	97.77		12.55	85.22
	1/15/2020		18.76	9.1	88.67
	4/16/2020			7.8	89.97
	6/18/2020			11	86.77
MW-2	10/4/2004	98.31		13.24	85.07
	1/15/2020		24.00	9.72	88.59
	4/16/2020			8.55	89.76
	6/18/2020			11.55	86.76
MW-3	10/4/2004	98.78		13.92	84.86
	1/15/2020		24.48	11.2	87.58
	4/16/2020			9.82	88.96
	6/18/2020			13	85.78
MW-4	10/4/2004	98.94		13.99	84.95
	8/29/2019			14.15	84.79
	1/15/2020		25.32	11.31	87.63
	4/16/2020			10.02	88.92
	6/18/2020			13.01	85.93
MW-5	7/8/2009	99.55		11.72	87.83
	8/29/2019			14.9	84.65
	1/15/2020		50.78	12.11	87.44
	4/16/2020			10.6	88.95
	6/18/2020			13.61	85.94
MW-6	7/8/2009	99.72		11.93	87.79
	8/29/2019			14.3	85.42
	1/15/2020		45.25	12.05	87.67
	4/16/2020			10.75	88.97
	6/18/2020			13.71	86.01
MW-7	7/8/2009	99.20		15.99	83.21
	8/29/2019			16.3	82.9
	1/15/2020		100.00	14.05	85.15
	4/16/2020			12.8	86.4
	6/18/2020			15.61	83.59
MW-8	7/8/2009	97.78		14.55	83.23
	8/29/2019			14.3	83.48
	1/15/2020		100.00	11.92	85.86
	4/16/2020			10.65	87.13
	6/18/2020			13.45	84.33
MW-9	7/8/2009	98.68		15.27	83.41
	8/29/2019			14.65	84.03
	1/15/2020		88.39	12.43	86.25
	4/16/2020			11.21	87.47
	6/18/2020			14.01	84.67
MW-10	7/8/2009	98.44		11.49	86.95
	1/15/2020		49.35	11.89	86.55
	4/16/2020			10.35	88.09
	6/18/2020			13.35	85.09

TABLE 5: Sub-slab Soil Gas
Warminster Sunoco
Warminster, Pennsylvania
RT PROJECT # 73057-01

Sample Location	PADEP Sub-slab Soil Gas Nonresidential SV_{ss}	SG-2			
Sample Date:		5/26/2020		7/13/2020	
1,2,4-Trimethylbenzene	3900	1	U	10	U
1,3,5-Trimethylbenzene	3900	1	U	10	U
Benzene	2000	0.6	U	6	U
Cumene	220000	1	U	10	U
Ethylbenzene	6300	1		9	U
Methyl tert-butyl ether	61000	0.7	U	7	U
Naphthalene	460	6		26	U
Toluene	2800000	2		8	U
Xylene (total)	56000	4		30	U

Notes:
All concentrations in ug/m3
Highlight values exceed SV_{ss}
U : Indicates the analyte was analyzed for but not detected.

APPENDICES

APPENDIX A

Laboratory Reports

Soil

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-187530-1
Client Project/Site: Warminster Sunoco

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Authorized for release by:
7/29/2019 11:46:47 AM
Elizabeth Flannery, Project Manager I
(732)549-3900
elizabeth.flannery@testamericainc.com

Designee for

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Method Summary 16
Sample Summary 17
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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187530-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-187530-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-187530-1

Comments
No additional comments.

Receipt
The samples were received on 7/26/2019 11:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

Receipt Exceptions

The dry weight containers were received with no label or ID on container. Each seperate dry weight container was received with a MeOH vial that is labeled for each sample.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: CS-1

Lab Sample ID: 460-187530-1

Date Collected: 07/26/19 09:25
Date Received: 07/26/19 11:05

Matrix: Solid
Percent Solids: 78.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.012	U	0.059	0.012	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
Toluene	0.015	U	0.059	0.015	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
Ethylbenzene	0.018	U	0.059	0.018	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
Xylenes, Total	0.017	U	0.12	0.017	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
MTBE	0.0077	U	0.059	0.0077	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
Naphthalene	0.052	U	0.059	0.052	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
1,2,4-Trimethylbenzene	0.014	U	0.059	0.014	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
1,3,5-Trimethylbenzene	0.015	U	0.059	0.015	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50
Isopropylbenzene	0.019	U	0.059	0.019	mg/Kg	☼	07/27/19 13:34	07/28/19 10:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*69 - 143*	*07/27/19 13:34*	*07/28/19 10:00*	*50*
Toluene-d8 (Surr)	*100*		*67 - 127*	*07/27/19 13:34*	*07/28/19 10:00*	*50*
Bromofluorobenzene	*95*		*61 - 137*	*07/27/19 13:34*	*07/28/19 10:00*	*50*
Dibromofluoromethane (Surr)	*100*		*61 - 135*	*07/27/19 13:34*	*07/28/19 10:00*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.0**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**78.0**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-2

Lab Sample ID: 460-187530-2

Date Collected: 07/26/19 08:55
Date Received: 07/26/19 11:05

Matrix: Solid
Percent Solids: 82.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0086	U	0.042	0.0086	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
Toluene	**0.072**		0.042	0.011	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
Ethylbenzene	**0.013**	**J**	0.042	0.013	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
Xylenes, Total	**0.17**		0.085	0.012	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
MTBE	0.0055	U	0.042	0.0055	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
Naphthalene	**0.068**		0.042	0.037	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
1,2,4-Trimethylbenzene	**0.067**		0.042	0.0098	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
1,3,5-Trimethylbenzene	**0.031**	**J**	0.042	0.011	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50
Isopropylbenzene	0.014	U	0.042	0.014	mg/Kg	☼	07/27/19 13:34	07/28/19 13:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*69 - 143*	*07/27/19 13:34*	*07/28/19 13:51*	*50*
Toluene-d8 (Surr)	*101*		*67 - 127*	*07/27/19 13:34*	*07/28/19 13:51*	*50*
Bromofluorobenzene	*98*		*61 - 137*	*07/27/19 13:34*	*07/28/19 13:51*	*50*
Dibromofluoromethane (Surr)	*102*		*61 - 135*	*07/27/19 13:34*	*07/28/19 13:51*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.0**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**82.0**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-3

Date Collected: 07/26/19 09:51
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-3

Matrix: Solid
Percent Solids: 82.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.011	U	0.054	0.011	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
Toluene	0.014	U	0.054	0.014	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
Ethylbenzene	0.016	U	0.054	0.016	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
Xylenes, Total	**0.017**	**J**	0.11	0.015	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
MTBE	0.0070	U	0.054	0.0070	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
Naphthalene	0.048	U	0.054	0.048	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
1,2,4-Trimethylbenzene	0.012	U	0.054	0.012	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
1,3,5-Trimethylbenzene	0.014	U	0.054	0.014	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50
Isopropylbenzene	0.017	U	0.054	0.017	mg/Kg	☼	07/27/19 13:34	07/28/19 10:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*69 - 143*	*07/27/19 13:34*	*07/28/19 10:26*	*50*
Toluene-d8 (Surr)	*103*		*67 - 127*	*07/27/19 13:34*	*07/28/19 10:26*	*50*
Bromofluorobenzene	*95*		*61 - 137*	*07/27/19 13:34*	*07/28/19 10:26*	*50*
Dibromofluoromethane (Surr)	*102*		*61 - 135*	*07/27/19 13:34*	*07/28/19 10:26*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.8**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**82.2**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-4

Date Collected: 07/26/19 10:08
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-4

Matrix: Solid
Percent Solids: 77.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.012	U	0.057	0.012	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
Toluene	0.014	U	0.057	0.014	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
Ethylbenzene	0.017	U	0.057	0.017	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
Xylenes, Total	0.016	U	0.11	0.016	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
MTBE	0.0075	U	0.057	0.0075	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
Naphthalene	0.050	U	0.057	0.050	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
1,2,4-Trimethylbenzene	0.013	U	0.057	0.013	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
1,3,5-Trimethylbenzene	0.014	U	0.057	0.014	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50
Isopropylbenzene	0.018	U	0.057	0.018	mg/Kg	☼	07/27/19 13:35	07/28/19 10:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*69 - 143*	*07/27/19 13:35*	*07/28/19 10:51*	*50*
Toluene-d8 (Surr)	*104*		*67 - 127*	*07/27/19 13:35*	*07/28/19 10:51*	*50*
Bromofluorobenzene	*96*		*61 - 137*	*07/27/19 13:35*	*07/28/19 10:51*	*50*
Dibromofluoromethane (Surr)	*102*		*61 - 135*	*07/27/19 13:35*	*07/28/19 10:51*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.0**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**77.0**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-5

Lab Sample ID: 460-187530-5

Date Collected: 07/26/19 09:45
Matrix: Solid
Date Received: 07/26/19 11:05
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0088	U	0.044	0.0088	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
Toluene	0.011	U	0.044	0.011	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
Ethylbenzene	0.013	U	0.044	0.013	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
Xylenes, Total	0.012	U	0.087	0.012	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
MTBE	0.0057	U	0.044	0.0057	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
Naphthalene	0.038	U	0.044	0.038	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
1,2,4-Trimethylbenzene	0.010	U	0.044	0.010	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
1,3,5-Trimethylbenzene	0.011	U	0.044	0.011	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50
Isopropylbenzene	0.014	U	0.044	0.014	mg/Kg	☼	07/27/19 13:35	07/28/19 11:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*69 - 143*	*07/27/19 13:35*	*07/28/19 11:17*	*50*
Toluene-d8 (Surr)	*101*		*67 - 127*	*07/27/19 13:35*	*07/28/19 11:17*	*50*
Bromofluorobenzene	*92*		*61 - 137*	*07/27/19 13:35*	*07/28/19 11:17*	*50*
Dibromofluoromethane (Surr)	*100*		*61 - 135*	*07/27/19 13:35*	*07/28/19 11:17*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.7**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**83.3**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-6

Lab Sample ID: 460-187530-6

Date Collected: 07/26/19 10:13
Matrix: Solid
Date Received: 07/26/19 11:05
Percent Solids: 82.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0099	U	0.049	0.0099	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
Toluene	0.012	U	0.049	0.012	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
Ethylbenzene	0.015	U	0.049	0.015	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
Xylenes, Total	0.014	U	0.098	0.014	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
MTBE	0.0064	U	0.049	0.0064	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
Naphthalene	0.043	U	0.049	0.043	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
1,2,4-Trimethylbenzene	0.011	U	0.049	0.011	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
1,3,5-Trimethylbenzene	0.012	U	0.049	0.012	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50
Isopropylbenzene	0.016	U	0.049	0.016	mg/Kg	☼	07/27/19 13:35	07/28/19 11:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*69 - 143*	*07/27/19 13:35*	*07/28/19 11:43*	*50*
Toluene-d8 (Surr)	*100*		*67 - 127*	*07/27/19 13:35*	*07/28/19 11:43*	*50*
Bromofluorobenzene	*94*		*61 - 137*	*07/27/19 13:35*	*07/28/19 11:43*	*50*
Dibromofluoromethane (Surr)	*101*		*61 - 135*	*07/27/19 13:35*	*07/28/19 11:43*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.3**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**82.7**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-7

Date Collected: 07/26/19 09:30
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-7

Matrix: Solid
Percent Solids: 84.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.018	U	0.089	0.018	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
Toluene	**0.048**	**J**	0.089	0.022	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
Ethylbenzene	0.027	U	0.089	0.027	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
Xylenes, Total	**1.0**		0.18	0.025	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
MTBE	0.012	U	0.089	0.012	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
Naphthalene	0.078	U	0.089	0.078	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
1,2,4-Trimethylbenzene	**0.85**		0.089	0.020	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
1,3,5-Trimethylbenzene	**0.49**		0.089	0.022	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50
Isopropylbenzene	0.028	U	0.089	0.028	mg/Kg	☼	07/27/19 13:36	07/28/19 14:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*69 - 143*	*07/27/19 13:36*	*07/28/19 14:17*	*50*
Toluene-d8 (Surr)	*102*		*67 - 127*	*07/27/19 13:36*	*07/28/19 14:17*	*50*
Bromofluorobenzene	*96*		*61 - 137*	*07/27/19 13:36*	*07/28/19 14:17*	*50*
Dibromofluoromethane (Surr)	*100*		*61 - 135*	*07/27/19 13:36*	*07/28/19 14:17*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**84.5**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-8

Date Collected: 07/26/19 10:00
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-8

Matrix: Solid
Percent Solids: 83.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.012	U	0.058	0.012	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
Toluene	**0.026**	**J**	0.058	0.015	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
Ethylbenzene	0.017	U	0.058	0.017	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
Xylenes, Total	**0.023**	**J**	0.12	0.016	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
MTBE	0.0076	U	0.058	0.0076	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
Naphthalene	0.051	U	0.058	0.051	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
1,2,4-Trimethylbenzene	0.013	U	0.058	0.013	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
1,3,5-Trimethylbenzene	0.015	U	0.058	0.015	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50
Isopropylbenzene	0.019	U	0.058	0.019	mg/Kg	☼	07/27/19 13:36	07/28/19 12:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*69 - 143*	*07/27/19 13:36*	*07/28/19 12:08*	*50*
Toluene-d8 (Surr)	*102*		*67 - 127*	*07/27/19 13:36*	*07/28/19 12:08*	*50*
Bromofluorobenzene	*99*		*61 - 137*	*07/27/19 13:36*	*07/28/19 12:08*	*50*
Dibromofluoromethane (Surr)	*101*		*61 - 135*	*07/27/19 13:36*	*07/28/19 12:08*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.5**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**83.5**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-9

Lab Sample ID: 460-187530-9

Date Collected: 07/26/19 09:40
Matrix: Solid
Date Received: 07/26/19 11:05
Percent Solids: 83.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0098	U	0.049	0.0098	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
Toluene	0.012	U	0.049	0.012	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
Ethylbenzene	0.015	U	0.049	0.015	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
Xylenes, Total	0.014	U	0.097	0.014	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
MTBE	0.0063	U	0.049	0.0063	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
Naphthalene	0.043	U	0.049	0.043	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
1,2,4-Trimethylbenzene	0.011	U	0.049	0.011	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
1,3,5-Trimethylbenzene	0.012	U	0.049	0.012	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50
Isopropylbenzene	0.016	U	0.049	0.016	mg/Kg	☼	07/27/19 13:36	07/28/19 12:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*69 - 143*	*07/27/19 13:36*	*07/28/19 12:34*	*50*
Toluene-d8 (Surr)	*101*		*67 - 127*	*07/27/19 13:36*	*07/28/19 12:34*	*50*
Bromofluorobenzene	*94*		*61 - 137*	*07/27/19 13:36*	*07/28/19 12:34*	*50*
Dibromofluoromethane (Surr)	*103*		*61 - 135*	*07/27/19 13:36*	*07/28/19 12:34*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.2**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**83.8**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-10

Lab Sample ID: 460-187530-10

Date Collected: 07/26/19 10:03
Matrix: Solid
Date Received: 07/26/19 11:05
Percent Solids: 84.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0097	U	0.048	0.0097	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
Toluene	0.012	U	0.048	0.012	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
Ethylbenzene	0.014	U	0.048	0.014	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
Xylenes, Total	0.013	U	0.096	0.013	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
MTBE	0.0062	U	0.048	0.0062	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
Naphthalene	0.042	U	0.048	0.042	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
1,2,4-Trimethylbenzene	0.011	U	0.048	0.011	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
1,3,5-Trimethylbenzene	0.012	U	0.048	0.012	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50
Isopropylbenzene	0.015	U	0.048	0.015	mg/Kg	☼	07/27/19 13:37	07/28/19 13:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*69 - 143*	*07/27/19 13:37*	*07/28/19 13:00*	*50*
Toluene-d8 (Surr)	*100*		*67 - 127*	*07/27/19 13:37*	*07/28/19 13:00*	*50*
Bromofluorobenzene	*94*		*61 - 137*	*07/27/19 13:37*	*07/28/19 13:00*	*50*
Dibromofluoromethane (Surr)	*100*		*61 - 135*	*07/27/19 13:37*	*07/28/19 13:00*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**84.8**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-11

Lab Sample ID: 460-187530-11

Date Collected: 07/26/19 10:10

Matrix: Solid

Date Received: 07/26/19 11:05

Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.011	U	0.054	0.011	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
Toluene	0.013	U	0.054	0.013	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
Ethylbenzene	0.016	U	0.054	0.016	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
Xylenes, Total	0.015	U	0.11	0.015	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
MTBE	0.0070	U	0.054	0.0070	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
Naphthalene	0.047	U	0.054	0.047	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
1,2,4-Trimethylbenzene	0.012	U	0.054	0.012	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
1,3,5-Trimethylbenzene	0.013	U	0.054	0.013	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50
Isopropylbenzene	0.017	U	0.054	0.017	mg/Kg	☼	07/27/19 13:37	07/28/19 13:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*69 - 143*	*07/27/19 13:37*	*07/28/19 13:25*	*50*
Toluene-d8 (Surr)	*100*		*67 - 127*	*07/27/19 13:37*	*07/28/19 13:25*	*50*
Bromofluorobenzene	*92*		*61 - 137*	*07/27/19 13:37*	*07/28/19 13:25*	*50*
Dibromofluoromethane (Surr)	*99*		*61 - 135*	*07/27/19 13:37*	*07/28/19 13:25*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**79.1**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-12

Lab Sample ID: 460-187530-12

Date Collected: 07/26/19 09:55

Matrix: Solid

Date Received: 07/26/19 11:05

Percent Solids: 80.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.010	U	0.052	0.010	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
Toluene	0.013	U	0.052	0.013	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
Ethylbenzene	0.016	U	0.052	0.016	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
Xylenes, Total	0.014	U	0.10	0.014	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
MTBE	0.0067	U	0.052	0.0067	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
Naphthalene	0.046	U	0.052	0.046	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
1,2,4-Trimethylbenzene	0.012	U	0.052	0.012	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
1,3,5-Trimethylbenzene	0.013	U	0.052	0.013	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50
Isopropylbenzene	0.017	U	0.052	0.017	mg/Kg	☼	07/27/19 13:37	07/28/19 14:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*69 - 143*	*07/27/19 13:37*	*07/28/19 14:42*	*50*
Toluene-d8 (Surr)	*102*		*67 - 127*	*07/27/19 13:37*	*07/28/19 14:42*	*50*
Bromofluorobenzene	*96*		*61 - 137*	*07/27/19 13:37*	*07/28/19 14:42*	*50*
Dibromofluoromethane (Surr)	*104*		*61 - 135*	*07/27/19 13:37*	*07/28/19 14:42*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.8**		1.0	1.0	%			07/28/19 14:50	1
Percent Solids	**80.2**		1.0	1.0	%			07/28/19 14:50	1

Client Sample ID: CS-1 — **Lab Sample ID: 460-187530-1**
Date Collected: 07/26/19 09:25 — **Matrix: Solid**
Date Received: 07/26/19 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-1 — **Lab Sample ID: 460-187530-1**
Date Collected: 07/26/19 09:25 — **Matrix: Solid**
Date Received: 07/26/19 11:05 — **Percent Solids: 78.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:34	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 10:00	AAT	TAL EDI

Client Sample ID: CS-2 — **Lab Sample ID: 460-187530-2**
Date Collected: 07/26/19 08:55 — **Matrix: Solid**
Date Received: 07/26/19 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-2 — **Lab Sample ID: 460-187530-2**
Date Collected: 07/26/19 08:55 — **Matrix: Solid**
Date Received: 07/26/19 11:05 — **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:34	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 13:51	AAT	TAL EDI

Client Sample ID: CS-3 — **Lab Sample ID: 460-187530-3**
Date Collected: 07/26/19 09:51 — **Matrix: Solid**
Date Received: 07/26/19 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-3 — **Lab Sample ID: 460-187530-3**
Date Collected: 07/26/19 09:51 — **Matrix: Solid**
Date Received: 07/26/19 11:05 — **Percent Solids: 82.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:34	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 10:26	AAT	TAL EDI

Client Sample ID: CS-4 — **Lab Sample ID: 460-187530-4**
Date Collected: 07/26/19 10:08 — **Matrix: Solid**
Date Received: 07/26/19 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187530-1

Client Sample ID: CS-4
Date Collected: 07/26/19 10:08
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-4
Matrix: Solid
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:35	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 10:51	AAT	TAL EDI

Client Sample ID: CS-5
Date Collected: 07/26/19 09:45
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-5
Date Collected: 07/26/19 09:45
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-5
Matrix: Solid
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:35	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 11:17	AAT	TAL EDI

Client Sample ID: CS-6
Date Collected: 07/26/19 10:13
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-6
Date Collected: 07/26/19 10:13
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-6
Matrix: Solid
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:35	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 11:43	AAT	TAL EDI

Client Sample ID: CS-7
Date Collected: 07/26/19 09:30
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187530-1

Client Sample ID: CS-7
Date Collected: 07/26/19 09:30
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-7
Matrix: Solid
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:36	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 14:17	AAT	TAL EDI

Client Sample ID: CS-8
Date Collected: 07/26/19 10:00
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-8
Date Collected: 07/26/19 10:00
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-8
Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:36	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 12:08	AAT	TAL EDI

Client Sample ID: CS-9
Date Collected: 07/26/19 09:40
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-9
Date Collected: 07/26/19 09:40
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-9
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:36	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 12:34	AAT	TAL EDI

Client Sample ID: CS-10
Date Collected: 07/26/19 10:03
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187530-1

Client Sample ID: CS-10
Date Collected: 07/26/19 10:03
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-10
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:37	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 13:00	AAT	TAL EDI

Client Sample ID: CS-11
Date Collected: 07/26/19 10:10
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-11
Date Collected: 07/26/19 10:10
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-11
Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:37	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 13:25	AAT	TAL EDI

Client Sample ID: CS-12
Date Collected: 07/26/19 09:55
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627856	07/28/19 14:50	APV	TAL EDI

Client Sample ID: CS-12
Date Collected: 07/26/19 09:55
Date Received: 07/26/19 11:05

Lab Sample ID: 460-187530-12
Matrix: Solid
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627728	07/27/19 13:37	DBM	TAL EDI
Total/NA	Analysis	8260C		50	627788	07/28/19 14:42	AAT	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-187530-1
Project/Site: Warminster Sunoco

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State		PH-0200	09-30-20
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-20
New Jersey	NELAP		12028	06-30-20
New York	NELAP	2	11452	04-01-20
New York	NELAP		11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Pennsylvania	NELAP		68-00522	02-28-20
Rhode Island	State		LAO00132	12-30-19
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21
USDA	US Federal Programs		P330-18-00135	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187530-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-187530-1	CS-1	Solid	07/26/19 09:25	07/26/19 11:05	
460-187530-2	CS-2	Solid	07/26/19 08:55	07/26/19 11:05	
460-187530-3	CS-3	Solid	07/26/19 09:51	07/26/19 11:05	
460-187530-4	CS-4	Solid	07/26/19 10:08	07/26/19 11:05	
460-187530-5	CS-5	Solid	07/26/19 09:45	07/26/19 11:05	
460-187530-6	CS-6	Solid	07/26/19 10:13	07/26/19 11:05	
460-187530-7	CS-7	Solid	07/26/19 09:30	07/26/19 11:05	
460-187530-8	CS-8	Solid	07/26/19 10:00	07/26/19 11:05	
460-187530-9	CS-9	Solid	07/26/19 09:40	07/26/19 11:05	
460-187530-10	CS-10	Solid	07/26/19 10:03	07/26/19 11:05	
460-187530-11	CS-11	Solid	07/26/19 10:10	07/26/19 11:05	
460-187530-12	CS-12	Solid	07/26/19 09:55	07/26/19 11:05	

Chain of Custody Record

356385

3.7 "KOP-2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Herr	Site Contact: Aaron Schneider	Date: 7/26/19	COC No:
Company Name: RT ENV	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address:	Analysis Turnaround Time			Sampler: Aaron Schneider
City/State/Zip: KOP, PA	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 10 Days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Warminster Sunoco	☐ 1 week			
Site: Warminster Sunoco	☐ 2 days			Job / SDG No.:
PO# 73057-01-01	☐ 1 day			187530

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N) PADEP VL	Sample Specific Notes:
CS-1	7/26/19	9:25	G	Soil	2		X	
CS-2		8:55			2		X	
CS-3		9:51			2		X	
CS-4		10:08			2		X	
CS-5		9:45			2		X	
CS-6		10:13			2		X	
CS-7		9:30			2		X	
CS-8		10:00			2		X	
CS-9		9:40			2		X	
CS-10		10:03			2		X	
CS-11		10:10			2		X	
CS-12		9:55			2		X	

460-187530 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH 16

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	RT ENV	7/26/19 1105		TA-KOP	7/26/19 1105
Relinquished by:	TA-KOP	7/26/19		ENV	7/26/19 1700
Relinquished by:	ENV	7/26/19 1900	Received in Laboratory by:	TAKOP	7/26/19 1900

7/29/2019

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 187530

Number of Coolers: 1 IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.7 °C	3.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 7/26/19

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc. Job Number: 460-187530-1

Login Number: 187530 **List Source: Eurofins TestAmerica, Edison**
List Number: 1
Creator: Keehn, Jeffrey S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Groundwater

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-187013-1
Client Project/Site: Warminster Sunoco

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Jill Miller

Authorized for release by:
7/22/2019 2:18:17 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187013-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-187013-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-187013-1

Comments
No additional comments.

Receipt
The sample was received on 7/19/2019 1:33 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method(s) 8260C: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following CCVIS contained an allowable number of surrogate compounds outside limits: (CCVIS 460-626107/3). These results have been reported and qualified.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: W-1 (460-187013-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187013-1

Client Sample ID: W-1
Date Collected: 07/19/19 09:00
Date Received: 07/19/19 13:33

Lab Sample ID: 460-187013-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5300		100	20	ug/L			07/21/19 17:29	100
Toluene	27000		100	38	ug/L			07/21/19 17:29	100
Ethylbenzene	1900		100	30	ug/L			07/21/19 17:29	100
Xylenes, Total	16000		200	65	ug/L			07/21/19 17:29	100
MTBE	61	J	100	47	ug/L			07/21/19 17:29	100
Naphthalene	500		100	88	ug/L			07/21/19 17:29	100
1,2,4-Trimethylbenzene	2000		100	37	ug/L			07/21/19 17:29	100
1,3,5-Trimethylbenzene	510		100	33	ug/L			07/21/19 17:29	100
Isopropylbenzene	93	J	100	34	ug/L			07/21/19 17:29	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*74 - 132*		*07/21/19 17:29*	*100*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/19 17:29*	*100*
Bromofluorobenzene	*95*		*77 - 124*		*07/21/19 17:29*	*100*
Dibromofluoromethane (Surr)	*90*		*72 - 131*		*07/21/19 17:29*	*100*

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187013-1

Client Sample ID: W-1

Date Collected: 07/19/19 09:00
Date Received: 07/19/19 13:33

Lab Sample ID: 460-187013-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	626107	07/21/19 17:29	VBP	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-187013-1
Project/Site: Warminster Sunoco

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State		PH-0200	09-30-20
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-20
New Jersey	NELAP		12028	06-30-20
New York	NELAP	2	11452	04-01-20
New York	NELAP		11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Pennsylvania	NELAP		68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187013-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-187013-1	W-1	Water	07/19/19 09:00	07/19/19 13:33	

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

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THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

2.0 · KOP-2

Page ___ of ___

Name (for report and invoice) A. Schneider, C. Herr	Samplers Name (Printed) A. Schneider	Site/Project Identification Warminster Sunoco
Company RT Environmental	P. O. #	State (Location of site): NJ: ☐ NY: ☐ Other: PA
		Regulatory Program: PADEP DKQP: ☐
Address	Analysis Turnaround Time: Standard ☐	LAB USE ONLY Project No:
City KOP State PA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐ 24 hr	Job No: 187013
Phone Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	PADEP UL										Sample Numbers
W-1	7/19/19	9:00	GW	3	X										

460-187013 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil: | Water: 1, 2

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

	Relinquished by	Company	Date / Time	Received by	Company
1)		RT Env	7/19/19 13:35		TA-KOP
2)		TA KOP	7/19/19		TA 7/19/19 1500
3)		TA	7/19/19 1900		TA 7/19/19 1900
4)	Relinquished by	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 187013

Number of Coolers: 1 IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.0 °C	2.0 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 7/19/19

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-187013-1

Login Number: 187013
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Clean Earth Profiling Reports

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-186928-1
Client Project/Site: Warminster UST

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Sue Miller

Authorized for release by:
7/19/2019 2:01:56 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster UST

Job ID: 460-186928-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: RT Environmental Services, Inc.
Project/Site: Warminster UST

Job ID: 460-186928-1

Job ID: 460-186928-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-186928-1

Comments
No additional comments.

Receipt
The sample was received on 7/18/2019 3:25 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: RT Environmental Services, Inc.
Project/Site: Warminster UST

Job ID: 460-186928-1

Client Sample ID: P-1
Date Collected: 07/18/19 14:16
Date Received: 07/18/19 15:25

Lab Sample ID: 460-186928-1
Matrix: Solid
Percent Solids: 93.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0070	U	0.035	0.0070	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
Toluene	**0.016**	**J**	0.035	0.0087	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
Ethylbenzene	0.010	U	0.035	0.010	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
Xylenes, Total	**0.015**	**J**	0.069	0.0097	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
MTBE	0.0045	U	0.035	0.0045	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
Naphthalene	0.030	U	0.035	0.030	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
1,2,4-Trimethylbenzene	0.0080	U	0.035	0.0080	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
1,3,5-Trimethylbenzene	0.0087	U	0.035	0.0087	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50
Isopropylbenzene	0.011	U	0.035	0.011	mg/Kg	☼	07/19/19 01:37	07/19/19 12:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*69 - 143*	*07/19/19 01:37*	*07/19/19 12:19*	*50*
Toluene-d8 (Surr)	*98*		*67 - 127*	*07/19/19 01:37*	*07/19/19 12:19*	*50*
Bromofluorobenzene	*94*		*61 - 137*	*07/19/19 01:37*	*07/19/19 12:19*	*50*
Dibromofluoromethane (Surr)	*103*		*61 - 135*	*07/19/19 01:37*	*07/19/19 12:19*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.9**		1.0	1.0	%			07/19/19 00:27	1
Percent Solids	**93.1**		1.0	1.0	%			07/19/19 00:27	1

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster UST

Job ID: 460-186928-1

Client Sample ID: P-1

Lab Sample ID: 460-186928-1

Date Collected: 07/18/19 14:16

Matrix: Solid

Date Received: 07/18/19 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	625640	07/19/19 00:27	JLD	TAL EDI

Client Sample ID: P-1

Lab Sample ID: 460-186928-1

Date Collected: 07/18/19 14:16

Matrix: Solid

Date Received: 07/18/19 15:25

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			625645	07/19/19 01:37	AVM	TAL EDI
Total/NA	Analysis	8260C		50	625662	07/19/19 12:19	KLB	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-186928-1
Project/Site: Warminster UST

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State		PH-0200	09-30-20
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-20
New Jersey	NELAP		12028	06-30-20
New York	NELAP	2	11452	04-01-20
New York	NELAP		11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Pennsylvania	NELAP		68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster UST

Job ID: 460-186928-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster UST

Job ID: 460-186928-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-186928-1	P-1	Solid	07/18/19 14:16	07/18/19 15:25	

Chain of Custody Record

356386

4.3 KOP-2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Herr	Site Contact:	Date:	COC No:
Company Name: PT Environmental	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 215 W. Church	Analysis Turnaround Time			Sampler:
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Warminster UST	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 73057-01-02	☑ 1 day			186928

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PA DEP VL	Sample Specific Notes:
Pre-1	7/18/19	1416	G	Soil	2			X	

460-186928 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____

Relinquished by: Craig Herr	Company: PT ENV	Date/Time: 7/19/19 1500	Received by:	Company: TA-KOP	Date/Time: 7/19/19 1525
Relinquished by:	Company: TA KOP	Date/Time: 7/18/19	Received by:	Company: ETP	Date/Time: 1900
Relinquished by:	Company: ETP	Date/Time: 7/18/19	Received in Laboratory by:	Company: TAEDL	Date/Time: 7/18/19 2030

7/19/2019

Page 10 of 12

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 186928

Number of Coolers: 1 IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.3 °C	4.3 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 7/19/19

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-186928-1

Login Number: 186928
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-187354-1
Client Project/Site: Warminster Sunoco

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Jill Miller

Authorized for release by:
7/26/2019 4:48:20 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-187354-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-187354-1

Comments
No additional comments.

Receipt
The samples were received on 7/24/2019 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7º C.

GC VOA
Method(s) 8015D: The following samples were diluted to bring the concentration of target analytes within the calibration range: P-2 (460-187354-1), P-3 (460-187354-2), P-4 (460-187354-3), P-5 (460-187354-4) and P-6 (460-187354-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method EOX: This method was subcontracted to Summit Environmental Technologies Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report.

Client Sample ID: P-2

Lab Sample ID: 460-187354-1
Date Collected: 07/24/19 13:40
Matrix: Solid
Date Received: 07/24/19 15:35
Percent Solids: 85.3

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	92		5.2	5.2	mg/Kg	☼	07/25/19 11:19	07/25/19 18:46	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*80 - 135*	*07/25/19 11:19*	*07/25/19 18:46*	*200*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C44	71		10	0.99	mg/Kg	☼	07/25/19 19:00	07/26/19 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*11 - 126*	*07/25/19 19:00*	*07/26/19 12:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		1.0	1.0	%			07/25/19 09:59	1
Percent Solids	85.3		1.0	1.0	%			07/25/19 09:59	1

Client Sample ID: P-3

Lab Sample ID: 460-187354-2
Date Collected: 07/24/19 13:50
Matrix: Solid
Date Received: 07/24/19 15:35
Percent Solids: 92.9

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	100		3.3	3.3	mg/Kg	☼	07/25/19 11:19	07/25/19 19:14	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 135*	*07/25/19 11:19*	*07/25/19 19:14*	*250*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C44	81		9.4	0.91	mg/Kg	☼	07/25/19 19:00	07/26/19 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*11 - 126*	*07/25/19 19:00*	*07/26/19 12:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		1.0	1.0	%			07/25/19 09:59	1
Percent Solids	92.9		1.0	1.0	%			07/25/19 09:59	1

Client Sample ID: P-4

Lab Sample ID: 460-187354-3
Date Collected: 07/24/19 14:00
Matrix: Solid
Date Received: 07/24/19 15:35
Percent Solids: 90.8

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	250		8.2	8.2	mg/Kg	☼	07/25/19 11:20	07/25/19 20:37	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*80 - 135*	*07/25/19 11:20*	*07/25/19 20:37*	*500*

Client Sample ID: P-4

Date Collected: 07/24/19 14:00
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-3
Matrix: Solid
Percent Solids: 90.8

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C44	93		9.6	0.93	mg/Kg	☼	07/25/19 19:00	07/26/19 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*11 - 126*	*07/25/19 19:00*	*07/26/19 12:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		1.0	1.0	%			07/25/19 09:59	1
Percent Solids	90.8		1.0	1.0	%			07/25/19 09:59	1

Client Sample ID: P-5

Date Collected: 07/24/19 14:05
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-4
Matrix: Solid
Percent Solids: 91.4

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	130		5.0	5.0	mg/Kg	☼	07/25/19 11:20	07/25/19 19:42	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*80 - 135*	*07/25/19 11:20*	*07/25/19 19:42*	*500*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C44	120		9.5	0.92	mg/Kg	☼	07/25/19 19:00	07/26/19 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*11 - 126*	*07/25/19 19:00*	*07/26/19 13:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		1.0	1.0	%			07/25/19 09:59	1
Percent Solids	91.4		1.0	1.0	%			07/25/19 09:59	1

Client Sample ID: P-6

Date Collected: 07/24/19 14:10
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-5
Matrix: Solid
Percent Solids: 89.9

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	93		3.8	3.8	mg/Kg	☼	07/25/19 11:21	07/25/19 20:09	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*80 - 135*	*07/25/19 11:21*	*07/25/19 20:09*	*500*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C44	89		9.7	0.94	mg/Kg	☼	07/25/19 19:00	07/26/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*11 - 126*	*07/25/19 19:00*	*07/26/19 13:42*	*1*

Client Sample Results

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-1

Client Sample ID: P-6

Date Collected: 07/24/19 14:10
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-5

Matrix: Solid
Percent Solids: 89.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		1.0	1.0	%			07/25/19 09:59	1
Percent Solids	89.9		1.0	1.0	%			07/25/19 09:59	1

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-1

Client Sample ID: P-2
Date Collected: 07/24/19 13:40
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627129	07/25/19 09:59	MMC	TAL EDI

Client Sample ID: P-2
Date Collected: 07/24/19 13:40
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-1
Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627175	07/25/19 11:19	DBM	TAL EDI
Total/NA	Analysis	8015D		200	627177	07/25/19 18:46	AVM	TAL EDI
Total/NA	Prep	3546			627262	07/25/19 19:00	CPG	TAL EDI
Total/NA	Analysis	8015D		1	627388	07/26/19 12:27	BWM	TAL EDI

Client Sample ID: P-3
Date Collected: 07/24/19 13:50
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627129	07/25/19 09:59	MMC	TAL EDI

Client Sample ID: P-3
Date Collected: 07/24/19 13:50
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-2
Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627175	07/25/19 11:19	DBM	TAL EDI
Total/NA	Analysis	8015D		250	627177	07/25/19 19:14	AVM	TAL EDI
Total/NA	Prep	3546			627262	07/25/19 19:00	CPG	TAL EDI
Total/NA	Analysis	8015D		1	627388	07/26/19 12:39	BWM	TAL EDI

Client Sample ID: P-4
Date Collected: 07/24/19 14:00
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627129	07/25/19 09:59	MMC	TAL EDI

Client Sample ID: P-4
Date Collected: 07/24/19 14:00
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-3
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627175	07/25/19 11:20	DBM	TAL EDI
Total/NA	Analysis	8015D		500	627177	07/25/19 20:37	AVM	TAL EDI
Total/NA	Prep	3546			627262	07/25/19 19:00	CPG	TAL EDI
Total/NA	Analysis	8015D		1	627388	07/26/19 12:52	BWM	TAL EDI

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-1

Client Sample ID: P-5
Date Collected: 07/24/19 14:05
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627129	07/25/19 09:59	MMC	TAL EDI

Client Sample ID: P-5
Date Collected: 07/24/19 14:05
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-4
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627175	07/25/19 11:20	DBM	TAL EDI
Total/NA	Analysis	8015D		500	627177	07/25/19 19:42	AVM	TAL EDI
Total/NA	Prep	3546			627262	07/25/19 19:00	CPG	TAL EDI
Total/NA	Analysis	8015D		1	627388	07/26/19 13:04	BWM	TAL EDI

Client Sample ID: P-6
Date Collected: 07/24/19 14:10
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	627129	07/25/19 09:59	MMC	TAL EDI

Client Sample ID: P-6
Date Collected: 07/24/19 14:10
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-5
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			627175	07/25/19 11:21	DBM	TAL EDI
Total/NA	Analysis	8015D		500	627177	07/25/19 20:09	AVM	TAL EDI
Total/NA	Prep	3546			627262	07/25/19 19:00	CPG	TAL EDI
Total/NA	Analysis	8015D		1	627388	07/26/19 13:42	BWM	TAL EDI

Laboratory References:

Summit Env = Summit Environmental Technologies Inc., 3310 Win Street, Cuyahoga Falls, OH 44223

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-187354-1
Project/Site: Warminster Sunoco

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State		PH-0200	09-30-20
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-20
New Jersey	NELAP		12028	06-30-20
New York	NELAP	2	11452	04-01-20
New York	NELAP		11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Pennsylvania	NELAP		68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-1

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL EDI
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
Subcontract	EOX	None	Summit Env
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Summit Env = Summit Environmental Technologies Inc., 3310 Win Street, Cuyahoga Falls, OH 44223

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-187354-1	P-2	Solid	07/24/19 13:40	07/24/19 15:35	
460-187354-2	P-3	Solid	07/24/19 13:50	07/24/19 15:35	
460-187354-3	P-4	Solid	07/24/19 14:00	07/24/19 15:35	
460-187354-4	P-5	Solid	07/24/19 14:05	07/24/19 15:35	
460-187354-5	P-6	Solid	07/24/19 14:10	07/24/19 15:35	

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

July 26, 2019

Jill Miller
Test America
777 New Durham Rd
Edison, NJ 08817
TEL: (732) 549-3900
FAX:

RE: 460-187354

Dear Jill Miller:

Order No.: 19071658

Summit Environmental Technologies, Inc. received 5 sample(s) on 7/25/2019 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

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

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0108, Delaware, Florida NELAC E87688, Georgia E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Louisiana 04061, Maryland 339, Minnesota 409711, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 010, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-11-5, Utah OH009232011-1, Virginia VELAP 9456, Washington C891

Summit Environmental Technologies, Inc.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **19071658**
Date: **7/26/2019**

CLIENT: Test America
Project: 460-187354

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

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Workorder Sample Summary

WO#: **19071658**

26-Jul-19

CLIENT: Test America
Project: 460-187354

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
19071658-001	460-187354-1		7/24/2019 1:40:00 PM	7/25/2019 10:05:00 AM	Solid
19071658-002	460-187354-2		7/24/2019 1:50:00 PM	7/25/2019 10:05:00 AM	Solid
19071658-003	460-187354-3		7/24/2019 2:00:00 PM	7/25/2019 10:05:00 AM	Solid
19071658-004	460-187354-4		7/24/2019 2:05:00 PM	7/25/2019 10:05:00 AM	Solid
19071658-005	460-187354-5		7/24/2019 2:10:00 PM	7/25/2019 10:05:00 AM	Solid

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Analytical Report

(consolidated)

WO#: **19071658**

Date Reported: **7/26/2019**

CLIENT: Test America
Project: 460-187354
Lab ID: 19071658-001
Client Sample ID 460-187354-1

Collection Date: 7/24/2019 1:40:00 PM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **TIR**
Extractable Organic Halides	ND	50.0		ppm	1	7/25/2019 12:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **19071658**

Date Reported: **7/26/2019**

CLIENT: Test America
Project: 460-187354
Lab ID: 19071658-002
Client Sample ID 460-187354-2

Collection Date: 7/24/2019 1:50:00 PM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **TIR**
Extractable Organic Halides	ND	50.0		ppm	1	7/25/2019 12:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **19071658**

Date Reported: **7/26/2019**

CLIENT: Test America
Project: 460-187354
Lab ID: 19071658-003
Client Sample ID 460-187354-3

Collection Date: 7/24/2019 2:00:00 PM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **TIR**
Extractable Organic Halides	ND	50.0		ppm	1	7/25/2019 12:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **19071658**

Date Reported: **7/26/2019**

CLIENT: Test America
Project: 460-187354
Lab ID: 19071658-004
Client Sample ID 460-187354-4

Collection Date: 7/24/2019 2:05:00 PM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **TIR**
Extractable Organic Halides	ND	50.0		ppm	1	7/25/2019 12:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **19071658**

Date Reported: **7/26/2019**

CLIENT: Test America
Project: 460-187354
Lab ID: 19071658-005
Client Sample ID 460-187354-5

Collection Date: 7/24/2019 2:10:00 PM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **TIR**
Extractable Organic Halides	ND	50.0		ppm	1	7/25/2019 12:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **19071658**
26-Jul-19

Client: Test America
Project: 460-187354 **BatchID:** **R101230**

Sample ID	**MB-R101230**	SampType:	**MBLK**	TestCode:	**EOX_S(9023)**	Units:	**ppm**	Prep Date:		RunNo:	**101230**
Client ID:	**PBS**	Batch ID:	**R101230**	TestNo:	**SW9023**			Analysis Date:	**7/25/2019**	SeqNo:	**2236250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	50.0									

Sample ID	**LCS-R101230**	SampType:	**LCS**	TestCode:	**EOX_S(9023)**	Units:	**ppm**	Prep Date:		RunNo:	**101230**
Client ID:	**LCSS**	Batch ID:	**R101230**	TestNo:	**SW9023**			Analysis Date:	**7/25/2019**	SeqNo:	**2236252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	50.0	50.00	0	85.6	81	114				

Sample ID	**19071658-001AMS**	SampType:	**MS**	TestCode:	**EOX_S(9023)**	Units:	**ppm**	Prep Date:		RunNo:	**101230**
Client ID:	**460-187354-1**	Batch ID:	**R101230**	TestNo:	**SW9023**			Analysis Date:	**7/25/2019**	SeqNo:	**2236254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	630	50.0	625.0	0	101	78	116				

Sample ID	**19071658-001AMSD**	SampType:	**MSD**	TestCode:	**EOX_S(9023)**	Units:	**ppm**	Prep Date:		RunNo:	**101230**
Client ID:	**460-187354-1**	Batch ID:	**R101230**	TestNo:	**SW9023**			Analysis Date:	**7/25/2019**	SeqNo:	**2236255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	620	50.0	625.0	0	99.2	78	116	630.0	1.60	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted reco

Original

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QC SUMMARY REPORT

WO#: **19071658**
26-Jul-19

Client: Test America
Project: 460-187354 **BatchID:** **R101230**

Sample ID	**19071658-001AMSD**	SampType:	**MSD**	TestCode:	**EOX_S(9023)**	Units:	**ppm**	Prep Date:		RunNo:	**101230**
Client ID:	**460-187354-1**	Batch ID:	**R101230**	TestNo:	**SW9023**			Analysis Date:	**7/25/2019**	SeqNo:	**2236255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	**MB-R101230**	SampType:	**MBLK**	TestCode:	**EOX_S(9023)**	Units:	**ppm**	Prep Date:		RunNo:	**101230**
Client ID:	**PBS**	Batch ID:	**R101230**	TestNo:	**SW9023**			Analysis Date:	**7/25/2019**	SeqNo:	**2236261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	50.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted reco

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Qualifiers and Acronyms

WO#: **19071658**
Date: **7/26/2019**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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DATES REPORT

WO#: **19071658**

26-Jul-19

Client: Test America
Project: 460-187354

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
19071658-001A	460-187354-1	7/24/2019 1:40:00 PM	Solid	Extractable Organic Halides (EOX) (9(			7/25/2019 12:02:00 PM
19071658-002A	460-187354-2	7/24/2019 1:50:00 PM		Extractable Organic Halides (EOX) (9(			7/25/2019 12:02:00 PM
19071658-003A	460-187354-3	7/24/2019 2:00:00 PM		Extractable Organic Halides (EOX) (9(			7/25/2019 12:02:00 PM
19071658-004A	460-187354-4	7/24/2019 2:05:00 PM		Extractable Organic Halides (EOX) (9(			7/25/2019 12:02:00 PM
19071658-005A	460-187354-5	7/24/2019 2:10:00 PM		Extractable Organic Halides (EOX) (9(			7/25/2019 12:02:00 PM

Original

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Accreditation Program Analytes Report

WO#: **19071658**

26-Jul-19

Client: Test America
Project: 460-187354

State: PA
Program Name: Pennsylvanis DEP

Sample ID	Matrix	Test Name	Analyte	Status
19071658-001A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	A
19071658-002A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	A
19071658-003A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	A
19071658-004A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	A
19071658-005A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	A

Key

PA-NELAP A Accredited

Original #1

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Miller, Jill K	Carrier Tracking No(s):	COC No: 460-55485.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jill.miller@testamericainc.com	State of Origin: Pennsylvania	Page: Page 1 of 1
Company: Summit Environmental Technologies Inc.		Accreditations Required (See note): NELAP - Pennsylvania		Job #: 460-187354-1
Address: 3310 Win Street, ,	Due Date Requested: 7/25/2019			
City: Cuyahoga Falls	TAT Requested (days):			
State, Zip: OH, 44223				
Phone:	PO #:			
Email:	WO #:			
Project Name: Warminster Sunoco	Project #: 46025169			
Site:	SSOW#:			

Analysis Requested

19071658

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (EOX)/ EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
P-2 (460-187354-1)	7/24/19	13:40 Eastern		Solid			X	1	Please report in mg/Kg
P-3 (460-187354-2)	7/24/19	13:50 Eastern		Solid			X	1	Please report in mg/Kg
P-4 (460-187354-3)	7/24/19	14:00 Eastern		Solid			X	1	Please report in mg/Kg
P-5 (460-187354-4)	7/24/19	14:05 Eastern		Solid			X	1	Please report in mg/Kg
P-6 (460-187354-5)	7/24/19	14:10 Eastern		Solid			X	1	Please report in mg/Kg

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7/24/19 1619	TA-KOP			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/25/19 10.05	Company fedexcourier

Custody Seals Intact: ✗ Yes Δ No | Custody Seal No.: 736879 | Cooler Temperature(s) °C and Other Remarks: 0.3

Ver: 01/16/2019

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TES-NJ-08817** Work Order Number: **19071658** RcptNo: **1**

Logged by: **Jesseca E. Westfall** **7/25/2019 10:05:00 AM**

Completed By: **Jesseca E. Westfall** **7/25/2019 10:22:17 AM**

Reviewed By:

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			

Chain of Custody Record

356337

4.7 °C KOP-2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Kerr	Site Contact: A. Schmeckle	Date: 7/24/19	COC No:
Company Name: RT ENV	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address:	Analysis Turnaround Time			Sampler: A. Schmeckle
City/State/Zip: KOP, PA	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 610-265-1510	TAT if different from Below 24 hr			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Warminster SunoCo	☐ 1 week			
Site: Warminster SunoCo	☐ 2 days			Job / SDG No.: 187354
PO# 73057-01	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	TOX	Sample Specific Notes:
P-2	7/24/19	1:40	G	Soil	4			X	X	
P-3		1:50			4			X	X	
P-4		2:00			4			X	X	
P-5		2:05			4			X	X	
P-6		2:10			4			X	X	

460-187354 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH 1,6,6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

3.3 °C Cs # 736878

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by: A. Schmeckle	RT ENV	7/24/19 15:35	Received by:	TA-KOP	7/24/19 1535
Relinquished by:	TA-KOP	7/24/19 1617	Received by:		
Relinquished by:			Received in Laboratory by:		Date/Time: 7/30/19 9:00

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7/26/2019

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 187354

Number of Coolers: 1

IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.7 °C	4.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 7/24/19

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-187354-1

Login Number: 187354
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	736878
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-187354-2
Client Project/Site: Warminster Sunoco

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Jill Miller

Authorized for release by:
8/5/2019 11:26:56 AM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: RT Environmental Services, Inc.
Job ID: 460-187354-2
Project/Site: Warminster Sunoco

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-2

Job ID: 460-187354-2

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-187354-2

Comments
No additional comments.

Receipt
The samples were received on 7/24/2019 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7º C.

Receipt Exceptions
The following samples was composited and activated for TCLP VOC, TCLP SVOC, TCLP RCRA Metals +3, Total RCR Metals +3, PCBs and RCRA Characteristics analysis by the client on 7/31/2019: P-2 (460-187354-1), P-3 (460-187354-2), P-4 (460-187354-3), P-5 (460-187354-4) and P-6 (460-187354-5). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 460-629351 and analytical batch 460-629437 recovered outside control limits for the following analytes: < 1,4-Dichlorobenzene, Hexachlorobutadiene, Hexachloroethane and Pyridine>. These analytes were within limits for the LCS. therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-2

Client Sample ID: Composite P2-6

Date Collected: 07/24/19 13:40
Date Received: 07/24/19 15:35

Lab Sample ID: 460-187354-6

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.6	U	10	2.6	ug/L			08/02/19 16:43	10
1,2-Dichloroethane	4.3	U	10	4.3	ug/L			08/02/19 16:43	10
2-Butanone (MEK)	19	U	50	19	ug/L			08/02/19 16:43	10
Benzene	2.0	U	10	2.0	ug/L			08/02/19 16:43	10
Carbon tetrachloride	2.1	U	10	2.1	ug/L			08/02/19 16:43	10
Chlorobenzene	3.8	U	10	3.8	ug/L			08/02/19 16:43	10
Chloroform	3.3	U	10	3.3	ug/L			08/02/19 16:43	10
Tetrachloroethene	2.5	U	10	2.5	ug/L			08/02/19 16:43	10
Trichloroethene	3.1	U	10	3.1	ug/L			08/02/19 16:43	10
Vinyl chloride	1.7	U	10	1.7	ug/L			08/02/19 16:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*74 - 132*		*08/02/19 16:43*	*10*
4-Bromofluorobenzene	*106*		*77 - 124*		*08/02/19 16:43*	*10*
Dibromofluoromethane (Surr)	*96*		*72 - 131*		*08/02/19 16:43*	*10*
Toluene-d8 (Surr)	*88*		*80 - 120*		*08/02/19 16:43*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Cresol	0.30	U	10	0.30	ug/L		08/03/19 07:08	08/04/19 22:24	1
m & p - Cresol	0.20	U	10	0.20	ug/L		08/03/19 07:08	08/04/19 22:24	1
2,4,6-Trichlorophenol	0.30	U	10	0.30	ug/L		08/03/19 07:08	08/04/19 22:24	1
2,4,5-Trichlorophenol	0.30	U	10	0.30	ug/L		08/03/19 07:08	08/04/19 22:24	1
Pentachlorophenol	1.4	U	30	1.4	ug/L		08/03/19 07:08	08/04/19 22:24	1
1,4-Dichlorobenzene	1.3	U *	10	1.3	ug/L		08/03/19 07:08	08/04/19 22:24	1
Hexachloroethane	1.2	U *	2.0	1.2	ug/L		08/03/19 07:08	08/04/19 22:24	1
Nitrobenzene	0.60	U	1.0	0.60	ug/L		08/03/19 07:08	08/04/19 22:24	1
Hexachlorobutadiene	0.80	U *	2.0	0.80	ug/L		08/03/19 07:08	08/04/19 22:24	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		08/03/19 07:08	08/04/19 22:24	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		08/03/19 07:08	08/04/19 22:24	1
Pyridine	1.9	U *	10	1.9	ug/L		08/03/19 07:08	08/04/19 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*67*		*51 - 108*	*08/03/19 07:08*	*08/04/19 22:24*	*1*
Phenol-d5	*21*		*14 - 39*	*08/03/19 07:08*	*08/04/19 22:24*	*1*
Terphenyl-d14	*68*		*40 - 148*	*08/03/19 07:08*	*08/04/19 22:24*	*1*
2,4,6-Tribromophenol	*61*		*26 - 139*	*08/03/19 07:08*	*08/04/19 22:24*	*1*
2-Fluorophenol	*32*		*25 - 58*	*08/03/19 07:08*	*08/04/19 22:24*	*1*
2-Fluorobiphenyl	*62*		*45 - 107*	*08/03/19 07:08*	*08/04/19 22:24*	*1*

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	5.4	U	50.0	5.4	ug/L		08/02/19 10:25	08/02/19 16:58	5
Arsenic	**26.0**	**J**	75.0	13.3	ug/L		08/02/19 10:25	08/02/19 16:58	5
Barium	**917**	**J**	1000	38.4	ug/L		08/02/19 10:25	08/02/19 16:58	5
Cadmium	**1.2**	**J**	20.0	1.1	ug/L		08/02/19 10:25	08/02/19 16:58	5
Chromium	6.3	U	50.0	6.3	ug/L		08/02/19 10:25	08/02/19 16:58	5
Copper	25.5	U	125	25.5	ug/L		08/02/19 10:25	08/02/19 16:58	5
Nickel	**19.7**	**J**	200	8.5	ug/L		08/02/19 10:25	08/02/19 16:58	5
Lead	**18.9**	**J**	50.0	12.3	ug/L		08/02/19 10:25	08/02/19 16:58	5

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-2

Client Sample ID: Composite P2-6

Lab Sample ID: 460-187354-6

Date Collected: 07/24/19 13:40
Date Received: 07/24/19 15:35

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	33.0	U	100	33.0	ug/L		08/02/19 10:25	08/02/19 16:58	5
Zinc	**137**	**J**	150	18.1	ug/L		08/02/19 10:25	08/02/19 16:58	5

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.20	ug/L		08/02/19 14:22	08/02/19 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate	2.20	U	2.20	2.20	mm/sec			08/01/19 10:18	1
Cyanide, Reactive	25.0	U	25.0	25.0	mg/Kg		08/01/19 11:00	08/01/19 16:12	1
Sulfide, Reactive	19.4	U	20.0	19.4	mg/Kg		08/01/19 11:00	08/01/19 16:07	1
pH	**10.4**	**HF**			SU			08/01/19 11:48	1
Corrosivity	**10.4**	**HF**			SU			08/01/19 11:48	1
Percent Moisture	**10.7**		1.0	1.0	%			08/01/19 07:57	1
Percent Solids	**89.3**		1.0	1.0	%			08/01/19 07:57	1

Client Sample ID: Composite P2-6

Lab Sample ID: 460-187354-6

Date Collected: 07/24/19 13:40
Date Received: 07/24/19 15:35

Matrix: Solid
Percent Solids: 89.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1
Aroclor 1221	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1
Aroclor 1232	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1
Aroclor 1242	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1
Aroclor 1248	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1
Aroclor 1254	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1
Aroclor 1260	0.010	U	0.075	0.010	mg/Kg	☼	08/01/19 10:07	08/02/19 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*53 - 150*	*08/01/19 10:07*	*08/02/19 17:02*	*1*
DCB Decachlorobiphenyl	*121*		*53 - 150*	*08/01/19 10:07*	*08/02/19 17:02*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.20	U	2.1	0.20	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Arsenic	**8.5**		3.2	1.2	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Barium	**104**		42.7	2.4	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Cadmium	**0.24**	**J**	0.85	0.15	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Chromium	**52.0**		2.1	0.38	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Copper	**34.7**		5.3	2.8	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Nickel	**23.1**		8.5	0.78	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Lead	**13.9**		2.1	0.56	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Selenium	2.6	U	4.3	2.6	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4
Zinc	**72.6**		6.4	5.0	mg/Kg	☼	08/01/19 04:51	08/01/19 14:15	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099	U	0.017	0.0099	mg/Kg	☼	08/01/19 04:30	08/01/19 09:59	1

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-2

Client Sample ID: Composite P2-6

Lab Sample ID: 460-187354-6

Date Collected: 07/24/19 13:40

Matrix: Solid

Date Received: 07/24/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			628835	08/01/19 09:14	BJB	TAL EDI
TCLP	Analysis	8260C		10	629151	08/02/19 16:43	ZXB	TAL EDI
TCLP	Leach	1311			628944	08/01/19 15:00	YXG	TAL EDI
TCLP	Prep	3510C			629351	08/03/19 07:08	DXD	TAL EDI
TCLP	Analysis	8270D		1	629520	08/04/19 22:24	YAH	TAL EDI
TCLP	Leach	1311			628944	08/01/19 15:00	YXG	TAL EDI
TCLP	Prep	3010A			629118	08/02/19 10:25	QZY	TAL EDI
TCLP	Analysis	6010D		5	629239	08/02/19 16:58	YZH	TAL EDI
TCLP	Leach	1311			628944	08/01/19 15:00	YXG	TAL EDI
TCLP	Prep	7470A			629217	08/02/19 14:22	RBS	TAL EDI
TCLP	Analysis	7470A		1	629267	08/02/19 15:09	RBS	TAL EDI
Total/NA	Analysis	1030		1	628879	08/01/19 10:18	AAP	TAL EDI
Total/NA	Prep	7.3.3			628951	08/01/19 11:00	YAH	TAL EDI
Total/NA	Analysis	9014		1	628960	08/01/19 16:12	YAH	TAL EDI
Total/NA	Prep	7.3.4			628950	08/01/19 11:00	YAH	TAL EDI
Total/NA	Analysis	9034		1	628958	08/01/19 16:07	YAH	TAL EDI
Total/NA	Analysis	9045D		1	628842	08/01/19 11:48	AAP	TAL EDI
Total/NA	Analysis	Moisture		1	628802	08/01/19 07:57	MMC	TAL EDI

Client Sample ID: Composite P2-6

Lab Sample ID: 460-187354-6

Date Collected: 07/24/19 13:40

Matrix: Solid

Date Received: 07/24/19 15:35

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			628862	08/01/19 10:07	OXG	TAL EDI
Total/NA	Analysis	8082A		1	629157	08/02/19 17:02	JHP	TAL EDI
Total/NA	Prep	3050B			628762	08/01/19 04:51	GMC	TAL EDI
Total/NA	Analysis	6010D		4	628947	08/01/19 14:15	YZH	TAL EDI
Total/NA	Prep	7471B			628759	08/01/19 04:30	TJS	TAL EDI
Total/NA	Analysis	7471B		1	628897	08/01/19 09:59	TJS	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-187354-2
Project/Site: Warminster Sunoco

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State		PH-0200	09-30-20
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-20
New Jersey	NELAP		12028	06-30-20
New York	NELAP	2	11452	04-01-20
New York	NELAP		11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Pennsylvania	NELAP		68-00522	02-28-20
Rhode Island	State		LAO00132	12-30-19
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21
USDA	US Federal Programs		P330-18-00135	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
6010D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
1030	Ignitability of Solids	SW846	TAL EDI
9014	Cyanide, Reactive	SW846	TAL EDI
9034	Sulfide, Reactive	SW846	TAL EDI
9045D	pH	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
1311	TCLP Extraction	SW846	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
7.3.3	Cyanide, Reactive	SW846	TAL EDI
7.3.4	Sulfide, Reactive	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-187354-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-187354-6	Composite P2-6	Solid	07/24/19 13:40	07/24/19 15:35	

Chain of Custody Record

356337

4.7 °C KOP-2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Kurr	Site Contact: A. Schmeltz	Date: 7/24/19	COC No:
Company Name: RT ENV	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address:	Analysis Turnaround Time			Sampler: A. Schmeltz
City/State/Zip: KOP, PA	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 610-265-1510	TAT if different from Below 24 hr			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Warminster SunoCo	☐ 1 week			
Site: Warminster SunoCo	☐ 2 days			Job / SDG No.: 187354
PO# 73057-01	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	TOX	Sample Specific Notes:
P-2	7/24/19	1:40	G	Soil	4			X	X	
P-3	"	1:50	"	"	4			X	X	
P-4	"	2:00	"	"	4			X	X	
P-5	"	2:05	"	"	4			X	X	
P-6	"	2:10	"	"	4			X	X	

460-187354 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH 1,6,6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

3.3 °C Cs # 736878

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by: A. Schmeltz	RT ENV	7/24/19 15:35	Received by:	TA-KOP	7/24/19 1535
Relinquished by:	TA-KOP	7/24/19 1617	Received by:		
Relinquished by:			Received in Laboratory by:		7/25/19 900

8/5/2019

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 187354

Number of Coolers: 1

IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.7 °C	4.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 7/24/19

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-187354-2

Login Number: 187354

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: Keehn, Jeffrey S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	736878
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Groundwater

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-200841-1
Client Project/Site: Warminster Sunoco UST

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Jill Miller

Authorized for release by:
1/23/2020 5:02:28 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200841-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-200841-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-200841-1

Comments
No additional comments.

Receipt
The samples were received on 1/16/2020 3:47 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: MW-1

Lab Sample ID: 460-200841-1

Date Collected: 01/15/20 14:46

Matrix: Water

Date Received: 01/16/20 15:47

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			01/21/20 17:41	1
Toluene	**0.56**	**J**	1.0	0.38	ug/L			01/21/20 17:41	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/21/20 17:41	1
Xylenes, Total	**1.2**	**J**	2.0	0.65	ug/L			01/21/20 17:41	1
MTBE	0.47	U	1.0	0.47	ug/L			01/21/20 17:41	1
Naphthalene	0.88	U	1.0	0.88	ug/L			01/21/20 17:41	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			01/21/20 17:41	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			01/21/20 17:41	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			01/21/20 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 132*		*01/21/20 17:41*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/21/20 17:41*	*1*
Bromofluorobenzene	*105*		*77 - 124*		*01/21/20 17:41*	*1*
Dibromofluoromethane (Surr)	*113*		*72 - 131*		*01/21/20 17:41*	*1*

Client Sample ID: MW-2

Lab Sample ID: 460-200841-2

Date Collected: 01/15/20 15:52

Matrix: Water

Date Received: 01/16/20 15:47

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.46**	**J**	1.0	0.20	ug/L			01/21/20 18:06	1
Toluene	**0.51**	**J**	1.0	0.38	ug/L			01/21/20 18:06	1
Ethylbenzene	**0.34**	**J**	1.0	0.30	ug/L			01/21/20 18:06	1
Xylenes, Total	**1.0**	**J**	2.0	0.65	ug/L			01/21/20 18:06	1
MTBE	0.47	U	1.0	0.47	ug/L			01/21/20 18:06	1
Naphthalene	0.88	U	1.0	0.88	ug/L			01/21/20 18:06	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			01/21/20 18:06	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			01/21/20 18:06	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			01/21/20 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*01/21/20 18:06*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/21/20 18:06*	*1*
Bromofluorobenzene	*107*		*77 - 124*		*01/21/20 18:06*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*01/21/20 18:06*	*1*

Client Sample ID: MW-7

Lab Sample ID: 460-200841-3

Date Collected: 01/15/20 14:02

Matrix: Water

Date Received: 01/16/20 15:47

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			01/21/20 18:30	1
Toluene	0.38	U	1.0	0.38	ug/L			01/21/20 18:30	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/21/20 18:30	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/21/20 18:30	1
MTBE	**2.8**		1.0	0.47	ug/L			01/21/20 18:30	1
Naphthalene	0.88	U	1.0	0.88	ug/L			01/21/20 18:30	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			01/21/20 18:30	1

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200841-1

Client Sample ID: MW-7
Date Collected: 01/15/20 14:02
Date Received: 01/16/20 15:47

Lab Sample ID: 460-200841-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			01/21/20 18:30	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			01/21/20 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*74 - 132*		*01/21/20 18:30*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*01/21/20 18:30*	*1*
Bromofluorobenzene	*111*		*77 - 124*		*01/21/20 18:30*	*1*
Dibromofluoromethane (Surr)	*110*		*72 - 131*		*01/21/20 18:30*	*1*

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200841-1

Client Sample ID: MW-1
Date Collected: 01/15/20 14:46
Date Received: 01/16/20 15:47

Lab Sample ID: 460-200841-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	669586	01/21/20 17:41	CJM	TAL EDI

Client Sample ID: MW-2
Date Collected: 01/15/20 15:52
Date Received: 01/16/20 15:47

Lab Sample ID: 460-200841-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	669586	01/21/20 18:06	CJM	TAL EDI

Client Sample ID: MW-7
Date Collected: 01/15/20 14:02
Date Received: 01/16/20 15:47

Lab Sample ID: 460-200841-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	669586	01/21/20 18:30	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc.
Job ID: 460-200841-1
Project/Site: Warminster Sunoco UST

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
Massachusetts	State Program	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-20
Pennsylvania	NELAP	68-00522	02-28-20
Rhode Island	State	LAO00132	12-30-19 *
USDA	US Federal Programs	P330-18-00135	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200841-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200841-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-200841-1	MW-1	Water	01/15/20 14:46	01/16/20 15:47	
460-200841-2	MW-2	Water	01/15/20 15:52	01/16/20 15:47	
460-200841-3	MW-7	Water	01/15/20 14:02	01/16/20 15:47	

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

6.0 °C KOP-2

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THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) C. Herr J. Lydzinski S. Bauman	Samplers Name (Printed) Scott Bauman	Site/Project Identification Warminster Sunoco UST
Company RT Environmental	P. O. # 73057-02-01	State (Location of site): NJ: ☐ NY: ☐ Other: PA
		Regulatory Program: DKQP: ☐
Address 215 W. Church Rd	Analysis Turnaround Time: Standard ☒	LAB USE ONLY Project No:
City KoP State PA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	Job No:
Phone Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	unleaded gasoline	Sample Numbers
MW-1	1/15/20	14:46	GW	3	X	
MW-2	"	15:52	"	"	X	
MW-7	"	14:02	"	"	X	

460-200841 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____ Soil: Water: 1/2

Special Instructions Water Metals Filtered (Yes/No)? _____

	Company	Date / Time		Company
Relinquished by 1) Scott Bauman	RT	1/16/20	15:47 Received by 1)	TA-KOP
Relinquished by 2)	TA KOP	1/17/20	1850 Received by 2)	ETA
Relinquished by 3)	ETA	1/17/20	2000 Received by 3)	TAEDI
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 200841

Number of Coolers: 1 IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	6.0 °C	6.0 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 1/16/20

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-200841-1

Login Number: 200841
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-200921-1
Client Project/Site: Warminster Sunoco UST

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Jill Miller

Authorized for release by:
1/24/2020 2:53:48 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200921-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-200921-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-200921-1

Comments
No additional comments.

Receipt
The samples were received on 1/17/2020 3:08 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.3º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: MW-3 (460-200921-1), MW-6 (460-200921-2) and MW-9 (460-200921-3). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-3 (460-200921-1) and MW-6 (460-200921-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: MW-3

Lab Sample ID: 460-200921-1

Date Collected: 01/17/20 12:26

Matrix: Water

Date Received: 01/17/20 15:08

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	810		20	4.1	ug/L			01/23/20 23:35	20
Toluene	1800		20	7.6	ug/L			01/23/20 23:35	20
Ethylbenzene	1300		20	6.0	ug/L			01/23/20 23:35	20
Xylenes, Total	6200		40	13	ug/L			01/23/20 23:35	20
MTBE	9.3	U	20	9.3	ug/L			01/23/20 23:35	20
Naphthalene	290		20	18	ug/L			01/23/20 23:35	20
1,2,4-Trimethylbenzene	1100		20	7.5	ug/L			01/23/20 23:35	20
1,3,5-Trimethylbenzene	270		20	6.5	ug/L			01/23/20 23:35	20
Isopropylbenzene	79		20	6.7	ug/L			01/23/20 23:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*01/23/20 23:35*	*20*
Toluene-d8 (Surr)	*93*		*80 - 120*		*01/23/20 23:35*	*20*
Bromofluorobenzene	*99*		*77 - 124*		*01/23/20 23:35*	*20*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*01/23/20 23:35*	*20*

Client Sample ID: MW-6

Lab Sample ID: 460-200921-2

Date Collected: 01/17/20 11:32

Matrix: Water

Date Received: 01/17/20 15:08

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1100		20	4.1	ug/L			01/24/20 06:47	20
Toluene	1800		20	7.6	ug/L			01/24/20 06:47	20
Ethylbenzene	1300		20	6.0	ug/L			01/24/20 06:47	20
Xylenes, Total	6800		40	13	ug/L			01/24/20 06:47	20
MTBE	9.3	U	20	9.3	ug/L			01/24/20 06:47	20
Naphthalene	210		20	18	ug/L			01/24/20 06:47	20
1,2,4-Trimethylbenzene	920		20	7.5	ug/L			01/24/20 06:47	20
1,3,5-Trimethylbenzene	230		20	6.5	ug/L			01/24/20 06:47	20
Isopropylbenzene	61		20	6.7	ug/L			01/24/20 06:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*		*74 - 132*		*01/24/20 06:47*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/24/20 06:47*	*20*
Bromofluorobenzene	*106*		*77 - 124*		*01/24/20 06:47*	*20*
Dibromofluoromethane (Surr)	*114*		*72 - 131*		*01/24/20 06:47*	*20*

Client Sample ID: MW-9

Lab Sample ID: 460-200921-3

Date Collected: 01/17/20 09:56

Matrix: Water

Date Received: 01/17/20 15:08

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	98		1.0	0.20	ug/L			01/23/20 22:42	1
Toluene	8.9		1.0	0.38	ug/L			01/23/20 22:42	1
Ethylbenzene	9.4		1.0	0.30	ug/L			01/23/20 22:42	1
Xylenes, Total	31		2.0	0.65	ug/L			01/23/20 22:42	1
MTBE	2.0		1.0	0.47	ug/L			01/23/20 22:42	1
Naphthalene	6.2		1.0	0.88	ug/L			01/23/20 22:42	1
1,2,4-Trimethylbenzene	13		1.0	0.37	ug/L			01/23/20 22:42	1

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200921-1

Client Sample ID: MW-9
Date Collected: 01/17/20 09:56
Date Received: 01/17/20 15:08

Lab Sample ID: 460-200921-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	2.6		1.0	0.33	ug/L			01/23/20 22:42	1
Isopropylbenzene	5.3		1.0	0.34	ug/L			01/23/20 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*74 - 132*		*01/23/20 22:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*01/23/20 22:42*	*1*
Bromofluorobenzene	*107*		*77 - 124*		*01/23/20 22:42*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*01/23/20 22:42*	*1*

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200921-1

Client Sample ID: MW-3
Date Collected: 01/17/20 12:26
Date Received: 01/17/20 15:08

Lab Sample ID: 460-200921-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	670288	01/23/20 23:35	GXY	TAL EDI

Client Sample ID: MW-6
Date Collected: 01/17/20 11:32
Date Received: 01/17/20 15:08

Lab Sample ID: 460-200921-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	670288	01/24/20 06:47	GXY	TAL EDI

Client Sample ID: MW-9
Date Collected: 01/17/20 09:56
Date Received: 01/17/20 15:08

Lab Sample ID: 460-200921-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	670288	01/23/20 22:42	GXY	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-200921-1
Project/Site: Warminster Sunoco UST

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
Massachusetts	State Program	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-20
Pennsylvania	NELAP	68-00522	02-28-20
Rhode Island	State	LAO00132	12-30-19 *
USDA	US Federal Programs	P330-18-00135	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200921-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco UST

Job ID: 460-200921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-200921-1	MW-3	Water	01/17/20 12:26	01/17/20 15:08	
460-200921-2	MW-6	Water	01/17/20 11:32	01/17/20 15:08	
460-200921-3	MW-9	Water	01/17/20 09:56	01/17/20 15:08	

450-KOP

Chain of Custody Record

364793

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9.3 °C KOP-2 rec. on ice.

TAL-821

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Hett	Site Contact:	Date: 1/17/20	COC No:
Company Name: RT Environmental	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 215 W. Church Rd	Analysis Turnaround Time			Sampler: Scott Bauman
City/State/Zip: KoP/PA/19406	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Watminster Sunoco UST	☒ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 73057-02-01	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	RASP unleaded gas	Sample Specific Notes:
MW-3	1/17/20	12:26		GW	3			X	
MW-6		11:32						X	
MW-9		09:56						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

460-200921 Chain of Custody

Special Instructions/QC Requirements & Comments:
Please send results to J. Lydzinski & S. Bauman as well

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by: Scott Bauman	Company: RT	Date/Time: 1/17/20 15:08	Received by:	Company: TA-KOP	Date/Time: 1/17/20 1504
Relinquished by:	Company: TA KOP	Date/Time: 1/17/20	Received by:	Company: ETA	Date/Time: 1/17/20 1850
Relinquished by:	Company: ETA	Date/Time: 1/17/20 2000	Received in Laboratory by:	Company: TA Edi	Date/Time: 1/17/20 2000

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 200921

Number of Coolers: 1 IR Gun #: IR Gun 2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	9.3 °C	9.3 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 1/17/20

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-200921-1

Login Number: 200921
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-207108-1
Client Project/Site: Warminster Sunoco

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: John Lydzinski

Jill Miller

Authorized for release by:
4/23/2020 1:23:22 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-207108-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-207108-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-207108-1

Comments
No additional comments.

Receipt
The samples were received on 4/17/2020 8:04 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

Receipt Exceptions
The following samples were received at the laboratory without a sample collection time documented on the chain of custody: MW-1 (460-207108-1), MW-2 (460-207108-2), MW-3 (460-207108-3), MW-4 (460-207108-4), MW-5 (460-207108-5), MW-6 (460-207108-6), MW-7 (460-207108-7), MW-8 (460-207108-8), MW-9 (460-207108-9) and MW-10 (460-207108-10). The laboratory used a sample collection time of 12:00am.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-10 (460-207108-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1 (460-207108-1) and MW-2 (460-207108-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-3 (460-207108-3) and MW-9 (460-207108-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: MW-1

Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	260		5.0	1.0	ug/L			04/20/20 03:27	5
Toluene	94		5.0	1.9	ug/L			04/20/20 03:27	5
Ethylbenzene	590		5.0	1.5	ug/L			04/20/20 03:27	5
Xylenes, Total	1300		10	3.3	ug/L			04/20/20 03:27	5
MTBE	2.3	U	5.0	2.3	ug/L			04/20/20 03:27	5
Naphthalene	140		5.0	4.4	ug/L			04/20/20 03:27	5
1,2,4-Trimethylbenzene	690		5.0	1.9	ug/L			04/20/20 03:27	5
1,3,5-Trimethylbenzene	130		5.0	1.6	ug/L			04/20/20 03:27	5
Isopropylbenzene	60		5.0	1.7	ug/L			04/20/20 03:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*04/20/20 03:27*	*5*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/20/20 03:27*	*5*
Bromofluorobenzene	*106*		*76 - 120*		*04/20/20 03:27*	*5*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*04/20/20 03:27*	*5*

Client Sample ID: MW-2

Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	190		2.0	0.41	ug/L			04/20/20 03:01	2
Toluene	78		2.0	0.76	ug/L			04/20/20 03:01	2
Ethylbenzene	340		2.0	0.60	ug/L			04/20/20 03:01	2
Xylenes, Total	810		4.0	1.3	ug/L			04/20/20 03:01	2
MTBE	0.93	U	2.0	0.93	ug/L			04/20/20 03:01	2
Naphthalene	61		2.0	1.8	ug/L			04/20/20 03:01	2
1,2,4-Trimethylbenzene	430		2.0	0.75	ug/L			04/20/20 03:01	2
1,3,5-Trimethylbenzene	74		2.0	0.65	ug/L			04/20/20 03:01	2
Isopropylbenzene	33		2.0	0.67	ug/L			04/20/20 03:01	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 123*		*04/20/20 03:01*	*2*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/20/20 03:01*	*2*
Bromofluorobenzene	*99*		*76 - 120*		*04/20/20 03:01*	*2*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*04/20/20 03:01*	*2*

Client Sample ID: MW-3

Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	370		5.0	1.0	ug/L			04/21/20 02:46	5
Toluene	110		5.0	1.9	ug/L			04/21/20 02:46	5
Ethylbenzene	890		5.0	1.5	ug/L			04/21/20 02:46	5
Xylenes, Total	1600		10	3.3	ug/L			04/21/20 02:46	5
MTBE	2.3	U	5.0	2.3	ug/L			04/21/20 02:46	5
Naphthalene	170		5.0	4.4	ug/L			04/21/20 02:46	5
1,2,4-Trimethylbenzene	780		5.0	1.9	ug/L			04/21/20 02:46	5

Client Sample ID: MW-3

Lab Sample ID: 460-207108-3

Date Collected: 04/16/20 00:00

Matrix: Water

Date Received: 04/17/20 08:04

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	160		5.0	1.6	ug/L			04/21/20 02:46	5
Isopropylbenzene	80		5.0	1.7	ug/L			04/21/20 02:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*04/21/20 02:46*	*5*
Toluene-d8 (Surr)	*94*		*80 - 120*		*04/21/20 02:46*	*5*
Bromofluorobenzene	*89*		*76 - 120*		*04/21/20 02:46*	*5*
Dibromofluoromethane (Surr)	*84*		*77 - 124*		*04/21/20 02:46*	*5*

Client Sample ID: MW-4

Lab Sample ID: 460-207108-4

Date Collected: 04/16/20 00:00

Matrix: Water

Date Received: 04/17/20 08:04

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	260		1.0	0.20	ug/L			04/20/20 02:34	1
Toluene	28		1.0	0.38	ug/L			04/20/20 02:34	1
Ethylbenzene	41		1.0	0.30	ug/L			04/20/20 02:34	1
Xylenes, Total	250		2.0	0.65	ug/L			04/20/20 02:34	1
MTBE	1.7		1.0	0.47	ug/L			04/20/20 02:34	1
Naphthalene	23		1.0	0.88	ug/L			04/20/20 02:34	1
1,2,4-Trimethylbenzene	62		1.0	0.37	ug/L			04/20/20 02:34	1
1,3,5-Trimethylbenzene	5.8		1.0	0.33	ug/L			04/20/20 02:34	1
Isopropylbenzene	15		1.0	0.34	ug/L			04/20/20 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*		*04/20/20 02:34*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/20/20 02:34*	*1*
Bromofluorobenzene	*104*		*76 - 120*		*04/20/20 02:34*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 124*		*04/20/20 02:34*	*1*

Client Sample ID: MW-5

Lab Sample ID: 460-207108-5

Date Collected: 04/16/20 00:00

Matrix: Water

Date Received: 04/17/20 08:04

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			04/20/20 01:41	1
Toluene	0.38	U	1.0	0.38	ug/L			04/20/20 01:41	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			04/20/20 01:41	1
Xylenes, Total	0.66	J	2.0	0.65	ug/L			04/20/20 01:41	1
MTBE	0.47	U	1.0	0.47	ug/L			04/20/20 01:41	1
Naphthalene	0.88	U	1.0	0.88	ug/L			04/20/20 01:41	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			04/20/20 01:41	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			04/20/20 01:41	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			04/20/20 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 123*		*04/20/20 01:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/20/20 01:41*	*1*
Bromofluorobenzene	*97*		*76 - 120*		*04/20/20 01:41*	*1*

Client Sample ID: MW-5

Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*04/20/20 01:41*	*1*

Client Sample ID: MW-6

Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**25**		1.0	0.20	ug/L			04/20/20 02:08	1
Toluene	0.38	U	1.0	0.38	ug/L			04/20/20 02:08	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			04/20/20 02:08	1
Xylenes, Total	**0.92**	**J**	2.0	0.65	ug/L			04/20/20 02:08	1
MTBE	**2.3**		1.0	0.47	ug/L			04/20/20 02:08	1
Naphthalene	0.88	U	1.0	0.88	ug/L			04/20/20 02:08	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			04/20/20 02:08	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			04/20/20 02:08	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			04/20/20 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*		*04/20/20 02:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/20/20 02:08*	*1*
Bromofluorobenzene	*106*		*76 - 120*		*04/20/20 02:08*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/20/20 02:08*	*1*

Client Sample ID: MW-7

Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**240**		1.0	0.20	ug/L			04/19/20 16:47	1
Toluene	**28**		1.0	0.38	ug/L			04/19/20 16:47	1
Ethylbenzene	**59**		1.0	0.30	ug/L			04/19/20 16:47	1
Xylenes, Total	**240**		2.0	0.65	ug/L			04/19/20 16:47	1
MTBE	**1.6**		1.0	0.47	ug/L			04/19/20 16:47	1
Naphthalene	**24**		1.0	0.88	ug/L			04/19/20 16:47	1
1,2,4-Trimethylbenzene	**64**		1.0	0.37	ug/L			04/19/20 16:47	1
1,3,5-Trimethylbenzene	**6.7**		1.0	0.33	ug/L			04/19/20 16:47	1
Isopropylbenzene	**14**		1.0	0.34	ug/L			04/19/20 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 123*		*04/19/20 16:47*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/19/20 16:47*	*1*
Bromofluorobenzene	*105*		*76 - 120*		*04/19/20 16:47*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*04/19/20 16:47*	*1*

Client Sample ID: MW-8

Lab Sample ID: 460-207108-8

Date Collected: 04/16/20 00:00

Matrix: Water

Date Received: 04/17/20 08:04

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			04/20/20 01:15	1
Toluene	0.38	U	1.0	0.38	ug/L			04/20/20 01:15	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			04/20/20 01:15	1
Xylenes, Total	**0.75**	**J**	2.0	0.65	ug/L			04/20/20 01:15	1
MTBE	0.47	U	1.0	0.47	ug/L			04/20/20 01:15	1
Naphthalene	0.88	U	1.0	0.88	ug/L			04/20/20 01:15	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			04/20/20 01:15	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			04/20/20 01:15	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			04/20/20 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 123*		*04/20/20 01:15*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/20/20 01:15*	*1*
Bromofluorobenzene	*104*		*76 - 120*		*04/20/20 01:15*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*04/20/20 01:15*	*1*

Client Sample ID: MW-9

Lab Sample ID: 460-207108-9

Date Collected: 04/16/20 00:00

Matrix: Water

Date Received: 04/17/20 08:04

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1600**		25	5.1	ug/L			04/21/20 03:10	25
Toluene	**2500**		25	9.5	ug/L			04/21/20 03:10	25
Ethylbenzene	**1800**		25	7.5	ug/L			04/21/20 03:10	25
Xylenes, Total	**8700**		50	16	ug/L			04/21/20 03:10	25
MTBE	12	U	25	12	ug/L			04/21/20 03:10	25
Naphthalene	**740**	**F1**	25	22	ug/L			04/21/20 03:10	25
1,2,4-Trimethylbenzene	**1100**		25	9.4	ug/L			04/21/20 03:10	25
1,3,5-Trimethylbenzene	**270**		25	8.2	ug/L			04/21/20 03:10	25
Isopropylbenzene	**85**		25	8.4	ug/L			04/21/20 03:10	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*04/21/20 03:10*	*25*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/21/20 03:10*	*25*
Bromofluorobenzene	*92*		*76 - 120*		*04/21/20 03:10*	*25*
Dibromofluoromethane (Surr)	*89*		*77 - 124*		*04/21/20 03:10*	*25*

Client Sample ID: MW-10

Lab Sample ID: 460-207108-10

Date Collected: 04/16/20 00:00

Matrix: Water

Date Received: 04/17/20 08:04

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2300**		20	4.1	ug/L			04/19/20 19:25	20
Toluene	**620**		20	7.6	ug/L			04/19/20 19:25	20
Ethylbenzene	**2000**		20	6.0	ug/L			04/19/20 19:25	20
Xylenes, Total	**11000**		40	13	ug/L			04/19/20 19:25	20
MTBE	9.3	U	20	9.3	ug/L			04/19/20 19:25	20
Naphthalene	**300**		20	18	ug/L			04/19/20 19:25	20
1,2,4-Trimethylbenzene	**1300**		20	7.5	ug/L			04/19/20 19:25	20

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-207108-1

Client Sample ID: MW-10
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	330		20	6.5	ug/L			04/19/20 19:25	20
Isopropylbenzene	81		20	6.7	ug/L			04/19/20 19:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 123*		*04/19/20 19:25*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/19/20 19:25*	*20*
Bromofluorobenzene	*103*		*76 - 120*		*04/19/20 19:25*	*20*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*04/19/20 19:25*	*20*

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-207108-1

Client Sample ID: MW-1
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	688649	04/20/20 03:27	KLB	TAL EDI

Client Sample ID: MW-2
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	688649	04/20/20 03:01	KLB	TAL EDI

Client Sample ID: MW-3
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	688888	04/21/20 02:46	GXY	TAL EDI

Client Sample ID: MW-4
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	688649	04/20/20 02:34	KLB	TAL EDI

Client Sample ID: MW-5
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	688649	04/20/20 01:41	KLB	TAL EDI

Client Sample ID: MW-6
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	688649	04/20/20 02:08	KLB	TAL EDI

Client Sample ID: MW-7
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Lab Sample ID: 460-207108-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	688599	04/19/20 16:47	KLB	TAL EDI

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-207108-1

Client Sample ID: MW-8

Lab Sample ID: 460-207108-8
Matrix: Water
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	688649	04/20/20 01:15	KLB	TAL EDI

Client Sample ID: MW-9

Lab Sample ID: 460-207108-9
Matrix: Water
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	688888	04/21/20 03:10	GXY	TAL EDI

Client Sample ID: MW-10

Lab Sample ID: 460-207108-10
Matrix: Water
Date Collected: 04/16/20 00:00
Date Received: 04/17/20 08:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	688599	04/19/20 19:25	KLB	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-207108-1
Project/Site: Warminster Sunoco

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-21
Pennsylvania	NELAP	68-00522	02-28-21
Rhode Island	State	LAO00132	12-31-20
USDA	US Federal Programs	P330-18-00135	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-207108-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-207108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-207108-1	MW-1	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-2	MW-2	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-3	MW-3	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-4	MW-4	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-5	MW-5	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-6	MW-6	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-7	MW-7	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-8	MW-8	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-9	MW-9	Water	04/16/20 00:00	04/17/20 08:04	
460-207108-10	MW-10	Water	04/16/20 00:00	04/17/20 08:04	

450-KOP

Chain of Custody Record

403474

eurofins | Environment Testing TestAmerica

3.5°C Kop-2

Address:

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: PADEP

TAL-8210

Client Contact	Project Manager: John Dzielski	Site Contact:	Date: 4/16/2020	COC No:
Company Name: RT Environmental	Tel/Email: jdzielski@rtenv.com	Lab Contact: Julie Miller	Carrier:	1 of 1 COCs
Address:	Analysis Turnaround Time			Sampler: Aaron Schneider
City/State/Zip: KOP, PA	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks Standard			Lab Sampling:
Project Name: Warminster Sunoco	☐ 1 week			Job / SDG No.:
Site:	☐ 2 days			
PO# 73057-02-01	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PADEP unleaded (GRO)	Sample Specific Notes:
MW-1	4/16/20		G	GW	3			X	
MW-2								X	
MW-3								X	
MW-4								X	
MW-5								X	
MW-6								X	
MW-7								X	
MW-8								X	
MW-9								X	
MW-10								X	

460-207108 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Send results to aschneider@rtenv.com

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Aaron Schneider	RT ENV	4/16/2020		TA-KOP	4/17/20 804
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TA-KOP	4/17/20	TA Esh	04118 20	11:21
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
TA Esh	04118 20	12:31	Kyara Knorr	TA	4/18/20 1230

4/23/2020

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 207108

Number of Coolers: 1 IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.5 °C	3.5 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JK Date: 4/17/20

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc. Job Number: 460-207108-1

Login Number: 207108 **List Source: Eurofins TestAmerica, Edison**
List Number: 1
Creator: Keehn, Jeffrey S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample times collected on COC.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-211445-1
Client Project/Site: Warminster Sunoco

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: John Lydzinski

Jill Miller

Authorized for release by:
6/25/2020 8:53:59 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-211445-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-211445-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-211445-1

Comments
No additional comments.

Receipt
The samples were received on 6/19/2020 11:54 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-3 (460-211445-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4 (460-211445-4), MW-5 (460-211445-5), MW-6 (460-211445-6) and MW-9 (460-211445-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-10 (460-211445-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: MW-1

Lab Sample ID: 460-211445-1

Date Collected: 06/18/20 12:36

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			06/25/20 00:00	1
Toluene	0.38	U	1.0	0.38	ug/L			06/25/20 00:00	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			06/25/20 00:00	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			06/25/20 00:00	1
MTBE	0.47	U	1.0	0.47	ug/L			06/25/20 00:00	1
Naphthalene	0.88	U	1.0	0.88	ug/L			06/25/20 00:00	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			06/25/20 00:00	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			06/25/20 00:00	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			06/25/20 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*06/25/20 00:00*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/25/20 00:00*	*1*
Bromofluorobenzene	*88*		*76 - 120*		*06/25/20 00:00*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*06/25/20 00:00*	*1*

Client Sample ID: MW-2

Lab Sample ID: 460-211445-2

Date Collected: 06/18/20 13:31

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**13**		1.0	0.20	ug/L			06/25/20 00:23	1
Toluene	**70**		1.0	0.38	ug/L			06/25/20 00:23	1
Ethylbenzene	**60**		1.0	0.30	ug/L			06/25/20 00:23	1
Xylenes, Total	**190**		2.0	0.65	ug/L			06/25/20 00:23	1
MTBE	0.47	U	1.0	0.47	ug/L			06/25/20 00:23	1
Naphthalene	**5.5**		1.0	0.88	ug/L			06/25/20 00:23	1
1,2,4-Trimethylbenzene	**58**		1.0	0.37	ug/L			06/25/20 00:23	1
1,3,5-Trimethylbenzene	**9.1**		1.0	0.33	ug/L			06/25/20 00:23	1
Isopropylbenzene	**20**		1.0	0.34	ug/L			06/25/20 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*		*06/25/20 00:23*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/25/20 00:23*	*1*
Bromofluorobenzene	*95*		*76 - 120*		*06/25/20 00:23*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*06/25/20 00:23*	*1*

Client Sample ID: MW-3

Lab Sample ID: 460-211445-3

Date Collected: 06/18/20 14:38

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**520**		5.0	1.0	ug/L			06/24/20 15:50	5
Toluene	**140**		5.0	1.9	ug/L			06/24/20 15:50	5
Ethylbenzene	**840**		5.0	1.5	ug/L			06/24/20 15:50	5
Xylenes, Total	**1300**		10	3.3	ug/L			06/24/20 15:50	5
MTBE	**3.0**	**J**	5.0	2.3	ug/L			06/24/20 15:50	5
Naphthalene	**180**		5.0	4.4	ug/L			06/24/20 15:50	5
1,2,4-Trimethylbenzene	**1000**		5.0	1.9	ug/L			06/24/20 15:50	5

Client Sample ID: MW-3

Lab Sample ID: 460-211445-3

Date Collected: 06/18/20 14:38

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	73		5.0	1.6	ug/L			06/24/20 15:50	5
Isopropylbenzene	72		5.0	1.7	ug/L			06/24/20 15:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*06/24/20 15:50*	*5*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/24/20 15:50*	*5*
Bromofluorobenzene	*91*		*76 - 120*		*06/24/20 15:50*	*5*
Dibromofluoromethane (Surr)	*90*		*77 - 124*		*06/24/20 15:50*	*5*

Client Sample ID: MW-4

Lab Sample ID: 460-211445-4

Date Collected: 06/18/20 14:06

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1600		20	4.1	ug/L			06/25/20 03:46	20
Toluene	430		20	7.6	ug/L			06/25/20 03:46	20
Ethylbenzene	1500		20	6.0	ug/L			06/25/20 03:46	20
Xylenes, Total	8100		40	13	ug/L			06/25/20 03:46	20
MTBE	9.3	U	20	9.3	ug/L			06/25/20 03:46	20
Naphthalene	310		20	18	ug/L			06/25/20 03:46	20
1,2,4-Trimethylbenzene	1400		20	7.5	ug/L			06/25/20 03:46	20
1,3,5-Trimethylbenzene	350		20	6.5	ug/L			06/25/20 03:46	20
Isopropylbenzene	73		20	6.7	ug/L			06/25/20 03:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*06/25/20 03:46*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/25/20 03:46*	*20*
Bromofluorobenzene	*88*		*76 - 120*		*06/25/20 03:46*	*20*
Dibromofluoromethane (Surr)	*88*		*77 - 124*		*06/25/20 03:46*	*20*

Client Sample ID: MW-5

Lab Sample ID: 460-211445-5

Date Collected: 06/18/20 15:31

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	370		5.0	1.0	ug/L			06/25/20 00:45	5
Toluene	300		5.0	1.9	ug/L			06/25/20 00:45	5
Ethylbenzene	620		5.0	1.5	ug/L			06/25/20 00:45	5
Xylenes, Total	1600		10	3.3	ug/L			06/25/20 00:45	5
MTBE	2.3	U	5.0	2.3	ug/L			06/25/20 00:45	5
Naphthalene	110		5.0	4.4	ug/L			06/25/20 00:45	5
1,2,4-Trimethylbenzene	680		5.0	1.9	ug/L			06/25/20 00:45	5
1,3,5-Trimethylbenzene	76		5.0	1.6	ug/L			06/25/20 00:45	5
Isopropylbenzene	54		5.0	1.7	ug/L			06/25/20 00:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*06/25/20 00:45*	*5*
Toluene-d8 (Surr)	*114*		*80 - 120*		*06/25/20 00:45*	*5*
Bromofluorobenzene	*98*		*76 - 120*		*06/25/20 00:45*	*5*

Client Sample ID: MW-5

Lab Sample ID: 460-211445-5

Date Collected: 06/18/20 15:31

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*06/25/20 00:45*	*5*

Client Sample ID: MW-6

Lab Sample ID: 460-211445-6

Date Collected: 06/18/20 11:51

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**440**		10	2.0	ug/L			06/25/20 03:24	10
Toluene	**690**		10	3.8	ug/L			06/25/20 03:24	10
Ethylbenzene	**960**		10	3.0	ug/L			06/25/20 03:24	10
Xylenes, Total	**3700**		20	6.5	ug/L			06/25/20 03:24	10
MTBE	4.7	U	10	4.7	ug/L			06/25/20 03:24	10
Naphthalene	**160**		10	8.8	ug/L			06/25/20 03:24	10
1,2,4-Trimethylbenzene	**890**		10	3.7	ug/L			06/25/20 03:24	10
1,3,5-Trimethylbenzene	**140**		10	3.3	ug/L			06/25/20 03:24	10
Isopropylbenzene	**52**		10	3.4	ug/L			06/25/20 03:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*06/25/20 03:24*	*10*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/25/20 03:24*	*10*
Bromofluorobenzene	*92*		*76 - 120*		*06/25/20 03:24*	*10*
Dibromofluoromethane (Surr)	*91*		*77 - 124*		*06/25/20 03:24*	*10*

Client Sample ID: MW-7

Lab Sample ID: 460-211445-7

Date Collected: 06/18/20 10:15

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.6**		1.0	0.20	ug/L			06/25/20 03:01	1
Toluene	0.38	U	1.0	0.38	ug/L			06/25/20 03:01	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			06/25/20 03:01	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			06/25/20 03:01	1
MTBE	**2.7**		1.0	0.47	ug/L			06/25/20 03:01	1
Naphthalene	0.88	U	1.0	0.88	ug/L			06/25/20 03:01	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			06/25/20 03:01	1
1,3,5-Trimethylbenzene	0.33	U	1.0	0.33	ug/L			06/25/20 03:01	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			06/25/20 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*06/25/20 03:01*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/25/20 03:01*	*1*
Bromofluorobenzene	*80*		*76 - 120*		*06/25/20 03:01*	*1*
Dibromofluoromethane (Surr)	*82*		*77 - 124*		*06/25/20 03:01*	*1*

Client Sample ID: MW-8

Lab Sample ID: 460-211445-8

Date Collected: 06/18/20 11:00

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	300		1.0	0.20	ug/L			06/24/20 14:42	1
Toluene	60		1.0	0.38	ug/L			06/24/20 14:42	1
Ethylbenzene	94		1.0	0.30	ug/L			06/24/20 14:42	1
Xylenes, Total	540		2.0	0.65	ug/L			06/24/20 14:42	1
MTBE	2.1		1.0	0.47	ug/L			06/24/20 14:42	1
Naphthalene	40		1.0	0.88	ug/L			06/24/20 14:42	1
1,2,4-Trimethylbenzene	170		1.0	0.37	ug/L			06/24/20 14:42	1
1,3,5-Trimethylbenzene	26		1.0	0.33	ug/L			06/24/20 14:42	1
Isopropylbenzene	19		1.0	0.34	ug/L			06/24/20 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 123*		*06/24/20 14:42*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/24/20 14:42*	*1*
Bromofluorobenzene	*92*		*76 - 120*		*06/24/20 14:42*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 124*		*06/24/20 14:42*	*1*

Client Sample ID: MW-9

Lab Sample ID: 460-211445-9

Date Collected: 06/18/20 16:05

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	270		2.0	0.41	ug/L			06/25/20 02:16	2
Toluene	52		2.0	0.76	ug/L			06/25/20 02:16	2
Ethylbenzene	68		2.0	0.60	ug/L			06/25/20 02:16	2
Xylenes, Total	440		4.0	1.3	ug/L			06/25/20 02:16	2
MTBE	2.0		2.0	0.93	ug/L			06/25/20 02:16	2
Naphthalene	33		2.0	1.8	ug/L			06/25/20 02:16	2
1,2,4-Trimethylbenzene	130		2.0	0.75	ug/L			06/25/20 02:16	2
1,3,5-Trimethylbenzene	18		2.0	0.65	ug/L			06/25/20 02:16	2
Isopropylbenzene	15		2.0	0.67	ug/L			06/25/20 02:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 123*		*06/25/20 02:16*	*2*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/25/20 02:16*	*2*
Bromofluorobenzene	*95*		*76 - 120*		*06/25/20 02:16*	*2*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*06/25/20 02:16*	*2*

Client Sample ID: MW-10

Lab Sample ID: 460-211445-10

Date Collected: 06/18/20 16:51

Matrix: Water

Date Received: 06/19/20 11:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2000		20	4.1	ug/L			06/25/20 14:52	20
Toluene	3200		20	7.6	ug/L			06/25/20 14:52	20
Ethylbenzene	2000		20	6.0	ug/L			06/25/20 14:52	20
Xylenes, Total	11000		40	13	ug/L			06/25/20 14:52	20
MTBE	9.3	U	20	9.3	ug/L			06/25/20 14:52	20
Naphthalene	280		20	18	ug/L			06/25/20 14:52	20
1,2,4-Trimethylbenzene	1400		20	7.5	ug/L			06/25/20 14:52	20

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-211445-1

Client Sample ID: MW-10
Date Collected: 06/18/20 16:51
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	330		20	6.5	ug/L			06/25/20 14:52	20
Isopropylbenzene	83		20	6.7	ug/L			06/25/20 14:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*06/25/20 14:52*	*20*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/25/20 14:52*	*20*
Bromofluorobenzene	*92*		*76 - 120*		*06/25/20 14:52*	*20*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*06/25/20 14:52*	*20*

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-211445-1

Client Sample ID: MW-1
Date Collected: 06/18/20 12:36
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	703531	06/25/20 00:00	GXY	TAL EDI

Client Sample ID: MW-2
Date Collected: 06/18/20 13:31
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	703531	06/25/20 00:23	GXY	TAL EDI

Client Sample ID: MW-3
Date Collected: 06/18/20 14:38
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	703379	06/24/20 15:50	CJM	TAL EDI

Client Sample ID: MW-4
Date Collected: 06/18/20 14:06
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	703531	06/25/20 03:46	GXY	TAL EDI

Client Sample ID: MW-5
Date Collected: 06/18/20 15:31
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	703531	06/25/20 00:45	GXY	TAL EDI

Client Sample ID: MW-6
Date Collected: 06/18/20 11:51
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	703531	06/25/20 03:24	GXY	TAL EDI

Client Sample ID: MW-7
Date Collected: 06/18/20 10:15
Date Received: 06/19/20 11:54

Lab Sample ID: 460-211445-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	703531	06/25/20 03:01	GXY	TAL EDI

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-211445-1

Client Sample ID: MW-8

Lab Sample ID: 460-211445-8

Date Collected: 06/18/20 11:00

Matrix: Water

Date Received: 06/19/20 11:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	703379	06/24/20 14:42	CJM	TAL EDI

Client Sample ID: MW-9

Lab Sample ID: 460-211445-9

Date Collected: 06/18/20 16:05

Matrix: Water

Date Received: 06/19/20 11:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	703531	06/25/20 02:16	GXY	TAL EDI

Client Sample ID: MW-10

Lab Sample ID: 460-211445-10

Date Collected: 06/18/20 16:51

Matrix: Water

Date Received: 06/19/20 11:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	703653	06/25/20 14:52	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RT Environmental Services, Inc. Job ID: 460-211445-1
Project/Site: Warminster Sunoco

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-21
Pennsylvania	NELAP	68-00522	02-28-21
Rhode Island	State	LAO00132	12-31-20
USDA	US Federal Programs	P330-18-00135	05-03-21

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-211445-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco

Job ID: 460-211445-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-211445-1	MW-1	Water	06/18/20 12:36	06/19/20 11:54	
460-211445-2	MW-2	Water	06/18/20 13:31	06/19/20 11:54	
460-211445-3	MW-3	Water	06/18/20 14:38	06/19/20 11:54	
460-211445-4	MW-4	Water	06/18/20 14:06	06/19/20 11:54	
460-211445-5	MW-5	Water	06/18/20 15:31	06/19/20 11:54	
460-211445-6	MW-6	Water	06/18/20 11:51	06/19/20 11:54	
460-211445-7	MW-7	Water	06/18/20 10:15	06/19/20 11:54	
460-211445-8	MW-8	Water	06/18/20 11:00	06/19/20 11:54	
460-211445-9	MW-9	Water	06/18/20 16:05	06/19/20 11:54	
460-211445-10	MW-10	Water	06/18/20 16:51	06/19/20 11:54	

450-KOP

Chain of Custody Record 425814

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3.1 KOP-2

Address:

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: PADEP

TAL-8210

Client Contact	Project Manager: John Lydzinski	Site Contact:	Date: 6/18/2020	COC No:
Company Name: RT Environmental	Tel/Email: jlydzinski@rtenv.com	Lab Contact: Jill Reiter	Carrier:	1 of 1 COCs
Address: 215 W. Church Road	Analysis Turnaround Time: ☒ CALENDAR DAYS ☐ WORKING DAYS			Sampler: Sean Schneider
City/State/Zip: KOP, PA	TAT if different from Below: Standard			For Lab Use Only:
Phone:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Walk-in Client:
Fax:				Lab Sampling:
Project Name: Warminster Sunoco				Job / SDG No.:
Site:				
PO# 73057-02-01				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PADEP Unfiltered Gasoline	Sample Specific Notes
MW-1	6/18/2020	12:36	G	GW	3			X	
MW-2		1:31						X	
MW-3		2:38						X	
MW-4		2:06						X	
MW-5		3:31						X	
MW-6		11:51						X	
MW-7		10:15						X	
MW-8		11:00						X	
MW-9		4:05						X	
MW-10		4:51						X	

460-211445 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Email results to aschneider@rtenv.com

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	RT ENV	6/19/2020		DP&G	6/19/20 1154
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DP&G	6/19/20		ETA	6/19/20 1645
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	ETA	6/19/20	1930	TAL	6/19/20 1930

6/25/2020

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 211445

Number of Coolers: 1 IR Gun # KOP-2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.1 °C	3.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JV Date: 6/19/20

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-211445-1

Login Number: 211445
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Soil Vapor

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ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-53771-1
Client Project/Site: Warminster Sunoco SCR

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: Craig Herr

Jill Miller

Authorized for release by:
6/2/2020 11:28:23 AM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco SCR

Job ID: 200-53771-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco SCR

Job ID: 200-53771-1

Job ID: 200-53771-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative
200-53771-1

Comments
No additional comments.

Receipt
The sample was received on 5/28/2020 10:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

Air Toxics
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SG-2

Lab Sample ID: 200-53771-1

Date Collected: 05/26/20 12:00
Matrix: Air
Date Received: 05/28/20 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/01/20 21:44	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/01/20 21:44	1
Benzene	0.20	U	0.20		ppb v/v			06/01/20 21:44	1
Cumene	0.20	U	0.20		ppb v/v			06/01/20 21:44	1
Ethylbenzene	**0.29**		0.20		ppb v/v			06/01/20 21:44	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/01/20 21:44	1
Toluene	**0.57**		0.20		ppb v/v			06/01/20 21:44	1
Xylene (total)	**0.92**		0.70		ppb v/v			06/01/20 21:44	1
Naphthalene	**1.2**		0.50		ppb v/v			06/01/20 21:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1	U	1		ug/m3			06/01/20 21:44	1
1,3,5-Trimethylbenzene	1	U	1		ug/m3			06/01/20 21:44	1
Benzene	0.6	U	0.6		ug/m3			06/01/20 21:44	1
Cumene	1	U	1		ug/m3			06/01/20 21:44	1
Ethylbenzene	**1**		0.9		ug/m3			06/01/20 21:44	1
Methyl tert-butyl ether	0.7	U	0.7		ug/m3			06/01/20 21:44	1
Toluene	**2**		0.8		ug/m3			06/01/20 21:44	1
Xylene (total)	**4**		3		ug/m3			06/01/20 21:44	1
Naphthalene	**6**		3		ug/m3			06/01/20 21:44	1

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco SCR

Job ID: 200-53771-1

Client Sample ID: SG-2

Date Collected: 05/26/20 12:00
Date Received: 05/28/20 10:30

Lab Sample ID: 200-53771-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	155334	06/01/20 21:44	A1B	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: RT Environmental Services, Inc.
Job ID: 200-53771-1
Project/Site: Warminster Sunoco SCR

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20
Wisconsin	State	399133350	08-31-20

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco SCR

Job ID: 200-53771-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: Warminster Sunoco SCR

Job ID: 200-53771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-53771-1	SG-2	Air	05/26/20 12:00	05/28/20 10:30	Air Canister (6-Liter) #4111

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

450-KOP

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Craig Herr	**Samples Collected By:** Aaron Schneider	COC No: 1 of 1 COCs
Company Name: RT Environmental	Phone:		
Address: 215 W. Church Rd	Email: cherr@rtenv.com		For Lab Use Only:
City/State/Zip: KOP, PA			Walk-in Client:
Phone:	Site Contact: Aaron Schneider		Lab Sampling:
FAX:	Tel/Fax: aschneider@rtenv.com		
Project Name: Marinster Sunoco SCR	**Analysis Turnaround Time**		Job / SDG No.:
Site/Location:	Standard (Specific): Standard		(See below for Add'l Items)
PO# 73057-02-05	Rush (Specify):		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SG-2	5/26/20	11:37	5/26/20	12:00	-29.5	-6	4582	4111							X				X				Benzene, toluene, ethyl benzene, xylenes (total) Cumene MTBE Naphthalene 1,2,4 Trimethyl Benzene 1,3,5 trimethyl Benzene

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

200-53771 COC

Special Instructions/QC Requirements & Comments: email results to aschneider@rtenv.com

Samples Shipped by:	**Date / Time:** 5/27/2020	**Samples Received by:** TAKOP	5/27/20 1221
Samples Relinquished by: TA-KOP	**Date / Time:** 5/27/20 1252	**Received by:**	
Relinquished by:	**Date / Time:**	**Received by:** TABL	5/28/20 1030
Lab Use Only:	**Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.13, dated 4/10/2019

EUROFINS TESTAMERICA KOP SC
1010 W. 9TH AVE
SUITE 50
KING OF PRUSSIA, PA 19406
UNITED STATES US
ACTWGT: 15.00 LB MAN
CAD: 0865605/CAFE3311
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS TESTAMERICA - BURLINGTON
30 COMMUNITY DR
SOUTH BURLINGTON VT 054036809
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
TRK# 0201 1763 5417 7801
THU - 28 MAY 10:30A
PRIORITY OVERNIGHT
NL BTVA
05403
VT-US BTV

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc. Job Number: 200-53771-1

Login Number: 53771 **List Source: Eurofins TestAmerica, Burlington**
List Number: 1
Creator: Lavigne, Scott M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1274082,083
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-54357-1
Client Project/Site: 610 York Road

For:
RT Environmental Services, Inc.
215 West Church Road
Suite 300
King of Prussia, Pennsylvania 19406

Attn: John Lydzinski

Jill Miller

Authorized for release by:
7/20/2020 11:58:45 AM

Jill Miller, Senior Project Manager
(484)685-0871
Jill.Miller@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: RT Environmental Services, Inc.
Project/Site: 610 York Road

Job ID: 200-54357-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-54357-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative
200-54357-1

Comments
No additional comments.

Receipt
The sample was received on 7/14/2020 10:36 AM; the sample arrived in good condition, and where required, properly preserved and on ice.

Air Toxics
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: RT Environmental Services, Inc.
Project/Site: 610 York Road

Job ID: 200-54357-1

Client Sample ID: SG-2
Date Collected: 07/13/20 08:27
Date Received: 07/14/20 10:36
Sample Container: Summa Canister 1L

Lab Sample ID: 200-54357-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
Toluene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
Ethylbenzene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
m,p-Xylene	5.0	U	5.0		ppb v/v			07/15/20 02:11	10
o-Xylene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
Xylene (total)	7.0	U	7.0		ppb v/v			07/15/20 02:11	10
Methyl tert-butyl ether	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
Cumene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
1,3,5-Trimethylbenzene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
1,2,4-Trimethylbenzene	2.0	U	2.0		ppb v/v			07/15/20 02:11	10
Naphthalene	5.0	U	5.0		ppb v/v			07/15/20 02:11	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6	U	6		ug/m3			07/15/20 02:11	10
Toluene	8	U	8		ug/m3			07/15/20 02:11	10
Ethylbenzene	9	U	9		ug/m3			07/15/20 02:11	10
m,p-Xylene	22	U	22		ug/m3			07/15/20 02:11	10
o-Xylene	9	U	9		ug/m3			07/15/20 02:11	10
Xylene (total)	30	U	30		ug/m3			07/15/20 02:11	10
Methyl tert-butyl ether	7	U	7		ug/m3			07/15/20 02:11	10
Cumene	10	U	10		ug/m3			07/15/20 02:11	10
1,3,5-Trimethylbenzene	10	U	10		ug/m3			07/15/20 02:11	10
1,2,4-Trimethylbenzene	10	U	10		ug/m3			07/15/20 02:11	10
Naphthalene	26	U	26		ug/m3			07/15/20 02:11	10

Lab Chronicle

Client: RT Environmental Services, Inc.
Project/Site: 610 York Road

Job ID: 200-54357-1

Client Sample ID: SG-2

Lab Sample ID: 200-54357-1

Date Collected: 07/13/20 08:27

Matrix: Air

Date Received: 07/14/20 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	156787	07/15/20 02:11	K1P	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: RT Environmental Services, Inc.
Job ID: 200-54357-1
Project/Site: 610 York Road

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-16-21
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20
Wisconsin	State	399133350	08-31-20

Method Summary

Client: RT Environmental Services, Inc.
Project/Site: 610 York Road

Job ID: 200-54357-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: RT Environmental Services, Inc.
Project/Site: 610 York Road

Job ID: 200-54357-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-54357-1	SG-2	Air	07/13/20 08:27	07/14/20 10:36	Air Canister (1-Liter) #6438

450-KOP

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** John Lydzinski	**Samples Collected By:** Jeremy Xin
Company Name: RT Environmental Services	**Phone:**	
Address:	**Email:**	
City/State/Zip King of Prussia, PA		
Phone:	**Site Contact:** Jeremy Xin	
FAX:	**Tel/Fax**	
Project Name: 610 York Rd	**Analysis Turnaround Time**	
Site/Location: Warminster, PA	**Standard (Specific):** 5-7 days	
PO# 73057-02-07	**Rush (Specify):**	

COC No: 1 of 1 COCs

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Job / SDG No.:
(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SG-2	7/13/20	8:15	~~7/13/20~~ 7/14/20	8:27	-27	-3	5325	6438							✓								PA DEP Unleaded Gasoline

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)		
	Interior	Ambient
Start		
Stop		

200-54357 COC

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:**	**Samples Received by:**
Samples Relinquished by: Jeremy Xin - RT	**Date / Time:** 7/13/20 9:26am	**Received by:** TA-KOP
Relinquished by: TA-KOP	**Date / Time:** 7/13/20 930	**Received by:** 7/14/2020 10:35
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.13, dated 4/10/2019

DATE
SIGNATURE
eurofins
Environment Testing
TestAmerica
Part # 159469-434 RIT2 EXP 12/20
CRD1 0865605/CAFE3311
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS TESTAMERICA - BURLINGTON
30 COMMUNITY DR
SOUTH BURLINGTON VT 054036809
(802) 660-1990
JEFF KREMA
EUROFINS TESTAMERICA KOP SC
1010 W. 8TH AVE
SUITE 50
KING OF PRUSSIA, PA 19406
UNITED STATES US
FedEx Express
TUE - 14 JUL 10:30A
PRIORITY OVERNIGHT
TRK# 0201 1763 5417 8462
NL BTVA
05403
VT-US BTV

Login Sample Receipt Checklist

Client: RT Environmental Services, Inc. Job Number: 200-54357-1

Login Number: 54357 **List Source: Eurofins TestAmerica, Burlington**
List Number: 1
Creator: Lavigne, Scott M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1247206
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B

Tank Closure Report

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

09-30778
Facility I.D.

FINCH PETRO
Facility Name

Warminster — Municipality
Bucks — County

September 25, 2019
Date Prepared

Ijmal M. Ali
Name of Person Submitting Report
(Please Print)

Finch Petro, LLC
Company Name
(If Applicable)

Owner
Title

Closure Method (Check all that apply):

- ☒ UST Removal
- ☐ UST Closure-In-Place
- ☐ UST Change-In-Service

Site Assessment Results (Check all that apply):

- ☐ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☐ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☒ Obvious, Localized Contamination - Sample Results Meet Standards/Levels - Soil
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☒ Obvious, Extensive Contamination - Groundwater

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

DATE RECEIVED: _____

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing underground storage tank systems may use this form to demonstrate that a storage tank system closure was performed in accordance with technical guidance document 263-4500-601 "Closure Requirements for Underground Storage Tank Systems". PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 09-30778
2. Facility Name Finch Petro
3. Facility County Bucks
4. Facility Municipality Warminster
5. Facility Address 610 York Road Warminister, PA 18974
6. Facility Contact Person Ijmal M. Ali
7. Facility Telephone Number (215) 956-1670
8. Owner Name Finch Petro, LLC
9. Owner Mailing Address 610 York Road Warminister, PA 18974
10. Description of Underground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		- -	- -	- -	- -
Description of Underground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		001	002	003	
Total Capacity (Gallons)		12,000	12,000	12,000	
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☒	☒	☒	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol _____%	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Biodiesel _____%	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance				
	AND				
	Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s):	DEP Tank ID Number:	001	002	003	
Partial Storage Tank System Closure		☐	☐	☐	☐
Tank ☐ N/A	a. Removal	☒	☒	☒	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping ☐ N/A	a. Removal	☒	☒	☒	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser ☒ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other _____	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

Finch contracted Matt's Valley Petroleum, Inc. (Matt's Valley) to replace the Ultra tank (001) and reline the regular product tanks (002 & 003). Matt's Valley subcontracted the tank removal work to ECI, LLC (ECI) who is a licensed tank removal contractor in PA. Personnel from ECI mobilized to the Site on June 17, 2019 to replace tank 001 with a new 12,000-gallon fiberglass tank. Once the Ultra tank was uncovered, ECI recommended that all three tanks be upgraded with new fiberglass units and feed lines as the existing tanks had been in service for approximately 35-plus years. Based on ECI's recommendation, Finch decided to replace all three units during the tank upgrade. ECI re-mobilized to the project site on Monday July 15, 2019 in order to begin disconnecting electrical connections and other tank components in preparation for tank extraction. Excavation work began on Tuesday July 16th with the removal of fill from around tank 001 by utilizing a JCB 83 L track excavator. Petroleum contaminated pea gravel and soil removed from the excavation were placed/stored on plastic covered asphalt/concrete surrounding the excavation. On Wednesday July 17th Monarch Environmental, Inc. (Monarch) arrived on site to remove of any remaining product and sludge in tanks 002 & 003 before extraction. After allowing the three tanks to naturally vent overnight, ECI proceeded to dismantle the tanks using the excavator bucket and placed the contents into 20-cubic yard rolloff's on July 18th. Tanks 002 & 003 were compacted into one rolloff while tank 001 was place into a second container. RT conducted attainment soil sampling on Tuesday July 24th using a systematic random sampling plan. Due to groundwater seeping into the pit, RT collected twelve (12) sidewall soil samples (refer to Table 1 & Figure 1). Parameters tested were either below the laboratories method detection limits or below the Residential Statewide Health Standard (SHS) Medium Specific Concentration (MSC) for the constituents of concern analyzed. Contaminated soil was removed from the site on August 8, 2019 and transported to the Clean Earth facility in Morrisville. Matt's Valley installed three (3) new 12,000-gallon fiberglass UST's and associated pump lines during August.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

The project Site has historically operated as a retail gasoline service station since the 1950's. The property operated three (3) 12,000-gallon unleaded gasoline underground storage tanks (USTs), dispenser islands and associated piping which were installed in 1983. Tank 001 was taken out of service on September 27, 2018 while tanks 002 & 003 operated until July 15, 2019.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11.

☒ ☐ 13. Original, color photographs of the closure process are attached (i.e., inside of excavation/piping runs, pit water, tanks showing condition).

☒ ☐ 14. An amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 10 / 18 / 2018

☒ ☐ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: 7 / 24 / 2019 Office: Norristown

Yes	N/A	
☒	☐	16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: Usable product was removed from tank 001 (Ultra) by Sunoco in October 2018. Usuable product from the regular gasoline storage tanks (002 & 003) was removed by Sunoco on July 19, 2019.

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
Any unusable product , sludges and wastewater generated during tank cleaning was removed by Monarch Environmental Recycling, Inc. on July 17, 2019. A total of 2,902-gallons was transported to their recycling facility at 108 East Lake Road in Woodstown, NJ. EPA ID: NJD011881174

c. If tank contents were determined/deemed to be hazardous waste, provide:
(1) Generator ID Number: _____
(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

☐	☒	17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning: _____

b. If tank contents were determined/deemed to be hazardous waste, provide:
(1) Generator ID Number: _____
(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
The tanks were crushed on-site and placed in two (2) 20-cubic yard rolloffs. The containers were transported to the A. J. Catagnus, Inc. facility at 1229 W. James Street in Norristown, PA.

☒	☐	19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount 642.5 (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
Contaminated soils from the tank closure operation were transported by B. Blair Corporation to the Clean Earth of Southeast PA. facility in Morrisville on August 8, 2019 (Permit # 301254).

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

_____

Yes	N/A		
☐	☒	20.	Briefly describe the disposition of and amount _____ (tons) of uncontaminated soil and debris (attach analyses):

_____

_____

_____

☐	☒	21.	If the tanks were "Closed-in-Place" provide information below:

a. Briefly describe the tank cleaning process: _____

_____

b. Describe the inert, non-shrinking material placed into the tanks:

_____

I, Ijmal M. Ali _____, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating
(Print Name)
to unsworn falsification to authorities) that I am the owner of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

_____ 9 / 25 / 2019
Signature of Tank Owner Date

Finch Petroleum, LLC
Company Name
(If applicable)

Partner
Title

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 09 - 30778
DEP Tank ID Number(s) 001, 002 & 003

Yes **N/A**

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:

   Contaminated material was removed via excavator and staged on plastic adjacent to tank excavation. Material was covered each night with a plastic tarp.

2. Briefly describe the method of piping system closure and the closure of the piping systems, including the quantity and condition of the piping:

   Piping was closed by removal. Pipe was FRP in excellent condition.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:

   Tank 001 apparaently had a hole in it. Tanks 002 & 003 were in good conditon. All UST's were single wall FRP. No problems encountered during removal.

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:

   UST's were air educted and monitored with an LEL.

☒ ☐ 5. If tanks were cleaned on-site:

   a. Briefly describe the tank cleaning process: All remaining sludge, sediment and product was removed via vacuum truck (Monarch) under the direction of ECI prior to tank removal from the tank field.

   b. If subcontracted, name and address of company that performed the tank cleaning:

☐ ☒ 6. If tanks were "Closed-in-Place", briefly describe the tank fill material:

☒ ☐ 7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Spause (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Signature of Certified Remover

9 / 17 / 2019
Date

4985
Remover Certification Number

1655
Company Certification Number

ECI, LLC
Company Name

240 Farmview Drive
Street

Harleysville, PA 19438
City/Town, State, Zip

215-852-8370
Phone

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 001 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 09 - 30778

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water 13 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1.) Was obvious contamination observed while excavating, sampling or removing the tank system?

☐ NO --------► Conduct confirmatory sampling --------► See end of this section for options on submission and maintenance of closure records --------► Do not complete item C.2. below.

☒ YES --------► Report release to DEP within 24 hours ------► Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills): Contamination consisted of impacted pea gravel and soil within the confins of the tank excavation. Release occurred from Ultra tank (001) which failed the tank tightness testing on September 12, 2018.

------► Complete item C.2. below.

2.) Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES -----► Remove or remediate contaminated soil -----► Conduct confirmatory sampling -----► See end of this section for options on submission and maintenance of closure records -----► Call Indemnification Fund (717-787-0763).

☒ NO -----► Continue Interim Remedial Actions -----► See end of this section for options on submission and maintenance of closure records -----► Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO -----► Conduct confirmatory sampling -----► See end of this section for options on submission and maintenance of closure records.

☐ YES -----► Report release to DEP within 24 hours -----► Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

Continue with corrective action -----► See end of this section for options on submission and maintenance of closure records -----► Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Craig N. Herr, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Craig Herr
Signature of Person Performing Site Assessment

9 / 25 / 2019
Date

Senior Consultant
Title of Person Performing Site Assessment

RT Environmental Services, Inc.
Name of Company Performing Site Assessment

610-265-1510 Ext. 215
Telephone Number of Person Performing Site Assessment

UNDERGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 09 - 30778

Sample I.D. (See diagram)	Parameter	Analytical Method[1]		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
(See Table 1)							/ /	/ /
							/ /	/ /
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[1] Where EPA Method 5035 is used, indicate sample collection option in the right-hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.
E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.
N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large-scale map of the site where storage tank systems were closed. Scales between 1" = 10 and 1" = 100 feet frequently work well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tank systems removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also, show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: 03 - 30778

County: Bucks

Township/Borough: Warminister (See Attached Figure 1)

TABLE 1

Table 1
Summary of Laboratory Analytical Results
Attainment Soil Sampling
July 26, 2019
Finch Petroleum, LLC
610 York Road
Warminster Township, Bucks County, Pennsylvania
RT Project Number: 73057-01

Analyte[1]			Constituents[2]								
			Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	1, 2, 4-Trimethylbenzene	1, 3, 5-Trimethylbenzene	Total Xylenes
PADEP RSG MSC[3]			0.5	70	600	2	25	100	8.4	2.3	1,000
Soil SHS VI Screening Values (mg/kg)[4]			0.13	46	600	0.28	25	44	8.4	74	990
Sample ID	Date Sampled	Sample Depth (Feet)									
CS-1	7/26/2019	10.0	<0.012	<0.018	<0.019	<0.0077	<0.052	<0.015	<0.014	<0.015	<0.017
CS-2	7/26/2019	8.0	<0.0086	0.013	<0.014	<0.0055	0.068	0.072	0.067	0.031	0.17
CS-3	7/26/2019	10.0	<0.011	<0.016	<0.017	<0.0070	<0.048	<0.014	<0.012	<0.014	0.017
CS-4	7/26/2019	6.0	<0.012	<0.017	<0.018	<0.0075	<0.050	<0.014	<0.013	<0.014	<0.016
CS-5	7/26/2019	6.0	<0.088	<0.013	<0.014	<0.0057	<0.038	<0.011	<0.010	<0.011	<0.012
CS-6	7/26/2019	7.0	<0.0099	<0.015	<0.016	<0.0064	<0.043	<0.012	<0.011	<0.012	<0.014
CS-7	7/26/2019	12.0	<0.018	<0.027	<0.028	<0.012	<0.078	0.048	0.85	0.49	1.0
CS-8	7/26/2019	11.0	<0.012	<0.017	<0.019	<0.0076	<0.051	0.026	<0.013	<0.015	0.023
CS-9	7/26/2019	5.0	<0.0098	<0.015	<0.016	<0.0063	<0.043	<0.012	<0.011	<0.012	<0.014
CS-10	7/26/2019	12.0	<0.0097	<0.014	<0.015	<0.0062	<0.042	<0.012	<0.011	<0.012	<0.013
CS-11	7/26/2019	9.0	<0.011	<0.016	<0.017	<0.0070	<0.047	<0.013	<0.012	<0.013	<0.015
CS-12	7/26/2019	8.0	<0.010	<0.016	<0.017	<0.0067	<0.046	<0.013	<0.012	<0.013	<0.014
PADEP RSG MSC[3]			0.5	70	600	2	25	100	8.4	2.3	1,000

Notes:

(1) - Soil samples were analyzed for the PADEP short list of required unleaded gasoline parameters.

(2) - All laboratory results reported in milligrams per kilogram (mg/kg).

(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Medium-Specific Concentrations (August 27, 2016).

MSC - Medium-Specific Concentration

PADEP - Pennsylvania Department of Environmental Protection

RSG - Residential Soil-to-Groundwater

<0.00016 - Compound not detected above the listed laboratory detection limit

Bold - Compound was reported above its Act 2 residential MSC.

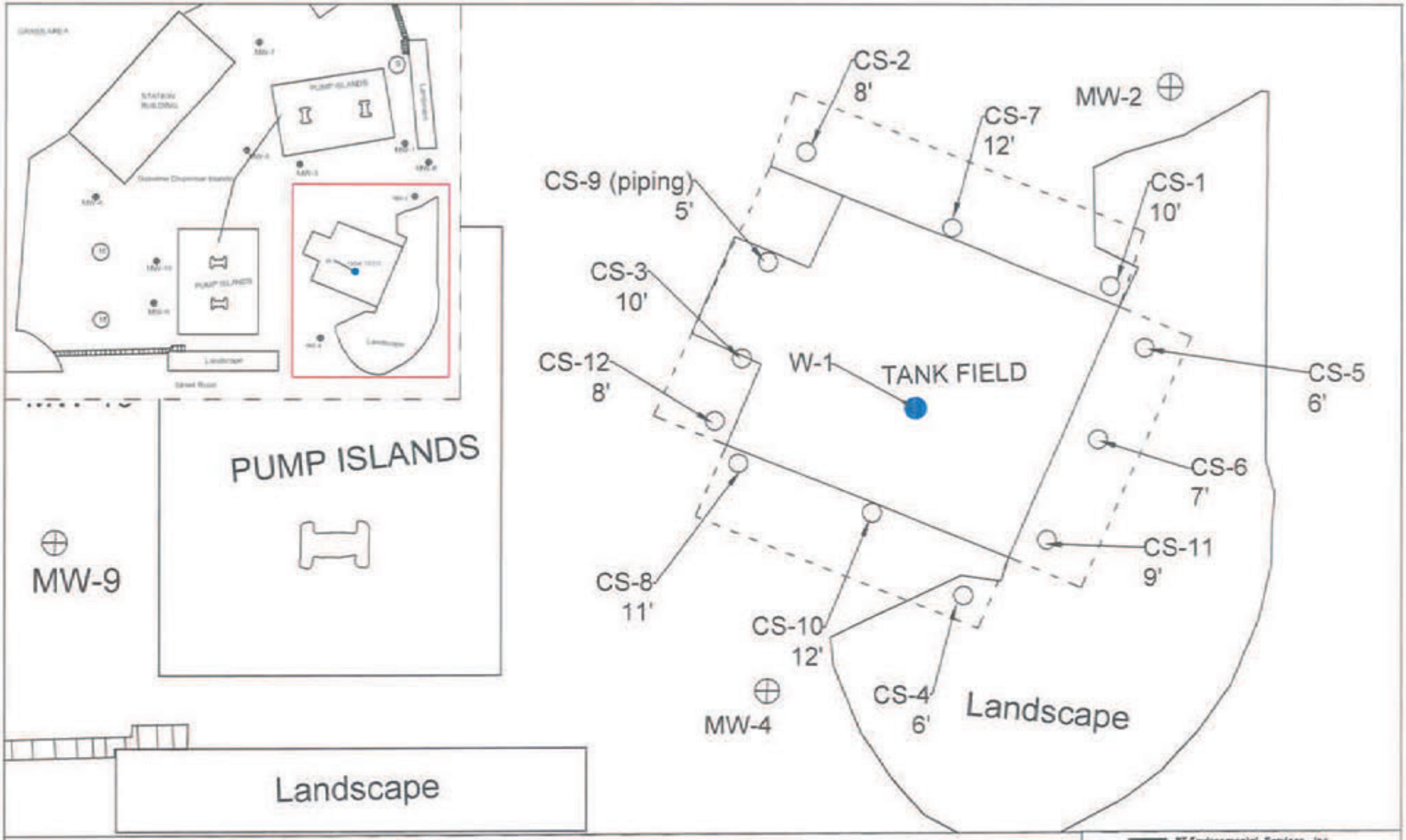
TABLE 2

Table 2
Summary of Laboratory Analytical Results
Excavation Groundwater Sample
July 19, 2019
Finch Petroleum, LLC
610 York Road
Warminster Township, Bucks County, Pennsylvania
RT Project Number: 73057-01

Sample ID:	Direct Contact Residential	Direct Contact Non-Residential	W-1
Lab ID:			460-187013-1
Sample Date:			7/19/2019
1,2,4-Trimethylbenzene	15	62	**2,000**
1,3,5-Trimethylbenzene	420	1200	**510**
Benzene	5	5	**5,300**
Ethylbenzene	700	700	**1,900**
Isopropylbenzene	840	3500	93
MTBE	20	20	**61**
Naphthalene	100	100	**500**
Toluene	1000	1000	**27,000**
Xylenes, Total	10000	10000	**16,000**

Notes:
Direct Contact R = MSC (Residential Used Aquifer TDS =< 2500)
Direct Contact NR = MSC (NonResidential Used Aquifer TDS =< 2500)
Bold and Highlighted = Detection over the lowest standard
Bold = Detection
Site specific standard 12 ug/L benzene

FIGURE 1



RT Environmental Services, Inc.
215 West Church Road
King of Prussia, PA 19406

FIGURE 1
ATTAINMENT SOIL SAMPLE LOCATION MAP

610 YORK ROAD
WARMINSTER, PA

Prepared For:
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA 18974

DRAWING # 73057-01	AUTOCAD FILE	ENGINEER	DESIGNED	DRAWN/CHECKED AS
SCALE 1" = 50'	DRAWING NUMBER y:\r1 projects\73000 series\73057-01\figures.dwg			REVISION 1
DATE 7/30/2018				

PHOTOGRAPHIC DOCUMENTATION

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 1
Date: 7/16/2019 **Description:** Removal of pea gravel and soil from side of Ultra super tank (001).	

	Photo 2
Date: 7/16/19 **Description:** Continuation of removal of pea gravel and soil on the side of the tank 001 in preparation for removing tank from the excavation.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

Date: 7/16/19 **Description:** Suspected contaminated soil emitting strong petroleum odor and high PID readings.	**Photo 3**
Date: 7/16/19 **Description:** Documentation of product at the bottom of the excavation next to Ultra tank 001.	**Photo 4**

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

Photo 5

Date: 7/16/19

Description:

Removal of Ultra tank 001 from the excavation pit.

Photo 6

Date: 7/17/19

Description:

Second (002) of the three tanks removed from excavation.

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 7
Date: 7/16/19 **Description:** Product and visible staining of pea gravel observed underneath the Ultra tank 001 upon removal.	

	Photo 8
Date: 7/17/19 **Description:** Tank field excavation after removal of second tank (002).	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

Date: 7/17/19 **Description:** Petroleum contaminated soil pile on asphalt/concrete surface.	**Photo 9**
Date: 7/17/19 **Description:** Removal of third (003) tank from excavation.	**Photo 10**

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

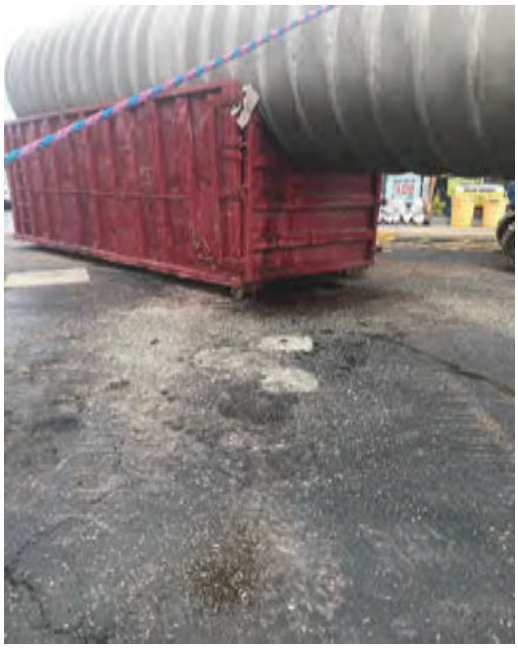
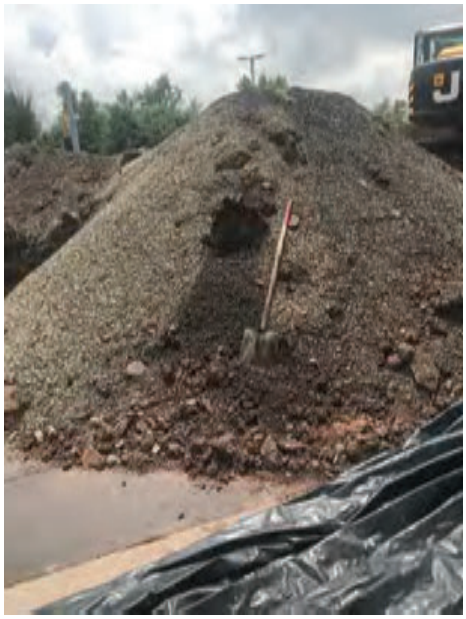
	Photo 11
Date: 7/17/19 **Description:** Water and product observed on pea gravel bedding upon removal of tank 003.	
	Photo 12
Date: 7/17/19 **Description:** Monarch Environmental used a vacuum truck to remove ~2900 gallons of product/water mixture from the excavation.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 13
Date: 7/17/19 **Description:** Petroleum contaminated pea gravel/soil pile placed on and covered with plastic traps.	

	Photo 14
Date: 7/18/19 **Description:** Remaining pea gravel and soil in excavation.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 15
Date: 7/18/19 **Description:** Disposal of fiberglass tanks.	
	Photo 16
Date: 7/18/19 **Description:** View of petroleum contaminated soil pile grab sampling location. A sample was collected in order to profile the material for disposal purposes.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 17
Date: 7/18/19 **Description:** View of petroleum contaminated pea gravel/soil pile.	
	Photo 18
Date: 7/18/19 **Description:** Petroleum contaminated soil covered in plastic.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 19
Date: 7/19/19 **Description:** Pea gravel removed to a depth of approximately 12-feet. Groundwater encountered at a depth of 12.5-feet.	

	Photo 20
Date: 7/19/19 **Description:** Continuation of the removal of pea gravel and soil from the excavation.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 21
Date: 7/19/19 **Description:** Suspected contaminated soil pile covered with plastic.	

	Photo 22
Date: 7/23/19 **Description:** Pit water with sheen.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 23
Date: 7/23/19 **Description:** Alternate view of contaminated soil pile covered with plastic.	
	Photo 24
Date: 7/24/19 **Description:** Continuation of the removal of pea gravel and soil.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

	Photo 25
Date: 7/26/19 **Description:** View of contaminated soil stockpile.	
	Photo 26
Date: 7/26/19 **Description:** View of tank pit area upon completion of attainment soil sample collection.	

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

Photo 27

Date: 8/27/19

Description:

View looking northwest from tank field. Photograph shows pump islands and convenience store.

Photo 28

Date: 8/27/19

Description:

View of tank field excavation after installation of new tanks.

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

Photo 29

Date: 8/27/19

Description:

View looking northeast at the replacement line trench running from the tank field to pumps 1 & 2.

Photo 30

Date: 8/27/19

Description:

View looking east at fuel line trench leading to pumps 1 & 2.

Client: Finch Petroleum	**Site Location: 610 York Road Warminster, Pa**
Site Name: Warminster Sunoco	**Project Number: 73057-01**

Photo 31

Date: 8/29/19

Description:

View looking east at tank field which has been filled with gravel prior to pouring of concrete cap.

WASTE DISPOSAL DOCUMENTS

Clean Earth of Southeast Pennsylvania

Clean Earth of Southeast Pennsylvania

Profile GTN

Transactions from 08/08/2019 through 08/08/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
193150172 - Finch Petroleum-Warminster Sunoco					Global Job Number: 154550			
700001187313	08/08/19	15BLA211	I	2169748	RTE172-RT ENVIRONMENTAL	36.38	13.58	22.80
700001187326	08/08/19	15BLA206	I	2074968	RTE172-RT ENVIRONMENTAL	30.82	13.47	17.35
700001187337	08/08/19	15BLA216	I	2074989	RTE172-RT ENVIRONMENTAL	37.61	13.54	24.07
700001187360	08/08/19	15BLA215	I	2074969	RTE172-RT ENVIRONMENTAL	35.35	13.35	22.00
700001187378	08/08/19	15BLA208	I	2074974	RTE172-RT ENVIRONMENTAL	33.25	13.29	19.96
700001187385	08/08/19	15TMT56	I	2074988	RTE172-RT ENVIRONMENTAL	33.08	12.67	20.41
700001187569	08/08/19	15BLA217	I	2169717	RTE172-RT ENVIRONMENTAL	36.77	13.32	23.45
700001187581	08/08/19	15BLA211	I	2169720	RTE172-RT ENVIRONMENTAL	35.38	13.58	21.80
700001187591	08/08/19	15BLA206	I	2074966	RTE172-RT ENVIRONMENTAL	33.63	13.47	20.16
700001187600	08/08/19	15BLA216	I	2074991	RTE172-RT ENVIRONMENTAL	35.27	13.54	21.73
700001187610	08/08/19	15BLA215	I	2169723	RTE172-RT ENVIRONMENTAL	32.79	13.35	19.44
700001187644	08/08/19	15BLA208	I	2074978	RTE172-RT ENVIRONMENTAL	34.87	13.30	21.57
700001187675	08/08/19	15TMT56	I	2169715	RTE172-RT ENVIRONMENTAL	34.14	12.67	21.47
700001187829	08/08/19	15BLA211	I	2169721	RTE172-RT ENVIRONMENTAL	31.98	13.58	18.40
700001187834	08/08/19	15BLA217	I	2169716	RTE172-RT ENVIRONMENTAL	34.76	13.32	21.44
700001187847	08/08/19	15BLA216	I	2074990	RTE172-RT ENVIRONMENTAL	31.82	13.54	18.28
700001187868	08/08/19	15BLA206	I	2074964	RTE172-RT ENVIRONMENTAL	32.46	13.47	18.99
700001187891	08/08/19	15BLA215	I	2169747	RTE172-RT ENVIRONMENTAL	34.81	13.35	21.46
700001187899	08/08/19	15BLA208	I	2074975	RTE172-RT ENVIRONMENTAL	31.07	13.30	17.77
700001187925	08/08/19	15TMT56	I	2169714	RTE172-RT ENVIRONMENTAL	32.21	12.67	19.54
700001188041	08/08/19	15BLA211	I	2169722	RTE172-RT ENVIRONMENTAL	32.16	13.58	18.58
700001188058	08/08/19	15BLA216	I	2074992	RTE172-RT ENVIRONMENTAL	32.96	13.54	19.42
700001188067	08/08/19	15BLA206	I	2074967	RTE172-RT ENVIRONMENTAL	33.66	13.47	20.19
700001188077	08/08/19	15BLA215	I	2169745	RTE172-RT ENVIRONMENTAL	32.55	13.35	19.20

Clean Earth of Southeast Pennsylvania

Profile GTN

Transactions from 08/08/2019 through 08/08/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
193150172 - Finch Petroleum-Warminster Sunoco					Global Job Number: 154550			
700001188124	08/08/19	15BLA208	I	2074977	RTE172-RT ENVIRONMENTAL	33.23	13.30	19.93
700001188132	08/08/19	15TMT56	I	2169746	RTE172-RT ENVIRONMENTAL	31.50	12.67	18.83
700001188201	08/08/19	15BLA211	I	2169744	RTE172-RT ENVIRONMENTAL	31.97	13.58	18.39
700001188209	08/08/19	15BLA216	I	2074993	RTE172-RT ENVIRONMENTAL	34.64	13.54	21.10
700001188218	08/08/19	15BLA206	I	2074965	RTE172-RT ENVIRONMENTAL	32.68	13.47	19.21
700001188222	08/08/19	15BLA215	I	2169743	RTE172-RT ENVIRONMENTAL	37.10	13.35	23.75
700001188230	08/08/19	15BLA208	I	2074976	RTE172-RT ENVIRONMENTAL	36.39	13.30	23.09
700001188234	08/08/19	15TMT56	I	2169742	RTE172-RT ENVIRONMENTAL	21.39	12.67	8.72
193150172 - Finch Petroleum-Warminster Sunoco								642.50
32 tickets								

Report Grand Totals

642.50

32 tickets

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188234

	Date	Time	Scale
In:	8/8/2019	17:22:57	Scale CE
Out:	8/8/2019	17:30:16	P.T.

	Lbs	Tns
Gross:	42780	21.39
Tare:	25340	12.67
Net:	17440	8.72

Manifest: 2169742
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	8.72	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

RT ENVIRONMENTAL SERVICES, INC.

MEMORANDUM

DATE: August 7, 2019

TO: Ali

FROM: Craig Herr

RE: DUE DILIGENCE INFORMATION / AGENT AUTHORIZATION
WARMINSTER SUNOCO SITE
SOIL DISPOSAL
RT PROJECT # 73057-01

Y:\RT Projects\73000 SERIES\73057-01\due diligence memo.docx

Enclosed is the due diligence information for the facility receiving the wastes generated at the above referenced facility during the monitoring well installation activities.

The material is proposed to be treated at Clean Earth, Inc. in Morrisville, Pennsylvania (Attachment A). The facility has the necessary permits and the appropriate insurance.

Please sign below indicating your authorization of the facility.

Authorized Signature - Facility Approval — Date: 8-7-2019

When the material is removed, your signature will be required, as generator of the waste, for the paperwork which is required to accompany the material to the disposal facility. If desired, RT can act as an agent for the generator. Please sign below indicating your authorization for us to sign manifests and bills of lading.

Authorized Signature — Date: 8-7-2019

RT appreciates this opportunity to be of further service on this project. Please call me at (610) 265-1510 ext. 215, if you have any questions.

CLEANEARTH

Manifest # 2169742

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 103150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☑ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☑ Tons ☐ Yards	8.72

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 672 8747

Address: 95 Louise Drive Truck # and License Plate: Tm56 AG 72037

Driver: Warminster PA SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 3:45 pm

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-8-19 3:45 pm

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188230

	Date	Time	Scale
In:	8/8/2019	17:04:21	Scale CE
Out:	8/8/2019	17:04:51	P.T.

	Lbs	Tns
Gross:	72780	36.39
Tare:	26600	13.30
Net:	46180	23.09

Manifest: 2074976
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	23.09	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074976

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 931/50172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PENN WARMINSTER SUNOCO 1010 YORK ROAD WARMINSTER, PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	23.09

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth. Agent - Finch Penn

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B BLAIR CORP Phone Number: 215 672 8787

Address: 5 LOUISE DR LANGHORNE PA Truck # and License Plate: BL208 AF76151-PA

Driver: DARREN K. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/8/19 3:45 P

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/8/19 3:54

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188222

	Date	Time	Scale
In:	8/8/2019	16:38:49	Scale CE
Out:	8/8/2019	16:39:25	P.T.

	Lbs	Tns
Gross:	74200	37.10
Tare:	26700	13.35
Net:	47500	23.75

Manifest: 2169743
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	23.75	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169743

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒Tons ☐Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒Tons ☐Yards	23.75

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Rep

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B-Blan Phone Number: 215

Address: 55 Lange Dr Ivyland Truck # and License Plate: AG 705554 215

Driver: E. Ward SW Haulers Permit #: 4145735

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM580 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188218

	Date	Time	Scale
In:	8/8/2019	16:21:15	Scale CE
Out:	8/8/2019	16:21:40	P.T.

	Lbs	Tns
Gross:	65360	32.68
Tare:	26940	13.47
Net:	38420	19.21

Manifest: 2074965
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.21	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____ Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074965

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM 610 YORK RD SUNOCO WARMINSTER PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	19.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent-Finch Petro

Signature: Victoria Long Date and Time: 8-8-19

TRANSPORTER

Company: B BLACK CORP Phone Number: 215-672-8787

Address: 95 LOUISE DR DIVLAND Truck # and License Plate: 206 AB57744 PA

Driver: KEVIN HENRY SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WN500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188209

	Date	Time	Scale
In:	8/8/2019	16:03:32	Scale CE
Out:	8/8/2019	16:04:28	P.T.

	Lbs	Tns
Gross:	69280	34.64
Tare:	27080	13.54
Net:	42200	21.10

Manifest: 2074993
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.10	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074993

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM SUNOCO WARMINSTER 610 YORK RD WARMINSTER, PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	21.10

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP Phone Number: 215 672-8787

Address: 95 LOUISE DR ENGLAND Truck # and License Plate: AG 70556

Driver: JAMES M BIGGINS #216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: J-M Biggins Date and Time: 8-8-19 4PM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: J-M Biggins Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WMS09 / PRO'S CHOICE PRINTING, INC. 1-800-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188201

	Date	Time	Scale
In:	8/8/2019	15:55:29	Scale CE
Out:	8/8/2019	15:56:40	P.T.

	Lbs	Tns
Gross:	63940	31.97
Tare:	27160	13.58
Net:	36780	18.39

Manifest: 2169744
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.39	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: Ellc #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169744

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	18.39

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B. Blain Phone Number: 215 672 8797

Address: 95 Louise Dr Ivyland Truck # and License Plate: 211 A6-4421 PA

Driver: Eric SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188132

	Date	Time	Scale
In:	8/8/2019	14:46:54	Scale CE
Out:	8/8/2019	14:47:51	P.T.

	Lbs	Tns
Gross:	63000	31.50
Tare:	25340	12.67
Net:	37660	18.83

Manifest: 2169746
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.83	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169746

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	18.83

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Financial Rep

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 677 8787

Address: 95 Louise Dr. Truck # and License Plate: Tm56 Ag72032

Driver: Warminster PA SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19 1:20

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19 1:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188124

	Date	Time	Scale
In:	8/8/2019	14:44:52	Scale CE
Out:	8/8/2019	14:45:24	P.T.

	Lbs	Tns
Gross:	66460	33.23
Tare:	26600	13.30
Net:	39860	19.93

Manifest: 2074977
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.93	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074977

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM WARMINSTER SUNOCO		
610 YORK RD	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER, PA 18974		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	19.93

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: VICTORIA LONG Title: AUTH AGENT - FINCH REPS

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B BLAIR CORP Phone Number: 215 672 8787

Address: 15 LOUISE DR LANGHORNE, PA Truck # and License Plate: B208 AF 76151-PA

Driver: DARREN L. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8/8/19 2:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19 2:43

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188077

	Date	Time	Scale
In:	8/8/2019	14:22:06	Scale CE
Out:	8/8/2019	14:23:05	P.T.

	Lbs	Tns
Gross:	65100	32.55
Tare:	26700	13.35
Net:	38400	19.20

Manifest: 2169745
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.20	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169745

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Finch Petroleum	☒ Tons ☐ Yards	
610 York Road	TARE WEIGHT:	
Warminster, PA 18974	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT:	
	☒ Tons ☐ Yards	19.20

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B-Blair Phone Number: 215

Address: 95 Louise Dr Tyrone Truck # and License Plate: 215 GBS 70554

Driver: Ed Lloyd SW Haulers Permit #: WM-5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE VM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188067

	Date	Time	Scale
In:	8/8/2019	14:14:55	Scale CE
Out:	8/8/2019	14:15:44	P.T.

	Lbs	Tns
Gross:	67320	33.66
Tare:	26940	13.47
Net:	40380	20.19

Manifest: 2074967
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	20.19	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074967

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM / WARMINSTER 1010 YORK RD SUNOCO WARMINSTER PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	20.19

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Ivyland Truck # and License Plate: 206 AG57744 PA

Driver: Kevin Henry SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-8-19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188058

	Date	Time	Scale
In:	8/8/2019	14:08:29	Scale CE
Out:	8/8/2019	14:09:16	P.T.

	Lbs	Tns
Gross:	65920	32.96
Tare:	27080	13.54
Net:	38840	19.42

Manifest: 2074992
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.42	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074992

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: WARMINSTER FINCH PETROLEUM SUNOCO 1610 YORK RD WARMINSTER, PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	19.42

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Adm. Asst - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 672-8787

Address: 95 Louise Dr Fwland Truck # and License Plate: HG 70556

Driver: James M Biggins 216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8.8.19 2:10 pm

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188041

	Date	Time	Scale
In:	8/8/2019	13:54:41	Scale CE
Out:	8/8/2019	13:55:49	P.T.

	Lbs	Tns
Gross:	64320	32.16
Tare:	27160	13.58
Net:	37160	18.58

Manifest: 2169722
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.58	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169722

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 103150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒Tons ☐Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒Tons ☐Yards	18.58

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: AUTHORIZE Victoria Long Title: Authorized Agent - FINCH Rep

Signature: Victoria Long Date and Time: _____

TRANSPORTER

Company: B Blain Phone Number: 215 672 8787

Address: 95 Lewis Dr Ivyland Pa Truck # and License Plate: 211 AG 44215 P

Driver: EdC SW Haulers Permit #: IWH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Ed C Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Ed C Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WMS00 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187925

	Date	Time	Scale
In:	8/8/2019	12:37:58	Scale CE
Out:	8/8/2019	12:38:34	P.T.

	Lbs	Tns
Gross:	64420	32.21
Tare:	25340	12.67
Net:	39080	19.54

Manifest: 2169714
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.54	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____ Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169714

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	19.54

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Environmental

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B Blair Corp Phone Number: 715 672 8787

Address: 95 Louise Drive Truck # and License Plate: Tm56 AG72032

Driver: Warminster PA SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 11:30 am

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187899

	Date	Time	Scale
In:	8/8/2019	12:31:20	Scale CE
Out:	8/8/2019	12:32:02	P.T.

	Lbs	Tns
Gross:	62140	31.07
Tare:	26600	13.30
Net:	35540	17.77

Manifest: 2074975
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	17.77	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: DBK-RB208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074975

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: SUNOCO FINCH PETROLEUM WARMINSTER 1010 YORK ROAD WARMINSTER, PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	17.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth. Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B B A R. CORP Phone Number: 215 677 8787

Address: 95 LOUISE DR INVILLE, PA Truck # and License Plate: BL208 AF 716151-PA

Driver: DARREN K. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: DBLBL208 Date and Time: 8/9/19 11:43A

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: DBLBL208 Date and Time: 8/8/19 12:32

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187891

	Date	Time	Scale
In:	8/8/2019	12:29:11	Scale CE
Out:	8/8/2019	12:29:38	P.T.

	Lbs	Tns
Gross:	69620	34.81
Tare:	26700	13.35
Net:	42920	21.46

Manifest: 2169747
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.46	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____ Facility: _____
Martinez Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169747

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒Tons ☐Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒Tons ☐Yards	21.46

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19 11:25

TRANSPORTER

Company: B-BLAIR Phone Number: 215-672-9867

Address: 95 LOUISE Truck # and License Plate: B-215 · AG 70559

Driver: R.D WOOD (Type or Print Clearly) SW Haulers Permit #: WH 5135 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8/8/19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187868

	Date	Time	Scale
In:	8/8/2019	12:18:48	Scale CE
Out:	8/8/2019	12:19:03	P.T.

	Lbs	Tns
Gross:	64920	32.46
Tare:	26940	13.47
Net:	37980	18.99

Manifest: 2074964
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.99	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074964

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193|50172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM SUNOCO		
610 YORK RD	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER PA. 18974		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	18.99 TN

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Virginia Long Title: Asst Agent - Finch Petro

Signature: _____ Date and Time: 7-3-19

TRANSPORTER

Company: B BLAIR CORP Phone Number: 215-672-8787

Address: 95 LOUISE DR IVYLAND Truck # and License Plate: 206 AG57744 PA

Driver: KEVIN HENRY SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 - 11:30AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-8-19 12:15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8/8/19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187847

	Date	Time	Scale
In:	8/8/2019	12:11:25	Scale CE
Out:	8/8/2019	12:11:44	P.T.

	Lbs	Tns
Gross:	63640	31.82
Tare:	27080	13.54
Net:	36560	18.28

Manifest: 2074990
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.28	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martins, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074990

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☑ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: WARMINSTER FINCH PETROLEUM SUNOCO 6610 YORK RD WARMINSTER PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	18.28 T

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent-Financial

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP Phone Number: 215 672-8787

Address: 45 LOUISE DR ENGLAND Truck # and License Plate: AG 70556

Driver: JAMES M BIGGINS #216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19 12:15 pm

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8/8/19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187834

	Date	Time	Scale
In:	8/8/2019	12:02:58	Scale CE
Out:	8/8/2019	12:04:27	P.T.

	Lbs	Tns
Gross:	69520	34.76
Tare:	26640	13.32
Net:	42880	21.44

Manifest: 2169716
Vehicle ID: 15BLA217
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.44	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: B. Petka

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169716

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☑ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☑ Tons ☐ Yards	21,441 Tons

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B. Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Ivyland Truck # and License Plate: AG-70529

Driver: Bryan Peka SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Bryan Peka Date and Time: 8/8/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Bryan Peka Date and Time: 8/8/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8/8/14

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187829

	Date	Time	Scale
In:	8/8/2019	12:01:02	Scale CE
Out:	8/8/2019	12:01:27	P.T.

	Lbs	Tns
Gross:	63960	31.98
Tare:	27160	13.58
Net:	36800	18.40

Manifest: 2169721
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.40	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169721

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	18.40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B Blain Phone Number: 215 672 9787

Address: 95 Louisa Dr Thorndale PA Truck # and License Plate: 211 A6442J4 PA

Driver: EdC SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187675

	Date	Time	Scale
In:	8/8/2019	10:40:20	Scale CE
Out:	8/8/2019	10:40:52	P.T.

	Lbs	Tns
Gross:	68280	34.14
Tare:	25340	12.67
Net:	42940	21.47

Manifest: 2169715
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.47	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169715

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	21.47

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B Blair Corp Phone Number: 215 672 8787

Address: 95 Louise Drive Truck # and License Plate: Tr56 AG-7205

Driver: Warminster PA SW Haulers Permit #: WH19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 9:50 am

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187644

	Date	Time	Scale
In:	8/8/2019	10:29:05	Scale CE
Out:	8/8/2019	10:29:22	P.T.

	Lbs	Tns
Gross:	69740	34.87
Tare:	26600	13.30
Net:	43140	21.57

Manifest: 2074978
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.57	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074978

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM, WARMINSTER SUNOCO		
610 YORK RD	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER, PA 18974		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	21.57

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP. Phone Number: 215 672 8787

Address: 95 LOUBET DR IVYLAND, PA Truck # and License Plate: B208 AF 71615 - PA

Driver: DARREN K. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/9/19 9:30A

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10:28A

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 10-28

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187610

	Date	Time	Scale
In:	8/8/2019	10:17:33	Scale CE
Out:	8/8/2019	10:18:24	P.T.

	Lbs	Tns
Gross:	65580	32.79
Tare:	26700	13.35
Net:	38880	19.44

Manifest: 2169723
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.44	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169723

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	19.44

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Env. Rep

Signature: [signature] Date and Time: 8-8-19 930 AM

TRANSPORTER

Company: B-Blair Phone Number: 215 672 8187

Address: 93- Louise Dawn Ivyland Truck # and License Plate: AC 70554

Driver: Ed Wood SW Haulers Permit #: WH-5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187600

	Date	Time	Scale
In:	8/8/2019	10:11:08	Scale CE
Out:	8/8/2019	10:13:25	P.T.

	Lbs	Tns
Gross:	70540	35.27
Tare:	27080	13.54
Net:	43460	21.73

Manifest: 2074991
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.73	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES H BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074991

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☑ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: WARMINSTER FINCH PETROLEUM SUNOCO 1010 YORK RD WARMINSTER PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	21.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP Phone Number: 215 672 8787

Address: 95 LOUISE DR INVLAND Truck # and License Plate: AG 70556

Driver: JAMES M BIGGINS 216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: J-M B Date and Time: 8-8-19 10:15 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: J-M B Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187591

	Date	Time	Scale
In:	8/8/2019	10:07:01	Scale CE
Out:	8/8/2019	10:07:57	P.T.

	Lbs	Tns
Gross:	67260	33.63
Tare:	26940	13.47
Net:	40320	20.16

Manifest: 2074966
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	20.16	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy X8537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074966

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM (SUNOCO)		
610 YORK Rd	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER PA 18974		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	20.16

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Jones (Eng) Title: Auth Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Truck # and License Plate: 206 AG57744 PA

Driver: Kevin Henry SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19 9:15 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19 10:05

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187581

	Date	Time	Scale
In:	8/8/2019	10:02:55	Scale CE
Out:	8/8/2019	10:03:41	P.T.

	Lbs	Tns
Gross:	70760	35.38
Tare:	27160	13.58
Net:	43600	21.80

Manifest: 2169720
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.80	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169720

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Finch Petroleum	☒ Tons ☐ Yards	
610 York Road	TARE WEIGHT:	
Warminster, PA 18974	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT:	
	☒ Tons ☐ Yards	21.60

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent-Finch Petro

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B Blain Phone Number: 215 672 8787

Address: 95 Louise Dr Tuy Cod Pa Truck # and License Plate: 211 A6 44215 Pa

Driver: EJC SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187569

	Date	Time	Scale
In:	8/8/2019	09:53:12	Scale CE
Out:	8/8/2019	09:57:47	Scale CE

	Lbs	Tns
Gross:	73540	36.77
Tare:	26640	13.32
Net:	46900	23.45

Manifest: 2169717
Vehicle ID: 15BLA217
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	23.45	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: BPeter

Facility: Martino, Jersey 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/a 217

CLEANEARTH

Manifest # 2169717

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	73540
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	23.45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B. blair corp Phone Number: 215-672-8787

Address: 95 Louise Drive Ivyland Truck # and License Plate: AG-70529

Driver: Bryan Peka SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Bryan Peka Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Bryan Peka Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187385

	Date	Time	Scale
In:	8/8/2019	08:24:27	Scale CE
Out:	8/8/2019	08:32:29	Scale CE

	Lbs	Tns
Gross:	66160	33.08
Tare:	25340	12.67
Net:	40820	20.41

Manifest: 2074988
Vehicle ID: 15TMT56
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	20.41	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

TMT56

CLEANEARTH

Manifest # 2074988

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Finch-Petroleum - Warminster Service 610 York Rd Warminster PA. 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	20.41

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 672 8787

Address: 95 Louise Dr Truck # and License Plate: Tm56 - AG72032

Driver: Warminster PA. SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 7am

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187378

	Date	Time	Scale
In:	8/8/2019	08:22:11	Scale CE
* Out:	8/8/2019	08:27:23	Scale CE

	Lbs	Tns
Gross:	66500	33.25
Tare:	26580	13.29
Net:	39920	19.96

Manifest: 2074974
Vehicle ID: 15BLA208
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.96	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/9 208

CLEANEARTH

Manifest # 2074974

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 2315017Z

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	66,500
Finch Petroleum - Warminster Service 610 York Rd. Warminster PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	19.96

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Finch Depot - Auth. Agent

Signature: _____ Date and Time: 8/8/19 7:00A

TRANSPORTER

Company: E. Blair Corp Phone Number: 215-672-8787

Address: 26 Louise Dr Fairless Truck # and License Plate: TR268 AF 76151 PA

Driver: DARRELL L. SW Haulers Permit #: LWH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/8/19 7:00A

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/8/19 8:23A

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-891-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187360

	Date	Time	Scale
In:	8/8/2019	08:12:58	Scale CE
Out:	8/8/2019	08:20:05	Scale CE

	Lbs	Tns
Gross:	70700	35.35
Tare:	26700	13.35
Net:	44000	22.00

Manifest: 2074969
Vehicle ID: 15BLA215
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	22.00	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

8/9/19

CLEANEARTH

Manifest # 2074969

GLOBAL JOB NUMBER: 154556 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Finch Petroleum Fueling Station 140 York Rd Willow St PA		70 700
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	22-00

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Acct Agent - Finch Petro

Signature: [signature] Date and Time: 8-9-19

TRANSPORTER

Company: BRI Corp Phone Number: 215.677.8187

Address: 96 Louise Dr Tullytown Truck # and License Plate: AG 70654

Driver: _____ SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187337

	Date	Time	Scale
In:	8/8/2019	07:56:15	Scale CE
Out:	8/8/2019	08:07:24	Scale CE

	Lbs	Tns
Gross:	75220	37.61
Tare:	27080	13.54
Net:	48140	24.07

Manifest: 2074989
Vehicle ID: 15BLA216
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	24.07	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/a 216

CLEANEARTH

Manifest # 2374989

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 1931501172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	75220
Finchietaleom - WARminsterSyard 610 York Rd WARMINSTER PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	24.07

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Paper

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B BLAIR Corp Phone Number: 215-672 8787

Address: 95 Louise Dr Fairland PA Truck # and License Plate: AG 70556

Driver: X JAMES M. RIGGINS #216 SW Haulers Permit #: X WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: X [signature] Date and Time: X 8.8.19 7:45 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8.8.19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187326

	Date	Time	Scale
In:	8/8/2019	07:50:15	Scale CE
Out:	8/8/2019	08:00:22	Scale CE

	Lbs	Tns
Gross:	61640	30.82
Tare:	26940	13.47
Net:	34700	17.35

Manifest: 2074968
Vehicle ID: 15BLA206
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	17.35	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/9206

CLEANEARTH

Manifest # 2074968

GLOBAL JOB NUMBER: 154550 FACILITY APPROVAL NUMBER: 193/50/172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	61640
Fisher Petroleum / Warminster SUNOCO 610 York Rd Warminster	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	17.35

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Fisher Petro

Signature: [signature] Date and Time: 8-8-16 6:30

TRANSPORTER

Company: B Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Telford Truck # and License Plate: AG57744 PA 706

Driver: KEVIN HENRY SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] KEVIN HENRY Date and Time: 8-8-19 / 6:50 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187313

	Date	Time	Scale
In:	8/8/2019	07:45:34	Scale CE
Out:	8/8/2019	07:53:28	Scale CE

	Lbs	Tns
Gross:	72760	36.38
Tare:	27160	13.58
Net:	45600	22.80

Manifest: 2169748
Vehicle ID: 15BLA211
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	22.80	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B1a211

CLEANEARTH

Manifest # 2169748

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	72760
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	22.80

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long - Auth Agent Finch Pe Title:

Signature: Victoria Long Date and Time: 8/8/19

TRANSPORTER

Company: R BLAIR Phone Number: 215 672 8787

Address: 95 Louise Dr. Truck # and License Plate: 211 AG 44215 Pa

Driver: Ed C (Type or Print Clearly) SW Haulers Permit #: WH 5135 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Ed C Date and Time: 8/8/19 730a

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Ed C Date and Time: 8/9/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

A. J. Catagnus, Inc.

DROP # 92

P/UP #

CHECK #

CASH

CREDIT CARD

BOL № 239453

DROP DATE 7-19-19

PICK-UP DATE

ON ACCT

COD CC

A. J. CATAGNUS, INC.

Recycling Resources

1299 W. James Street
Norristown, PA 19401

C+D

METAL

MASON

OCC

OTHER

COD$

W/ TON INCLUDED

ANYTHING OVER IS AN

ADD'L P/T EXTRA

VINNY
610-277-2727

TONY
610-275-5328

ACCOUNT NAME MATT'S Valley

ADDRESS 610 York Rd Sunoco Station

CITY WARMINSTER MAP PAGE /

PHONE/NEXTEL # 610-428-0928

SIZE 40 Dp

$700.00

DRIVER

Thank You SIGNATURE

WE ASSUME NO RESPONSIBILITY FOR DAMAGES TO SIDEWALKS, LAWNS, DRIVEWAYS OR OTHER PROPERTY WHEN ASKED TO DRIVE BEYOND CURB LINE OR PROPERTY LINE.
CONTAINER MAY NOT BE LOADED HIGHER THAN SIDES W/ TRASH! (MASON 3/4 FULL ONLY)
CONTAINER MAY NOT CONTAIN ANY HAZARDOUS, INFECTIOUS, OR PATHOLOGICAL WASTE
WHEN CONTAINER IS LOADED PLEASE CALL FOR SERVICE WITH YOUR CAN #
PLEASE ALLOW 24 HRS. NOTICE FOR SERVICE
ANY CONTAINER OUT FOR MORE THAN 1 WEEK WILL ADD $10.00 PER DAY RENTAL

Monarch Environmental, Inc.

Monarch

108 East Lake Rd.
PO BOX 330
Woodstown, NJ 08098

Site Sunoco - Warminster 610 York

610 York Road

Warminster Pa

BOL: 436700

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000180667	856-769-9022

Designated Facility Name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD031881176	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
UN 1993 Flammable liquids N.O.S gas, water	___	CM	_____	P / Y
	___	DM	_____	P
	09	TT	2,500	G

Additional Descriptions for Materials Listed Above

EREG# 2702

24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Agent of Transit Ali	x Agent of Transit Ali	7 / 27 / 19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day / Year
x Antane Greene	x Antane Greene	7 / 27 / 19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
x	x	/ /

LOADING INFORMATION

Start Time: _____

Arrival Time: 12:30

Depart Time: 2:45

Finish Time: _____

Bill To Matt's Valley Petroleum, Inc.

2956 Retz Court

Orefield Pa 18069

PO # _____

Special Instructions

Pick up 8-8:30, Meet customer on site for service call
Ord by Dave 215-852-8370

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Sunoco - Warminster 610 York

610 York Road

Warminster Pa

BOL: 436700

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000080667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
UN 1993 FLAMMABLE LIQUID N.O.S GAS, WATER	___	CM	_____	P / Y
	___	CM	_____	P
	09	TT	2902 2902	G

Additional Descriptions for Materials Listed Above
ERG#_____
24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Agent of Imesil Ali	x Agent of Imesil Ali	7 / 17 / 19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day /Year
x Antone Greene	x Antone Greene	7 / 17 / 19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
x Karen Kohut	x [signature]	07 / 18 / 19

LOADING INFORMATION
Start Time: 9:00
Arrival Time: 10:30
Depart Time: 2:45
Finish Time: 5:00

8:00 Pas

Bill To Matt's Valley Petroleum, Inc.
2956 Betz Court
Orefield Pa 18069

PO # _____

Special Instructions

Pick up 8-8:30, Meet customer on site for service call
Ord by Dave 215-852-8370

Monarch Environmental, Inc.
P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
7/18/2019	116817

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Sunoco 610 York Rd Warminster, Pa 07/17/19		
8	Vacuum Truck & Operator	98.00	784.00
1	Fuel Surcharge	62.70	62.70
2,902	Disposal of Gas/Water	0.63	1,828.26
1	Load Verification	80.00	80.00
	BOL # 436700 Antone G		
	Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $2,754.96

Mon. Env /// Mon. Recy BOL# 436706

Customer	
Ord By	
Phone#	

Job Location

Hourly Rate	$98/hr
Service Charge	
Trip Charge	
Fuel Surcharge	62.70
Toll Surcharge	
Disp./Gal	$.63/gal
Disp./Drum	
Disp./Drum	
L. Verification	$80.00
Site Tax	

Water	Oil / Water	Gas/waste		
Soil	Water	Gas	Debris	Tank Btms
Soil	Water	Gas	Debris	Tank Btms

Misc.	
Misc.	
Misc.	
Misc.	
Notes	

Monarch

108 East Lake Rd.
PO BOX 330
Woodstown, NJ 08098

Site Sunoco - Warminster 610 York

610 York Road

Warminster Pa

BOL: 436800

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone	
Monarch Environmental, Inc.	NJR000080667	856-769-9022	VT. 11

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol	
Wastewater Contaminated Water	—	CM	—		P/Y
	—	DM	—		P
Non RCRA / Non DOT Regulated	1	TT	2716		G

Additional Descriptions for Materials Listed Above
ERG#
24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Agent of Owner, Inc., I Al.	x Agent of Owner, Inc., I Al	07/23/19

Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month / Day / Year
x Paul K. Pilbright	x	07/23/19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials		
Printed/Typed Name	Signature	Month / Day / Year
x	x	/ /

LOADING INFORMATION
Start Time:
Arrival Time: 1040
Depart Time: 1140
Finish Time:

Bill To Matt's Valley Petroleum, Inc.
2950 Betz Court
Orefield Pa 18069

PO #

Special Instructions

Pick up 10-11am, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch Environmental, Inc.
P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
9/18/2019	118383

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Sunoco 610 York Road Warminster, Pa. 7/23/19		
5	Vacuum Truck & Operator	98.00	490.00
1	Fuel Surcharge	62.70	62.70
2,716	Disposal of Oil/Water	0.40	1,086.40
	BOL#436800 Allbright VT-16 Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $1,639.10

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site: Jobi Site

610 York Road

Warminster Pa

BOL: 437091

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc	NJ0630990667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No	Type	Total Quantity	Unit Wt/Vol
Petroleum Contaminated Water		CM		P/G
NON RCRA/ DOT Regulated NON HAZ	001	TT	5,000	G

Additional Descriptions for Materials Listed Above

ERG#

24-Hr Emergency Phone: (856) 769-9022 TF-31/Turtle

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
X	X	8/7/17

Transporter 1 Acknowledgement of Receipt of Materials		Month / Day /Year
Printed/Typed Name	Signature	
X Joseph Beatty	X	8/7/17

Facility Owner or Operator: Certification of Receipt of Above Listed Materials		Month / Day / Year
Printed/Typed Name	Signature	
X	X	/ /

LOADING INFORMATION
Start Time:
Arrival Time: 7:30
Depart Time: 10:00
Finish Time:

Bill To Matt's Valley Petroleum, Inc.

2956 Belz Court

Orefield Pa 18069

PO #

Special Instructions

Pick up 8:30, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Job Site

610 York Road

Warminster Pa

BOL: 437091

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
Petroleum Contaminated Water	___	CM	_____	P / T
NON RCRA/ DOT Regulated NON HAZ	001	DM TT	5,432.	P G

Additional Descriptions for Materials Listed Above

ERG#_____

24-Hr Emergency Phone: (856) 769-9022 TT-31/UTT-103

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Nick Spiers	x	8/9/19

Transporter 1 Acknowledgement of Receipt of Materials		Month / Day / Year
Printed/Typed Name	Signature	
x Joseph Beatty	x Joseph Beatty	8/9/19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials		Month / Day / Year
Printed/Typed Name	Signature	
x	x	/ /

LOADING INFORMATION

Start Time: 6:00
Arrival Time: 7:30
Depart Time: 10:00
Finish Time: 13:00

7.00 HR

Bill To Matt's Valley Petroleum, Inc.

2956 Betz Court

Orefield Pa 18069

Special Instructions

PO # _____

Pick up 8:30, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch Environmental, Inc.
P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
8/12/2019	117454

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Job Site 610 York Rd Warminster, Pa 08/09/19		
7	Vacuum Truck & Operator	105.00	735.00
1	Fuel Surcharge	62.70	62.70
5,432	Disposal of Oil/Water	0.40	2,172.80
1	Load Verification	80.00	80.00
	BOL # 437091 Beatty TT31/VTT-103		
	Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $3,050.50

Mon. Env /// Mon. Recy

BOL# 437091

Customer	
Ord By	
Phone#	

Job Location

Hourly Rate	$105/HR
Service Charge	
Trip Charge	
Fuel Surcharge	62.70
Toll Surcharge	
Disp./Gal	$.40/GAL
Disp./Drum	
Disp./Drum	
L. Verification	$60.
Site Tax	

Water	Oil / Water	Gas		
Soil	Water	Gas	Debris	Tank Btms
Soil	Water	Gas	Debris	Tank Btms

Misc.	
Misc.	
Misc.	
Misc.	
Notes	

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site: Job Site

BOL: 437107

610 York Road

Warminster Pa

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011851174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol	P / Y
Petroleum Contaminated Water	—	CM			
NON RCRA/DOT Regulated NON HAZ	2	DM TT	677		P G

Additional Descriptions for Materials Listed Above
ERG#_____
24-Hr Emergency Phone: (856) 769-9022 UT-28

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Mathew Staffan	x Matt W Staff	8/12/19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day /Year
x Joseph Beatty	x Joseph Beatty	8/12/19

Facility Owneror Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
x	x	/ /

LOADING INFORMATION
Start Time:_____
Arrival Time: 7:15
Depart Time: 8:00
Finish Time:_____

Bill To Matt's Valley Petroleum, Inc.
2956 Betz Court
Orefield Pa 18069

PO #_____

Special Instructions

Pick up 8am, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch Environmental, Inc.

P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
8/13/2019	117504

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Job Site 610 York Rd Warminster, Pa 08/12/19		
4.25	Vacuum Truck & Operator	98.00	416.50
1	Fuel Surcharge	62.70	62.70
677	Disposal of Oil/Water	0.40	270.80
	BOL # 437107 Beatty VT28		
	Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $750.00

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Job Site

610 York Road

Warminster Pa

BOL: 437107

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
Petroleum Contaminated Water NON RCRA/DOT Regulated NON HAZ	001	CM DM TT	677	P/T P G

Additional Descriptions for Materials Listed Above

ERG# _____

24-Hr Emergency Phone: (856) 769-9022 VT-28

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
X Matthew Stoffan	X Matt W Stoff	8/12/19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day /Year
X Joseph Beatty	X Joseph Beatty	8/12/19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
X	X	/ /

LOADING INFORMATION

Start Time: 5:45
Arrival Time: 7:15
Depart Time: 9:00
Finish Time: 10:05

4.25 Hrs

Bill To Matt's Valley Petroleum, Inc.

2556 Betz Court

Orefield Pa 18069

PO # _____

Special Instructions

Pick up 8am, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Mon. Env /// Mon. Recy BOL# 437107

Customer	
Ord By	
Phone#	

Job Location

Hourly Rate	$98/HR
Service Charge	
Trip Charge	
Fuel Surcharge	62.70
Toll Surcharge	
Disp./Gal	$.40/GAL
Disp./Drum	
Disp./Drum	
L. Verification	
Site Tax	
Misc.	
Misc.	
Misc.	
Misc.	
Notes	

	Water	Oil / Water	Gas		
	Soil	Water	Gas	Debris	Tank Btms
	Soil	Water	Gas	Debris	Tank Btms

J & J Environmental

J&J ENVIRONMENTAL

P.O. Box 370
Blue Bell, PA 19422
610-277-4511

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
# 19246			

GENERATOR

5. Generator's Name and Mailing Address: Sunoco
Generator's Phone: 215-852-8370 Street Rd and York Rd Warminster PA 18974

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: J+J Environmental, Inc — U.S. EPA ID Number: PAR000532702

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: LL Pacheco Inc 2 Bacton Hill Rd West Chester, PA. 19380 — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Petroleum contaminated water	001	TT	578	GALS
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 7 Day 15 Year 19

TRANSPORTER INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eric Kunsch (on behalf of generator) — Signature — Month 8 Day 19 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Matt Gerick — Signature — Month 8 Day 19 Year 19

169-BLS-C 6 10497 (Rev. 9/09)

TRANSPORTER #1

APPENDIX C

Disposal Documentation

WASTE DISPOSAL DOCUMENTS

Clean Earth of Southeast Pennsylvania

Clean Earth of Southeast Pennsylvania

Profile GTN

Transactions from 08/08/2019 through 08/08/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
193150172 - Finch Petroleum-Warminster Sunoco					Global Job Number: 154550			
700001187313	08/08/19	15BLA211	I	2169748	RTE172-RT ENVIRONMENTAL	36.38	13.58	22.80
700001187326	08/08/19	15BLA206	I	2074968	RTE172-RT ENVIRONMENTAL	30.82	13.47	17.35
700001187337	08/08/19	15BLA216	I	2074989	RTE172-RT ENVIRONMENTAL	37.61	13.54	24.07
700001187360	08/08/19	15BLA215	I	2074969	RTE172-RT ENVIRONMENTAL	35.35	13.35	22.00
700001187378	08/08/19	15BLA208	I	2074974	RTE172-RT ENVIRONMENTAL	33.25	13.29	19.96
700001187385	08/08/19	15TMT56	I	2074988	RTE172-RT ENVIRONMENTAL	33.08	12.67	20.41
700001187569	08/08/19	15BLA217	I	2169717	RTE172-RT ENVIRONMENTAL	36.77	13.32	23.45
700001187581	08/08/19	15BLA211	I	2169720	RTE172-RT ENVIRONMENTAL	35.38	13.58	21.80
700001187591	08/08/19	15BLA206	I	2074966	RTE172-RT ENVIRONMENTAL	33.63	13.47	20.16
700001187600	08/08/19	15BLA216	I	2074991	RTE172-RT ENVIRONMENTAL	35.27	13.54	21.73
700001187610	08/08/19	15BLA215	I	2169723	RTE172-RT ENVIRONMENTAL	32.79	13.35	19.44
700001187644	08/08/19	15BLA208	I	2074978	RTE172-RT ENVIRONMENTAL	34.87	13.30	21.57
700001187675	08/08/19	15TMT56	I	2169715	RTE172-RT ENVIRONMENTAL	34.14	12.67	21.47
700001187829	08/08/19	15BLA211	I	2169721	RTE172-RT ENVIRONMENTAL	31.98	13.58	18.40
700001187834	08/08/19	15BLA217	I	2169716	RTE172-RT ENVIRONMENTAL	34.76	13.32	21.44
700001187847	08/08/19	15BLA216	I	2074990	RTE172-RT ENVIRONMENTAL	31.82	13.54	18.28
700001187868	08/08/19	15BLA206	I	2074964	RTE172-RT ENVIRONMENTAL	32.46	13.47	18.99
700001187891	08/08/19	15BLA215	I	2169747	RTE172-RT ENVIRONMENTAL	34.81	13.35	21.46
700001187899	08/08/19	15BLA208	I	2074975	RTE172-RT ENVIRONMENTAL	31.07	13.30	17.77
700001187925	08/08/19	15TMT56	I	2169714	RTE172-RT ENVIRONMENTAL	32.21	12.67	19.54
700001188041	08/08/19	15BLA211	I	2169722	RTE172-RT ENVIRONMENTAL	32.16	13.58	18.58
700001188058	08/08/19	15BLA216	I	2074992	RTE172-RT ENVIRONMENTAL	32.96	13.54	19.42
700001188067	08/08/19	15BLA206	I	2074967	RTE172-RT ENVIRONMENTAL	33.66	13.47	20.19
700001188077	08/08/19	15BLA215	I	2169745	RTE172-RT ENVIRONMENTAL	32.55	13.35	19.20

Clean Earth of Southeast Pennsylvania

Profile GTN

Transactions from 08/08/2019 through 08/08/2019
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Sent and Unsent Tickets
Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
193150172 - Finch Petroleum-Warminster Sunoco					Global Job Number: 154550			
700001188124	08/08/19	15BLA208	I	2074977	RTE172-RT ENVIRONMENTAL	33.23	13.30	19.93
700001188132	08/08/19	15TMT56	I	2169746	RTE172-RT ENVIRONMENTAL	31.50	12.67	18.83
700001188201	08/08/19	15BLA211	I	2169744	RTE172-RT ENVIRONMENTAL	31.97	13.58	18.39
700001188209	08/08/19	15BLA216	I	2074993	RTE172-RT ENVIRONMENTAL	34.64	13.54	21.10
700001188218	08/08/19	15BLA206	I	2074965	RTE172-RT ENVIRONMENTAL	32.68	13.47	19.21
700001188222	08/08/19	15BLA215	I	2169743	RTE172-RT ENVIRONMENTAL	37.10	13.35	23.75
700001188230	08/08/19	15BLA208	I	2074976	RTE172-RT ENVIRONMENTAL	36.39	13.30	23.09
700001188234	08/08/19	15TMT56	I	2169742	RTE172-RT ENVIRONMENTAL	21.39	12.67	8.72
193150172 - Finch Petroleum-Warminster Sunoco								642.50
32 tickets								

Report Grand Totals

642.50

32 tickets

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188234

	Date	Time	Scale
In:	8/8/2019	17:22:57	Scale CE
Out:	8/8/2019	17:30:16	P.T.

	Lbs	Tns
Gross:	42780	21.39
Tare:	25340	12.67
Net:	17440	8.72

Manifest: 2169742
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	8.72	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

RT ENVIRONMENTAL SERVICES, INC.

MEMORANDUM

DATE: August 7, 2019

TO: Ali

FROM: Craig Herr

RE: DUE DILIGENCE INFORMATION / AGENT AUTHORIZATION
WARMINSTER SUNOCO SITE
SOIL DISPOSAL
RT PROJECT # 73057-01

Y:\RT Projects\73000 SERIES\73057-01\due diligence memo.docx

Enclosed is the due diligence information for the facility receiving the wastes generated at the above referenced facility during the monitoring well installation activities.

The material is proposed to be treated at Clean Earth, Inc. in Morrisville, Pennsylvania (Attachment A). The facility has the necessary permits and the appropriate insurance.

Please sign below indicating your authorization of the facility.

Authorized Signature - Facility Approval — Date: 8-7-2019

When the material is removed, your signature will be required, as generator of the waste, for the paperwork which is required to accompany the material to the disposal facility. If desired, RT can act as an agent for the generator. Please sign below indicating your authorization for us to sign manifests and bills of lading.

Authorized Signature — Date: 8-7-2019

RT appreciates this opportunity to be of further service on this project. Please call me at (610) 265-1510 ext. 215, if you have any questions.

CLEANEARTH

Manifest # 2169742

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 103150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☑ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☑ Tons ☐ Yards	8.72

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 672 8747

Address: 95 Louise Drive Truck # and License Plate: Tm56 AG 72037

Driver: Warminster PA SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 3:45 pm

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-8-19 3:45 pm

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188230

	Date	Time	Scale
In:	8/8/2019	17:04:21	Scale CE
Out:	8/8/2019	17:04:51	P.T.

	Lbs	Tns
Gross:	72780	36.39
Tare:	26600	13.30
Net:	46180	23.09

Manifest: 2074976
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	23.09	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074976

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 931/50172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PENN WARMINSTER SUNOCO 1010 YORK ROAD WARMINSTER, PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	23.09

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth. Agent - Finch Penn

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B BLAIR CORP Phone Number: 215 672 8787

Address: 5 LOUISE DR LANGHORNE PA Truck # and License Plate: BL208 AF76151-PA

Driver: DARREN K. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/8/19 3:45 P

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/8/19 3:54

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188222

	Date	Time	Scale
In:	8/8/2019	16:38:49	Scale CE
Out:	8/8/2019	16:39:25	P.T.

	Lbs	Tns
Gross:	74200	37.10
Tare:	26700	13.35
Net:	47500	23.75

Manifest: 2169743
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	23.75	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169743

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒Tons ☐Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒Tons ☐Yards	23.75

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Rep

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B-Blan Phone Number: 215

Address: 55 Lange Dr Ivyland Truck # and License Plate: AG 705554 215

Driver: E. Ward SW Haulers Permit #: 4145735

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM580 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188218

	Date	Time	Scale
In:	8/8/2019	16:21:15	Scale CE
Out:	8/8/2019	16:21:40	P.T.

	Lbs	Tns
Gross:	65360	32.68
Tare:	26940	13.47
Net:	38420	19.21

Manifest: 2074965
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.21	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____ Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074965

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM 610 YORK RD SUNOCO WARMINSTER PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	19.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent-Finch Petro

Signature: Victoria Long Date and Time: 8-8-19

TRANSPORTER

Company: B BLACK CORP Phone Number: 215-672-8787

Address: 95 LOUISE DR DIVLAND Truck # and License Plate: 206 AB57744 PA

Driver: KEVIN HENRY SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WN500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188209

	Date	Time	Scale
In:	8/8/2019	16:03:32	Scale CE
Out:	8/8/2019	16:04:28	P.T.

	Lbs	Tns
Gross:	69280	34.64
Tare:	27080	13.54
Net:	42200	21.10

Manifest: 2074993
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.10	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074993

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM SUNOCO WARMINSTER 610 YORK RD WARMINSTER, PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	21.10

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP Phone Number: 215 672-8787

Address: 95 LOUISE DR ENGLAND Truck # and License Plate: AG 70556

Driver: JAMES M BIGGINS #216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: J-M Biggins Date and Time: 8-8-19 4PM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: J-M Biggins Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WMS09 / PRO'S CHOICE PRINTING, INC. 1-800-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188201

	Date	Time	Scale
In:	8/8/2019	15:55:29	Scale CE
Out:	8/8/2019	15:56:40	P.T.

	Lbs	Tns
Gross:	63940	31.97
Tare:	27160	13.58
Net:	36780	18.39

Manifest: 2169744
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.39	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: Ellc #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169744

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	18.39

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B. Blain Phone Number: 215 672 8797

Address: 95 Louise Dr Ivyland Truck # and License Plate: 211 A6-4421 PA

Driver: Eric SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188132

	Date	Time	Scale
In:	8/8/2019	14:46:54	Scale CE
Out:	8/8/2019	14:47:51	P.T.

	Lbs	Tns
Gross:	63000	31.50
Tare:	25340	12.67
Net:	37660	18.83

Manifest: 2169746
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.83	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169746

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	18.83

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Financial Rep

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 677 8787

Address: 95 Louise Dr. Truck # and License Plate: Tm56 Ag72032

Driver: Warminster PA SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19 1:20

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19 1:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188124

	Date	Time	Scale
In:	8/8/2019	14:44:52	Scale CE
Out:	8/8/2019	14:45:24	P.T.

	Lbs	Tns
Gross:	66460	33.23
Tare:	26600	13.30
Net:	39860	19.93

Manifest: 2074977
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.93	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074977

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM WARMINSTER SUNOCO		
610 YORK RD	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER, PA 18974		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	19.93

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: VICTORIA LONG Title: AUTH AGENT - FINCH REPS

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B BLAIR CORP Phone Number: 215 672 8787

Address: 15 LOUISE DR LANGHORNE, PA Truck # and License Plate: B208 AF 76151-PA

Driver: DARREN L. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8/8/19 2:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19 2:43

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188077

	Date	Time	Scale
In:	8/8/2019	14:22:06	Scale CE
Out:	8/8/2019	14:23:05	P.T.

	Lbs	Tns
Gross:	65100	32.55
Tare:	26700	13.35
Net:	38400	19.20

Manifest: 2169745
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.20	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169745

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Finch Petroleum	☒ Tons ☐ Yards	
610 York Road	TARE WEIGHT:	
Warminster, PA 18974	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT:	
	☒ Tons ☐ Yards	19.20

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B-Blair Phone Number: 215

Address: 95 Louise Dr Tyrone Truck # and License Plate: 215 GBS 70554

Driver: Ed Lloyd SW Haulers Permit #: WM-5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE VM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188067

	Date	Time	Scale
In:	8/8/2019	14:14:55	Scale CE
Out:	8/8/2019	14:15:44	P.T.

	Lbs	Tns
Gross:	67320	33.66
Tare:	26940	13.47
Net:	40380	20.19

Manifest: 2074967
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	20.19	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074967

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM / WARMINSTER 1010 YORK RD SUNOCO WARMINSTER PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	20.19

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Ivyland Truck # and License Plate: 206 AG57744 PA

Driver: Kevin Henry SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-8-19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188058

	Date	Time	Scale
In:	8/8/2019	14:08:29	Scale CE
Out:	8/8/2019	14:09:16	P.T.

	Lbs	Tns
Gross:	65920	32.96
Tare:	27080	13.54
Net:	38840	19.42

Manifest: 2074992
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.42	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074992

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: WARMINSTER FINCH PETROLEUM SUNOCO 1610 YORK RD WARMINSTER, PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	19.42

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Adm. Asst - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 672-8787

Address: 95 Louise Dr Fwland Truck # and License Plate: HG 70556

Driver: James M Biggins 216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8.8.19 2:10 pm

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001188041

	Date	Time	Scale
In:	8/8/2019	13:54:41	Scale CE
Out:	8/8/2019	13:55:49	P.T.

	Lbs	Tns
Gross:	64320	32.16
Tare:	27160	13.58
Net:	37160	18.58

Manifest: 2169722
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.58	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169722

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 103150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒Tons ☐Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒Tons ☐Yards	18.58

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: AUTHORIZE Victoria Long Title: Authorized Agent - FINCH Rep

Signature: Victoria Long Date and Time: _____

TRANSPORTER

Company: B Blain Phone Number: 215 672 8787

Address: 95 Lewis Dr Ivyland Pa Truck # and License Plate: 211 AG 44215 P

Driver: EdC SW Haulers Permit #: IWH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Ed C Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Ed C Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WMS00 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187925

	Date	Time	Scale
In:	8/8/2019	12:37:58	Scale CE
Out:	8/8/2019	12:38:34	P.T.

	Lbs	Tns
Gross:	64420	32.21
Tare:	25340	12.67
Net:	39080	19.54

Manifest: 2169714
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.54	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____ Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169714

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	19.54

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Environmental

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B Blair Corp Phone Number: 715 672 8787

Address: 95 Louise Drive Truck # and License Plate: Tm56 AG72032

Driver: Warminster PA SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 11:30 am

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187899

	Date	Time	Scale
In:	8/8/2019	12:31:20	Scale CE
Out:	8/8/2019	12:32:02	P.T.

	Lbs	Tns
Gross:	62140	31.07
Tare:	26600	13.30
Net:	35540	17.77

Manifest: 2074975
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	17.77	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: DBK-RB208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074975

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: SUNOCO FINCH PETROLEUM WARMINSTER 1010 YORK ROAD WARMINSTER, PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	17.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth. Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B B A R. CORP Phone Number: 215 677 8787

Address: 95 LOUISE DR INVILLE, PA Truck # and License Plate: BL208 AF 716151-PA

Driver: DARREN K. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: DBLBL208 Date and Time: 8/9/19 11:43A

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: DBLBL208 Date and Time: 8/8/19 12:32

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187891

	Date	Time	Scale
In:	8/8/2019	12:29:11	Scale CE
Out:	8/8/2019	12:29:38	P.T.

	Lbs	Tns
Gross:	69620	34.81
Tare:	26700	13.35
Net:	42920	21.46

Manifest: 2169747
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.46	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____ Facility: _____
Martinez Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169747

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒Tons ☐Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒Tons ☐Yards	21.46

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19 11:25

TRANSPORTER

Company: B-BLAIR Phone Number: 215-672-9867

Address: 95 LOUISE Truck # and License Plate: B-215 · AG 70559

Driver: R.D WOOD (Type or Print Clearly) SW Haulers Permit #: WH 5135 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8/8/19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187868

	Date	Time	Scale
In:	8/8/2019	12:18:48	Scale CE
Out:	8/8/2019	12:19:03	P.T.

	Lbs	Tns
Gross:	64920	32.46
Tare:	26940	13.47
Net:	37980	18.99

Manifest: 2074964
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.99	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074964

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193|50172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM SUNOCO		
610 YORK RD	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER PA. 18974		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	18.99 TN

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Virginia Long Title: Asst Agent - Finch Petro

Signature: _____ Date and Time: 7-3-19

TRANSPORTER

Company: B BLAIR CORP Phone Number: 215-672-8787

Address: 95 LOUISE DR IVYLAND Truck # and License Plate: 206 AG57744 PA

Driver: KEVIN HENRY SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 - 11:30AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-8-19 12:15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8/8/19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187847

	Date	Time	Scale
In:	8/8/2019	12:11:25	Scale CE
Out:	8/8/2019	12:11:44	P.T.

	Lbs	Tns
Gross:	63640	31.82
Tare:	27080	13.54
Net:	36560	18.28

Manifest: 2074990
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.28	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martins, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074990

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☑ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: WARMINSTER FINCH PETROLEUM SUNOCO 6610 YORK RD WARMINSTER PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	18.28 T

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent-Financial

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP Phone Number: 215 672-8787

Address: 45 LOUISE DR ENGLAND Truck # and License Plate: AG 70556

Driver: JAMES M BIGGINS #216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19 12:15 pm

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8/8/19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187834

	Date	Time	Scale
In:	8/8/2019	12:02:58	Scale CE
Out:	8/8/2019	12:04:27	P.T.

	Lbs	Tns
Gross:	69520	34.76
Tare:	26640	13.32
Net:	42880	21.44

Manifest: 2169716
Vehicle ID: 15BLA217
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.44	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: B. Petka

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169716

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☑ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☑ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☑ Tons ☐ Yards	21,441 Tons

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B. Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Ivyland Truck # and License Plate: AG-70529

Driver: Bryan Peka SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Bryan Peka Date and Time: 8/8/14

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Bryan Peka Date and Time: 8/8/14

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8/8/14

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187829

	Date	Time	Scale
In:	8/8/2019	12:01:02	Scale CE
Out:	8/8/2019	12:01:27	P.T.

	Lbs	Tns
Gross:	63960	31.98
Tare:	27160	13.58
Net:	36800	18.40

Manifest: 2169721
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	18.40	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169721

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	18.40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B Blain Phone Number: 215 672 9787

Address: 95 Louisa Dr Thorndale PA Truck # and License Plate: 211 A6442J4 PA

Driver: EdC SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187675

	Date	Time	Scale
In:	8/8/2019	10:40:20	Scale CE
Out:	8/8/2019	10:40:52	P.T.

	Lbs	Tns
Gross:	68280	34.14
Tare:	25340	12.67
Net:	42940	21.47

Manifest: 2169715
Vehicle ID: 15TMT56
Vehicle Permit: WH19935
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.47	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169715

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	21.47

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B Blair Corp Phone Number: 215 672 8787

Address: 95 Louise Drive Truck # and License Plate: Tr56 AG-7205

Driver: Warminster PA SW Haulers Permit #: WH19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 9:50 am

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187644

	Date	Time	Scale
In:	8/8/2019	10:29:05	Scale CE
Out:	8/8/2019	10:29:22	P.T.

	Lbs	Tns
Gross:	69740	34.87
Tare:	26600	13.30
Net:	43140	21.57

Manifest: 2074978
Vehicle ID: 15BLA208
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.57	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074978

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM, WARMINSTER SUNOCO		
610 YORK RD	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER, PA 18974		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	21.57

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP. Phone Number: 215 672 8787

Address: 95 LOUBET DR IVYLAND, PA Truck # and License Plate: B208 AF 71615 - PA

Driver: DARREN K. SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/9/19 9:30A

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10:28A

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 10-28

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187610

	Date	Time	Scale
In:	8/8/2019	10:17:33	Scale CE
Out:	8/8/2019	10:18:24	P.T.

	Lbs	Tns
Gross:	65580	32.79
Tare:	26700	13.35
Net:	38880	19.44

Manifest: 2169723
Vehicle ID: 15BLA215
Vehicle Permit: ag70554
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.44	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169723

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	19.44

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Env. Rep

Signature: [signature] Date and Time: 8-8-19 930 AM

TRANSPORTER

Company: B-Blair Phone Number: 215 672 8187

Address: 93- Louise Dawn Ivyland Truck # and License Plate: AC 70554

Driver: Ed Wood SW Haulers Permit #: WH-5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187600

	Date	Time	Scale
In:	8/8/2019	10:11:08	Scale CE
Out:	8/8/2019	10:13:25	P.T.

	Lbs	Tns
Gross:	70540	35.27
Tare:	27080	13.54
Net:	43460	21.73

Manifest: 2074991
Vehicle ID: 15BLA216
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.73	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES H BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074991

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☑ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: WARMINSTER FINCH PETROLEUM SUNOCO 1010 YORK RD WARMINSTER PA 18974	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	21.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. BLAIR CORP Phone Number: 215 672 8787

Address: 95 LOUISE DR INVLAND Truck # and License Plate: AG 70556

Driver: JAMES M BIGGINS 216 SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: J-M B Date and Time: 8-8-19 10:15 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: J-M B Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187591

	Date	Time	Scale
In:	8/8/2019	10:07:01	Scale CE
Out:	8/8/2019	10:07:57	P.T.

	Lbs	Tns
Gross:	67260	33.63
Tare:	26940	13.47
Net:	40320	20.16

Manifest: 2074966
Vehicle ID: 15BLA206
Vehicle Permit: WH5135
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	20.16	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy X8537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2074966

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
FINCH PETROLEUM (SUNOCO)		
610 YORK Rd	TARE WEIGHT: ☐Tons ☐Yards	
WARMINSTER PA 18974		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	20.16

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Jones (Eng) Title: Auth Agent - Finch Petro

Signature: [signature] Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Truck # and License Plate: 206 AG57744 PA

Driver: Kevin Henry SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19 9:15 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19 10:05

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187581

	Date	Time	Scale
In:	8/8/2019	10:02:55	Scale CE
Out:	8/8/2019	10:03:41	P.T.

	Lbs	Tns
Gross:	70760	35.38
Tare:	27160	13.58
Net:	43600	21.80

Manifest: 2169720
Vehicle ID: 15BLA211
Vehicle Permit: WH5153
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	21.80	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

CLEANEARTH

Manifest # 2169720

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Finch Petroleum	☒ Tons ☐ Yards	
610 York Road	TARE WEIGHT:	
Warminster, PA 18974	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT:	
	☒ Tons ☐ Yards	21.60

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent-Finch Petro

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B Blain Phone Number: 215 672 8787

Address: 95 Louise Dr Tuy Cod Pa Truck # and License Plate: 211 A6 44215 Pa

Driver: EJC SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8/8/19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8/8/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187569

	Date	Time	Scale
In:	8/8/2019	09:53:12	Scale CE
Out:	8/8/2019	09:57:47	Scale CE

	Lbs	Tns
Gross:	73540	36.77
Tare:	26640	13.32
Net:	46900	23.45

Manifest: 2169717
Vehicle ID: 15BLA217
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	23.45	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: BPeter

Facility: Martino, Jersey 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/a 217

CLEANEARTH

Manifest # 2169717

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	73540
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	23.45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Petro

Signature: _____ Date and Time: _____

TRANSPORTER

Company: B. blair corp Phone Number: 215-672-8787

Address: 95 Louise Drive Ivyland Truck # and License Plate: AG-70529

Driver: Bryan Peka SW Haulers Permit #: WH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Bryan Peka Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Bryan Peka Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187385

	Date	Time	Scale
In:	8/8/2019	08:24:27	Scale CE
Out:	8/8/2019	08:32:29	Scale CE

	Lbs	Tns
Gross:	66160	33.08
Tare:	25340	12.67
Net:	40820	20.41

Manifest: 2074988
Vehicle ID: 15TMT56
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	20.41	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

TMT56

CLEANEARTH

Manifest # 2074988

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Finch-Petroleum - Warminster Service 610 York Rd Warminster PA. 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	20.41

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent

Signature: _____ Date and Time: 8-8-19

TRANSPORTER

Company: B. Blair Corp Phone Number: 215 672 8787

Address: 95 Louise Dr Truck # and License Plate: Tm56 - AG72032

Driver: Warminster PA. SW Haulers Permit #: WH 19935

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-8-19 7am

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187378

	Date	Time	Scale
In:	8/8/2019	08:22:11	Scale CE
* Out:	8/8/2019	08:27:23	Scale CE

	Lbs	Tns
Gross:	66500	33.25
Tare:	26580	13.29
Net:	39920	19.96

Manifest: 2074974
Vehicle ID: 15BLA208
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	19.96	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: 15BLA208

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/9 208

CLEANEARTH

Manifest # 2074974

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 2315017Z

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	66,500
Finch Petroleum - Warminster Service 610 York Rd. Warminster PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	19.96

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Finch Depot - Auth. Agent

Signature: _____ Date and Time: 8/8/19 7:00A

TRANSPORTER

Company: E. Blair Corp Phone Number: 215-672-8787

Address: 26 Louise Dr Fairless Truck # and License Plate: TR268 AF 76151 PA

Driver: DARRELL L. SW Haulers Permit #: LWH5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/8/19 7:00A

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/8/19 8:23A

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-891-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187360

	Date	Time	Scale
In:	8/8/2019	08:12:58	Scale CE
Out:	8/8/2019	08:20:05	Scale CE

	Lbs	Tns
Gross:	70700	35.35
Tare:	26700	13.35
Net:	44000	22.00

Manifest: 2074969
Vehicle ID: 15BLA215
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Job Name: Finch Petroleum-Warminster Su
Gen Address: 610 York Road
Warminster, PA 18974
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	22.00	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

8/9/19

CLEANEARTH

Manifest # 2074969

GLOBAL JOB NUMBER: 154556 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
Finch Petroleum Fueling Station 140 York Rd Willow St PA		70 700
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	22-00

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Acct Agent - Finch Petro

Signature: [signature] Date and Time: 8-9-19

TRANSPORTER

Company: BRI Corp Phone Number: 215.677.8187

Address: 96 Louise Dr Tullytown Truck # and License Plate: AG 70654

Driver: _____ SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 8-8-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 8-8-19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187337

	Date	Time	Scale
In:	8/8/2019	07:56:15	Scale CE
Out:	8/8/2019	08:07:24	Scale CE

	Lbs	Tns
Gross:	75220	37.61
Tare:	27080	13.54
Net:	48140	24.07

Manifest: 2074989
Vehicle ID: 15BLA216
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	24.07	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: JAMES M BIGGINS

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/a 216

CLEANEARTH

Manifest # 2374989

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 1931501172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	75220
Finchietaleom - WARminsterSyard 610 York Rd WARMINSTER PA 18974	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	24.07

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Authorized Agent - Finch Paper

Signature: [signature] Date and Time: _____

TRANSPORTER

Company: B BLAIR Corp Phone Number: 215-672 8787

Address: 95 Louise Dr Fairland PA Truck # and License Plate: AG 70556

Driver: X JAMES M. RIGGINS #216 SW Haulers Permit #: X WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: X [signature] Date and Time: X 8.8.19 7:45 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8.8.19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187326

	Date	Time	Scale
In:	8/8/2019	07:50:15	Scale CE
Out:	8/8/2019	08:00:22	Scale CE

	Lbs	Tns
Gross:	61640	30.82
Tare:	26940	13.47
Net:	34700	17.35

Manifest: 2074968
Vehicle ID: 15BLA206
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	17.35	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: _____

Facility: _____
Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B/9206

CLEANEARTH

Manifest # 2074968

GLOBAL JOB NUMBER: 154550 FACILITY APPROVAL NUMBER: 193/50/172

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☒ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	61640
Fisher Petroleum / Warminster SUNOCO 610 York Rd Warminster	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	17.35

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long Title: Auth Agent - Fisher Petro

Signature: [signature] Date and Time: 8-8-16 6:30

TRANSPORTER

Company: B Blair Corp Phone Number: 215-672-8787

Address: 95 Louise Dr Telford Truck # and License Plate: AG57744 PA 706

Driver: KEVIN HENRY SW Haulers Permit #: WH 5135

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] KEVIN HENRY Date and Time: 8-8-19 / 6:50 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: (215) 428-1700 Fax: (215) 428-1704

Ticket: 700001187313

	Date	Time	Scale
In:	8/8/2019	07:45:34	Scale CE
Out:	8/8/2019	07:53:28	Scale CE

	Lbs	Tns
Gross:	72760	36.38
Tare:	27160	13.58
Net:	45600	22.80

Manifest: 2169748
Vehicle ID: 15BLA211
Vehicle Permit:
Customer: RT ENVIRONMENTAL

Facility Approval#: 193150172
Job Name: Finch Petroleum-Warminster Su
Job Address: 610 York Road
Warminster, PA 18974

Generator: Finch Petroleum
Gen Address: 610 York Road
Warminster, PA 18974

Origin	Materials & Services	Quantity	Unit
Bucks	Soil Treatment Type IV	22.80	Tns

Contaminate Type: 2 thru 4 Oil
Treatment Type: DRS - Direct Reuse Soil
Fac Waste Code: 508 Virgin Petro Fuel Cont Soil/Debris
Storage Area: Area 1
Comment:

Driver: EDC #211

Facility: Martino, Jeremy 78537

Original: Customer Copy - Carbon Copies: Void-Customer do not accept

B1a211

CLEANEARTH

Manifest # 2169748

GLOBAL JOB NUMBER: 154550 **FACILITY APPROVAL NUMBER:** 193150172

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☒ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	72760
Finch Petroleum		
610 York Road	TARE WEIGHT: ☒ Tons ☐ Yards	
Warminster, PA 18974		
GENERATOR'S PHONE: 484-678-5693	NET WEIGHT: ☒ Tons ☐ Yards	22.80

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Victoria Long - Auth Agent Finch Pe Title:

Signature: Victoria Long Date and Time: 8/8/19

TRANSPORTER

Company: R BLAIR Phone Number: 215 672 8787

Address: 95 Louise Dr. Truck # and License Plate: 211 AG 44215 Pa

Driver: Ed C (Type or Print Clearly) SW Haulers Permit #: WH 5135 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Ed C Date and Time: 8/8/19 730a

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Ed C Date and Time: 8/9/19

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 8-8-19

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

A. J. Catagnus, Inc.

DROP # 92

P/UP #

CHECK #

CASH

CREDIT CARD

BOL № 239453

DROP DATE 7-19-19

PICK-UP DATE

ON ACCT

COD CC

A. J. CATAGNUS, INC.

Recycling Resources

1299 W. James Street
Norristown, PA 19401

C+D

METAL

MASON

OCC

OTHER

COD$

W/ TON INCLUDED

ANYTHING OVER IS AN

ADD'L P/T EXTRA

VINNY
610-277-2727

TONY
610-275-5328

ACCOUNT NAME MATT'S Valley

ADDRESS 610 York Rd Sunoco Station

CITY WARMINSTER MAP PAGE /

PHONE/NEXTEL # 610-428-0928

SIZE 40 Dp

$700.00

DRIVER

Thank You SIGNATURE

WE ASSUME NO RESPONSIBILITY FOR DAMAGES TO SIDEWALKS, LAWNS, DRIVEWAYS OR OTHER PROPERTY WHEN ASKED TO DRIVE BEYOND CURB LINE OR PROPERTY LINE.
CONTAINER MAY NOT BE LOADED HIGHER THAN SIDES W/ TRASH! (MASON 3/4 FULL ONLY)
CONTAINER MAY NOT CONTAIN ANY HAZARDOUS, INFECTIOUS, OR PATHOLOGICAL WASTE
WHEN CONTAINER IS LOADED PLEASE CALL FOR SERVICE WITH YOUR CAN #
PLEASE ALLOW 24 HRS. NOTICE FOR SERVICE
ANY CONTAINER OUT FOR MORE THAN 1 WEEK WILL ADD $10.00 PER DAY RENTAL

Monarch Environmental, Inc.

Monarch

108 East Lake Rd.
PO BOX 330
Woodstown, NJ 08098

Site Sunoco - Warminster 610 York

610 York Road

Warminster Pa

BOL: 436700

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000180667	856-769-9022

Designated Facility Name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD031881176	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
UN 1993 Flammable liquids N.O.S gas, water	___	CM	_____	P / Y
	___	DM	_____	P
	09	TT	2,500	G

Additional Descriptions for Materials Listed Above

EREG# 2702

24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Agent of Transit Ali	x Agent of Transit Ali	7 / 27 / 19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day / Year
x Antane Greene	x Antane Greene	7 / 27 / 19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
x	x	/ /

LOADING INFORMATION

Start Time: _____

Arrival Time: 12:30

Depart Time: 2:45

Finish Time: _____

Bill To Matt's Valley Petroleum, Inc.

2956 Retz Court

Orefield Pa 18069

PO # _____

Special Instructions

Pick up 8-8:30, Meet customer on site for service call
Ord by Dave 215-852-8370

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Sunoco - Warminster 610 York

610 York Road

Warminster Pa

BOL: 436700

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000080667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
UN 1993 FLAMMABLE LIQUID N.O.S GAS, WATER	___	CM	_____	P / Y
	___	CM	_____	P
	09	TT	2902 2902	G

Additional Descriptions for Materials Listed Above
ERG#_____
24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Agent of Imesil Ali	x Agent of Imesil Ali	7 / 17 / 19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day /Year
x Antone Greene	x Antone Greene	7 / 17 / 19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
x Karen Kohut	x [signature]	07 / 18 / 19

LOADING INFORMATION
Start Time: 9:00
Arrival Time: 10:30
Depart Time: 2:45
Finish Time: 5:00

8:00 Pas

Bill To Matt's Valley Petroleum, Inc.
2956 Betz Court
Orefield Pa 18069

PO # _____

Special Instructions

Pick up 8-8:30, Meet customer on site for service call
Ord by Dave 215-852-8370

Monarch Environmental, Inc.
P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
7/18/2019	116817

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Sunoco 610 York Rd Warminster, Pa 07/17/19		
8	Vacuum Truck & Operator	98.00	784.00
1	Fuel Surcharge	62.70	62.70
2,902	Disposal of Gas/Water	0.63	1,828.26
1	Load Verification	80.00	80.00
	BOL # 436700 Antone G		
	Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $2,754.96

Mon. Env /// Mon. Recy BOL# 436706

Customer	
Ord By	
Phone#	

Job Location

Hourly Rate	$98/hr
Service Charge	
Trip Charge	
Fuel Surcharge	62.70
Toll Surcharge	
Disp./Gal	$.63/gal
Disp./Drum	
Disp./Drum	
L. Verification	$80.00
Site Tax	

Water	Oil / Water	Gas/waste		
Soil	Water	Gas	Debris	Tank Btms
Soil	Water	Gas	Debris	Tank Btms

Misc.	
Misc.	
Misc.	
Misc.	
Notes	

Monarch

108 East Lake Rd.
PO BOX 330
Woodstown, NJ 08098

Site Sunoco - Warminster 610 York

610 York Road

Warminster Pa

BOL: 436800

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone	
Monarch Environmental, Inc.	NJR000080667	856-769-9022	VT. 11

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol	
Wastewater Contaminated Water	—	CM	—		P/Y
	—	DM	—		P
Non RCRA / Non DOT Regulated	1	TT	2716		G

Additional Descriptions for Materials Listed Above
ERG#
24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Agent of Owner, Inc., I Al.	x Agent of Owner, Inc., I Al	07/23/19

Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month / Day / Year
x Paul K. Pilbright	x	07/23/19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials		
Printed/Typed Name	Signature	Month / Day / Year
x	x	/ /

LOADING INFORMATION
Start Time:
Arrival Time: 1040
Depart Time: 1140
Finish Time:

Bill To Matt's Valley Petroleum, Inc.
2950 Betz Court
Orefield Pa 18069

PO #

Special Instructions

Pick up 10-11am, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch Environmental, Inc.
P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
9/18/2019	118383

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Sunoco 610 York Road Warminster, Pa. 7/23/19		
5	Vacuum Truck & Operator	98.00	490.00
1	Fuel Surcharge	62.70	62.70
2,716	Disposal of Oil/Water	0.40	1,086.40
	BOL#436800 Allbright VT-16 Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $1,639.10

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site: Jobi Site

610 York Road

Warminster Pa

BOL: 437091

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc	NJ0630990667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No	Type	Total Quantity	Unit Wt/Vol
Petroleum Contaminated Water		CM		P/G
NON RCRA/ DOT Regulated NON HAZ	001	TT	5,000	G

Additional Descriptions for Materials Listed Above

ERG#

24-Hr Emergency Phone: (856) 769-9022 TF-31/Turtle

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
X	X	8/7/17

Transporter 1 Acknowledgement of Receipt of Materials		Month / Day /Year
Printed/Typed Name	Signature	
X Joseph Beatty	X	8/7/17

Facility Owner or Operator: Certification of Receipt of Above Listed Materials		Month / Day / Year
Printed/Typed Name	Signature	
X	X	/ /

LOADING INFORMATION
Start Time:
Arrival Time: 7:30
Depart Time: 10:00
Finish Time:

Bill To Matt's Valley Petroleum, Inc.

2956 Belz Court

Orefield Pa 18069

PO #

Special Instructions

Pick up 8:30, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Job Site

610 York Road

Warminster Pa

BOL: 437091

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
Petroleum Contaminated Water	___	CM	_____	P / T
NON RCRA/ DOT Regulated NON HAZ	001	DM TT	5,432.	P G

Additional Descriptions for Materials Listed Above

ERG#_____

24-Hr Emergency Phone: (856) 769-9022 TT-31/UTT-103

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Nick Spiers	x	8/9/19

Transporter 1 Acknowledgement of Receipt of Materials		Month / Day / Year
Printed/Typed Name	Signature	
x Joseph Beatty	x Joseph Beatty	8/9/19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials		Month / Day / Year
Printed/Typed Name	Signature	
x	x	/ /

LOADING INFORMATION

Start Time: 6:00
Arrival Time: 7:30
Depart Time: 10:00
Finish Time: 13:00

7.00 HR

Bill To Matt's Valley Petroleum, Inc.

2956 Betz Court

Orefield Pa 18069

Special Instructions

PO # _____

Pick up 8:30, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch Environmental, Inc.
P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
8/12/2019	117454

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Job Site 610 York Rd Warminster, Pa 08/09/19		
7	Vacuum Truck & Operator	105.00	735.00
1	Fuel Surcharge	62.70	62.70
5,432	Disposal of Oil/Water	0.40	2,172.80
1	Load Verification	80.00	80.00
	BOL # 437091 Beatty TT31/VTT-103		
	Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $3,050.50

Mon. Env /// Mon. Recy

BOL# 437091

Customer	
Ord By	
Phone#	

Job Location

Hourly Rate	$105/HR
Service Charge	
Trip Charge	
Fuel Surcharge	62.70
Toll Surcharge	
Disp./Gal	$.40/GAL
Disp./Drum	
Disp./Drum	
L. Verification	$60.
Site Tax	

Water	Oil / Water	Gas		
Soil	Water	Gas	Debris	Tank Btms
Soil	Water	Gas	Debris	Tank Btms

Misc.	
Misc.	
Misc.	
Misc.	
Notes	

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site: Job Site

BOL: 437107

610 York Road

Warminster Pa

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011851174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol	P / Y
Petroleum Contaminated Water	—	CM			
NON RCRA/DOT Regulated NON HAZ	2	DM TT	677		P G

Additional Descriptions for Materials Listed Above
ERG#_____
24-Hr Emergency Phone: (856) 769-9022 UT-28

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
x Mathew Staffan	x Matt W Staff	8/12/19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day /Year
x Joseph Beatty	x Joseph Beatty	8/12/19

Facility Owneror Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
x	x	/ /

LOADING INFORMATION
Start Time:_____
Arrival Time: 7:15
Depart Time: 8:00
Finish Time:_____

Bill To Matt's Valley Petroleum, Inc.
2956 Betz Court
Orefield Pa 18069

PO #_____

Special Instructions

Pick up 8am, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Monarch Environmental, Inc.

P.O. Box 330
Woodstown, NJ 08098

Phone # (856) 769-9022 Fax # (856) 769-8740

E-mail peg@monarchenv.net Web Site www.monarchenv.net

Invoice

DATE	INVOICE #
8/13/2019	117504

BILL TO

Matt Valley Petroleum, Inc.
2956 Betz Court
Orefield, PA 18069

Location	PA

P.O. NO.	TERMS	PROJECT
	Net 30	

REP	

QTY	DESCRIPTION	RATE	AMOUNT
	Job Site 610 York Rd Warminster, Pa 08/12/19		
4.25	Vacuum Truck & Operator	98.00	416.50
1	Fuel Surcharge	62.70	62.70
677	Disposal of Oil/Water	0.40	270.80
	BOL # 437107 Beatty VT28		
	Sales Tax	6.625%	0.00

Please remit to P.O. Box 330
Woodstown, NJ 08098

Total $750.00

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Job Site

610 York Road

Warminster Pa

BOL: 437107

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
Petroleum Contaminated Water NON RCRA/DOT Regulated NON HAZ	001	CM DM TT	677	P/T P G

Additional Descriptions for Materials Listed Above

ERG# _____

24-Hr Emergency Phone: (856) 769-9022 VT-28

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name	Signature	Month / Day / Year
X Matthew Stoffan	X Matt W Stoff	8/12/19

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month / Day /Year
X Joseph Beatty	X Joseph Beatty	8/12/19

Facility Owner or Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name	Signature	Month / Day / Year
X	X	/ /

LOADING INFORMATION

Start Time: 5:45
Arrival Time: 7:15
Depart Time: 9:00
Finish Time: 10:05

4.25 Hrs

Bill To Matt's Valley Petroleum, Inc.

2556 Betz Court

Orefield Pa 18069

PO # _____

Special Instructions

Pick up 8am, Meet customer on site to vac excavation
Ord by Dave 215-852-8370

Mon. Env /// Mon. Recy BOL# 437107

Customer	
Ord By	
Phone#	

Job Location

Hourly Rate	$98/HR
Service Charge	
Trip Charge	
Fuel Surcharge	62.70
Toll Surcharge	
Disp./Gal	$.40/GAL
Disp./Drum	
Disp./Drum	
L. Verification	
Site Tax	
Misc.	
Misc.	
Misc.	
Misc.	
Notes	

	Water	Oil / Water	Gas		
	Soil	Water	Gas	Debris	Tank Btms
	Soil	Water	Gas	Debris	Tank Btms

J & J Environmental

J&J ENVIRONMENTAL

P.O. Box 370
Blue Bell, PA 19422
610-277-4511

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
# 19246			

GENERATOR

5. Generator's Name and Mailing Address: Sunoco
Generator's Phone: 215-852-8370 Street Rd and York Rd Warminster PA 18974

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: J+J Environmental, Inc — U.S. EPA ID Number: PAR000532702

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: LL Pacheco Inc 2 Bacton Hill Rd West Chester, PA. 19380 — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Petroleum contaminated water	001	TT	578	GALS
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 7 Day 15 Year 19

TRANSPORTER INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eric Kunsch (on behalf of generator) — Signature — Month 8 Day 19 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Matt Gerick — Signature — Month 8 Day 19 Year 19

169-BLS-C 6 10497 (Rev. 9/09)

TRANSPORTER #1

Groundwater (Vacuum Event)

D72109

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: FIACH PETROLEUM LLC, 610 York Rd Suite 100, Warminster PA 18974

Generator's Site Address (if different than mailing address): 610 York Rd, Warminster PA.

Generator's Phone: 215 956 1670

6. Transporter 1 Company Name: J. J ENVIRONMENTAL, INC. — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: 717 343-2627 ENVIRONMENTAL RECOVERY CORP 1076 OLD MILLWOOD LANE LANCASTER, PA. 17601 — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	PETROLEUM CONTAMINATED WATER NON HAZ	001	TT	3050	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Approval # 2003-00971-LWT

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: x Agent for Generator — Signature: x Scott Baum — Month 3 Day 9 Year 06

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JUSTIN COE — Signature: x Justin Coe — Month 3 Day 06 Year 20

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

JA1

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature: [illegible] — Month 03 Day 20 Year 06

169-BLS-C 6 10497 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: Finch Petroleum LLC, 610 York Road, Warminster PA 18974
Generator's Site Address (if different than mailing address): 610 York Road, Warminster, PA 18974
Generator's Phone: 215 956 1670

6. Transporter 1 Company Name: J&T Environmental Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Eldridge Inc, 202 Cravits Road, Williamsport PA 17510 (570-433-4749) — U.S. EPA ID Number:
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Petroleum Contaminated Water Non Haz	001	TT	2000	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: x Agent for Generator Jeff Cook — Signature: Agent for Generator Finch Petroleum — Month: 5 — Day: 19 — Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:
Transporter Signature (for exports only): — Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Roger Berry — Signature — Month: 5 — Day: 21 — Year: 20

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Eldridge Inc Tony Fakes — Signature — Month: 05 — Day: 21 — Year: 2020

169-BLS-C 6 10497 (Rev. 9/09) DESIGNATED FACILITY'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
FINCH PETROLEUM
610 YORK ROAD
WARMINSTER, PA. 18974
Generator's Phone: 215-256-1670

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
J & J ENVIRONMENTAL, LLC
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ELDERCOR LLC
499 FRANKLIN Rd
West Chester, Pa. 19380
U.S. EPA ID Number
Facility's Phone: 610-476-4749

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Petroleum Contaminated Water NON HAZ	001	TT	3000	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Bill Murnock (on behalf of generator) | Signature: x Agent of Generator Finch Petroleum | Month: 5 | Day: 28 | Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogen Beury | Signature | Month: 6 | Day: 1 | Year: 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Zach Herbinski | Signature | Month: 6 | Day: 1 | Year: 20

APPENDIX D

Prior Documentation

Additional Site Characterization Report/Remedial Action Plan

GES - January 6, 2006

Groundwater & Environmental Services, Inc.

410 Eagleview Boulevard • Suite 110 • Exton, Pennsylvania 19341 • (610) 458-1077 • FAX (610) 458-2300

January 6, 2006

Ms. Kathy Nagle
Pennsylvania Department of Environmental Protection
Environmental Cleanup Program
2 East Main Street
Norristown, Pennsylvania 19401

Re: Additional Site Characterization Report/Remedial Action Plan
Sunoco Station #0363-5430
610 Old York Road
Warminster, Pennsylvania
PADEP Facility ID #09-30778

Dear Ms. Nagle:

Enclosed please find the Additional Site Characterization Report/Remedial Action Plan (ASCR/RAP) prepared on behalf of Sunoco, Inc. (R&M) by Groundwater & Environmental Services, Inc. for the above-referenced facility. The ASCR/RAP presents a summary of the site history, details of site characterization findings, and a proposed remedial approach for addressing subsurface impact.

Please feel free to call either of the undersigned if you have any questions or comments.

Respectfully submitted,

Groundwater & Environmental Services, Inc.

Patrick Crawford
Project Manager

Jennifer L. O'Reilly, P.G.
Senior Hydrogeologist
Senior Project Manager

Enclosure

CC: M. Liebhardt - Sunoco, Inc.
Sunoco Central File
GES Project File
ICF Consulting – T. Aubel (96-131)

ADDITIONAL SITE CHARACTERIZATION REPORT AND REMEDIAL ACTION PLAN

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PENNSYLVANIA
PADEP FACILITY ID NO. 09-30778

Prepared for:

Sunoco, Inc. (R&M)
350 EAGLEVIEW BLVD. SUITE 300
EXTON, PA 19341

Prepared by:

Groundwater & Environmental Services, Inc.
410 Eagleview Blvd., Suite 110
Exton, PA 19341

January 2006

Corrective Action Process Report/Plan Cover Sheet

CHAPTER 245
STORAGE TANK ACT

- ☐ Site Characterization Report – Section 245.310(b)
- X Site Characterization Report – Site-Specific Standard
- X Site Characterization Report – Statewide Health or Background Standard
- X Remedial Action Plan – Statewide Health or Background Standard
- X Remedial Action Plan – Site Specific Standard
- ☐ Remedial Action Progress Report
- ☐ Remedial Action Completion Report – Statewide Health or Background Standard
- ☐ Remedial Action Completion Report – Site-Specific Standard

(check all that apply to the enclosed submission)

ADDITIONAL SITE CHARACTERIZATION REPORT AND REMEDIAL ACTION PLAN

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PENNSYLVANIA
PADEP FACILITY ID NO. 09-30778

January 6, 2005

Prepared For:

Sunoco, Inc. (R&M)
P.O. Box 1135
Post Road and Blueball Avenue
Marcus Hook, Pennsylvaina 19061

Prepared By:

Susan E. Cameron
Staff Environmental Scientist

Jaime Johnson
Staff Environmental Scientist

Michael J. Henk
Associate Environmental Scientist

Reviewed By:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STEPHEN DALY BROWER
GEOLOGIST
NO. 001808-G

Stephen D. Brower, P.G.
Senior Hydrogeologist

Michael A. Turco, P.E.
Principal Engineer

By affixing my seal to this document, I am certifying that to the best of my knowledge the information is true and correct. I further certify that I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.

Groundwater & Environmental Services, Inc.
410 Eagleview Boulevard, Suite 110
Exton, Pennsylvania 19341
(610) 458-1077

"An Equal Opportunity Employer"

EXECUTIVE SUMMARY

Groundwater & Environmental Services, Inc. (GES), on behalf of Sunoco, Inc., R&M (Sunoco) has prepared this Additional Site Characterization Report and Remedial Action Plan for Sunoco Station #0363-5430, located at 610 Old York Road, Warminster Township, Bucks County, Pennsylvania. This report includes available historical information, detailed site characterization activities, a soil and groundwater quality assessment, fate and transport modeling, risk assessment, and remediation standard selection and presents a conceptual remediation strategy to effectively address subsurface hydrocarbon compounds at the site.

The site is currently an active Sunoco retail gasoline facility and convenience store. Currently, there are three 12,000-gallon unleaded gasoline underground storage tanks (USTs), four unleaded gasoline dispenser islands, and associated product piping present at the site. Land use immediately surrounding the site is characterized by a predominantly commercial area with residential areas nearby. The current environmental investigation was initiated in 1996 when localized adsorbed-phase hydrocarbons were observed during the removal of the former dispenser islands and four formerly closed-in-place USTs, which were discovered during station reconstruction activities. Soil samples collected from these excavations indicated the presence of benzene at concentrations exceeding the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS).

Previous site characterization work completed in 1996 and 1997 included the installation of four monitoring wells. The most recent phase of site characterization conducted by GES included the installation of three additional monitoring wells, including one into a deeper aquifer. Adsorbed hydrocarbons were not detected in the soil samples collected during the installation activities. It is recommended that a soil boring investigation be conducted, especially in the vicinity of both sets of the former dispenser islands, to further define the horizontal and vertical extent of adsorbed hydrocarbons at the site.

According to analytical results, the adsorbed- and dissolved-phase hydrocarbon presence appears to be associated with unleaded gasoline parameters. The groundwater quality data indicate the most significant concentrations of dissolved-phase constituents exist in the vicinity of the former dispenser islands located at the eastern property boundary. A chemical oxidation event via hydrogen peroxide injection was conducted on April 28, 2005 to assist in the breakdown of dissolved hydrocarbons in the subsurface.

Historically, benzene, ethylbenzene, methyl *tert*-butyl ether (MTBE), and/or naphthalene have been detected in each of the monitoring wells, with the exception of MW-6, at concentrations exceeding the PADEP SHS. Based on hydrocarbon trend graphs for each of the monitoring wells, the groundwater data over the last eight quarters indicate that benzene, MTBE, and naphthalene concentrations are increasing in monitoring wells MW-1 and MW-2. According to the most recent groundwater analytical data (October 28, 2005), benzene, MTBE, and/or naphthalene were detected at concentrations exceeding the PADEP SHS in all monitoring wells except MW-6.

Fate and transport modeling indicated that none of the constituents-of-concern (benzene, MTBE, and naphthalene) are predicted to migrate off-site, although benzene and MTBE are predicted to remain above the PADEP SHS for more than 30 years. Naphthalene is predicted to fall below the PADEP SHS within 22 to 23 years. According to the risk assessment, there is a possibility of vapor intrusion from volatilization from soil to indoor air (i.e., the station building). Two soil gas surveys are recommended to determine if vapor intrusion is occurring at the site, and the risk assessment will be reevaluated upon receipt of additional data.

This report was developed in accordance with applicable sections of the Pennsylvania Code, Title 25, Chapter 245, Administration of the Storage Tank and Spill Prevention Program, and Chapter 250,

Administration of the Land Recycling Program. Proposed corrective actions are based on findings from the soil and groundwater quality assessments.

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Table 1	Historical Soil Analytical Data Summary
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APPENDICES

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Appendix I	Fate and Transport Modeling Report by ES&T

1.0 INTRODUCTION

Sunoco, Inc., R&M (Sunoco) retained Groundwater and Environmental Services, Inc. (GES) to prepare this Additional Site Characterization Report (SCR) and Remedial Action Plan (RAP) for Sunoco Station #0363-5430, located at 610 Old York Road, Warminster Township, Bucks County, Pennsylvania. This report presents a chronological summary of available information pertaining to historical site background and characterization information and presents a conceptual remediation strategy to effectively address subsurface hydrocarbon compounds at the site.

The purpose of this site assessment was to further define groundwater quality and flow and delineate the extent of petroleum hydrocarbons in the subsurface. The scope of work performed to complete the most recent phase of site characterization included the installation of three additional on-site groundwater monitoring wells, the collection of liquid-level data and groundwater samples from each of the monitoring wells, fate and transport analysis, and risk assessment.

During fieldwork, GES personnel followed all appropriate guidelines as per United States Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120. All operations were conducted using Level D protection measures with proper respiratory protection equipment and additional protective clothing readily available if site conditions warranted an upgrade to Level C protection. A site-specific health and safety plan detailing applicable safety precautions, as well as specific emergency procedures, was prepared for this site. A copy of the site-specific health and safety plan is on file at GES and is available upon request.

The environmental investigation at the site was initiated in February 1996 due to the presence of adsorbed-phase hydrocarbons observed during the removal of the former dispenser islands and four formerly closed-in-place underground storage tanks (USTs), which were discovered during site reconstruction activities. This report was developed in accordance with applicable sections of Pennsylvania's Storage Tanks, Corrective Action Regulations (Title 25, Chapter 245), as well as the Land Recycling and Environmental Remediation Standards Act (Title 25, Chapter 250). Proposed corrective actions are based on findings from soil and groundwater quality assessments described in the following sections.

2.0 FACILITY DESCRIPTION AND BACKGROUND

2.1 Facility Description

The site is located at the intersection of Old York Road and Street Road, Warminster Township, Bucks County, Pennsylvania (40° 12' 25" N, 75° 5' 60" W). The site consists of one parcel, which is approximately 0.7 acres. **Figure 1** is an annotated United States Geological Society (USGS) 7.5-minute topographic quadrangle (Hatboro, PA) illustrating the site location. According to **Figure 1**, the site and surrounding area slope gently toward the north, northeast, and northwest with an approximate elevation of 290 feet above mean sea level.

Current existing site features at the property include a one-story station building and convenience store, three 12,000-gallon unleaded gasoline fiberglass USTs, and four unleaded gasoline dispenser islands. The current USTs were installed in on December 1, 1983. The majority of the site is covered with asphalt or concrete. There are numerous underground utilities located along Old York Road, including water, telephone, and gas lines. Additionally, there are currently seven monitoring wells (MW-1 through MW-7) located on-site as part of the environmental investigation. A generalized site map showing property boundaries and pertinent site features is included as **Figure 2**.

2.2 Local Land Use

The surrounding area is mainly commercial with residential areas nearby. Center Point Plaza is located to the west, across Street Road. The Eagle Diner and the Warminster Shopping Plaza are located northwest of the site. Archbishop Wood High School, Nativity Catholic Church and School, and Hatboro Savings Bank are located to the east, across York Road. Finally, a light commercial area is located south of the site, with a residential neighborhood beyond. Please see **Figure 3** for a scaled map depicting surrounding properties and land use.

2.3 Environmental Investigation History

2.3.1 Underground Storage Tank System Removal

In November 1995 through February 1996, GES oversaw the reconstruction activities performed at the site, which included the removal of six unleaded gasoline dispenser islands and two 550-gallon steel USTs containing fuel oil and waste oil. Additionally, the station building, which was formerly an Atlantic two-bay automobile service station, was to be removed and replaced with the current Sunoco convenience store.

During excavation, three steel 3,000-gallon and one steel 4,000-gallon pre-Act 2 unleaded gasoline USTs, that were previously closed-in-place, were discovered at the southern corner of the property. These USTs and the associated steel piping that extended from them to the former dispenser islands were removed from the site. During their removal, the USTs were described as rusted and pitted, and the product piping was reportedly in fair condition. All USTs, piping, and other materials were disposed of as commercial waste. The inert substance that filled the closed-in-place USTs was removed and disposed of by Larco Petroleum Services, Inc. of Old Bridge, New Jersey. All excavated soil was disposed of at the Pottstown Landfill in Pottstown, Pennsylvania.

Obvious localized soil contamination was observed in the UST excavations and beneath the eastern dispenser islands, and post-excavation confirmatory samples were collected by GES. A total of 23 soil samples were collected from beneath the former dispensers, product lines, and

UST fields on December 28, 1995 and February 8, 13, and 27, 1996. No samples were collected from the western former dispenser islands due to an inability to access the open excavation.

The samples were submitted to Lancaster Laboratories, Inc. of Lancaster, Pennsylvania and were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH), and/or TPH-gasoline range organics (GRO) by EPA Method 8020A. Laboratory results indicated concentrations of benzene exceeding the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) in eight of the soil samples collected from beneath the dispensers and the unleaded gasoline UST field. Results also indicated the presence of BTEX at concentrations below the PADEP SHS in those areas as well as the presence of TPH and TPH-GRO in most samples. Historical soil analytical data is summarized in **Table 1**. Soil sample analytical data sheets and chain-of-custody documentation are presented in **Appendix A.** A map of the UST closure soil samples locations is included as **Figure 4**, which was taken from the GES Underground Storage Tank Closure Report, submitted to the PADEP on April 10, 1996.

The extent of over excavation conducted beneath the former product dispensers and UST field is unknown. Waste manifests associated with the disposal of contaminated soil from the site were submitted in the 1996 UST Closure report mentioned above. However, the manifests are related to all of the excavation activities conducted on-site, including the station reconstruction activities. It is unclear how many tons of soil were removed from the dispenser island and/or UST excavations.

2.3.2 Notice of Reportable Release

As a result of the obvious contamination observed during the UST system closure activities described above, GES verbally reported a Notification of Reportable Release (NORR) to the PADEP on February 28, 1996, identifying the USTs as a possible source of contamination due to strong petroleum vapors and stained soils in the UST excavations. The paperwork was submitted to the PADEP on February 29, 1996. The 1996 NORR is included as **Appendix B**.

2.4 Regulatory Agency Database Review

GES retained the services of InfoMap Technologies, Inc. (InfoMap) to obtain various sources of information from federal and state agencies in order to evaluate areas of potential environmental concern within a 1.0-mile radius of the site. The Environmental FirstSearch™ Report produced by InfoMap searched the following databases: NPL (National Priority List), CERCLIS (Comprehensive Environmental Response Compensation and Liability Information System), RCRIS (Resource Conservation and Recovery Information System), ERNS (Emergency Response Notification System), SPL (State of Pennsylvania Priority List), SWL (Solid Waste List), UST (Regulated Storage Tank Listing), LUST (Confirmed Release Reports for underground and above ground storage tanks). It should be noted that not all of the properties identified in the FirstSearch™ Report have known directions and distances from the subject site. In the report, these properties are listed as non-geocoded and are listed as being within the same postal zip code. A copy of the InfoMap Environmental FirstSearch™ Report is included as **Appendix C.**

Regulatory agency databases identified three sites with regulated USTs within a ¼-mile radius of the site. These are described as follows:

- Sunoco Station #0364-5430, the subject site, is listed as having three 12,000-gallon gasoline USTs that are currently in use, which were installed on December 1, 1983.

- Archbishop Wood High School, located approximately 0.07 miles northeast of the site, is listed in the database, but there is no discussion of current or previous USTs on the property.
- Jiffy Lube #262, located approximately 0.15 miles southeast of the site, is listed as having one 275-gallon aboveground storage tank (AST) that is currently in use. The substance contained in the AST is not listed.

Regulatory agency databases identified 12 sites with leaking USTs (LUSTs) within a half-mile radius of the site. Those sites that have the potential to impact the subject site are described as follows:

- Sunoco Service Station, the subject site, is listed as having a release from a petroleum UST system on March 1, 1996, amount unknown, and remedial actions are deemed initiated or completed.
- Jiffy Lube #262, located approximately 0.15 miles southeast of the site, is listed as having a release from a petroleum UST system, amount unknown. Remedial actions were completed on December 2, 1997.
- Lafferty Chevrolet, located approximately 0.34 miles northwest of the site, is listed as having two releases from a petroleum UST system, amounts unknown. The cleanup activities of one of the releases was deemed complete on June 3, 1997. The status of the second release is unknown. Lafferty Chevrolet was also listed as having two releases of fuel oil (No. 2). The dates, amount, and cleanup status of the releases are unknown.
- Cumberland Gulf Station #143833, located approximately 0.44 miles southeast of the site, is listed as having two releases from a petroleum UST system, amounts unknown. The cleanup status is listed as inactive for each release, last updated on December 31, 1998.
- Amoco Gentle Touch, located approximately 0.44 miles southeast of the site, is listed as having a release from a petroleum UST system, amount unknown, on July 6, 1998. The remedial actions are deemed initiated or complete.

The remaining LUST sites were either located downgradient of the site, or the releases were insignificant.

The NPL is composed of EPA's list of confirmed or proposed Superfund sites. The NPL identified one site within a 1.0-mile radius of the site, the Naval Air Development Center, which covers 734 acres in Warminster Township. This property is located approximately 0.92 miles southeast of the site. The contamination of the site's soil and groundwater resulted from wastes generated during aircraft maintenance and repair. The remedial actions were considered complete on September 28, 2000.

Three RCRA Generators are listed in the databases within a 1.0-mile radius of the subject site. These sites are described as follows:

- Sunoco Service Station, the subject site, is a conditionally exempt small quantity generator of less than 100 kilgrams per month (kg/month) of hazardous waste.
- Heritage Cleaners, located approximately 0.02 miles northeast of the site, is a small quantity generator of 100 to 1,000 kg/month of hazardous waste.
- Archbishop Wood High School, located approximately 0.07 miles northeast of the site, is listed in the RCRA Generator list, but no details are available.

Ten state wells were listed within a ½-mile radius of the site. Six of these wells are listed as used for domestic withdrawal purposes, three are public supply wells, and one is listed as unused.

Six federal wells, owned by the United States Geological Survey (USGS) are located within a ½-mile radius of the site. Additional details are unknown.

Several other facilities/releases were identified in the RCRA and ERNS databases; however, none of the facilities is likely to impact the site. Additionally, based upon site investigation information presented in this report, the sources of the petroleum hydrocarbon impact detected at the site are the formerly closed-in-place (currently removed) UST field, the former dispenser islands, and the product delivery lines associated with them. There is no information in the Environmental FirstSearch™ report to indicate that there is an upgradient source which may contribute to the petroleum hydrocarbon impact observed on-site.

2.5 Previous Site Characterization Report (May 28, 1996)

According to the Site Characterization Report (SCR) submitted to the PADEP by Handex of Eastern Pennsylvania (Handex) on May 28, 1996, the drilling and installation of three on-site monitoring wells (MW-1 through MW-3) were conducted by Pennsylvania-licensed driller B. L. Myers Bros., Inc. of Glenmoore, Pennsylvania under the supervision of Handex personnel on March 13, 1996. The wells were installed by an air rotary drill rig to a depth of 25 feet below ground surface (bgs). Handex personnel continuously monitored the composition, color, texture, odor, and moisture content of all drill cuttings brought to the surface as the borehole was advanced. The drill cuttings were routinely screened in the field with a photoionization detector (PID) to provide a preliminary indication of the presence or absence of volatile organic compounds (VOCs).

One soil sample was collected by split-spoon sampler from each monitoring well boring at depths of five to seven feet bgs. The samples were submitted to Lancaster Labs for the analysis of BTEX by EPA Method 8020 and for TPH-GRO by EPA Method 8015. Analytical results indicated that the unleaded gasoline parameters were not detected in the soil samples. Historical soil analytical data are summarized in **Table 1**. Soil laboratory analytical data sheets and chain-of-custody documentation are presented in **Appendix A**.

Each well was constructed of 20 feet of 0.020-inch slotted Schedule 40 PVC well screen, from 5 to 25 feet bgs, flush-joined to five feet of solid Schedule 40 PVC well casing. After the installation of the wells into each borehole, the annular space between the borehole wall and the well screen was filled with a sand filter pack and capped with a one-foot thick bentonite seal. The bentonite seal acts to prevent infiltration of surface water into the monitoring well. Cement grout was added to the remaining annular space to fill the borehole to surface grade. A locking well cap and flush-mounted manhole cover were then fitted on each well to prevent unauthorized access and to prevent surface runoff from entering the well. Additional details of well construction are included on the subsurface drilling logs in **Appendix D**.

2.6 Additional Monitoring Well Installation

To further delineate the extent of dissolved-phase hydrocarbons, one additional on-site monitoring well (MW-4) was installed on October 27, 1997 by Pennsylvania-licensed driller Lutz Environmental Company, Inc. of Linden, New Jersey under the supervision of GES personnel. The well was installed by an air rotary drill rig to a depth of 25 feet bgs. GES personnel continuously monitored the composition, color, texture, odor, and moisture content of all drill cuttings brought to the surface as the borehole was advanced. The drill cuttings were classified

by the Unified Soil Classification System (USCS) and were routinely screened in the field with a PID to provide a preliminary indication of the presence or absence of volatile organic compounds (VOCs).

A soil sample was collected by a split-spoon sampler at an unknown depth and submitted to Lancaster Labs for the analysis of BTEX, methyl *tert*-butyl ether (MTBE), isopropylbenzene, and naphthalene by EPA Method 8021A. Analytical results indicated that unleaded gasoline parameters were not detected in the soil sample. Historical soil analytical data are summarized in **Table 1**. Laboratory analytical data sheets and chain-of-custody documentation are presented in **Appendix A.**

After the completion of the ten-inch diameter borehole, monitoring well MW-4 was constructed with 20 feet of 0.020-inch slotted Schedule 40 PVC well screen, from 5 to 25 feet bgs, flush joined to five feet of solid four-inch diameter Schedule 40 PVC well casing. The annular space between the borehole wall and well screen was filled with sand and capped with a bentonite seal and cement grout as described above. A locking well cap and a flush-mounted manhole cover were also fitted on the well. Details of well construction are included on the subsurface drilling logs in **Appendix D**.

3.0 ADDITIONAL SITE CHARACTERIZATION

The most recent phase of site characterization was performed to further delineate groundwater quality and flow at the site. This phase of additional site characterization included a sensitive receptor survey, the installation of three additional on-site monitoring wells (MW-5 through MW-7), fate and transport analysis, and risk assessment.

3.1 Potentially Sensitive Receptors

GES performed a detailed reconnaissance of the site and surrounding area to obtain data on the locations of surface water bodies, utilities, and other potentially sensitive receptors. The results of the sensitive receptor survey are as follows:

- The existing on-site structure does not contain a basement;
- There are no basements or crawl spaces in the immediate vicinity of the site;
- Subsurface utilities, including telephone, public water, and natural gas, are located along Old York Road;
- Subsurface utilities, including natural gas, sanitary sewer, and public water, are located in the northeastern portion of the site extending to the station building;
- The nearest surface water body is an unnamed tributary of Little Neshaminy Creek located approximately one mile northwest of the site; and
- Municipal water and sanitary sewer are provided to the site and surrounding area by the Warminster Municipal Water Authority, as discussed below.

3.2 Supply Well Search

On March 9, 2001, GES conducted a door-to-door domestic well survey to determine if surrounding properties were connected to public water. GES also sampled two off-site supply wells, located at 829 West Street Road (Lafferty Chevrolet) and 1220 West Street Road (Christ's Home for Children). The samples were submitted to Accutest of Dayton, New Jersey and analyzed for BTEX, MTBE, isopropylbenzene, and naphthalene by EPA Method 8260B. None of the constituents-of-concern (COCs) were detected in either supply well. Laboratory analytical results for the two supply wells, as well as a table summarizing the domestic well survey, are included in **Appendix E**. See **Figure 3** for the locations of the properties from which surveys were returned to GES and where private wells were found to be located. It should be noted that not all of the private wells are used as the primary drinking water source on these properties. Please refer to **Table 1 in Appendix E** for details.

Additionally, GES reviewed the Pennsylvania Groundwater Information System (PAGWIS) version 3.0 software for information on nearby potable, agricultural, or industrial supply wells within a ½-mile radius of the site. Twelve water well records were identified by the search. Three of the wells are listed as public supply wells used for withdrawal purposes, and two are listed as test public supply wells. Six wells are listed as domestic withdrawal wells, and the last is listed as unused. Of the nine withdrawal wells, only one is located in the downgradient direction, and it is approximately 2,250 feet southwest of the site. It should be noted that the groundwater flow direction on-site varies considerably with the seasons, as described in Section 3.5 of this report. Only one well is located less than 1,000 feet from the site: a domestic withdrawal well located approximately 890 feet to the northwest. The PAGWIS well search is included as **Appendix F.**

3.3 Additional Monitoring Well Installation

On October 18, 2004, the drilling and installation of two additional on-site monitoring wells (MW-5 and MW-6) were conducted by Pennsylvania-licensed driller Eichelbergers, Inc. of Mechanicsburg, Pennsylvania (Eichelbergers) under the supervision of GES personnel. The wells were installed by an air rotary drill rig to depths of 50 and 47 feet bgs, respectively. GES personnel continuously monitored the composition, color, texture, odor, and moisture content of all drill cuttings brought to the surface as the borehole was advanced. The drill cuttings were classified and screened with a PID as described earlier.

Soil samples were collected from the drill cuttings of each borehole at depths of 25 feet (MW-5) and 15 feet (MW-6) bgs. The samples were submitted to Lancaster Labs and were analyzed for BTEX, MTBE, isopropylbenzene, and naphthalene by EPA Method 8260B. Analytical results indicated that the unleaded gasoline parameters were not detected in the soil samples. Historical soil analytical data are summarized in **Table 1**. Laboratory analytical data sheets and chain-of-custody documentation are presented in **Appendix A**.

After the completion of the eight-inch diameter borehole, monitoring well MW-5 was constructed with 40 feet of four-inch diameter, 0.020-inch slotted Schedule 40 PVC well screen, from ten to 50 feet bgs, flush-joined to ten feet of solid four-inch diameter Schedule 40 PVC well casing. Monitoring well MW-6 was constructed with 37 feet of 0.020-inch slotted Schedule 40 PVC well screen, from ten to 47 feet bgs, flush-joined to ten feet of solid four-inch diameter Schedule 40 PVC well casing. The annular spaces between each borehole wall and well screen were filled with sand and capped with a bentonite seal and cement grout as described above. Locking well caps and flush-mounted manhole covers were also fitted on each well.

On November 23, 2004, the drilling and installation of one additional on-site monitoring well (MW-7) were conducted by Eichelbergers under the supervision of GES personnel. The well was installed by an air rotary drill rig to a depth of 100 feet bgs, and the drill cuttings were monitored and classified as previously described. No soil sample was collected for laboratory analysis.

After the completion of the 8-inch diameter borehole, monitoring well MW-7 was constructed with 40 feet of two-inch diameter 0.020-inch slotted Schedule 40 PVC well screen, from 60 to 100 feet bgs. Six-inch diameter steel casing extended from the ground surface to 60 feet bgs to prevent water from the shallow aquifer from infiltrating the well. The annular space between the borehole wall and well screen were filled with sand and capped with a bentonite seal and cement grout as described above. A locking well cap and flush-mounted manhole cover were also fitted on the well. Details of well construction are included on the subsurface drilling logs provided in **Appendix D**.

3.4 Monitoring Well Development and Groundwater Monitoring and Sampling

After their installation and prior to their first groundwater sampling event, each of the monitoring wells were developed via surge and pump to remove residual sediment and drill cuttings from the wells so that representative groundwater samples could be collected. Development water was treated on-site with a portable granular activated carbon (GAC) treatment system and discharged to the surface for infiltration in accordance with PADEP guidelines (Groundwater Monitoring Guidance, February 29, 1996).

Prior to monitoring well sampling, GES collected liquid-level data in accordance with GES Standard Operating Procedures and Quality Control protocols and collected samples using dedicated, disposable bailers.

Groundwater monitoring and sampling is performed on a quarterly basis. Prior to sampling, liquid-level data is collected from each of the wells and the wells are purged of three well volumes via submersible pump to remove fine-grained material from the gravel pack and well screens. Each of the wells is sampled in accordance with GES' Standard Operating Procedures and Quality Control protocols using dedicated, disposable bailers. Samples are submitted to Analytical Laboratory Services, Inc. of Middletown, Pennsylvania (Analytical Labs) for analysis of BTEX, MTBE, isopropylbenzene, and naphthalene by EPA Method 8260B. Historical groundwater analytical data are summarized in **Table 2**. Laboratory analytical data sheets and chain-of-custody documentation are presented in **Appendix G**.

On January 13, 2005, liquid level data and groundwater quality samples were collected from the entire monitoring well network (MW-1 through MW-7). The liquid level data indicated depths to groundwater ranged from 9.31 feet (MW-1) to 14.63 feet (MW-7) below TOC. Based on the January 13, 2005 data, the hydraulic gradient was variable across the site but was predominantly 0.03 feet per foot (ft/ft) toward the west-southwest. A groundwater monitoring map for this gauging and sampling event is included as **Figure 5**. It should be noted that groundwater elevation data for monitoring well MW-7 is never used to calculate hydraulic gradient or groundwater flow direction since it is installed in a deeper aquifer than wells MW-1 through MW-6.

On April 20, 2005, liquid level data and groundwater quality samples were collected from the entire monitoring well network (MW-1 through MW-7). The liquid level data indicated depths to groundwater ranged from 8.52 feet (MW-1) to 14.48 feet (MW-7) below TOC. Based on the April 20, 2005 data, the hydraulic gradient was variable across the site but was predominantly 0.01 ft/ft toward the east-northeast. A groundwater monitoring map for this gauging and sampling event is included as **Figure 6**.

On July 15, 2005, liquid level data and groundwater quality samples were collected from the entire monitoring well network (MW-1 through MW-7). The liquid level data indicated depths to groundwater ranged from 14.31 feet (MW-1) to 20.15 feet (MW-7) below TOC. Based on the July 15, 2005 data, the hydraulic gradient was variable across the site but was predominantly 0.01 ft/ft toward the southwest. A groundwater monitoring map for this gauging and sampling event is included as **Figure 7**. Due to a significant increase in the dissolved concentrations of benzene, MTBE, and naphthalene in several monitoring wells (as discussed in Section 3.6.3 of this report), a confirmatory sampling event was conducted on September 7, 2005.

On September 7, 2005, liquid level data and groundwater quality samples were collected from the entire monitoring well network (MW-1 through MW-7). The liquid level data indicated depths to groundwater ranged from 23.45 feet (MW-2) to 29.81 feet (MW-7) below TOC. Based on the September 7, 2005 data, the hydraulic gradient was generally 0.01 ft/ft toward the northwest. Monitoring wells MW-1 and MW-3 were dry and were not able to be sampled during this event, so a second confirmatory sampling event was conducted on September 20, 2005. A groundwater monitoring map for this gauging and sampling event is included as **Figure 8.**

On September 20, 2005, liquid level data and groundwater quality samples were collected from the entire monitoring well network (MW-1 through MW-7). The liquid level data indicated depths to groundwater ranged from 23.75 feet (MW-3) to 32.85 feet (MW-7) below TOC. Based on the September 20, 2005 data, the hydraulic gradient was variable across the site but was primarily 0.05 ft/ft toward the west-northwest. Monitoring wells MW-1 and MW-2 were dry and were not sampled during this event. A groundwater monitoring map for this gauging and sampling event is included as **Figure 9**.

On October 28, 2005, liquid level data and groundwater quality samples were collected from the entire monitoring well network (MW-1 through MW-7). The liquid level data indicated depths to groundwater ranged from 12.02 feet (MW-1) to 18.81 feet (MW-7) below TOC. Based on the October 28, 2005 data, the hydraulic gradient was variable across the site but was primarily 0.01 ft/ft toward the west-southwest. A groundwater monitoring map for this gauging and sampling event is included as **Figure 10**.

3.5 Regional and Site-Specific Geology and Hydrogeology

The Pennsylvania Geologic Survey Physiographic Provinces of Pennsylvania (Map 13) indicates that this site resides in the Gettysburg-Newark Lowland Section Piedmont Province. The Gettysburg-Newark Lowland Section is characterized by rolling low hills and valleys which have developed over red sedimentary rock. Isolated higher hills are formed on top of diabase, hornfels, and conglomerates. Sedimentary rocks in this region generally dip toward the north-northwest and smaller drainageways are oriented normal to the direction of dip so that some of the topography has a northeast-southwest linearity. However, the basic drainage pattern is dendritic.

The Atlas of Preliminary Geologic Quadrangles of Pennsylvania (Map 61) indicates that the site is underlain by the Stockton Formation. The Stockton Formation consists of gray to buff cross-bedded arkosic sandstone, pebbly sandstone, reddish-brown arkosic sandstone, siltstone, and silty mudstone. In the Hatboro area, the Stockton Formation strikes approximately N 65 degrees E and dips approximately 9 degrees NW.

According to the Engineering Characteristics of the Rocks of Pennsylvania (Geyer and Wilshusen, 1982) rocks of the Stockton Formation form a complex, heterogeneous, multi-aquifer system consisting of a series of gently dipping lithologic units with different hydraulic properties. Most ground water in the unweathered zone moves through a network of interconnecting secondary openings, fractures, bedding plans, and joints. Groundwater is unconfined in the shallower part of the aquifer and semi-confined or confined in the deeper part of the aquifer. The average groundwater yield is 130 gallons per minute (gpm) from the arkosic sandstone and 20 gpm from the shale. Primary porosity occurs within the weathered portion of the formation while secondary permeability is within joints and bedding planes in the unweathered portions of the formation.

According to the subsurface drilling logs (**Appendix D**), the site is underlain by approximately six feet of reddish-brown silty clay. Competent red shale bedrock was encountered at an average of nine feet bgs, which is consistent with the regional geology descriptions.

A review of the United States Geologic Survey 7.5-Minute Hatboro, Pennsylvania topographic quadrangle indicates that the surrounding area slopes gently to the north, northeast, and northwest, suggesting that regional groundwater flow is also to the north, northeast, and northwest. A component of regional flow is likely toward an unnamed tributary of Little Neshaminy Creek, which is located approximately one mile northwest of the site.

Based on data collected during quarterly groundwater monitoring and sampling events, the depth to water at the site is inconsistent through the seasons. The depth to water over the most recent hydrologic cycle has ranged from 8.52 feet to 32.85 feet below TOC. Additionally, monitoring wells MW-1, MW-2, and MW-3 have been dry several times since their installation. It appears that the water table is generally located in competent shale bedrock. The hydraulic gradient does not appear to vary significantly (0.01 to 0.05 ft/ft over the last year), but groundwater flow

direction changes with the seasons, flowing toward the southwest, west-southwest, west-northwest, northwest, and east-northeast.

Based on information collected during site characterization activities, the following is a summary of observations:

- Competent shale bedrock is present beneath unconsolidated clayey soil and fill and is encountered at depths ranging from six to eleven feet bgs.

- Based on measured water levels, groundwater occurs in competent bedrock.

- The shallow (MW-1 through MW-6) and deep (MW-7) aquifers underlying the site appear to be unconfined, and the depth to groundwater in the deep aquifer is deeper than that in the shallow aquifer.

- The groundwater gradient as determined from groundwater elevations varies with the seasons and flows toward the southwest, west-southwest, west-northwest, and east-northeast, which is not consistent with the estimated regional groundwater flow. Regional groundwater flow is estimated to be toward the northwest, toward an unnamed tributary of Little Neshaminy Creek.

3.6 Nature and Extent of Hydrocarbon Presence

There are three primary components to a plume of released hydrocarbon product to the subsurface. These components are generally comprised of an adsorbed-phase, a separate-phase (light, non-aqueous phase liquid), and a dissolved-phase. As the gasoline contacts the soil, a significant percentage of the release will become adsorbed onto the particles of soil. The amount of product that becomes adsorbed will be dependent upon the following factors:

- The properties of the product (viscosity, solubility, etc.);
- The intrinsic permeability of the soil (the relative case with which a porous material transmits liquid);
- The amount of recharge, flushing, or infiltration of precipitation from the surface; and
- The amount of total organic carbon in soil.

The remaining product will continue to migrate through the soil column in the unsaturated zone under the influence of gravity and follow the path of least resistance (lenses or layers with the highest intrinsic permeability). As the product encounters the capillary fringe (the portion of the soil column where water is drawn upward from the saturated zone, and there is a greater percentage of water in this zone as compared to the soils above), it will tend to spread laterally, and a greater percentage will remain adsorbed in this zone.

The product that continues to migrate through the capillary fringe will eventually encounter the saturated zone. The primary mechanism for product migration in the saturated zone of an aquifer is horizontal groundwater flow, which is in turn influenced by the groundwater gradient, specific gravity less than water (tendency to float), and the secondary porosity of the aquifer material. Soluble compounds will dissolve into the groundwater and migrate with the groundwater flow. The fate and transport of these compounds in the groundwater are dependent upon the individual properties of each constituent. The more soluble and resistant to biodegradation the compound is, the greater the ability to dissolve in groundwater and transport greater distances (e.g., MTBE).

The following sections detail the results of the investigations to define the nature and extent of hydrocarbons in the subsurface.

3.6.1 Separate-Phase Hydrocarbons

Separate-phase hydrocarbons (SPH) have never been observed in any of the monitoring wells (MW-1 through MW-7) during groundwater monitoring events.

3.6.2 Soil Quality

Obvious, localized adsorbed-phase contamination was observed in the 1996 excavations related to the former UST and dispenser island removal. Soil samples collected during those activities indicated the presence of benzene at concentrations exceeding the PADEP SHS as well as other BTEX compounds at concentrations below the PADEP SHS. The presence of TPH and/or TPH-GRO was also detected in the soil in those excavations.

Soil samples collected during monitoring well installation (MW-1 through MW-6) indicated that none of the target unleaded gasoline parameters were detected at those locations, supporting the beliefs that the adsorbed contamination was localized in the immediate vicinity of the former USTs and the dispensers and that those areas are the sources of hydrocarbon contamination at the site. Historical soil analytical data are summarized in **Table 1**. Laboratory analytical data sheets and chain-of-custody documentation are presented in **Appendix A**.

3.6.3 Groundwater Quality

Benzene, MTBE, and naphthalene are the primary constituents-of-concern (COCs) in groundwater. Historically, each of the on-site monitoring wells (with the exception of MW-6) has had at least one of these parameters exceed the PADEP SHS. Ethylbenzene was detected one time above the PADEP SHS in monitoring well MW-2 in October 2002. Toluene, total xylenes, and isopropylbenzene have been detected at concentrations below the PADEP SHS across the site.

Groundwater analytical results indicate that monitoring wells MW-1, MW-2, and to a lesser degree MW-3 typically have the highest dissolved COC concentrations. These wells are located southwest of the former dispenser islands, which were located along the eastern property boundary. It should be noted that during the April 20 and September 7, 2005 sampling events, groundwater flow direction was determined to be toward the north-northeast and northwest, respectively. However, the remaining groundwater monitoring maps show wells MW-1 through MW-3 to be downgradient of the former dispensers. This further supports the belief that the former UST system and dispenser islands are the sources of hydrocarbon contamination. See **Figure 11** for the probable source area locations. Historical groundwater analytical data are summarized in **Table 2.** The groundwater laboratory analytical sheets and chain-of-custody documentation are presented in **Appendix G.**

Increases in dissolved hydrocarbon concentrations, specifically benzene and MTBE, were observed during groundwater sampling events on July 15 and October 28, 2005 in each monitoring well on-site. These events were conducted subsequent to a chemical oxidation event via hydrogen peroxide injection, as discussed in Section 6.0 of this report. It should be noted that minor increases in dissolved hydrocarbon concentrations following chemical oxidation events are common, which can be attributed to the desorption of hydrocarbons from the soil into the groundwater when the hydrogen peroxide reaction takes place.

Significant increases in dissolved MTBE concentrations were observed in monitoring wells MW-1, MW-2, MW-3, and MW-5 during the October 28, 2005 sampling event. Increases of this magnitude are not typically observed in GES' experience with the chemical oxidation process, although they might be possible if there was considerable adsorbed contamination in the vicinity of the injection. Monitoring wells MW-1, MW-3, and MW-5 surround the former and current dispenser islands located on the eastern side of the site.

As mentioned in Section 2.3.1 of this report, the amount of contaminated soil beneath the former dispensers and UST field that was removed during closure activities in 1996 is unclear, since the waste manifests were combined with the manifests associated with the station reconstruction. It is possible that the adsorbed-phase hydrocarbons observed in 1996 are still present in the vicinity of the former dispensers and UST field, which could be contributing to the increasing trends of dissolved concentrations in monitoring wells MW-1 and MW-2.

It is also possible that a new release has occurred in the current dispenser island area. Continued quarterly groundwater monitoring will be conducted to verify whether there has been a new release or whether the increasing trends are the result of residual adsorbed contamination in the vicinity of the former dispenser islands. Additionally, Sunoco is in the process of conducting UST system tightness testing and investigating whether there have been fuel inventory inconsistencies at the site. After the results of further monitoring and testing are reviewed, a Notification of Reportable Release will be submitted to the PADEP if warranted.

To further characterize the groundwater quality surrounding the former dispenser islands, it is recommended that an additional on-site monitoring well be installed north of that area, near the eastern property boundary. This additional well would also assist in estimating groundwater flow directions, as groundwater on-site periodically flows toward the northeast and/or northwest.

3.6.4 Hydrocarbon Trends

The changes in dissolved benzene, ethylbenzene, MTBE, and naphthalene concentrations were analyzed for monitoring wells with historical exceedances of the PADEP SHS of any compound of concern to identify temporal trends and evaluate the effect of natural attenuation. Trend analysis was performed to determine the stability of the plume.

The analysis was conducted using procedures described in ASTM E 1943-98, "Standard Guide for Remediation of Groundwater by Natural Attenuation at Petroleum Release Sites." The analysis as specified by ASTM is a graphical approach which consists of plotting the natural log (LN) of the concentrations of each compound over time and fitting a straight line to the resulting plot. By comparing the trend lines for each well, and the location of the well within the plume, a determination can be made regarding the behavior of the plume (e.g., shrinking, stable, or expanding). Downward trends indicated by the plots of concentration over time within the source area and concurrently in the downgradient wells are considered to be the primary line of evidence that natural attenuation is occurring. When the source loading of a particular compound into the aquifer is exceeded by the rate of natural attenuation, the plume is shrinking. Plots indicating a horizontal trend (neither upward nor downward) suggest that the loading rate is equal to the rate of attenuation, and the plume is considered to be stable. Additionally, the r-squared values included on the graphical plots assist in determining a trend. A more consistent trend is indicated by an r-squared value approaching 1.

Historical groundwater analytical data were used to create hydrocarbon trend graphs for benzene, ethylbenzene, MTBE, and naphthalene in monitoring wells where those COCs exceeded the PADEP SHS. Toluene, total xylenes, and isopropylbenzene have never exceeded the PADEP

SHS in any well on-site and were not considered for this analysis. The following is a summary of the hydrocarbon trend graph analysis in which all historical groundwater analytical data were used. The hydrocarbon trend graphs are attached as **Appendix H**.

- Benzene concentrations exhibit decreasing trends in monitoring wells MW-2 and MW-3 but exhibit an increasing trend in monitoring well MW-1. Benzene was not detected above the PADEP SHS in monitoring wells MW-4 through MW-7 and was therefore not plotted for those wells.

- Ethylbenzene concentrations exhibit a decreasing trend in monitoring well MW-2. Ethylbenzene was not detected in any other well on-site at concentrations exceeding the PADEP SHS.

- MTBE concentrations exhibit decreasing trends in monitoring wells MW-3 and MW-4 but exhibit increasing concentrations in monitoring wells MW-1, MW-2, MW-5, and MW-7.

- Naphthalene concentrations exhibit a decreasing trend in monitoring well MW-2 but exhibit an increasing trend in monitoring well MW-1. Naphthalene was not detected above the PADEP SHS in monitoring wells MW-3 through MW-7.

A second hydrocarbon trend graph analysis was conducted which included only groundwater analytical data from the most recent eight quarters (January 2004 through October 2005). It should be noted that only monitoring wells MW-1 through MW-4 were considered in this second analysis, as those are the only wells that have existed for more than two years. Monitoring wells MW-5 through MW-7 were installed within the most recent eight quarters; therefore the second trend analysis would yield the same results as the first.

- Benzene concentrations exhibit increasing trends in monitoring wells MW-1 and MW-2. Benzene was not detected above the PADEP SHS in monitoring wells MW-3 or MW-4 over the last eight quarters.

- MTBE concentrations exhibit increasing concentrations in monitoring wells MW-1 and MW-2, but exhibit overall decreasing concentrations in monitoring wells MW-3 and MW-4. However, it should be noted that although the plots indicate decreasing concentrations in MW-3 and MW-4, the most recent analytical data (October 28, 2005) indicate a significant increase in MTBE concentrations since the previous sampling events in each of the monitoring wells on-site, aside from MW-6.

- Naphthalene concentrations exhibit increasing concentrations in monitoring wells MW-1 and MW-2. Naphthalene was not detected above the PADEP SHS in monitoring wells MW-3 or MW-4 over the last eight quarters.

A series of isoconcentration maps were created to assist in the visualization of the historic trends of dissolved hydrocarbons. Two maps were drafted for each constituent of concern (COC) that has historically exceeded the PADEP SHS at this site (i.e., benzene, ethylbenzene, MTBE, and naphthalene). The historical maximum concentrations in each well for each parameter, representing the worst case scenarios, were depicted first. These maps estimated the maximum extent of the hydrocarbon constituents across the site. Second, the laboratory analytical results from the most recent groundwater sampling event conducted on October 28, 2005 were depicted. These maps estimated the current extent of hydrocarbon presence across the site.

The isoconcentration maps indicate that monitoring wells MW-1 and MW-2 are typically the wells with the highest concentrations of each of the constituents-of-concern. After a review of the groundwater monitoring maps from the last four quarters of groundwater sampling, it appears that MW-1 and MW-2 are normally downgradient of the former dispenser islands located along the eastern property boundary of the site. Additionally, the soil analytical data associated with the station upgrade activities in 1996 indicated that adsorbed hydrocarbons were present beneath the dispensers. This information suggests that a leak in the former product dispensers is a source of the hydrocarbon contamination at this site. The isoconcentration maps are included as **Figures 12 through 15.**

4.0 FATE AND TRANSPORT ANALYSIS

At the site, petroleum hydrocarbon compounds have been detected in soil and groundwater. According to the analytical results and field observations, the adsorbed-phase hydrocarbon impact is localized beneath the former dispenser islands and former UST field. The dissolved-phase hydrocarbons have been detected across the site, with the most significant concentrations near the former dispensers (MW-1 through MW-3). Therefore the former dispenser island along the eastern property boundary and the former UST field are considered the source areas (**Figure 11**).

4.1 Analytical Modeling

GES utilized Environmental Systems & Technologies (ES&T) to perform the fate and transport modeling, which was conducted to predict the extent of off-site migration of dissolved-phase hydrocarbons detected at the site. Analytical modeling was performed utilizing the BIOTRANS method. Analytical models require simplifying assumptions regarding the flow and transport conditions. In this effort, the analytical model was considered to be conservative. Benzene, MTBE, and naphthalene were analyzed in this model since they are constituents-of-concern with concentrations detected above the PADEP SHS over the last 12 quarters of groundwater sampling. Ethylbenzene was detected above the PADEP SHS one time in monitoring well MW-2 on October 30, 2002, but was not considered a concern for the site. The fate and transport analysis is summarized in the following sections. Please refer to **Appendix I** for a detailed explanation of the model in the ES&T report.

4.1.1 Model Description

BIOTRANS is a two-dimensional, finite element model that considers convective-dispersive transport, adsorption, and decay for multiple hydrocarbon constituents in either porous or fractured media. Transport of dissolved-phase species is simulated by solving the two-dimensional, vertically averaged convective-dispersive-reactive equation. The model utilizes steady-state velocity fields that represent average flow conditions. Analysis using BIOTRANS have been previously submitted and accepted by the US EPA and state regulatory agencies.

4.1.2 Model Parameters

Input parameter values were defined from site-specific and published data. The following describes the input parameters of the BIOTRANS model and the values applied in the model.

Dissolved Species

Benzene, MTBE, and naphthalene were used in the model since these constituents were found above the PADEP SHS. The chemical properties of these constituents (molecular weight, solubility, K_d, K_{oc}, and the first order decay rate) were applied in the model. The K_{oc} values used in the model were selected from Appendix A, Table 5, of the Act 2 Regulations (PADEP, 2003).

Initial Concentrations

The maximum concentrations of benzene, MTBE, and naphthalene from the last 12 groundwater sampling events were used as the initial concentrations in the model. Using the maximum concentrations results in a more conservative estimate of the dissolved-phase fate and transport simulation.

Porosity

Due to the competent shale bedrock beneath the site, a porosity value of 0.10 was used in the model.

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Soil Bulk Density
The soil bulk density used in the model is 2.39 g/cm^3.

Longitudinal and Transverse Dispersivity
The longitudinal and transverse dispersivities used in this model were conservatively estimated as 4 feet and 0.4 feet respectively.

Groundwater Flow
Groundwater flow representative of measured site conditions was simulated in the modeling effort. A steady-state, uniform flow field was generated considering site hydrogeologic conditions. Hydraulic conductivity within the aquifer was estimated to be 0.001 feet/day and aquifer thickness was assumed to be 85 feet based on the maximum well depth and average water table elevations at the site.

4.1.3 Modeling Results

Results of the BIOTRANS modeling simulation indicate that the effects of degradation, dispersion, and adsorption will act to reduce benzene, MTBE, and naphthalene concentrations over time. Benzene concentrations are predicted to remain above the PADEP SHS for the entire 30 year simulation. However, no off-site migration of the benzene plume is predicted. MTBE concentrations are predicted decrease to below the PADEP SHS between 22 and 23 years with no off-site migration predicted beyond that of the initial MTBE plume (see **Figure 4 in Appendix I**). Naphthalene concentrations are predicted to remain above the PADEP SHS for the entire 30 year simulation, but no off-site migration is predicted. The fate and transport model results and figures are included as **Appendix I**.

4.2 Vapor Intrusion Assessment

There are three considerations to determine if the vapor intrusion pathway is a potential concern:

- Inhabited buildings must be close (within 100 horizontal feet) to a volatile source.
- There must be at least five feet of soil-like material.
- The source concentration must be above some threshold or screening concentration.

The following table indicates the maximum dissolved concentrations observed on-site as well as the groundwater screening values for protection of indoor air in a non-residential setting as referenced in Table 2 of the Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standards (PADEP, January 24, 2004).

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Regulated Substance	Maximum Observed Concentration (µg/L)	Default Non-Residential Groundwater Screening Value (Volatilization to Indoor Air) (µg/L)	COPIAC
Benzene	430	5,900	No
Toluene	589	NOC	No
Ethylbenzene	886	45,000	Yes
Total Xylenes	1,150	NOC	No
MTBE	12,800	640,000	No
Isopropylbenzene	113	NOC	No
Naphthalene	344	NOC	No

NOC: Not of Concern, value above constituent water solubility

COPIAC: Constituent of Potential Indoor Air Concern

The maximum observed concentrations of BTEX, MTBE, isopropylbenzene, and naphthalene in groundwater are below the PA Default groundwater screening values; therefore, vapor intrusion into a building from groundwater volatilization is not a concern for the site. The historical groundwater analytical data are summarized in **Table 2**.

The following table indicates the maximum adsorbed concentrations observed on-site as well as the soil screening values for protection of indoor air in a non-residential setting as referenced in Table 5 of the Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standards (PADEP, January 24, 2004).

Regulated Substance	Maximum Observed Concentration (µg/kg)	Default Non-Residential Soil Screening Value (Volatilization to Indoor Air) (µg/kg)	COPIAC
Benzene	**1,900**	630	No
Toluene	33,000	110,000	No
Ethylbenzene	**41,000**	9,500	Yes
Total Xylenes	**250,000**	77,000	Yes
MTBE	<20	86,000	No
Isopropylbenzene	<10	360,000+	No
Naphthalene	<20	NOC	No

NOC: Not of Concern

COPIAC: Constituent of Potential Indoor Air Concern

+ - Soil saturation concentration (C_{sat}): Concentration above C_{sat} may suggest the need to investigate the potential presence of NAPL.

The maximum observed adsorbed concentrations of benzene, ethylbenzene, and total xylenes in soil exceed the PA Default non-residential screening values. Therefore, vapor intrusion into a building from soil volatilization is a concern for the site. Historical soil analytical data is summarized in **Table 1**.

4.3 Baseline Risk Assessment

A Baseline Risk Assessment was conducted utilizing Tier 2 Risk-Based Corrective Action (ASTM E-1739, 1995) (RBCA) protocols and guidelines established by 25 PA Code, Chapter

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250. In this section, all potential exposure pathways are reviewed followed by a baseline risk assessment for the pathways applicable to the site using Tier 2 RBCA protocols.

Using PADEP-approved EPA and ASTM guidance, this assessment identified potential current and future exposure pathways for human receptors, as per PA Code §250.402. Where appropriate, incomplete exposure pathways and constituents that were not found in environmental media in exceedance of the PADEP SHS were eliminated from future consideration. Risk was calculated as a commercial scenario, because the current and future property use is commercial.

4.4 Exposure Pathway Assessment

Human or ecological receptors can be exposed to COCs through four major pathway categories: 1) air, 2) groundwater, 3) soil, and 4) surface water. Within each pathway category are specific exposure pathway scenarios. The following is a description of each possible exposure pathway. Pathways pertinent to the site are identified.

4.4.1 Air Exposure Pathways

- *Inhalation of vapors volatilized from subsurface soils to the ambient air*: Analytical results from the subsurface soil samples collected at this site during site characterization activities indicated that concentrations of benzene exceed the PADEP SHS. However, impermeable materials (asphalt) that prevent contact with or ingestion of surface soils cover the majority of the site, which restricts volatilized vapor from entering the breathing zone. Considering these factors, this pathway was not considered relevant for this site and was not considered in the risk assessment.

- *Inhalation of vapors volatilized from groundwater into the ambient air*: The majority of the site is covered by impermeable materials, which restrict volatilized COCs from entering the breathing zone. In addition, average depth to groundwater at this site ranges from ten to 24 feet bgs. Therefore, this pathway was not considered relevant for the risk assessment.

- *Inhalation of vapors volatilized from subsurface soil into an enclosed space*: This scenario includes vapors entering basements, crawl spaces, subsurface utility vaults, and in some situations, enclosed buildings. Analytical results from subsurface soil samples collected during site characterization activities indicated that benzene, toluene, and total xylenes concentrations were above the soil default screening values for vapor intrusion. Therefore, this pathway was considered a concern for the site.

- *Inhalation of vapors volatilized from groundwater into an enclosed space*: This scenario includes vapors entering basements, crawl spaces, subsurface utility vaults, and in some situations, enclosed buildings. Historical groundwater data indicated that none of the dissolved concentration values are above the groundwater default screening values for vapor intrusion. Additionally, separate-phase hydrocarbons (SPH) have never been detected at this site. Therefore, this pathway was not considered relevant for the risk assessment.

4.4.2 Groundwater Exposure Pathways

- *Ingestion of groundwater through a water supply well*: According to a door-to-door survey conducted by GES in March 2001, the Warminster Municipal Water Authority supplies water to the site and surrounding area. There are potable wells used as the

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primary source of drinking water within a ½-mile radius of the site, but unleaded gasoline constituents were not detected in those wells when they were analyzed in 2001 by GES (Section 3.2 of this report). Additionally, fate and transport modeling predicts that the constituents-of-concern (benzene, MTBE, and naphthalene) will not migrate offsite during the 30 year simulation. Based on that information, this pathway was deemed irrelevant for this site and was not considered in the risk assessment.

4.4.3 Soil Exposure Pathways

- *Dermal contact and direct ingestion of contaminated soils*: Impermeable materials that prevent contact with or ingestion of surface soils cover the majority of the site. Additionally, analytical results indicated that all COCs were either not detected or were below the direct contact medium specific concentrations (MSCs) set forth in Act 2. Therefore, this pathway was not considered relevant for this site in the risk assessment.

4.4.4 Surface Water Exposure Pathways

- *Contact with surface water contaminated by runoff from contaminated surface soil*: Since the majority of the site is paved, it is unlikely that runoff will contact surface soil. Therefore, this pathway is deemed irrelevant and will not be considered in the risk assessment.

- *Contact with surface water contaminated by groundwater discharge*: There is no body of surface water located within 2,500 feet of the site. Therefore this pathway was not considered relevant for the site and was not considered in the risk assessment.

In summary, one potential open exposure pathway was identified for the site, specifically volatilization from soil into an enclosed space (i.e., the station building). It is recommended that two to three dedicated soil gas monitoring points be installed between the potential source of vapors (former dispenser islands and the former UST field) and the station building. Upon completion of two soil gas surveys, the exposure pathways at the site will be reevaluated to determine whether additional risk assessment is warranted.

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5.0 SITE CONCEPTUAL MODEL

This site is currently an active retail gasoline station and convenience store. The surrounding area consists mainly of commercial properties with a residential neighborhood beyond them to the south. Center Point Plaza is located to the west, across Street Road. The Eagle Diner and the Warminster Shopping Plaza are located northwest of the site. Archbishop Wood High School, Nativity Catholic Church and School, and Hatboro Savings Bank are located to the east, across York Road. Finally, a light commercial area is located south of the site, with a residential neighborhood beyond.

The subsurface drilling logs indicate the site is underlain by a layer of clayey soil and fill followed by competent red shale bedrock of the Stockton Formation, which was encountered at depths ranging from six to 11 feet bgs.

Based on measured water levels, groundwater typically occurs in the shale bedrock with an average depth to water of approximately 10 to 24 feet below TOC; the shallow and deep aquifers underlying the site appear to be unconfined. The groundwater flow direction on-site, as determined from groundwater elevations, varies with the seasons and is toward the southwest, west-southwest, west-northwest, and east-northeast, which is not consistent with the estimated regional groundwater flow. Regional groundwater flow is estimated to be toward the northwest, toward an unnamed tributary of Little Neshaminy Creek.

Unleaded gasoline constituents from the former UST system have been detected in the subsurface. Site characterization activities identified localized adsorbed-phase hydrocarbons in soil beneath the former dispenser islands and in the former UST excavation. Dissolved-phase hydrocarbons in groundwater were also identified at the site.

Soil analytical results indicated benzene was detected at concentrations above the PADEP SHS beneath the dispenser islands in the vicinity of the former UST field. No other target parameters were detected above the PADEP SHS in soil, but BTEX was detected at concentrations below the PADEP SHS. Adsorbed TPH and TPH-GRO were also observed during the UST closure activities. Soil samples collected during monitoring well installation did not exhibit any of the target parameters.

Dissolved-phase hydrocarbons have dispersed across the site but are primarily concentrated southwest of the former dispenser islands (at the eastern property boundary), as exhibited by groundwater samples collected from monitoring wells MW-1, MW-2, and MW-3. According to the most recent groundwater laboratory analytical results, benzene, MTBE, and/or naphthalene remain above the PADEP SHS in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7.

Based on the extent of contamination at the site, the primary sources of hydrocarbon contamination are considered to be the former dispenser islands, the UST system, and the product delivery lines associated with them, which were removed from the site in 1996 during site reconstruction activities.

According to the trend graph analysis, dissolved benzene, MTBE, and/or naphthalene trends are increasing in monitoring wells MW-1, MW-2, MW-3, MW-5, and MW-7. However, based upon fate and transport analysis, dissolved benzene, MTBE, and naphthalene will not migrate off-site. Benzene and naphthalene concentrations are predicted to remain above the PADEP SHS for the entire 30 year simulation used in the model. Naphthalene concentrations are predicted to remain above the PADEP SHS for 22 to 23 years.

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6.0 INTERIM REMEDIAL ACTION

On April 28, 2005, GES conducted a chemical oxidation via hydrogen peroxide injection event at the site. An injection pump was used to dispense a known volume and concentration of hydrogen peroxide into the subsurface through existing monitoring wells (MW-1, MW-3, and MW-5). The oxidation process breaks down petroleum hydrocarbons in the groundwater into by-products of carbon dioxide and water. Approximately 450 gallons of eight-percent hydrogen peroxide solution were injected into the subsurface.

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7.0 SELECTION OF REMEDIAL STANDARDS

7.1 Soil

Analytical results from soil samples collected during site characterization activities indicated that benzene was detected above the PADEP SHS in eight samples collected during site upgrade activities beneath the former product dispensers, the product delivery lines, and the former UST field. Toluene, ethylbenzene, total xylenes, TPH, and TPH-GRO were detected below the PADEP SHS. MTBE, isopropylbenzene, and naphthalene were not detected in soil at the site. As a result, a combination of Statewide Health and Site-Specific Standards (SSS) will apply to the site.

The applicable SHS selected for soil at this site were determined base on the following criteria:

Non-Residential – The previous, current, and future use of the site is commercial. The current site utilization is a retail gasoline station and convenience store.

Used Aquifer – There are potable wells within 2,500 feet of the site, but drinking water is supplied to the site the surrounding area by the Warminster Municipal Water Authority. The non-use aquifer determination has not been pursued for the purpose of this report and the more conservative used-aquifer values have been used.

Total Dissolved Solids – Total dissolved solids are assumed to be less than or equal to 2,500 µg/L.

Sample Depth – Soil samples were collected from surface (< 2') and subsurface (> 2') locations.

Soil Saturation – Soil samples were collected from unsaturated soil conditions.

Based on the above criteria, the following values were determined to be the applicable SHS for the COCs.

Compound	Unsaturated / Saturated Statewide Health Standard for Soil in a Non-Residential, Used Aquifer (µg/kg)	Site-Specific Standard (µg/kg)
Benzene	500	To be determined
Toluene	100,000	N/A
Ethylbenzene	70,000	N/A
Total Xylenes	1,000,000	N/A
MTBE	2,000	N/A
Isopropylbenzene	1,600,000 / 230,000	N/A
Naphthalene	25,000 / 10,000	N/A

N/A: Not Applicable

7.2 Groundwater

Benzene, ethylbenzene, MTBE, and/or naphthalene concentrations have exceeded the PADEP SHS for groundwater in all monitoring wells except MW-6. All other target unleaded gasoline parameters (toluene, total xylenes, and isopropylbenzene) have been detected below the PADEP SHS.

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According to the most recent groundwater sampling results (October 28, 2005), dissolved concentrations of benzene, MTBE, and naphthalene were detected at concentrations exceeding the PADEP SHS. Toluene, ethylbenzene, total xylenes, and isopropylbenzene were detected at concentrations below the PADEP SHS. As a result, a combination of Statewide Health and Site-Specific Standards (SSS) will apply to this site.

The applicable SHS for groundwater selected for this site were determined based on the following criteria:

Non-Residential – The previous, current, and future use of the site is commercial. The current site utilization is a retail gasoline station and convenience store.

Used Aquifer – There are potable wells within 2,500 feet of the site, but drinking water is supplied to the site the surrounding area by the Warminster Municipal Water Authority. The non-use aquifer determination has not been pursued for the purpose of this report, and the more conservative used-aquifer values have been used.

Total Dissolved Solids – Total dissolved solids are assumed to be less than or equal to 2,500 µg/L.

Based on the above criteria, the below-listed values were determined to be the applicable standards for the compounds of concern.

Compound	Statewide Health Standard for Groundwater in a Non-Residential Used Aquifer (µg/L)	Site-Specific Standard (µg/L)
Benzene	5	To be determined
Toluene	1,000	N/A
Ethylbenzene	700	N/A
Total Xylenes	10,000	N/A
MTBE	20	To be determined
Isopropylbenzene	2,300	N/A
Naphthalene	100	To be determined

N/A: Not Applicable

Since future remedial actions are planned for the site to address adsorbed- and dissolved-phase hydrocarbon impact (see Section 8.0 of this report), SSS for soil and groundwater will not be chosen at this time but will be determined after additional site characterization (i.e., a soil boring investigation and two soil gas surveys) and future remedial actions have been completed.

7.3 Attainment Demonstration

Soil quality at the site meets the general attainment requirements for SHS for toluene, ethylbenzene, total xylenes, isopropylbenzene, and naphthalene for soil in a non-residential, used aquifer. However, benzene was detected at concentrations above the SHS in eight samples during the 1996 station reconstruction activities. Upon completion of future remedial actions and soil attainment sampling, as outlined in 25 Pa Code 250.703, attainment for a combination of SHS and SSS will be demonstrated.

As outlined in 25 Pa Code 250.704, attainment for a combination of SHS and SSS for groundwater will be demonstrated when dissolved-phase petroleum hydrocarbon compounds are

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below their respective cleanup standards for a period of eight consecutive quarterly monitoring and sampling events at and beyond the point of compliance during post-remediation monitoring and sampling. Cleanup standards will not be established until the completion of planned remedial actions (Section 8.0) and when decreasing trends are observed in each of the point-of-compliance wells.

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8.0 REMEDIAL ACTION PLAN

Following the interim remedial actions described in Section 6.0 of this report, remedial activities were suspended to monitor groundwater concentrations for the last two quarters of 2005. The groundwater sampling data obtained during July through October 2005 demonstrate increasing trends in groundwater concentrations in six of the seven on-site monitoring wells. As mentioned in Section 3.6.3 of this report, the increases in groundwater concentrations could be attributed to desorption of hydrocarbons from soil into groundwater as a result of the chemical oxidation process.

Due to steady and increasing groundwater concentrations across the site, GES proposes the following plan to monitor and address the dissolved-phase hydrocarbon concentrations in the subsurface.

8.1 Groundwater Monitoring

Groundwater monitoring will continue as described in Section 3.3 for the first two quarters of 2006. The results of the sampling events will be used to determine whether groundwater concentrations are steady, increasing, or decreasing. If groundwater sampling results indicate steady or increasing trends in hydrocarbon concentrations, active remediation via discrete high-intensity targeted (HIT) events will be reinitiated during third quarter 2006. If groundwater sampling results indicate decreasing hydrocarbon trends and all PADEP SHS and site-specific standards have been met, attainment sampling will begin as described in Section 8.3 of this report.

8.2 High-Intensity Targeted Remediation

If necessary, pending the results of groundwater monitoring during the first and second quarters of 2006, bi-monthly HIT remediation via hydrogen peroxide injection events will be initiated at the site beginning in July 2006. Three injection points will be installed prior to the start of the HIT events. Injection well locations will be determined based upon groundwater sampling data obtained during the first and second quarters 2006.

During each injection event, groundwater chemistry parameters including DO, pH, ORP, depth to groundwater, and groundwater temperature will be recorded to determine what influence hydrogen peroxide has at the surrounding monitoring wells. Prior to subsequent events, available groundwater quality data will be evaluated to ensure that the hydrogen peroxide injection is concentrated at the appropriate injection points. Groundwater chemistry parameters will be recorded during each subsequent HIT remediation event and quarterly groundwater sampling event.

8.3 Remediation Completion and Attainment Sampling Evaluation

At the conclusion of the fourth quarter of 2006, HIT remediation activities will be suspended to allow for evaluation of resultant groundwater conditions and a minimum of two quarters of groundwater sampling will be conducted. Active remediation will be considered complete when the following conditions have been achieved:

- Decreasing hydrocarbon concentration trends are observed for a minimum of two quarters; and
- PADEP SHS and/or site-specific standards are achieved.

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Upon completion of active remediation at the site, it will be necessary, per Section IV of Pennsylvania's Land Recycling Program Technical Guidance Manual (Item #6-Additional Information on Statistical Procedures, Page IV-53 and IV-54), to confirm that groundwater conditions have stabilized prior to beginning attainment sampling. Specifically, stable conditions will be determined by comparing groundwater temperatures and hydrogen peroxide concentrations at wells used for injection and point-of-compliance (POC) wells to an upgradient, non-impacted, non-injection well. To verify that groundwater stabilization has been achieved, the following conditions will be required prior to attainment sampling:

- Field testing indicates that the chemical oxidation reaction is complete and residual hydrogen peroxide solution is no longer present in the injection and/or POC wells. To determine if the reaction is complete, water quality testing strips (or an appropriate alternative field measurement device) designed to indicate the hydrogen peroxide concentration will be used during groundwater sampling events to determine if any residual hydrogen peroxide is in the monitoring and/or POC wells. Any concentrations of peroxide observed in these wells will be compared to readings in an upgradient well known to have not been impacted by peroxide injection. If the concentrations are equal to or are less than the background concentrations, the groundwater will be considered stabilized;

- Groundwater temperature has returned to conditions observed prior to remedial activity. As previously stated, seasonal fluctuations in groundwater temperature are expected and will be considered when determining if pre-remediation conditions exist. Temperature readings collected before the April 28, 2005 chemical oxidation event and those collected at upgradient wells will provide baseline information for evaluation of temperature stabilization.

Since changes in DO and ORP are expected due to the decrease in hydrocarbon concentrations, these parameters will not be considered when determining if pre-remediation conditions exist. Readings for these parameters will continue to be collected and will be used in conjunction with hydrocarbon concentration reductions to determine the overall success of remediation activities at the site.

In the event that decreasing concentrations are not observed, two additional injection and extraction events will be conducted in 2007, and the site will be re-evaluated based on the above criteria. If decreasing concentrations are achieved but all other criteria are not achieved, two additional quarters of groundwater sampling will be conducted to monitor the groundwater chemistry and allow conditions to stabilize. Attainment sampling will be initiated when the above conditions are met; groundwater chemistry parameters will continue to be monitored to ensure that groundwater has stabilized.

8.4 Permitting

The injection process is governed by the requirements of the United States Environmental Protection Agency (USEPA). An application for coverage under the Underground Injection Control (UIC) program was submitted to the USEPA Region III, and permission was granted to perform the chemical oxidation injections.

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8.5 Implementation Schedule

The HIT events are tentatively scheduled to begin in July 2006. Chemical oxidation events will be performed on alternating months, for a period of six months, for a total of three injection (hydrogen peroxide) events. Following this period, the HIT events will be discontinued to evaluate data and make further recommendations and, if necessary, additional events will be scheduled.

A summary of the proposed remediation schedule is presented below. This schedule is dependent upon PADEP approval and changes to site conditions:

First and Second Quarter 2006 – Perform quarterly groundwater sampling.

Third and Fourth Quarter 2006 – Perform quarterly groundwater sampling, three chemical oxidation and three vacuum extraction events as needed, and begin attainment sampling if active remediation is considered complete as outlined in Section 8.3 above.

First Quarter 2007 – Perform additional HIT events if necessary, and begin attainment sampling if active remediation is considered complete as outlined in Section 8.3 above.

8.6 Site Safety

All health and safety standards will be maintained in accordance with Occupational Safety and Health Administrative guidelines 29 CFR 1910.120. It is anticipated that all on-site work will be performed using Level D personal protective equipment recognizing the potential for an upgrade if petroleum hydrocarbon concentrations exceed the action levels identified by the site specific health and safety plan (HASP). Additional safeguards regarding the use and handling of hydrogen peroxide and bioremediation materials will be included in the HASP; these will be communicated to all site personnel prior to site work.

8.7 Reporting

Reports summarizing remedial and monitoring activities and site conditions will be submitted to the PADEP on a quarterly basis. The reports will include a site activities update, well gauging data, groundwater gradient map, sampling summary table, estimated hydrocarbon reduction data, and associated analytical data.

8.8 Disposal of Wastes

Any wastes generated by the remedial activities will be disposed of in accordance with all applicable state and federal regulations.

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9.0 SUMMARY

The following is a summary of site conditions and findings based upon the site characterization activities conducted at Sunoco Station #0363-5430, located at 610 Old York Road, Warminster Township, Bucks County, Pennsylvania.

- Unconsolidated subsurface soils at the site consist of mostly of clayey soil and fill materials overlying competent red shale bedrock of the Stockton Formation, which was encountered at depths ranging from six to 11 feet bgs.

- Historical soil analytical results indicate that benzene was detected at concentrations exceeding the PADEP SHS beneath the former product dispensers and the former UST field. BTEX were also detected at concentrations below the PADEP SHS in the former product dispenser and UST field excavations. No unleaded gasoline constituents were detected in soil during monitoring well installation activities. Adsorbed-phase MTBE and isopropylbenzene have never been detected at this site. Adsorbed TPH and TPH-GRO were detected in the dispenser island and former UST field excavations.

- Based on measured water levels, groundwater generally occurs in an unconfined bedrock aquifer.

- The hydraulic gradient ranges from 0.01 to 0.05 ft/ft across the site with groundwater flow direction varying considerably with the seasons. Groundwater flows toward the southwest, west-southwest, west-northwest, and east-northeast, which is not consistent with the estimated regional groundwater flow. Regional groundwater flow is estimated to be generally toward the northwest, toward an unnamed tributary of Little Neshaminy Creek.

- Analytical results from groundwater samples collected during the most recent sampling event (October 28, 2005) indicate that benzene, MTBE, and/or naphthalene were detected at concentrations exceeding the PADEP SHS in all monitoring wells except MW-6.

- Based on fate and transport modeling, the benzene, MTBE, and naphthalene plumes are not anticipated to migrate off-site.

- Based on the hydrocarbon trend graph analysis, the benzene, MTBE, and naphthalene concentrations in monitoring wells MW-1 and MW-2 are increasing, which may be attributed to the desorption of hydrocarbons from soil into groundwater as a result of the chemical oxidation process. The increases could also indicate that residual adsorbed contamination from the former product dispensers is affecting wells MW-1 and MW-2 or that a new release has occurred at the current product dispenser islands.

  As mentioned in Section 3.6.3, continued quarterly groundwater monitoring will be conducted to verify whether there has been a new release or whether the increasing trends are the result of residual adsorbed contamination in the vicinity of the former dispenser islands. Additionally, Sunoco is in the process of conducting UST system tightness testing and investigating whether there have been fuel inventory inconsistencies at the site. After the results of further monitoring and testing are reviewed, a Notification of Reportable Release will be submitted to the PADEP if warranted.

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10.0 CONCLUSIONS AND RECOMMENDATIONS

The following is a summary of conclusions based on the information presented in this report as well as recommendations to complete the characterization of the site.

- There are two probable sources of unleaded gasoline contamination at the site: the former dispenser islands located along the eastern property boundary and the former UST field.

- The site requires additional characterization before the risk assessment can be considered comprehensive. The following activities should be considered for the near future:

  - A soil boring investigation should be conducted in the vicinity of each of the former dispenser islands to adequately define the adsorbed-phase impact at those locations and to verify whether residual soil contamination is currently affecting dissolved concentrations in groundwater.

  - An additional on-site monitoring well should be installed north of the former dispenser islands near the eastern property boundary to further define groundwater quality and flow direction in that area of the site.

  - Two or three dedicated soil gas collection points should be installed between the source areas and the station building. Two soil gas surveys should be conducted to determine whether vapor intrusion from soil into an enclosed space is a concern for this site. When the soil gas results are available, the risk assessment will be reevaluated for additional potential exposure pathways.

- Groundwater monitoring and sampling will continue on a quarterly basis at the site. If dissolved hydrocarbon concentrations continue to increase, three bi-monthly hydrogen peroxide injection events will be conducted beginning in July 2006.

- A fuel inventory check and UST system tightness testing shall be conducted by Sunoco to determine whether a new release has occurred, causing the increasing groundwater concentrations. Upon receipt of the results of the testing, GES will submit a Notification of Reportable Release to the PADEP if necessary.

- This most recent phase of site characterization was performed to document the Storage Tank Corrective Action Process, and Sunoco plans to demonstrate a combination of Statewide Health Standards and Site-Specific Standards for groundwater and soil in accordance with the applicable provisions of Pennsylvania Act 2.

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11.0 REFERENCES

Berg T. M., et al. 1980. Geologic Map of Pennsylvania, Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey, Harrisburg, Pennsylvania.

Geyer, A. R., and J. P. Wilshusen. 1982. *Engineering Characteristics of the Rocks of Pennsylvania, Second Edition*, Pennsylvania Geologic Survey, Harrisburg, PA.

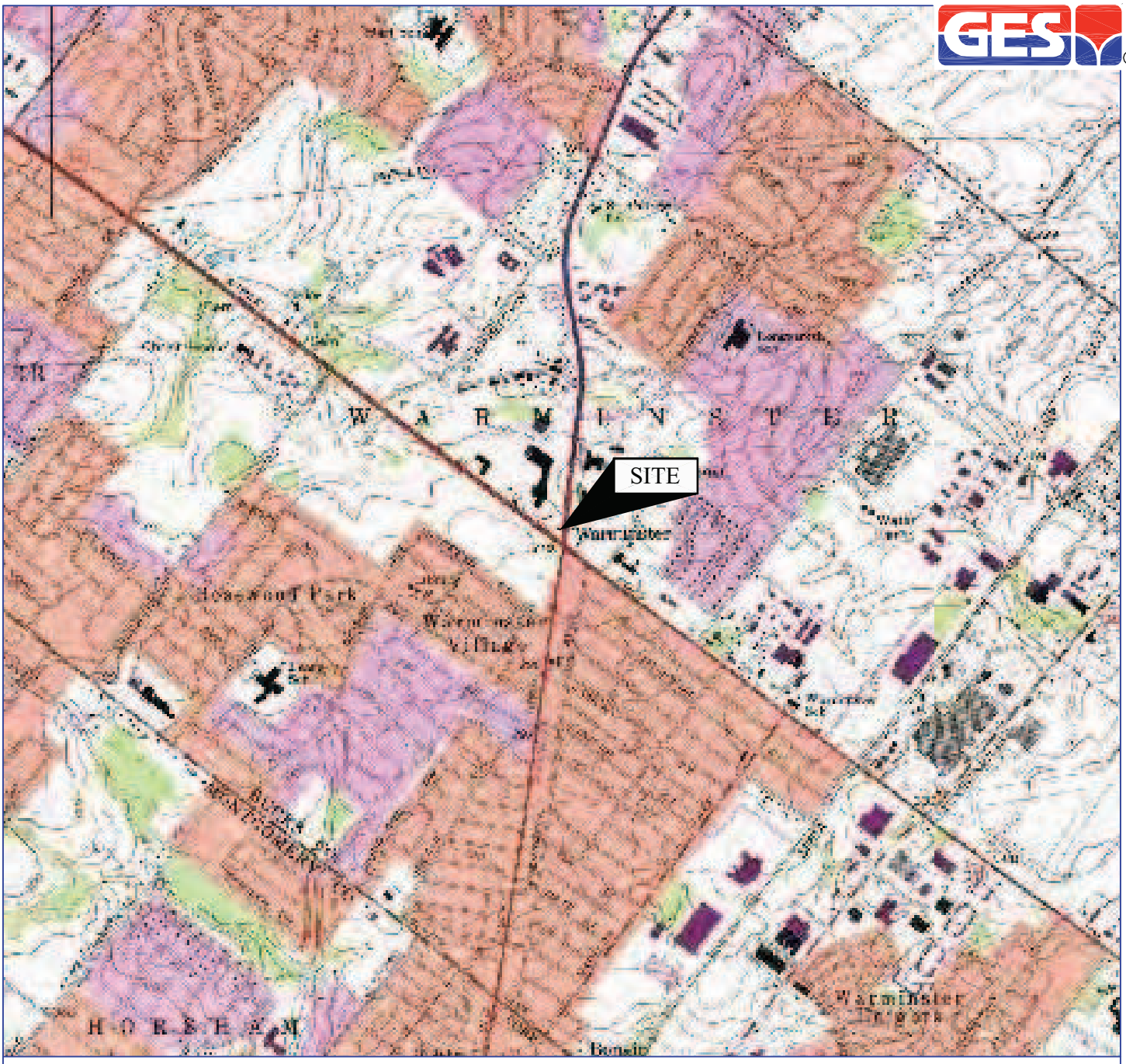
Pennsylvania. Department of Environmental Protection. Closure Requirements of Underground Storage Tank Systems. Harrisburg: 1998.

Pennsylvania. Geological Survey. Atlas of Preliminary Geologic Quadrangle Maps of Pennsylvania. 4th Series. Harrisburg: 1981.

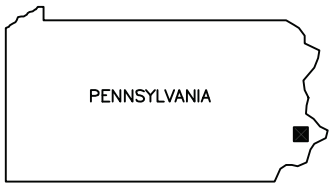
Sevon, W.D. 2000. Physiographic Provinces of Pennsylvania (Map 13), Pennsylvania Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey, Harrisburg, Pennsylvania.

United States Geologic Survey. 1983. 7.5 Minute Series Reading Topographic Quadrangle, Pennsylvania.

FIGURES

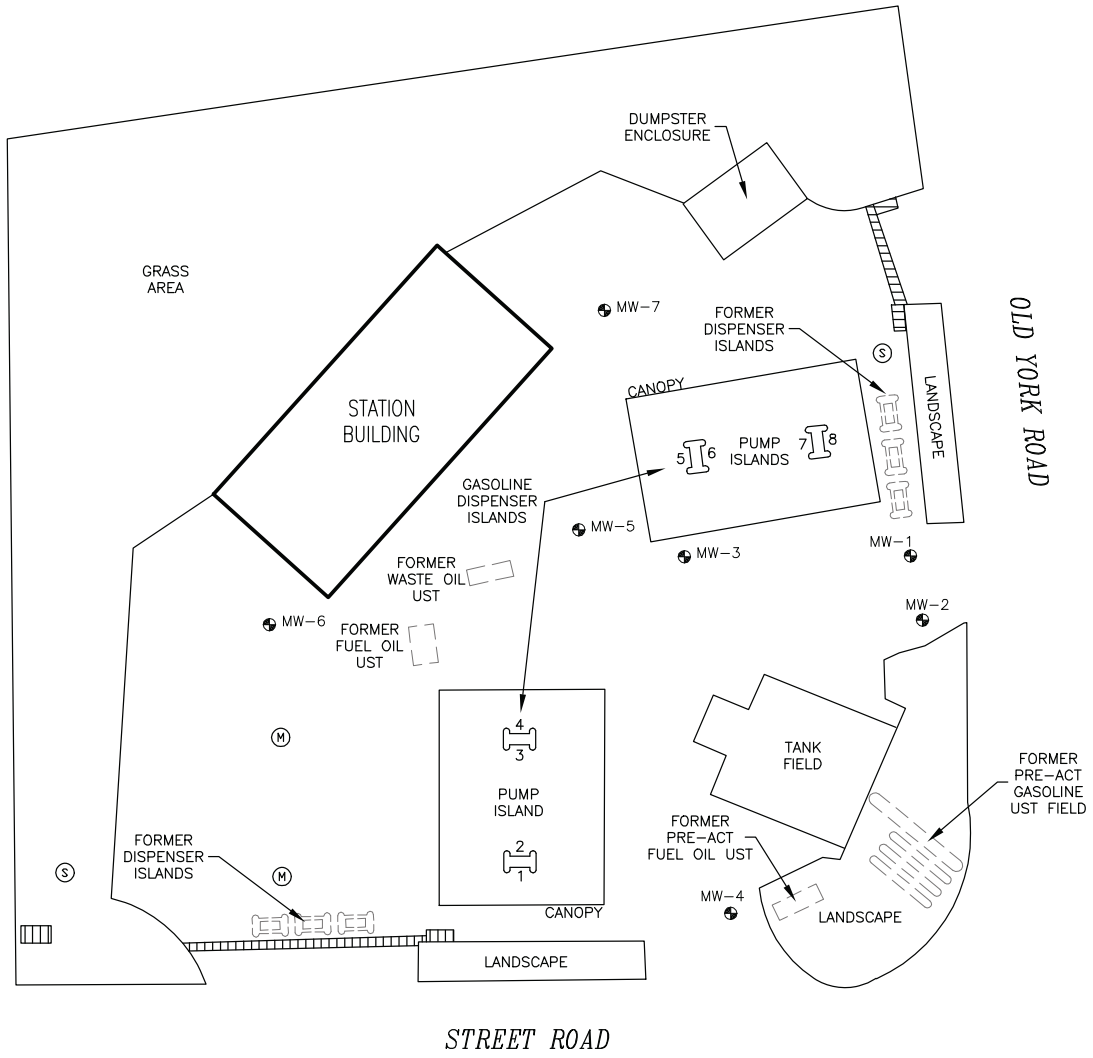


SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE
HATBORO, PA
CONTOUR INTERVAL = 10' 1966 (1983)

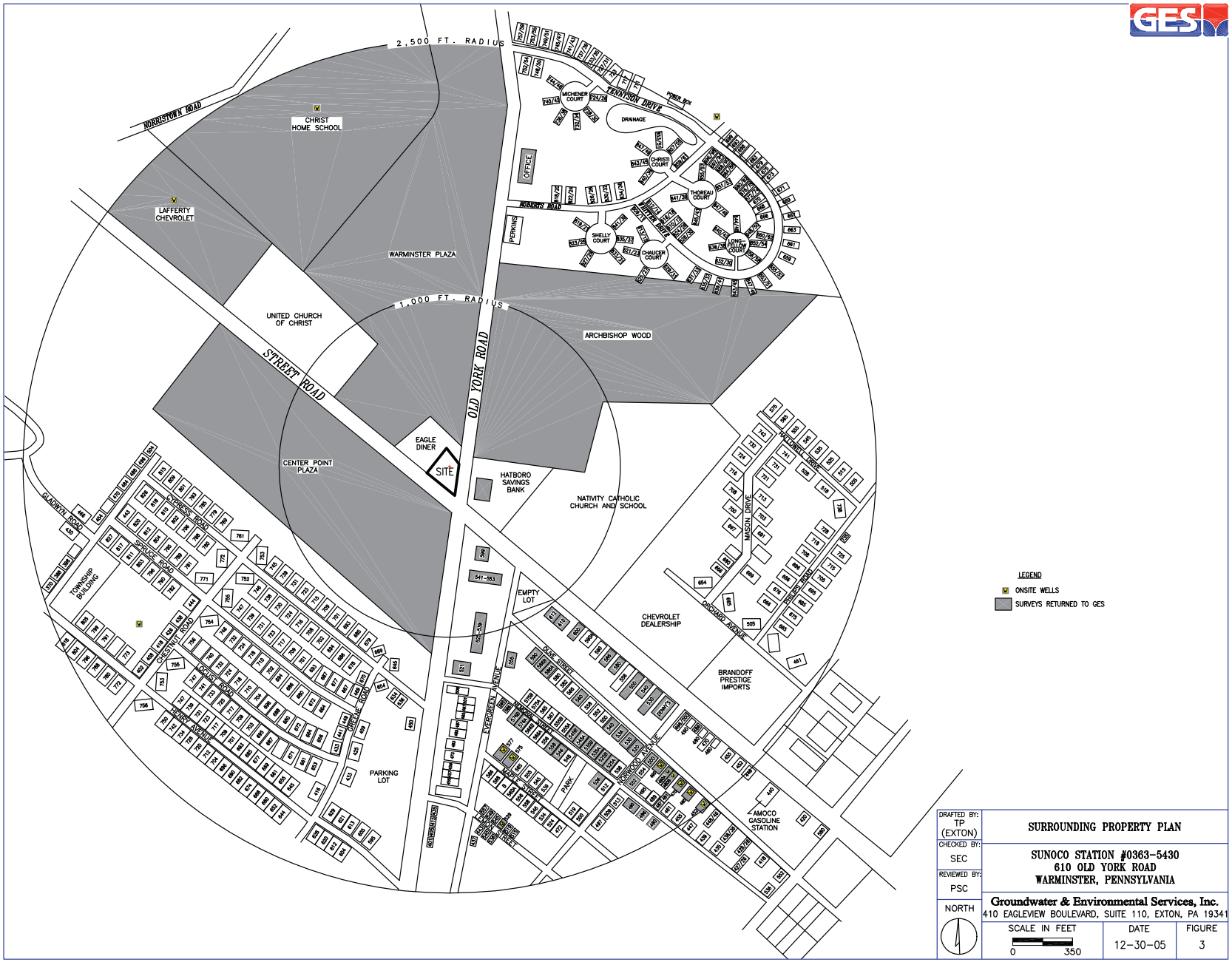


QUADRANGLE LOCATION

DRAFTED BY: TP (EXTON)	SITE LOCATION MAP
CHECKED BY: JJ	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 2000 / DATE: 09-26-05 / FIGURE: 1

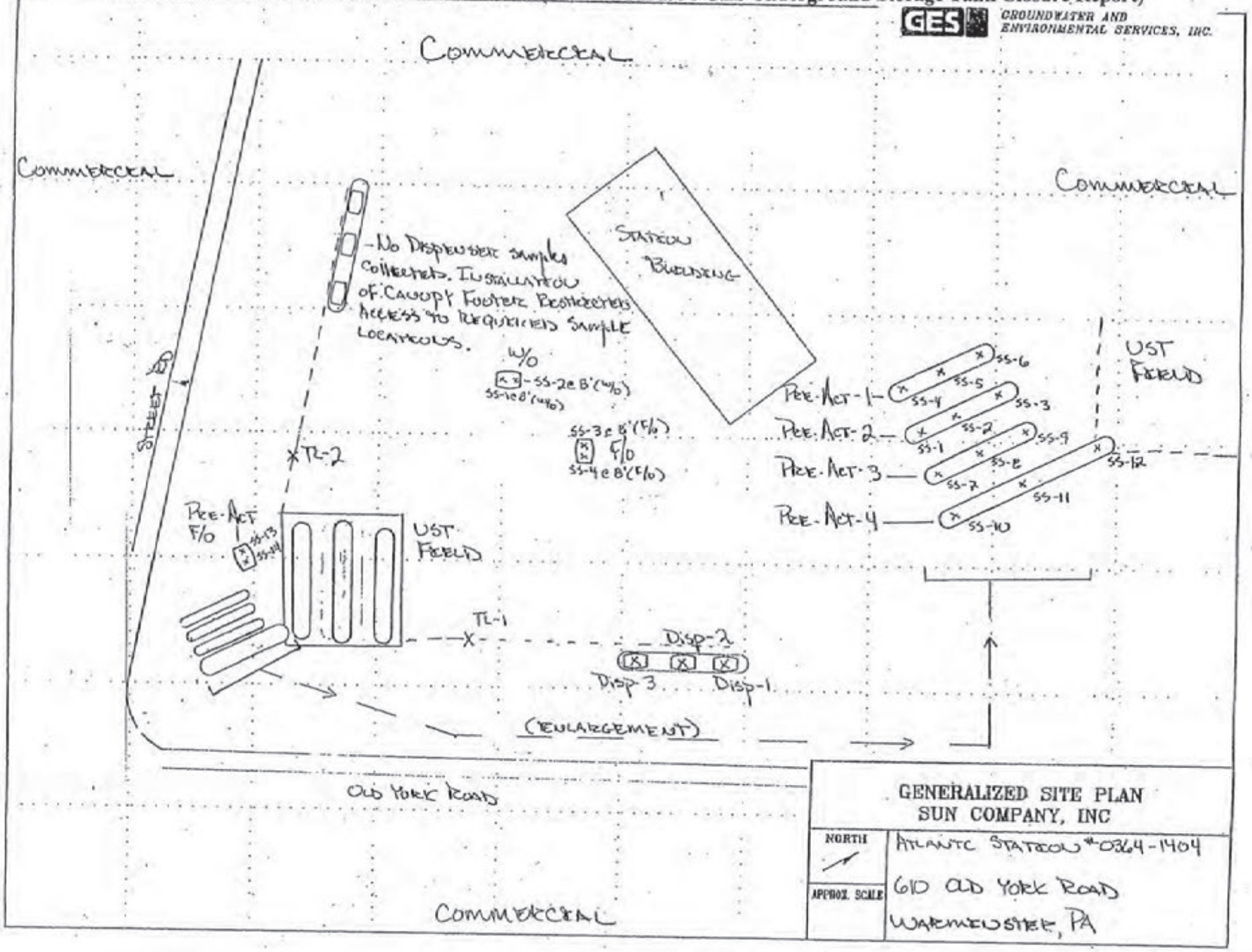


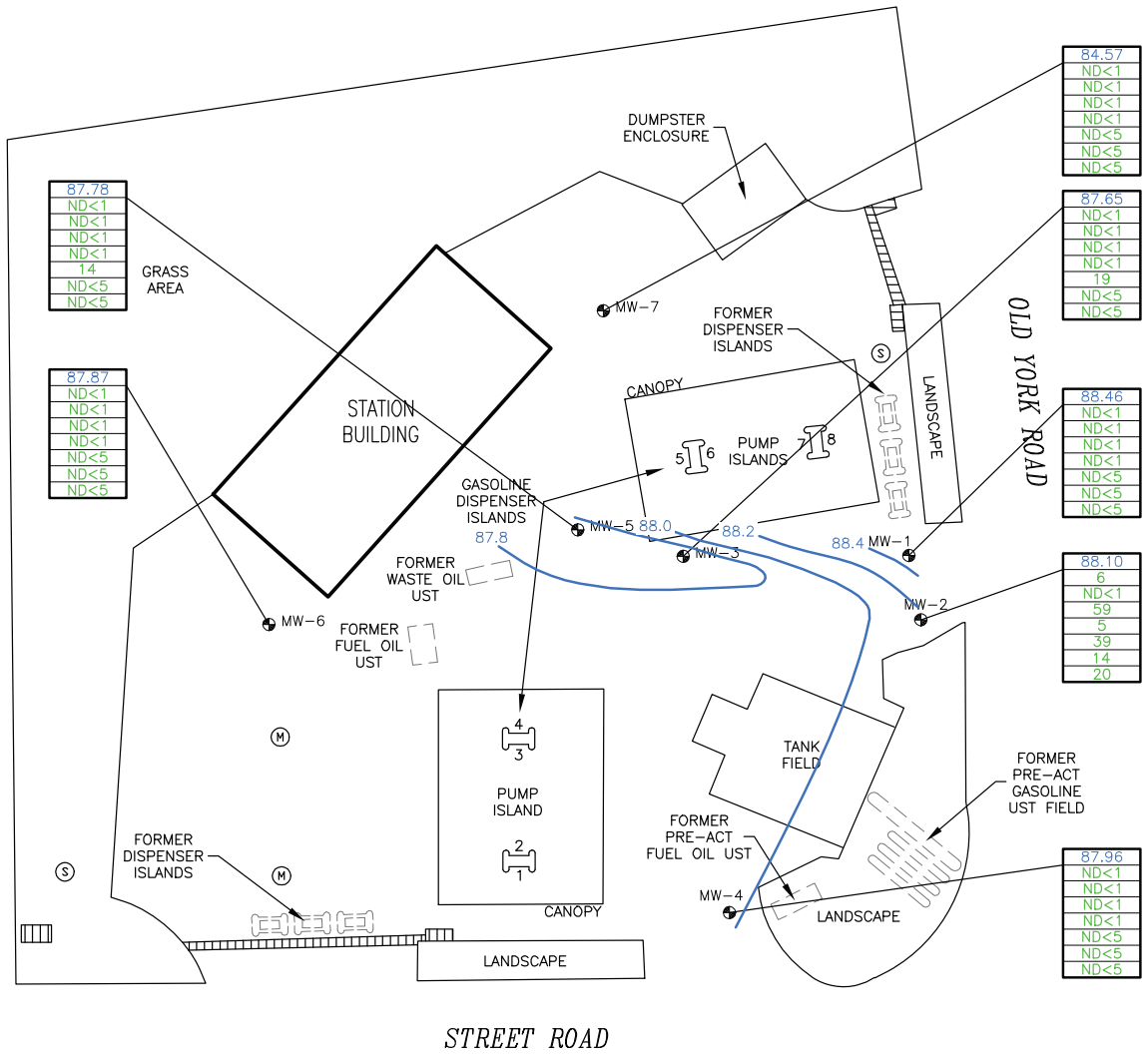
DRAFTED BY: TP (EXTON)	SITE MAP
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 30 / DATE: 01-06-06 / FIGURE: 2



DRAFTED BY: TP (EXTON)	SURROUNDING PROPERTY PLAN
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 350 / DATE: 12-30-05 / FIGURE: 3

FIGURE 4 - SOIL SAMPLE LOCATION MAP (Taken from 1996 GES Underground Storage Tank Closure Report)





LEGEND

- MONITORING WELL
- SEWER MANHOLE
- MANHOLE
- STORM DRAINAGE

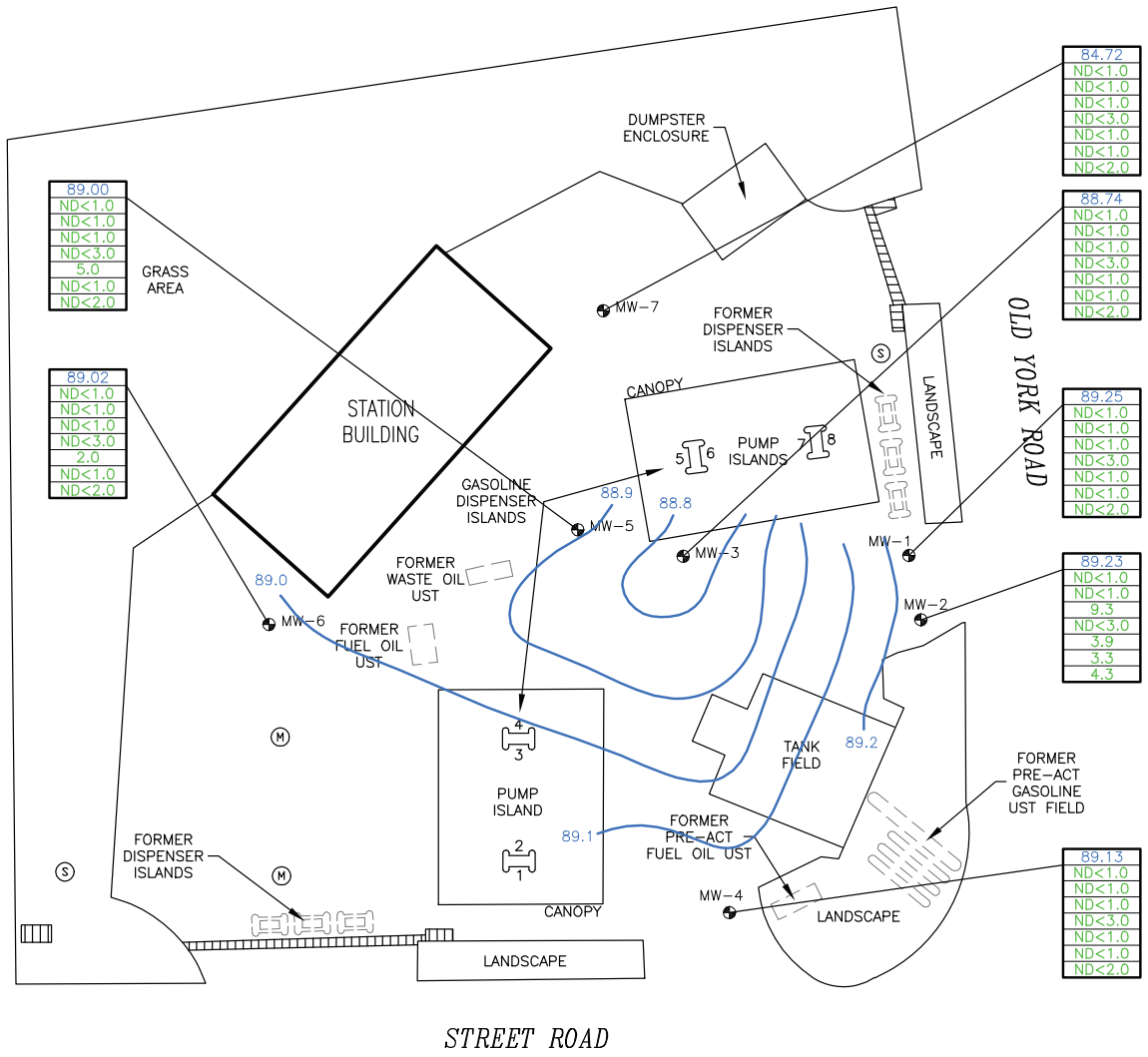
88.10	GROUNDWATER ELEVATION (feet)
6	BENZENE CONCENTRATION (ug/L)
ND<1	TOLUENE CONCENTRATION (ug/L)
59	ETHYLBENZENE CONCENTRATION (ug/L)
5	TOTAL XYLENES CONCENTRATION (ug/L)
39	MTBE CONCENTRATION (ug/L)
14	ISOPROPYLBENZENE CONCENTRATION (ug/L)
20	NAPHTHALENE CONCENTRATION (ug/L)

88.2 — GROUNDWATER CONTOUR (feet)

ND — NOT DETECTED

NOTE: GROUNDWATER ELEVATION DATA FROM MW-7 WAS NOT UTILIZED FOR THE CONTOUR MAP BECAUSE THAT WELL IS SCREENED IN A DEEPER AQUIFER.

DRAFTED BY: TP (EXTON)	GROUNDWATER MONITORING MAP JANUARY 13, 2005
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 30 / DATE: 12-30-05 / FIGURE: 5



LEGEND

- MONITORING WELL
- SEWER MANHOLE
- MANHOLE
- STORM DRAINAGE

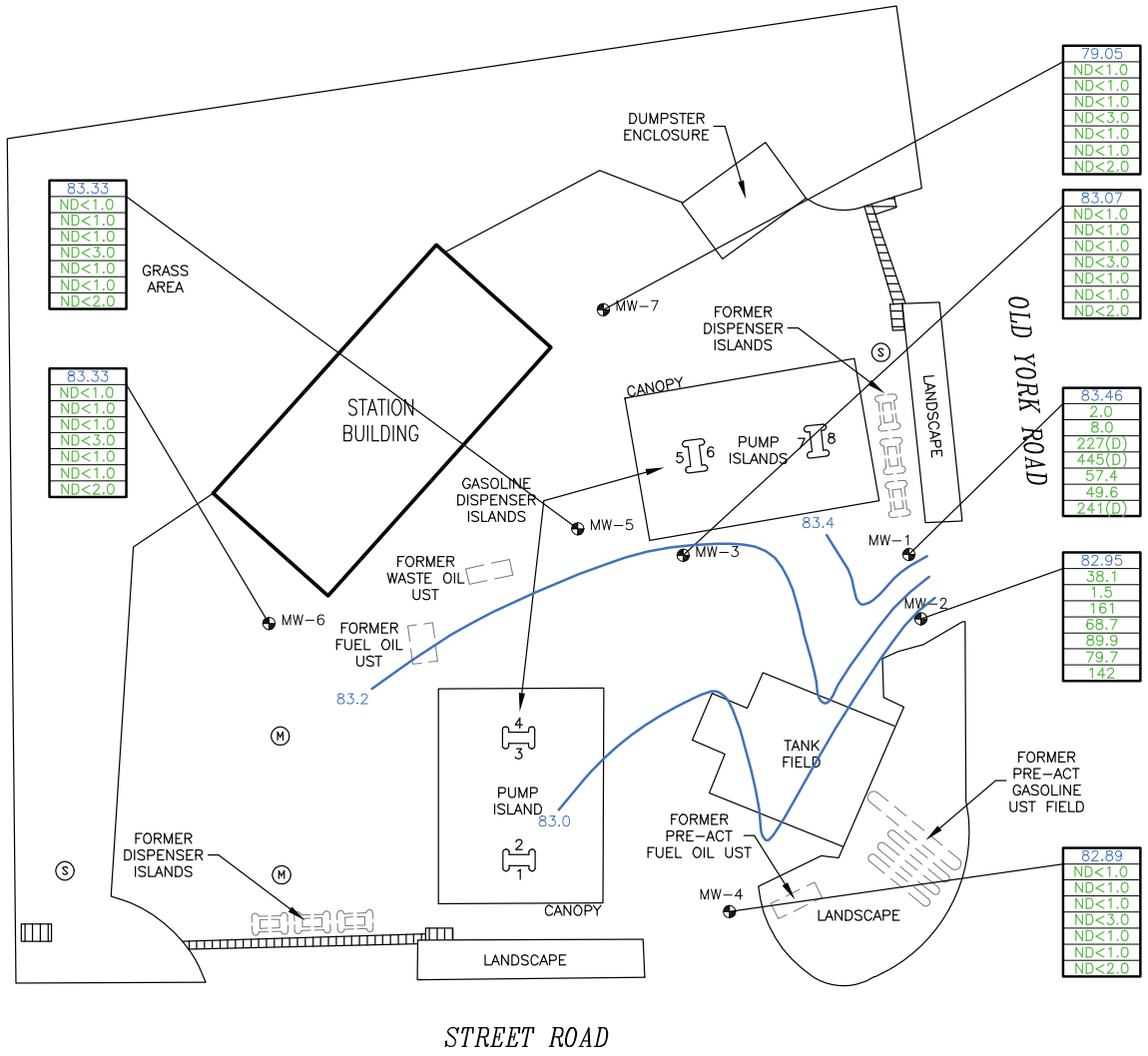
89.23	GROUNDWATER ELEVATION (feet)
ND<1.0	BENZENE CONCENTRATION (ug/L)
ND<1.0	TOLUENE CONCENTRATION (ug/L)
9.3	ETHYLBENZENE CONCENTRATION (ug/L)
ND<3.0	TOTAL XYLENES CONCENTRATION (ug/L)
3.9	MTBE CONCENTRATION (ug/L)
3.3	ISOPROPYLBENZENE CONCENTRATION (ug/L)
4.3	NAPHTHALENE CONCENTRATION (ug/L)

89.1 — GROUNDWATER CONTOUR (feet)

ND — NOT DETECTED

NOTE: GROUNDWATER ELEVATION DATA FROM MW-7 WAS NOT UTILIZED FOR THE CONTOUR MAP BECAUSE THAT WELL IS SCREENED IN A DEEPER AQUIFER.

DRAFTED BY: TP (EXTON)	GROUNDWATER MONITORING MAP APRIL 20, 2005
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 30 / DATE: 12-30-05 / FIGURE: 6



LEGEND

- MONITORING WELL
- (S) SEWER MANHOLE
- (M) MANHOLE
- STORM DRAINAGE

83.46	GROUNDWATER ELEVATION (feet)
2.0	BENZENE CONCENTRATION (ug/L)
8.0	TOLUENE CONCENTRATION (ug/L)
227(D)	ETHYLBENZENE CONCENTRATION (ug/L)
445(D)	TOTAL XYLENES CONCENTRATION (ug/L)
57.4	MTBE CONCENTRATION (ug/L)
49.6	ISOPROPYLBENZENE CONCENTRATION (ug/L)
241(D)	NAPHTHALENE CONCENTRATION (ug/L)

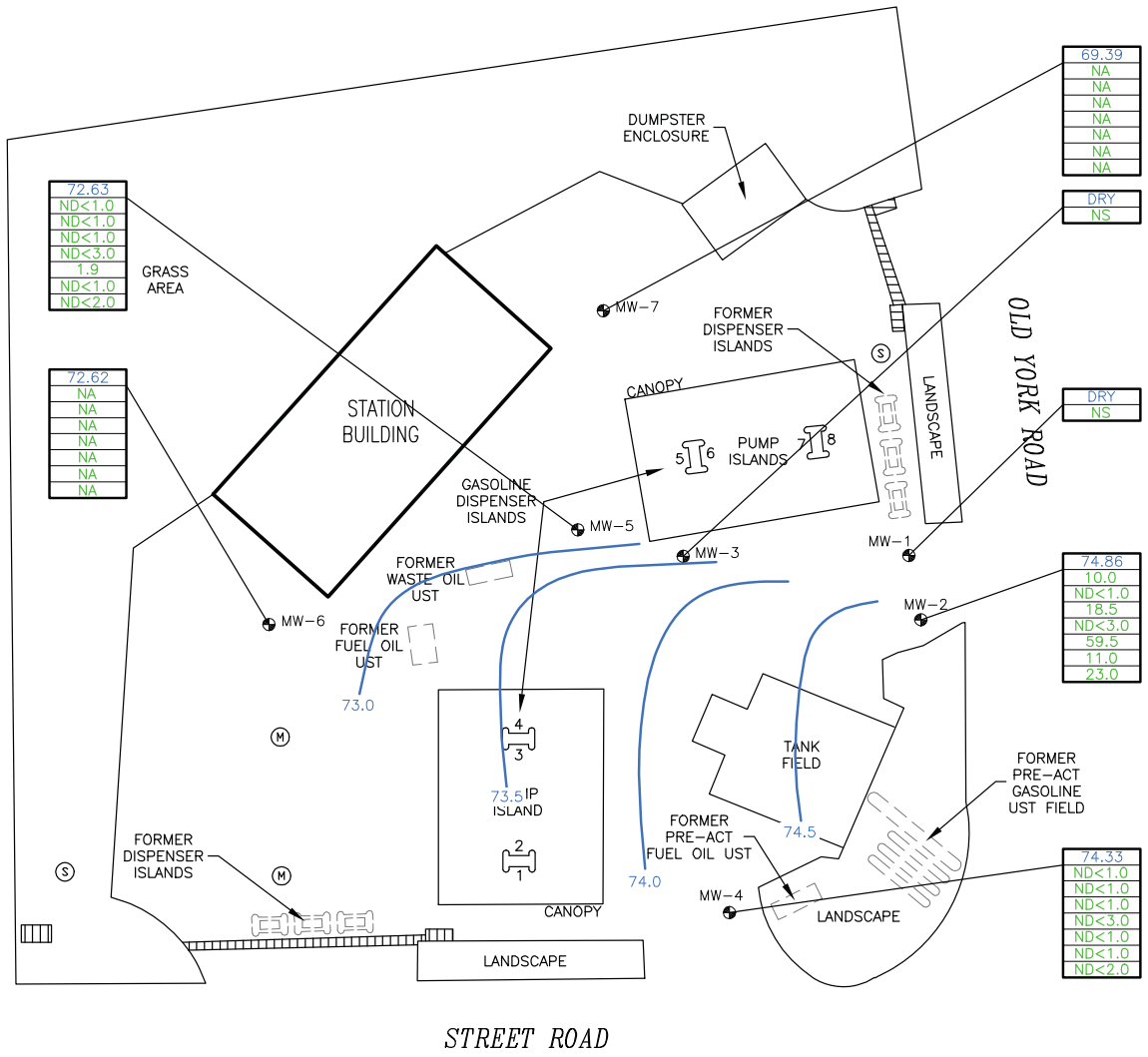
83.2 GROUNDWATER CONTOUR (feet)

ND NOT DETECTED

(D) LABORATORY SECONDARY DILUTION LIMIT

NOTE: GROUNDWATER ELEVATION DATA FROM MW-7 WAS NOT UTILIZED FOR THE CONTOUR MAP BECAUSE THAT WELL IS SCREENED IN A DEEPER AQUIFER.

DRAFTED BY: TP (EXTON)	GROUNDWATER MONITORING MAP JULY 15, 2005
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET 0 30 / DATE 12-30-05 / FIGURE 7



LEGEND

- MONITORING WELL
- (S) SEWER MANHOLE
- (M) MANHOLE
- STORM DRAINAGE

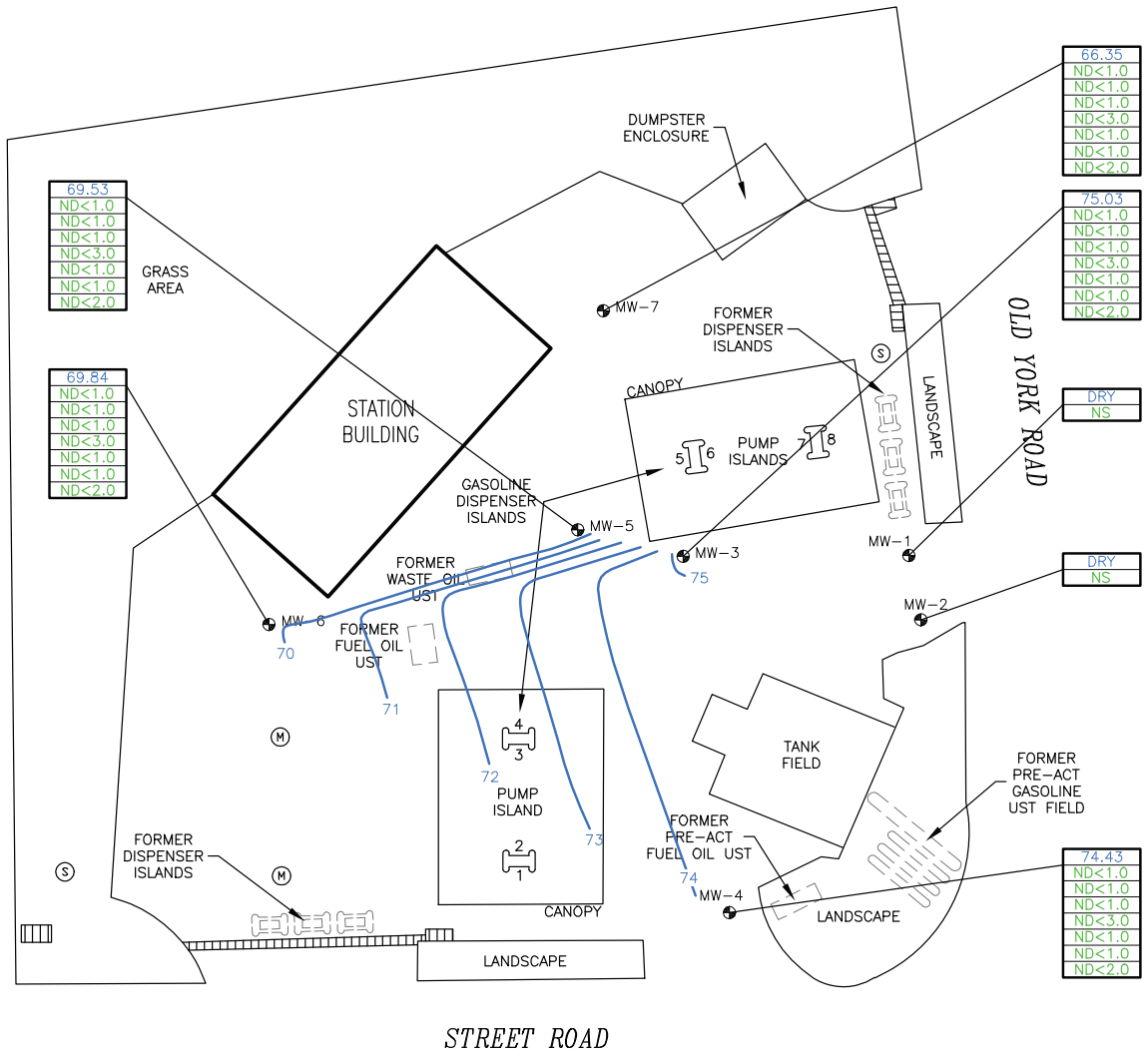
72.63	GROUNDWATER ELEVATION (feet)
ND<1.0	BENZENE CONCENTRATION (ug/L)
ND<1.0	TOLUENE CONCENTRATION (ug/L)
ND<1.0	ETHYLBENZENE CONCENTRATION (ug/L)
ND<3.0	TOTAL XYLENES CONCENTRATION (ug/L)
1.9	MTBE CONCENTRATION (ug/L)
ND<1.0	ISOPROPYLBENZENE CONCENTRATION (ug/L)
ND<2.0	NAPHTHALENE CONCENTRATION (ug/L)
74.5	GROUNDWATER CONTOUR (feet)
ND	NOT DETECTED
NA	NOT ANALYZED
NS	NOT SAMPLED

NOTES:

1) GROUNDWATER ELEVATION DATA FROM MW-7 WAS NOT UTILIZED FOR THE CONTOUR MAP BECAUSE THAT WELL IS SCREENED IN A DEEPER AQUIFER.

2) MONITORING WELLS MW-1 AND MW-3 WERE DRY AND COULD NOT BE SAMPLED DURING THIS SAMPLING EVENT.

DRAFTED BY: TP (EXTON)	GROUNDWATER MONITORING MAP SEPTEMBER 7, 2005
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 30 / DATE: 12-30-05 / FIGURE: 8



LEGEND

- MONITORING WELL
- SEWER MANHOLE
- MANHOLE
- STORM DRAINAGE

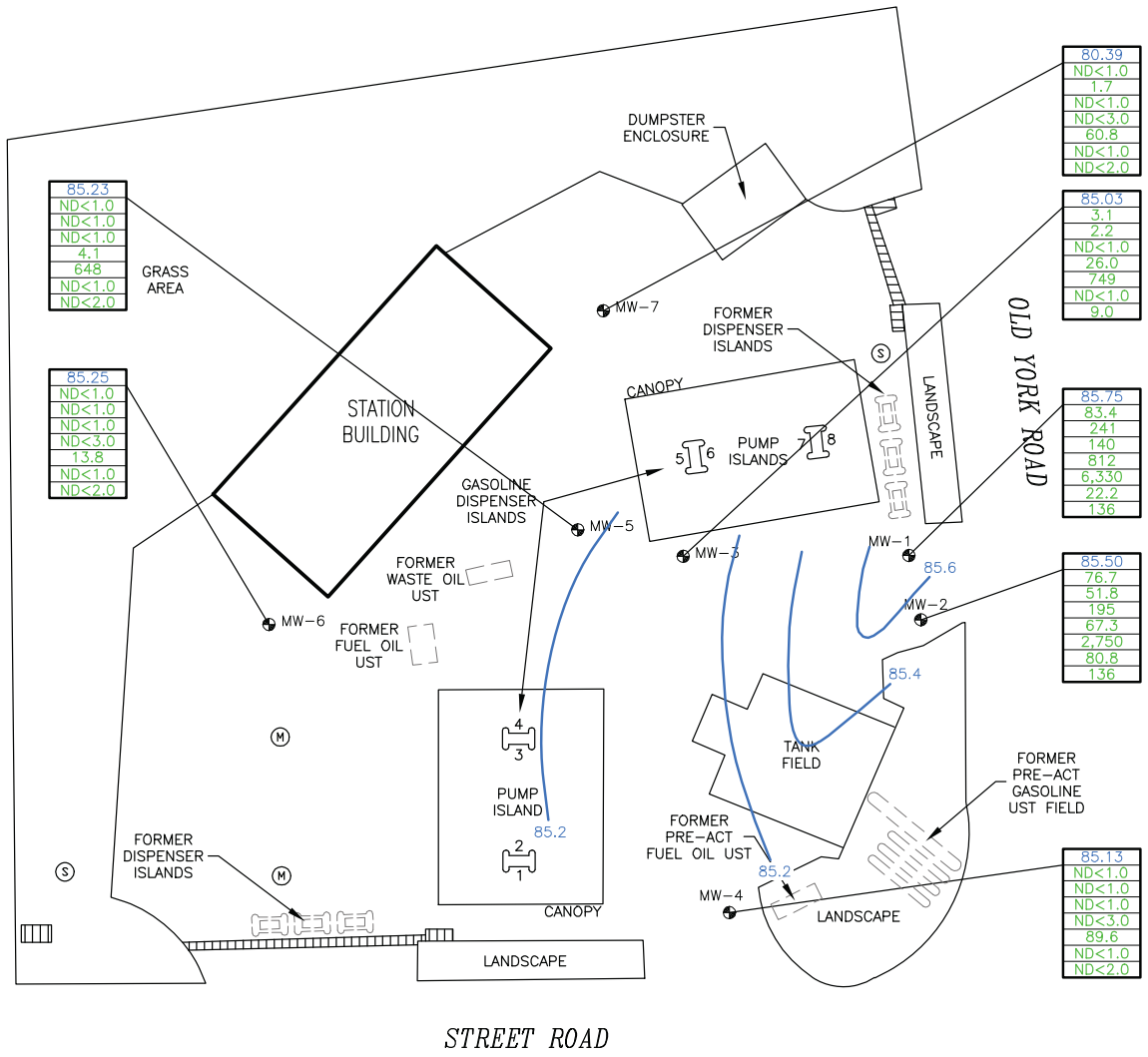
74.43	GROUNDWATER ELEVATION (feet)
ND<1.0	BENZENE CONCENTRATION (ug/L)
ND<1.0	TOLUENE CONCENTRATION (ug/L)
ND<1.0	ETHYLBENZENE CONCENTRATION (ug/L)
ND<3.0	TOTAL XYLENES CONCENTRATION (ug/L)
ND<1.0	MTBE CONCENTRATION (ug/L)
ND<1.0	ISOPROPYLBENZENE CONCENTRATION (ug/L)
ND<2.0	NAPHTHALENE CONCENTRATION (ug/L)
73	GROUNDWATER CONTOUR (feet)
ND	NOT DETECTED
(D)	LABORATORY SECONDARY DILUTION LIMIT
NS	NOT SAMPLED

NOTES:

1) GROUNDWATER ELEVATION DATA FROM MW-7 WAS NOT UTILIZED FOR THE CONTOUR MAP BECAUSE THAT WELL IS SCREENED IN A DEEPER AQUIFER.

2) MONITORING WELLS MW-1 AND MW-2 WERE DRY AND COULD NOT BE SAMPLED DURING THIS SAMPLING EVENT.

DRAFTED BY: TP (EXTON)	GROUNDWATER MONITORING MAP SEPTEMBER 20, 2005
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 30 / DATE: 12-30-05 / FIGURE: 9



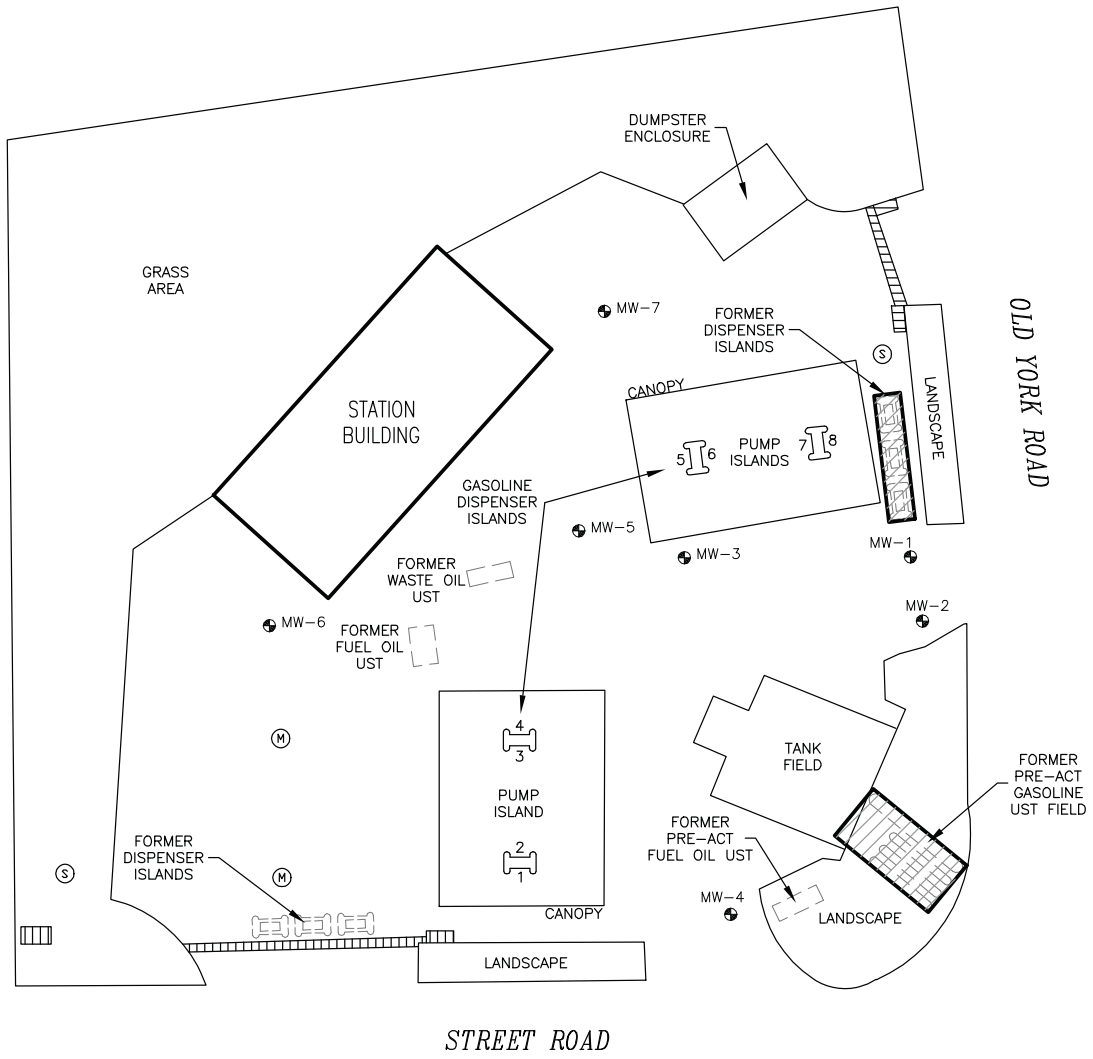
LEGEND

- MONITORING WELL
- SEWER MANHOLE
- MANHOLE
- STORM DRAINAGE

85.75	GROUNDWATER ELEVATION (feet)
83.4	BENZENE CONCENTRATION (ug/L)
241	TOLUENE CONCENTRATION (ug/L)
140	ETHYLBENZENE CONCENTRATION (ug/L)
812	TOTAL XYLENES CONCENTRATION (ug/L)
6,330	MTBE CONCENTRATION (ug/L)
22.2	ISOPROPYLBENZENE CONCENTRATION (ug/L)
136	NAPHTHALENE CONCENTRATION (ug/L)
85.4	GROUNDWATER CONTOUR (feet)
ND	NOT DETECTED

NOTE: GROUNDWATER ELEVATION DATA FROM MW-7 WAS NOT UTILIZED FOR THE CONTOUR MAP BECAUSE THAT WELL IS SCREENED IN A DEEPER AQUIFER.

DRAFTED BY: TP (EXTON)	GROUNDWATER MONITORING MAP OCTOBER 28, 2005
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341
NORTH	SCALE IN FEET: 0 30 / DATE: 12-30-05 / FIGURE: 10

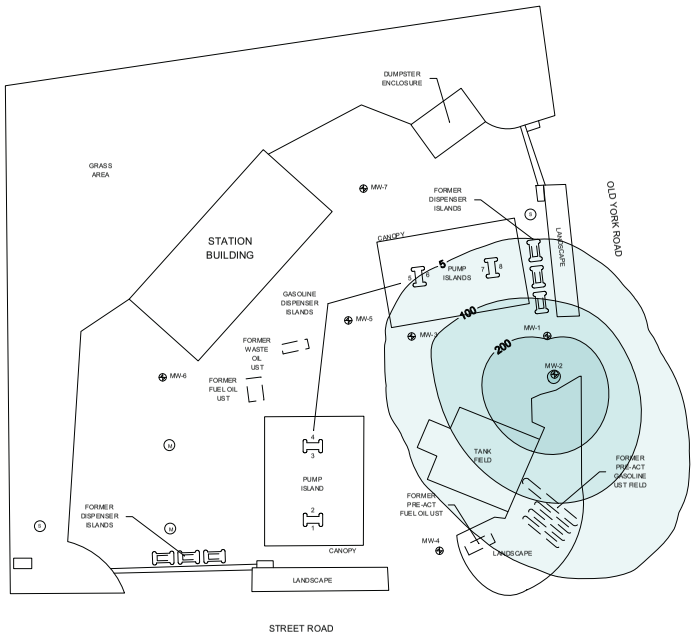


LEGEND

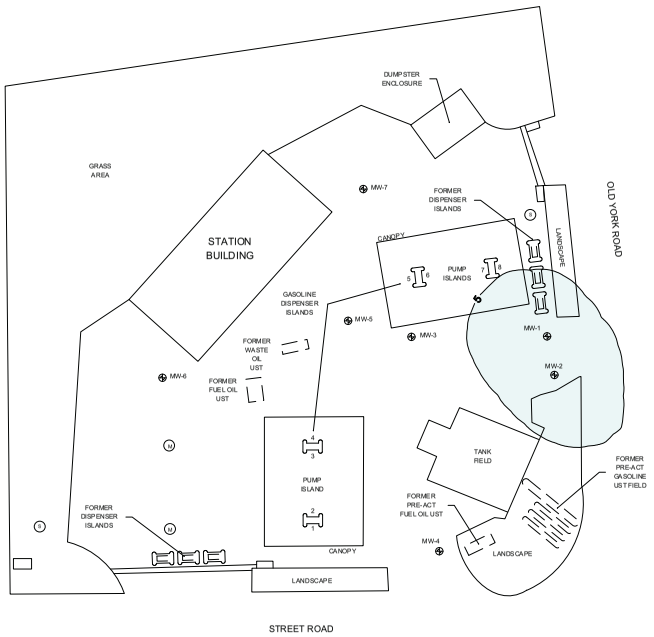
- MONITORING WELL
- SEWER MANHOLE
- MANHOLE
- STORM DRAINAGE
- SOURCE AREA LOCATION

DRAFTED BY: TP (EXTON)	SOURCE AREA MAP		
CHECKED BY: SEC	SUNOCO STATION #0363-5430 610 OLD YORK ROAD WARMINSTER, PENNSYLVANIA		
REVIEWED BY: PSC	Groundwater & Environmental Services, Inc. 410 EAGLEVIEW BOULEVARD, SUITE 110, EXTON, PA 19341		
NORTH	SCALE IN FEET 0 30	DATE 12-30-05	FIGURE 11

Historical Maximum



October 2005

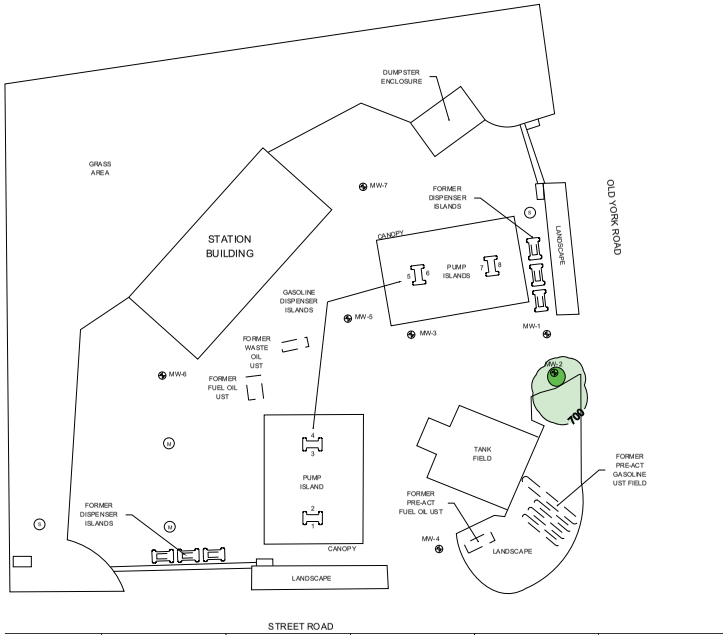


Benzene Concentration (µg/L)

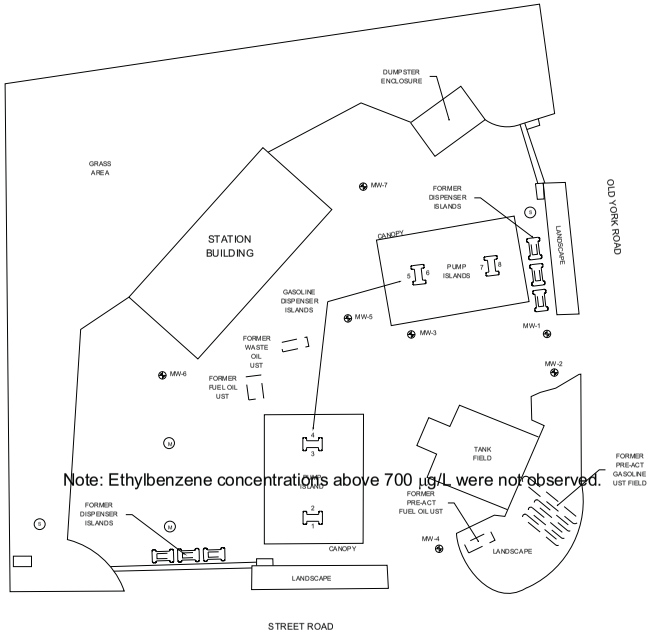
400
200
100
5

DRAFTED BY: SEC	**Benzene Concentrations Historical Max and October 2005**
CHECKED BY: PSC	**Sunoco Station #0363-5430** **610 Old York Road** **Warminster, Pennsylvania**
REVIEWED BY SDB	**Groundwater & Environmental Services, Inc.** 410 Eagleview Boulevard, Suite 110, Exton, PA 19341
NORTH	SCALE IN FEET: 0 – 50 / DATE: 12-21-2005 / FIGURE: 12

Historical Maximum



October 2005



Note: Ethylbenzene concentrations above 700 µg/L were not observed.

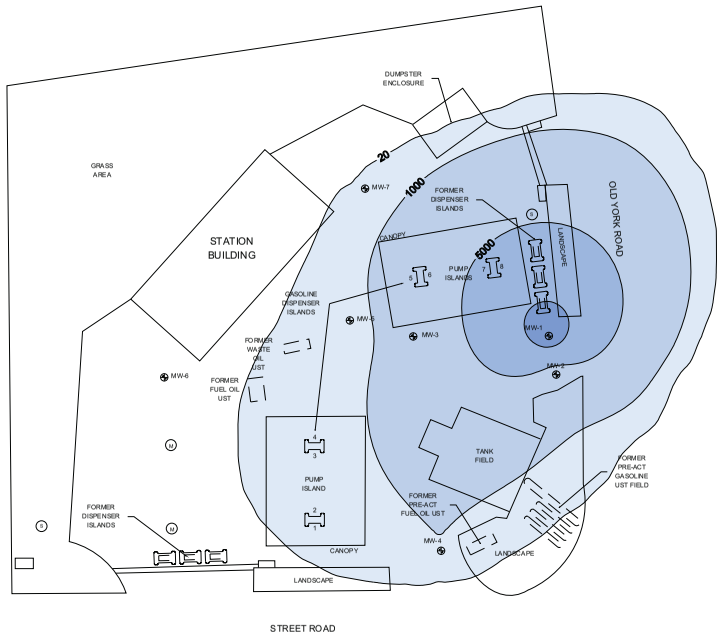
Ethylbenzene Concentration (µg/L)

800

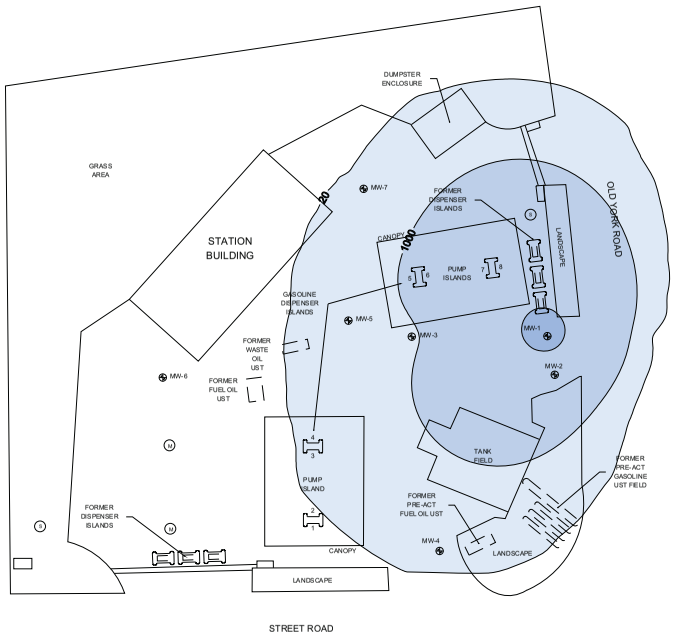
700

DRAFTED BY: SEC	**Ethylbenzene Concentrations Historical Max and October 2005**
CHECKED BY: PSC	**Sunoco Station #0363-5430** **610 Old York Road** **Warminster, Pennsylvania**
REVIEWED BY: SDB	**Groundwater & Environmental Services, Inc.** 410 Eagleview Boulevard, Suite 110, Exton, PA 19341
NORTH	SCALE IN FEET: 0 50 / DATE: 12-21-2005 / FIGURE: 13

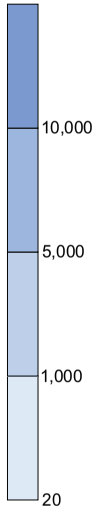
Historical Maximum



October 2005



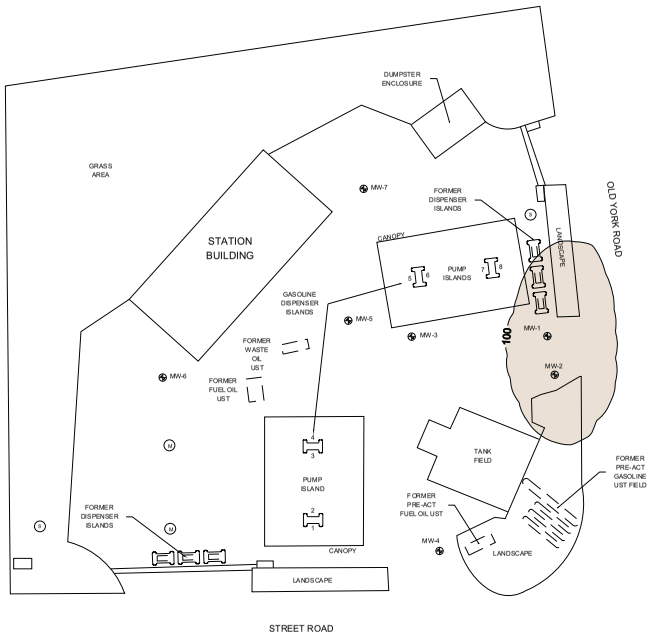
MTBE Concentration (µg/L)



DRAFTED BY: SEC	**MTBE Concentrations Historical Max and October 2005**
CHECKED BY: PSC	**Sunoco Station #0363-5430** **610 Old York Road** **Warminster, Pennsylvania**
REVIEWED BY: SDB	**Groundwater & Environmental Services, Inc.** 410 Eagleview Boulevard, Suite 110, Exton, PA 19341
NORTH	SCALE IN FEET: 0 50 / DATE: 12-21-2005 / FIGURE: 14

Historical Maximum

October 2005



Naphthalene Concentration (µg/L)

250

150

100

DRAFTED BY: SEC	**Naphthalene Concentrations Historical Max and October 2005**
CHECKED BY: PSC	**Sunoco Station #0363-5430 610 Old York Road Warminster, Pennsylvania**
REVIEWED BY SDB	**Groundwater & Environmental Services, Inc.** 410 Eagleview Boulevard, Suite 110, Exton, PA 19341
NORTH	SCALE IN FEET: 0 – 50 / DATE: 12-21-2005 / FIGURE: 15

TABLES

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Sample ID	Depth (ft)	Sample Date	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	Isopropyl benzene (µg/kg)	Naphthalene (µg/kg)	TPH-GRO (mg/kg)	TPH (mg/kg)
SS-1	8	12/28/1995	ND<6	<6	ND<6	<18	NA	NA	NA	NA	40
SS-2	8	12/28/1995	ND<6	<6	ND<6	ND<18	NA	NA	NA	NA	370
SS-3	8	12/28/1995	ND<6	<6	ND<6	<17	NA	NA	NA	NA	480
SS-4	8	12/28/1995	ND<6	<6	ND<6	<17	NA	NA	NA	NA	100
DISP-1	1	2/8/1996	100	3,000	3,000	21,000	NA	NA	NA	200	NA
DISP-2	1	2/8/1996	700	51,000	41,000	250,000	NA	NA	NA	1,300	NA
DISP-3	1	2/8/1996	200	14,000	10,000	63,000	NA	NA	NA	310	NA
TL-1	1	2/13/1996	ND<5	ND<5	ND<5	ND<16	NA	NA	NA	ND<1	NA
TL-2	1	2/13/1996	ND<100	800	2,100	19,000	NA	NA	NA	150	NA
SS-1	12	2/27/1996	1,000	23,000	34,000	180,000	NA	NA	NA	1,100	NA
SS-2	12	2/27/1996	1,900	33,000	26,000	160,000	NA	NA	NA	1,100	NA
SS-3	12	2/27/1996	45	270	120	830	NA	NA	NA	6	NA
SS-4	12	2/27/1996	ND<100	300	3,400	17,000	NA	NA	NA	200	NA
SS-5	12	2/27/1996	<6	<6	<6	<19	NA	NA	NA	ND<1	NA
SS-6	12	2/27/1996	31	450	500	2,800	NA	NA	NA	28	NA
SS-7	12	2/27/1996	1,900	10,000	24,000	140,000	NA	NA	NA	1100	NA
SS-8	12	2/27/1996	ND<600	800	6,400	21,000	NA	NA	NA	400	NA
SS-9	12	2/27/1996	<700	<700	11,000	20,000	NA	NA	NA	1,100	NA
SS-10	12	2/27/1996	1,000	11,000	12,000	85,000	NA	NA	NA	800	NA
SS-11	12	2/27/1996	ND<600	4,600	15,000	93,000	NA	NA	NA	700	NA
PADEP Statewide Health Standard for Unsaturated and Saturated Soils in a Non-Residential, Used Aquifer			500	100,000	70,000	1,000,000	2,000	1,600,000 / 230,000	25,000 / 10,000	N/A	N/A

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Sample ID	Depth (ft)	Sample Date	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	Isopropyl benzene (µg/kg)	Naphthalene (µg/kg)	TPH-GRO (mg/kg)	TPH (mg/kg)
SS-12	12	2/27/1996	ND<100	500	4,200	9,800	NA	NA	NA	300	NA
SS-13	8	2/27/1996	NA	NA	NA	NA	NA	NA	NA	NA	30
SS-14	8	2/27/1996	NA	NA	NA	NA	NA	NA	NA	NA	90
MW-1	5-7	3/13/1996	ND<6	ND<6	ND<6	ND<18	NA	NA	NA	ND<1	NA
MW-2	5-7	3/13/1996	ND<6	<6	<6	<18	NA	NA	NA	ND<1	NA
MW-3	5-7	3/13/1996	<6	<6	<6	<18	NA	NA	NA	ND<1	NA
MW-4	-	10/27/1997	<6	<6	<6	<17	<20	<10	<20	NA	NA
MW-5	25	10/18/2004	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5	NA	NA
MW-6	15	10/18/2004	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5	NA	NA
PADEP Statewide Health Standard for Unsaturated and Saturated Soils in a Non-Residential, Used Aquifer			**500**	**100,000**	**70,000**	**1,000,000**	**2,000**	**1,600,000 / 230,000**	**25,000 / 10,000**	**N/A**	**N/A**

All results reported on a dry weight basis except samples SS-1 and SS-2 (collected on 2/27/1996). Those samples were reported on an as received basis, due to laboratory error.

ND: Not Detected

NA: Not Analyzed

N/A: Not Applicable

MTBE: Methyl *tert* Butyl Ether

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics

mg/kg: milligrams per kilogram

µg/kg: micrograms per kilogram

TABLE 2
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)
MSCs for Used, Non-Res. Aquifer					5	1,000	700	10,000	20	2,300	100
MW-1	03/23/1996	96.79	8	88.79	ND< 1	ND< 1	ND	2	NA	NA	NA
	09/09/1996	96.79	12.5	84.29	**13**	ND< 10	340	1,060	**240**	NA	**150**
	11/07/1996	96.79	10.12	86.67	ND< 1	ND< 1	ND< 1	3	2	NA	ND< 5
	02/14/1997	96.79	8.47	88.32	ND< 1	ND< 1	ND	ND< 3	**88**	NA	ND< 5
	05/07/1997	96.79	9.58	87.21	ND	ND	ND	ND< 3	ND< 1	NA	ND< 5
	09/15/1997	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	11/11/1997	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	03/17/1998	96.79	8.75	88.04	ND	ND	ND	ND	ND<1	NA	ND<5
	06/15/1998	96.79	5.18	91.61	ND	ND	ND	ND	ND< 5	ND	ND
	06/17/1999	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	02/15/2000	96.79	10.19	86.60	**184**	530	87.4	379	**12,800**	ND	ND
	05/12/2000	96.79	10.16	86.63	2.7	ND	ND	2.8	**242**	ND	2.5
	10/16/2000	96.79	13.83	82.96	**79.8**	589	368	1,020	**957**	40.6	**280**
	03/23/2001	96.79	7.63	89.16	ND	ND	ND	ND	1.9	ND	ND
	06/14/2001	96.79	10.84	85.95	**20.3**	35.5	96.2	130	**221**	13.3	41.6
	09/18/2001	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	12/26/2001	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	03/26/2002	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	06/14/2002	96.79	12.51	84.28	**9.7**	25.5	294	513	**103**	35.3	**214**
	09/13/2002	96.79	NS	-	NS	NS	NS	NS	NS	NS	NS
	10/30/2002	96.79	16.46	80.33	**23.5**	29.2	377	691	**84.0**	72.5	**297**
	03/05/2003	96.79	9.01	87.78	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	05/08/2003	96.79	9.58	87.21	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0
	08/06/2003	96.79	11.99	84.80	<1.0	<5.0	9.5	<10	<5.0	<5.0	5.5
	10/24/2003	96.79	DRY	-	NS	NS	NS	NS	NS	NS	NS
	01/16/2004	96.79	9.14	87.65	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	04/14/2004	96.79	7.97	88.82	<1.0	<5.0	<5.0	<10	**68**	<5.0	<5.0
	07/15/2004	96.79	14.67	82.12	**6.0**	8.0	170	380	**610**	42	**160**
	10/04/2004	97.77	12.55	85.22	2	ND<3	38	35	**43**	16	52
	01/13/2005	97.77	9.31	88.46	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	04/20/2005	97.77	8.52	89.25	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	07/15/2005	97.77	14.31	83.46	2.0	8.0	227 D	445 D	**57.4**	49.6	**241 D**
	09/07/2005	97.77	DRY	-	NS	NS	NS	NS	NS	NS	NS
	09/20/2005	97.77	DRY	-	NS	NS	NS	NS	NS	NS	NS
	10/28/2005	97.77	12.02	85.75	**83.4 D**	241 D	140 D	812 D	**6,330 D**	22.2 D	**136 D**

TABLE 2
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)
MSCs for Used, Non-Res. Aquifer					5	1,000	700	10,000	20	2,300	100
MW-2	03/23/1996	97.43	8.6	88.83	**280**	130	160	1,150	NA	NA	NA
	09/09/1996	97.43	13.25	84.18	**180**	5	180	140	**170**	NA	49
	11/07/1996	97.43	11.25	86.18	**74**	3	85	79	**74**	NA	39
	02/14/1997	97.43	9.33	88.10	**36**	6	35	67	15	NA	18
	05/07/1997	97.43	10.15	87.28	**55**	4	75	81	**26**	NA	19
	09/15/1997	97.43	23.2	74.23	**430**	13	410	340	**140**	NA	**200**
	11/11/1997	97.43	24.3	73.13	NS	NS	NS	NS	NS	NS	NS
	03/17/1998	97.43	9.35	88.08	**58**	2	100	160	**35**	NA	43
	06/15/1998	97.43	9.86	87.57	**91**	**9**	240	930	10	27	**120**
	06/17/1999	97.43	21.41	76.02	**87**	ND	160	7	**280**	18	30
	02/15/2000	97.43	11.04	86.39	**91.3**	1.4	242	94.5	**274**	37.6	84.4
	05/12/2000	97.43	10.73	86.70	**21.2**	ND	59.6	9.8	**161**	8.9	12.6
	10/16/2000	97.43	13.4	84.03	**70.4**	27.3	276	123	**359**	49.7	91.4
	03/23/2001	97.43	8.24	89.19	2.1	ND	10.5	ND	8.8	ND	ND
	06/14/2001	97.43	14.37	83.06	**45.8**	2.1	197	45.8	**113**	29.5	56.8
	09/18/2001	97.43	DRY	-	NS	NS	NS	NS	NS	NS	NS
	12/26/2001	97.43	DRY	-	NS	NS	NS	NS	NS	NS	NS
	03/26/2002	97.43	21.74	75.69	**192**	4.3	410	182	**164**	42.1	**104**
	06/14/2002	97.43	13.35	84.08	**35.7**	ND<2.5	173	57.3	**57.2**	29.2	**111**
	09/13/2002	97.43	23.55	73.88	**82.4**	2.6	268	55.5	**123**	43.1	**153**
	10/30/2002	97.43	18.93	78.50	**171**	4.9	**886**	291	**155**	113	**344**
	03/05/2003	97.43	9.96	87.47	**27**	ND<1	160	24	**24**	25	59
	05/08/2003	97.43	10.53	86.90	4.3	<1.0	29	<5.0	<5.0	<5.0	13
	08/06/2003	97.43	13.08	84.35	**13**	<5.0	43	<10	15	8.7	20
	10/24/2003	97.43	20.57	76.86	**54**	<1.6	320	86	**43**	44	**140**
	01/16/2004	97.43	9.72	87.71	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	04/14/2004	97.43	8.88	88.55	**10**	<5.0	72	12	**41**	12	21
	07/15/2004	97.43	17.40	80.03	**53**	31	370	**160**	**2,300**	56	**180**
	10/04/2004	98.31	13.24	85.07	**34**	ND<7	180	35	**190**	38	60
	01/13/2005	98.31	10.21	88.10	**6**	ND<1	59	5	**39**	14	20
	04/20/2005	98.31	9.08	89.23	ND<1.0	ND<1.0	9.3	ND<3.0	3.9	3.3	4.3
	07/15/2005	98.31	15.36	82.95	**38.1**	1.5	161	68.7	**89.9**	79.7	**142**
	09/07/2005	98.31	23.45	74.86	**10.0**	ND<1.0	18.5	ND<3.0	**59.5**	11.0	23.0
	09/20/2005	98.31	DRY	-	NS	NS	NS	NS	NS	NS	NS
	10/28/2005	98.31	12.81	85.50	**76.7**	51.8	195 D	67.3	**2,750 D**	80.8	**136**

TABLE 2
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)
MSCs for Used, Non-Res. Aquifer					5	1,000	700	10,000	20	2,300	100
MW-3	03/23/1996	98.08	9.35	88.73	12	ND< 1	2	3	NA	NA	NA
	09/09/1996	98.08	13.76	84.32	ND	ND	ND	ND	480	NA	ND
	11/07/1996	98.08	11.43	86.65	ND< 1	ND< 1	ND< 1	ND< 3	170	NA	ND< 5
	02/14/1997	98.08	10.18	87.90	2	ND< 1	ND	ND< 3	130	NA	ND< 5
	05/07/1997	98.08	10.9	87.18	ND	ND	ND	ND	99	NA	ND
	09/15/1997	98.08	23.68	74.40	NS	NS	NS	NS	NS	NS	NS
	11/11/1997	98.08	23.95	74.13	NS	NS	NS	NS	NS	NS	NS
	03/17/1998	98.08	10.25	87.83	ND<1	ND<1	ND<1	ND<3	22	NA	ND<5
	06/15/1998	98.08	10.56	87.52	ND	ND	ND	ND< 5	8	ND	ND<5
	06/17/1999	98.08	21.97	76.11	ND	ND	ND	ND	7	ND	ND
	02/15/2000	98.08	11.96	86.12	80	325	21.7	267	1,680	ND	ND
	05/12/2000	98.08	11.43	86.65	ND	ND	ND	ND	256	ND	ND
	10/16/2000	98.08	14.15	83.93	ND	ND	ND	ND	42.3	ND	ND
	03/23/2001	98.08	9.04	89.04	1.3	ND	ND	ND	55.2	ND	ND
	06/14/2001	98.08	12.1	85.98	ND<1	ND<1	ND<1	ND<5	44.9	ND<2	ND<5
	09/18/2001	98.08	DRY	-	NS	NS	NS	NS	NS	NS	NS
	12/26/2001	98.08	23.21	74.87	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	ND<5
	03/26/2002	98.08	22.7	75.38	ND<1	ND<1	ND<1	ND<1.4	2.6	ND<2	ND<5
	06/14/2002	98.08	13.95	84.13	ND<1.0	ND<1.0	ND<1.0	ND<1.0	10.6	ND<2.0	ND<5.0
	09/13/2002	98.08	DRY	-	NS	NS	NS	NS	NS	NS	NS
	10/30/2002	98.08	18.45	79.63	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.8	ND<2.0	6.6
	03/05/2003	98.08	10.71	87.37	ND<1	ND<1	ND<1	ND<1	11	ND<5	ND<5
	05/08/2003	98.08	11.43	86.65	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0
	08/06/2003	98.08	13.51	84.57	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	10/24/2003	98.08	20.74	77.34	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	01/16/2004	98.08	10.53	87.55	<1.0	<5.0	<5.0	<10	28	<5.0	<5.0
	04/14/2004	98.08	9.83	88.25	<1.0	<5.0	<5.0	<10	20	<5.0	<5.0
	07/15/2004	98.08	17.05	81.03	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	10/04/2004	98.78	13.92	84.86	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	01/13/2005	98.78	11.13	87.65	ND<1	ND<1	ND<1	ND<1	19	ND<5	ND<5
	04/20/2005	98.78	10.04	88.74	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	07/15/2005	98.78	15.71	83.07	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	09/07/2005	98.78	DRY	-	NS	NS	NS	NS	NS	NS	NS
	09/20/2005	98.78	23.75	75.03	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	10/28/2005	98.78	13.75	85.03	3.1	2.2	ND<1.0	26.0	749 D	ND<1.0	9.0

TABLE 2
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)
MSCs for Used, Non-Res. Aquifer					5	1,000	700	10,000	20	2,300	100
MW-4	11/11/1997	98.08	23.87	74.21	ND<1	ND<1	ND	ND<3	10	NA	ND<5
	03/17/1998	98.08	10.1	87.98	ND	ND	ND<1	ND<3	ND<1	NA	ND<5
	06/15/1998	98.08	10.32	87.76	ND	ND	ND	ND	ND	ND	ND
	06/17/1999	98.08	22.61	75.47	ND	ND	ND	ND	ND<5	ND	ND
	02/15/2000	98.08	11.91	86.17	ND	ND	ND	ND	15.8	ND	ND
	05/12/2000	98.08	11.41	86.67	ND	ND	ND	ND	9.5	ND	ND
	10/16/2000	98.08	14.03	84.05	ND	ND	ND	ND	972	ND	ND
	03/23/2001	98.08	8.94	89.14	ND	ND	ND	ND	ND	ND	ND
	06/14/2001	98.08	12.05	86.03	ND<1	ND<1	ND<1	ND<5	31.6	ND<2	ND<5
	09/18/2001	98.08	24.57	73.51	ND<1	ND<1	ND<1	ND<1	4.9	ND<2	ND<5
	12/26/2001	98.08	24.43	73.65	ND<1	ND<1	ND<1	ND<1	1.7	ND<2	ND<5
	03/26/2002	98.08	23.82	74.26	ND<1	ND<1	ND<1	ND<1.4	1.1	ND<2	ND<5
	06/14/2002	98.08	14.01	84.07	ND<1.0	ND<1.0	ND<1.0	ND<1.0	7.5	ND<2.0	ND<5.0
	09/13/2002	98.08	24.67	73.41	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.2	ND<2.0	ND<5.0
	10/30/2002	98.08	20.38	77.70	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.6	ND<2.0	ND<5.0
	03/05/2003	98.08	10.68	87.40	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	05/08/2003	98.08	11.25	86.83	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0
	08/06/2003	98.08	13.75	84.33	<1.0	<5.0	<5.0	<10	9.8	<5.0	<5.0
	10/24/2003	98.08	20.63	77.45	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	01/16/2004	98.08	10.46	87.62	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	04/14/2004	98.08	9.86	88.22	<1.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	07/15/2004	98.08	18.63	79.45	<1.0	<5.0	<5.0	<10	5.0	<5.0	<5.0
	10/04/2004	98.94	13.99	84.95	ND<3	ND<4	ND<4	ND<4	100	ND<5	ND<5
	01/13/2005	98.94	10.98	87.96	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	04/20/2005	98.94	9.81	89.13	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	07/15/2005	98.94	16.05	82.89	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	09/07/2005	98.94	24.61	74.33	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	09/20/2005	98.94	24.51	74.43	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	10/28/2005	98.94	13.81	85.13	ND<1.0	ND<1.0	ND<1.0	ND<3.0	89.6	ND<1.0	ND<2.0
MW-5	12/09/2004	99.55	12.52	87.03	ND<1	ND<1	ND<1	ND<1	5	ND<5	ND<5
	01/13/2005	99.55	11.77	87.78	ND<1	ND<1	ND<1	ND<1	14	ND<5	ND<5
	04/20/2005	99.55	10.55	89.00	ND<1.0	ND<1.0	ND<1.0	ND<3.0	5.0	ND<1.0	ND<2.0
	07/15/2005	99.55	16.22	83.33	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	09/07/2005	99.55	26.92	72.63	ND<1.0	ND<1.0	ND<1.0	ND<3.0	1.9	ND<1.0	ND<2.0
	09/20/2005	99.55	30.02	69.53	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	10/28/2005	99.55	14.32	85.23	ND<1.0	ND<1.0	ND<1.0	4.1	648 D	ND<1.0	ND<2.0

TABLE 2
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY

SUNOCO STATION #0363-5430
610 OLD YORK ROAD
WARMINSTER, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)
MSCs for Used, Non-Res. Aquifer					5	1,000	700	10,000	20	2,300	100
MW-6	12/09/2004	99.72	12.69	87.03	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	01/13/2005	99.72	11.85	87.87	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	04/20/2005	99.72	10.70	89.02	ND<1.0	ND<1.0	ND<1.0	ND<3.0	2.0	ND<1.0	ND<2.0
	07/15/2005	99.72	16.39	83.33	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	09/07/2005	99.72	27.10	72.62	NA	NA	NA	NA	NA	NA	NA
	09/20/2005	99.72	29.88	69.84	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	10/28/2005	99.72	14.47	85.25	ND<1.0	ND<1.0	ND<1.0	ND<3.0	13.8	ND<1.0	ND<2.0
MW-7	12/09/2004	99.20	15.39	83.81	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	01/13/2005	99.20	14.63	84.57	ND<1	ND<1	ND<1	ND<1	ND<5	ND<5	ND<5
	04/20/2005	99.20	14.48	84.72	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	07/15/2005	99.20	20.15	79.05	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	09/07/2005	99.20	29.81	69.39	NA	NA	NA	NA	NA	NA	NA
	09/20/2005	99.20	32.85	66.35	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0	ND<1.0	ND<2.0
	10/28/2005	99.20	18.81	80.39	ND<1.0	1.7	ND<1.0	ND<3.0	60.8	ND<1.0	ND<2.0

<# = Less than the method detection limit of #
µg/L = Micrograms/liter
D = Secondary Dilution Limit
DRY = No water for sampling
MTBE = Methyl tertiary butyl ether
NA = Not Available or not analyzed for that specific compound
ND = Not detected (# is method detection limit)
NS = Not Sampled

APPENDIX A

SOIL LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Analysis Request/Environmental Services Chain of Custody

Lancaster Laboratories
A Thermo Analytical Laboratory

JAN 05 1996

Acct. # 8475 For LLI use only Sample # 2440666-69

Please print. Instructions on reverse side correspond with circled numbers.

Client: SUN - GES Acct. #: 8475

Project Name/#: ARI: WARMINSTER PWSID #:

Project Manager: MIKE SARCINELLO P.O.#:

Sampler: Ron Devereaux Quote #:

Name of state where samples were collected: PA

Sample Identification	Date Collected	Time Collected	(3) Grab	(3) Composite	Matrix (4) Soil	Water (☐ Potable ☐ NPDES)	Other	Total # of Containers	(5) Analyses Requested: BTEX 8020	TPH 418.1	Remarks	Temperature of samples upon receipt (if requested) (6)
SS-1	12/28/95	—		X	X			2	X	X	1-VOA MK-JMC 1-SOA MK-JMC	
SS-2		—		X	X			2	X	X	11	
SS-3		—		X	X			2	X	X	11	
SS-4		—		X	X			2	X	X	11	

1.7°C

Turnaround Time Requested (TAT) (please circle): Normal Rush (9)
(Rush TAT is subject to LLI approval and surchage.)
Date results are needed: 1/2/96
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

Relinquished by:	Date	Time	Received by:	Date	Time
	12/29/95	1545		12/29/95	1530
	12/29/95	13:00		12/29/95	1300
	12/29/95	1945			

Data Package Options (please circle if requested)
QC Summary Type VI
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? Yes No

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2440666
Collected: 12/28/95 by RDP

Submitted: 12/29/95 Reported: 1/ 3/96
Discard: 1/18/96

SS-1 Grab Soil Sample

ATL: Warminster, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
1562	Petroleum Hydrocarbons	40.	20.	mg/kg	40.	20.
	Petroleum hydrocarbons were detected in the method blank at a concentration of 1 mg/kg on an as received basis. This blank value was not subtracted from the analytical result. Due to the nature of this analysis, it is typical to have a result for the blank.					
6175	BTEX Scan (Total Xylenes) Soil					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
5327	Total Xylenes	< 15.	15.	ug/kg	< 18.	18.
2111	Moisture	15.8	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1562	Petroleum Hydrocarbons	EPA 418.1 (modified)	1	01/01/96 2030	Mark M. Cheyney
2111	Moisture	EPA 160.3 modified	1	01/02/96 0544	Lee L. Munro
6175	BTEX Scan (Total Xylenes) Soil	SW-846 8020A, mod.	1	01/02/96 1120	Matthew E. Barton

1 COPY TO SUN: Groundwater & Enviro. Sv ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
05:46:15 D 0001 4 119586 498134
854 113.00 00011300 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2440667
Collected: 12/28/95 by RDP

Submitted: 12/29/95 Reported: 1/ 3/96
Discard: 1/18/96

SS-2 Grab Soil Sample

ATL: Warminster, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
1562	Petroleum Hydrocarbons	320.	40.	mg/kg	370.	50.
6175	BTEX Scan (Total Xylenes) Soil					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
5327	Total Xylenes	N.D.	15.	ug/kg	N.D.	18.
2111	Moisture	15.2	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1562	Petroleum Hydrocarbons	EPA 418.1 (modified)	1	01/01/96 2030	Mark M. Cheyney
2111	Moisture	EPA 160.3 modified	1	01/02/96 0556	Lee L. Munro
6175	BTEX Scan (Total Xylenes) Soil	SW-846 8020A, mod.	1	01/02/96 1153	Matthew E. Banton

1 COPY TO SUN: Groundwater & Enviro. Sv ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
05:46:28 D 0001 4 119586 498134
854 113.00 00011300 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2440668
Collected: 12/28/95 by RDP

Submitted: 12/29/95 Reported: 1/ 3/96
Discard: 1/18/96

SS-3 Grab Soil Sample

ATL: Warminster, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
1562	Petroleum Hydrocarbons	430.	40.	mg/kg	480.	40.
6175	BTEX Scan (Total Xylenes) Soil					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
5327	Total Xylenes	< 15.	15.	ug/kg	< 17.	17.
2111	Moisture	10.2	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1562	Petroleum Hydrocarbons	EPA 418.1 (modified)	1	01/01/96 2030	Mark M. Cheyney
2111	Moisture	EPA 160.3 modified	1	01/02/96 0608	Lee L. Munro
6175	BTEX Scan (Total Xylenes) Soil	SW-846 8020A, mod.	1	01/02/96 1227	Matthew E. Barton

1 COPY TO SUN: Groundwater & Enviro. Sv ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
05:46:40 D 0001 4 119586 498134
854 113.00 00011300 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2440669
Collected: 12/28/95 by RDP

Submitted: 12/29/95 Reported: 1/ 3/96
Discard: 1/18/96

SS-4 Grab Soil Sample

ATL: Warminster, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
1562	Petroleum Hydrocarbons	90.	20.	mg/kg	100.	20.
	Petroleum hydrocarbons were detected in the method blank at a concentration of 1 mg/kg on an as received basis. This blank value was not subtracted from the analytical result. Due to the nature of this analysis, it is typical to have a result for the blank.					
6175	BTEX Scan (Total Xylenes) Soil					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
5327	Total Xylenes	< 15.	15.	ug/kg	< 17.	17.
2111	Moisture	14.1	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1562	Petroleum Hydrocarbons	EPA 418.1 (modified)	1	01/01/96 2030	Mark M. Cheyney
2111	Moisture	EPA 160.3 modified	1	01/02/96 0616	Lee L. Munro
6175	BTEX Scan (Total Xylenes) Soil	SW-846 8020A, mod.	1	01/02/96 1300	Matthew E. Barton

1 COPY TO SUN: Groundwater & Enviro. Sv ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
05:46:52 D 0001 4 119586 498134
854 113.00 00011300 ASR000

Respectfully Submitted
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Group Leader

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Request/Environmental Services Chain of Custody

Lancaster Laboratories
A Thermo Analytical Laboratory

FEB 28 1996

For LLI use only
Acct. # 8475 Sample # 245891-93

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: SUN - GES Acct. #: 8475
Project Name/#: PTL 610 Old York Rd PWSID #:
Project Manager: M. Haslett P.O.#
Sampler: B. Ricker Quote #:
Name of state where samples were collected: PA

(2) (3) Matrix (4) (5) Analyses Requested (6)

Sample Identification	Date Collected	Time Collected	(3) Grab	(3) Composite	Matrix: Soil	Matrix: Potable Water	Matrix: NPDES	Matrix: Other	Total # of Containers	(5) BKx 1&2D	Remarks	Temperature of sample upon receipt (if requested)
Disp-1 @ 1'	2/8/96	835	X		X				1	X	1 125 mL Jar	
Disp-2 @ 1'	↓	840	X		X				1	X	↓	
Disp-3 @ 1'	↓	845	X		X				1	X		

2.5 °C 2/9/96 HAS

(7) Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to LLI approval and surchage.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) Data Package Options (please circle if requested)
QC Summary Type VI
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? (Yes) No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
	2/8/96	1200	Locked Refrigerator	2/8/96	1200
	2-5-96	545	David J. Wasler	2/9/96	9.45
David J. Wasler 2/9/96		1720			

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2458591
Collected: 2/ 8/96 at 08:35 by BR

Submitted: 2/ 9/96 Reported: 2/26/96
Discard: 3/12/96

Disp-1 @ 1' Grab Soil Sample

Atl: 610 Old York Rd, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	80.	50.	ug/kg	100.	60.
2604	Toluene	2,500.	50.	ug/kg	3,000.	60.
2606	Ethylbenzene	2,500.	50.	ug/kg	3,000.	60.
5327	Total Xylenes	17,000.	150.	ug/kg	21,000.	180.
5326	TPH by GC - GRO (Soils)	170.	10.	mg/kg	200.	10.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	16.8	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	02/12/96 1608	Dawn Boley
2111	Moisture	EPA 160.3 modified	1	02/21/96 0531	Lee L. Munro

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
04:52:33 0 0001 3 119586 502915
875 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

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Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2458592
Collected: 2/ 8/96 at 08:40 by BR

Submitted: 2/ 9/96 Reported: 2/26/96
Discard: 3/12/96

Disp-2 @ 1' Grab Soil Sample

Atl: 610 Old York Rd, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	600.	500.	ug/kg	700.	600.
2604	Toluene	43,000.	500.	ug/kg	51,000.	600.
2606	Ethylbenzene	34,000.	500.	ug/kg	41,000.	600.
5327	Total Xylenes	210,000.	1,500.	ug/kg	250,000.	1,800.
5326	TPH by GC - GRO (Soils)	1,100.	100.	mg/kg	1,300.	100.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	16.4	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	02/12/96 1902	Dawn Boley
2111	Moisture	EPA 160.3 modified	1	02/21/96 0554	Lee L. Munro

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
04:52:44 D 0001 3 119586 502915
875 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2458593
Collected: 2/ 8/96 at 08:45 by BR

Submitted: 2/ 9/96 Reported: 2/26/96
Discard: 3/12/96

Disp-3 @ 1' Grab Soil Sample

Atl: 610 Old York Rd, PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	200.	100.	ug/kg	200.	100.
2604	Toluene	11,000.	100.	ug/kg	14,000.	100.
2606	Ethylbenzene	8,900.	100.	ug/kg	10,000.	100.
5327	Total Xylenes	54,000.	300.	ug/kg	63,000.	350.
5326	TPH by GC - GRO (Soils)	270.	20.	mg/kg	310.	20.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	15.0	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	02/12/96 1935	Dawn Boley
2111	Moisture	EPA 160.3 modified	1	02/21/96 0603	Lee L. Munro

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
04:52:55 D 0001 3 119586 502915
875 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

MEMBER ACIL

Lancaster Laboratories
A Thermo Analytical Laboratory

MAR 07 1996

For LLI use only
Acct. # 8475 Sample # 246411-12

Please print. Instructions on reverse side correspond with circled numbers.

Client: SUN - GES Acct. #: 8475
Project Name/#: ATC 610 Old York Rd PWSID #:
Project Manager: Mark Haskett P.O.#:
Sampler: Brian S. Rickert Quote #:
Name of state where samples were collected: PA

Sample Identification	Date Collected	Time Collected	Matrix (4): Grab (3)	Composite (3)	Soil	Water (Potable / NPDES)	Other	Total # of Containers	BTEX/BRO (5)	Remarks	Temperature of sample upon receipt (if requested) (6)
TL-1 @ 1'	2/13/96	1745	X		X			1	X	1 125 ml Jar	23°
TL-2 @ 1'	2/13/96	750	X		X			1	X	1 125 ml Jar	↓

For LLI use only
FSC:
SCR #:

dgp 2/15/96

Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to LLI approval and surchage.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

Data Package Options (please circle if requested)
QC Summary Type VI
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? (Yes) No

Relinquished by:	Date	Time	Received by:	Date	Time (9)
[signature]	2/14/96	1500	locked Refrigerator	2/14/96	1500
Relinquished by: RETNY OMAY	2-15-96	1000	[signature]	2/15/96	1000
Relinquished by: [signature]	2/15/96	1645	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	2/15/96	1645

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client 2102 Rev. 6

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2461411
Collected: 2/13/96 at 07:45 by BSR

Submitted: 2/15/96 Reported: 2/28/96
Discard: 3/14/96

TL-1 @ 1' Grab Soil Sample

Site: 610 Old York Rd. PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	N.D.	5.	ug/kg	N.D.	5.
2604	Toluene	N.D.	5.	ug/kg	N.D.	5.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	5.
5327	Total Xylenes	N.D.	15.	ug/kg	N.D.	16.
5326	TPH by GC - GRO (Soils)	N.D.	1.	mg/kg	N.D.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	5.0	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	02/22/96 1837	Dawn Boley
2111	Moisture	EPA 160.3 modified	1	02/27/96 0429	Lee L. Munro

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:52:24 D 0001 2 119586 503644
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2461412
Collected: 2/13/96 at 07:50 by BSR

Submitted: 2/15/96 Reported: 2/28/96
Discard: 3/14/96

TL-2 @ 1' Grab Soil Sample

ATL: 610 Old York Rd. - PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	N.D.	100.	ug/kg	N.D.	100.
2604	Toluene	700.	100.	ug/kg	800.	100.
2606	Ethylbenzene	1,800.	100.	ug/kg	2,100.	100.
5327	Total Xylenes	16,000.	300.	ug/kg	19,000.	350.
5326	TPH by GC - GRO (Soils)	120.	20.	mg/kg	150.	20.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene. Due to interferences from the sample matrix, the limit of quantitation for the benzene determination was increased.					
2111	Moisture	15.0	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	02/22/96 2017	Dawn Boley
2111	Moisture	EPA 160.3 modified	1	02/27/96 0434	Lee L. Munro

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:52:37 D 0001 2 119586 503644
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
A Thermo Analytical Laboratory

APR 03 1995

For LLI use only
Acct. # 8475 Sample # 246782-75

Please print. Instructions on reverse side correspond with circled numbers.

Client: SUN - GES Acct. #: 8475
Project Name/#: ATL Sun: 610 OLD YORK RD. PWSID #:
Project Manager: MARK HASLETTE P.O.#
Sampler: RON DELLA PENNA Quote #:
Name of state where samples were collected: PA

Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix (4) Soil	Water	Oil	Other	Total # of Containers	(5) Analyses Requested: BTX 8020	GRO 8015	Remarks	For LLI use only: Temperature of samples upon receipt (if requested) (6)
SS-1 (12')	2/27/96	1126	X		X				1	X	X	1-125 ML. JAR	2.3°C
SS-2 (12')		1130							1	X	X		
SS-3 (12')		1136							1	X	X		
SS-4 (12')		1340							1	X	X		
SS-5 (12')		1343							1	X	X		
SS-6 (12')		1346							1	X	X		
SS-7 (12')		1436							1	X	X		
SS-8 (12')		1440							1	X	X		
SS-9 (12')		1442							1	X	X		
SS-10 (12')		1536							1	X	X		

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to LLI approval and surchage.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

Data Package Options (please circle if requested)
QC Summary Type VI
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time (9)
	2/27/96	800	REFRIGERATOR	2/27/96	800
	2-28-96	1030		2/28/96	1030
	2/28/96	1345			
			2-28-96	1345	

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
A Thermo Analytical Laboratory

For LLI use only
Acct. # 8475 Sample # 2460872-5

APR 11 1996

Please print. Instructions on reverse side correspond with circled numbers.

(1) Client: SUN - GES Acct. #: 8475
Project Name/#: RT. 610 OLD YORK RD PWSID #:
Project Manager: MARK HASLETT P.O.#
Sampler: RON DELLA PENNA Quote #:
Name of state where samples were collected: PA

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	(4) Matrix: Soil	Water	Other	Total # of Containers	(5) Analyses Requested: BTEX 602/610 8015	TPH 418.1	Remarks	(6) Hold/Archive or Dispose upon receipt (if requested)
SS-11 (12')	2/27/96	1539	X		X			1	X		1-125 ML. JAR	2.34
SS-12 (12')		1601						1	X		1-125 ML. JAR	
SS-13 (8')		1615						1		X	1-500 ML. JAR	
SS-14 (8')		1617						1		X	1-500 ML. JAR	
												2/28/96

For LLI use only
FSC:
SCR #:

(7) Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to LLI approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) Data Package Options (please circle if requested)
QC Summary Type VI
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? (Yes) No

(9) Relinquished by:	Date	Time	Received by:	Date	Time
	2/28/96	800		2/28/96	800
Relinquished by:	2-28-96	1130	Received by:	2/28/96	1430
Relinquished by:	2/28/96	1345	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				2-28-96	1345

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client 2102 Rev. 6/1/95

Lancaster Laboratories
A Thermo Analytical Laboratory
Where quality is a science.

April 1, 1996

Mr. Mark Haslett
Groundwater & Environmental Services
410 Eagleview Boulevard Suite 110
Exton, PA 19341

Dear Mr. Haslett:

As we had discussed on March 26, 1996, we received soil samples from the Atlantic site at 610 Old York Road in Warminster, Pennsylvania. The samples were misplaced after BTEX/GRO was analyzed, and we have not located them for the moisture analysis. Therefore, these two, SS-1 (12') and SS-2 (12'), are reported only "as received" and not on a dry-weight basis. I apologize for the inconvenience this may have caused you.

Sincerely,

Eileen Hostetler

Eileen Hostetler
Project Management
Environmental Sciences

EH/clw

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Shipping Address:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601
717-656-2300 Fax: 717-656-2681

Environmental • Foods • Pharmaceuticals
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A subsidiary of Thermo Process Systems Inc., a Thermo Electron company

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467862
Collected: 2/27/96 at 11:26 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-1 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
5325	TPH-GRO API & BTEX (Soils)			
2603	Benzene	1,000.	500.	ug/kg
2604	Toluene	23,000.	500.	ug/kg
2606	Ethylbenzene	34,000.	500.	ug/kg
5327	Total Xylenes	180,000.	1,500.	ug/kg
5326	TPH by GC - GRO (Soils)	1,100.	100.	mg/kg

According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/01/96 1252	Matthew E. Barton

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:14:46 D 0001 14 119586 505239
854 48.00 00004800 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of number and abbreviations 3216 Rev. 10/30/95

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467863
Collected: 2/27/96 at 11:30 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-2 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
5325	TPH-GRO API & BTEX (Soils)			
2603	Benzene	1,900.	5.	ug/kg
2604	Toluene	33,000.	5.	ug/kg
2606	Ethylbenzene	26,000.	5.	ug/kg
5327	Total Xylenes	160,000.	15.	ug/kg
5326	TPH by GC - GRO (Soils)	1,100.	1.	mg/kg

According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/01/96 1324	Matthew E. Barton

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:15:05 D 0001 14 119586 505239
854 48.00 00004800 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467864
Collected: 2/27/96 at 11:36 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-3 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	35.	5.	ug/kg	45.	6.
2604	Toluene	210.	5.	ug/kg	270.	6.
2606	Ethylbenzene	94.	5.	ug/kg	120.	6.
5327	Total Xylenes	660.	15.	ug/kg	830.	19.
5326	TPH by GC - GRO (Soils)	5.	1.	mg/kg	6.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	21.0	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/01/96 1324	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1623	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:15:21 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467865
Collected: 2/27/96 at 13:40 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-4 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	< 100.	100.	ug/kg	< 100.	100.
2604	Toluene	300.	100.	ug/kg	300.	100.
2606	Ethylbenzene	2,700.	100.	ug/kg	3,400.	100.
5327	Total Xylenes	14,000.	300.	ug/kg	17,000.	380.
5326	TPH by GC - GRO (Soils)	160.	20.	mg/kg	200.	30.

According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.
Due to interferences from the sample matrix, the limit of quantitation for the benzene determination was increased.

2111	Moisture	20.6	0.5	% by wt.

"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1220	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1655	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:15:45 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467866
Collected: 2/27/96 at 13:43 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-5 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	< 5.	5.	ug/kg	< 6.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
5327	Total Xylenes	< 15.	15.	ug/kg	< 19.	19.
5326	TPH by GC - GRO (Soils)	N.D.	1.	mg/kg	N.D.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	21.6	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/01/96 1436	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1710	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:16:04 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467867
Collected: 2/27/96 at 13:46 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-6 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	25.	5.	ug/kg	31.	6.
2604	Toluene	370.	5.	ug/kg	450.	6.
2606	Ethylbenzene	400.	5.	ug/kg	500.	6.
5327	Total Xylenes	2,300.	15.	ug/kg	2,800.	19.
5326	TPH by GC - GRO (Soils)	23.	1.	mg/kg	28.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	19.4	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1253	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1726	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:16:24 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467868
Collected: 2/27/96 at 14:36 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-7 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	1,400.	500.	ug/kg	1,900.	700.
2604	Toluene	8,000.	500.	ug/kg	10,000.	700.
2606	Ethylbenzene	18,000.	500.	ug/kg	24,000.	700.
5327	Total Xylenes	110,000.	1,500.	ug/kg	140,000.	2,000.
5326	TPH by GC - GRO (Soils)	800.	100.	mg/kg	1,100.	100.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	23.7	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1325	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1747	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:16:42 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467869
Collected: 2/27/96 at 14:40 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-B (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	N.D.	500.	ug/kg	N.D.	600.
2604	Toluene	700.	500.	ug/kg	900.	600.
2606	Ethylbenzene	4,900.	500.	ug/kg	6,400.	600.
5327	Total Xylenes	17,000.	1,500.	ug/kg	21,000.	1,900.
5326	TPH by GC - GRO (Soils)	400.	100.	mg/kg	500.	100.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene. Due to interferences from the sample matrix, the limit of quantitation for the benzene determination was increased.					
2111	Moisture	22.9	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1358	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1810	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:17:02 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717 656 2300 Fax: 717 656 2681

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467870
Collected: 2/27/96 at 14:42 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-9 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	< 500.	500.	ug/kg	< 700.	700.
2604	Toluene	< 500.	500.	ug/kg	< 700.	700.
2606	Ethylbenzene	7,900.	500.	ug/kg	11,000.	700.
5327	Total Xylenes	15,000.	1,500.	ug/kg	20,000.	2,000.
5326	TPH by GC - GRO (Soils)	800.	100.	mg/kg	1,100.	100.

According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.
Due to interferences from the sample matrix, the limits of quantitation for the benzene and toluene determinations were increased.

2111	Moisture	25.5	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1324	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1854	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:17:22 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467871
Collected: 2/27/96 at 15:56 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-10 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	800.	500.	ug/kg	1,000.	600.
2604	Toluene	8,800.	500.	ug/kg	11,000.	600.
2606	Ethylbenzene	10,000.	500.	ug/kg	12,000.	600.
5327	Total Xylenes	71,000.	1,500.	ug/kg	85,000.	1,800.
5326	TPH by GC - GRO (Soils)	600.	100.	mg/kg	800.	100.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	16.1	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1356	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1914	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:17:41 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467872
Collected: 2/27/96 at 15:59 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-11 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	N.D.	500.	ug/kg	N.D.	600.
2604	Toluene	3,800.	500.	ug/kg	4,600.	600.
2606	Ethylbenzene	12,000.	500.	ug/kg	15,000.	600.
5327	Total Xylenes	77,000.	1,500.	ug/kg	93,000.	1,800.
5326	TPH by GC - GRO (Soils)	500.	100.	mg/kg	700.	100.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene. Due to interferences from the sample matrix, the limit of quantitation for the benzene determination was increased.					
2111	Moisture	17.7	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1429	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1933	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:17:59 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467873
Collected: 2/27/96 at 16:01 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-12 (12') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
5325	TPH-GRO API & BTEX (Soils)					
2603	Benzene	N.D.	100.	ug/kg	N.D.	100.
2604	Toluene	400.	100.	ug/kg	500.	100.
2606	Ethylbenzene	3,400.	100.	ug/kg	4,200.	100.
5327	Total Xylenes	8,000.	300.	ug/kg	9,800.	370.
5326	TPH by GC - GRO (Soils)	250.	20.	mg/kg	300.	20.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene. Due to interferences from the sample matrix, the limit of quantitation for the benzene determination was increased.					
2111	Moisture	19.0	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
5325	TPH-GRO API & BTEX (Soils)	API Rev 6 / SW-846 8020A, mod.	1	03/04/96 1430	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/01/96 1954	Roxanne M. Roth

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:18:20 D 0001 14 119586 505239
854 55.20 00005520 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717.656.2300 Fax 717.656.2681

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467874
Collected: 2/27/96 at 16:15 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-13 (8') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0111	Moisture	19.4	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
1562	Petroleum Hydrocarbons	30.	20.	mg/kg	30.	20.
	Petroleum hydrocarbons were detected in the method blank at a concentration of 5 mg/kg on an as received basis. This blank value was not subtracted from the analytical result. Due to the nature of this analysis, it is typical to have a result for the blank.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
0111	Moisture	EPA 160.3 (modified)	1	03/01/96 1549	Susan A. Engle
1562	Petroleum Hydrocarbons	EPA 418.1 (modified)	1	03/07/96 2130	Mark M. Cheyney

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:18:38 D 0001 14 119586 505239
854 45.70 00004570 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Analysis Report

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2467875
Collected: 2/27/96 at 16:17 by RDP

Submitted: 2/28/96 Reported: 3/27/96
Discard: 4/11/96

SS-14 (8') Grab Soil Sample

ATL: 610 Old York Rd., PA

Account No: 08475
SUN:Groundwater & Enviro. Svc.
410 Eagleview Blvd., Ste. 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0111	Moisture	17.8	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
1562	Petroleum Hydrocarbons	70.	20.	mg/kg	90.	20.
	Petroleum hydrocarbons were detected in the method blank at a concentration of 5 mg/kg on an as received basis. This blank value was not subtracted from the analytical result. Due to the nature of this analysis, it is typical to have a result for the blank.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
0111	Moisture	EPA 160.3 (modified)	1	03/01/96 1549	Susan A. Engle
1562	Petroleum Hydrocarbons	EPA 418.1 (modified)	1	03/07/96 2130	Mark M. Cheyney

1 COPY TO SUN:Groundwater & Enviro. Svc. ATTN: Mr. Mark Haslett

Questions? Contact your Client Services Representative
Eileen R. Hostetler at (717) 656-2300
03:18:52 D 0001 14 119586 505239
B54 45.70 00004570 ASR000

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For LLI use only
Acct. # 5620 Sample # 247675-9

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Handex Acct. #:
Project Name/#: Sun : Warminster PWSID #:
Project Manager: Jeff Goudsward P.O.#
Sampler: JG Quote #:
Name of state where samples were collected: PA

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab (3)	Composite (3)	Matrix (4): Soil	Water (Potable / NPDES)	Other	Total # of Containers	TPH-GRO (8015) (5)	BTEX (8020) (5)	Remarks	Temperature of samples upon receipt (if requested) (6)
MW-1 (5-7)	3/13/96	0925	✓		✓			2	✓	✓		
MW-2 (5-7)	3/13/96	1035	✓		✓			2	✓	✓		
MW-3 (5-7)	3/13/96	1135	✓		✓			2	✓	✓		
											Cooler Temp 6.4°C	

For LLI use only
FSC:
SCR #:

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to LLI approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone (Fax)
Phone #: Fax #: 610-650-4004

(8) **Data Package Options** (please circle if requested)
QC Summary GLP
Type I (Tier I) Other
Type II (Tier II)
Type III (NJ Red. Del.)
Type IV (CLP)
SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time (9)
	3/13/96	1730		3/13/96	1230
	3/14/96	1600			

 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 2102 Rev. 1\30\95

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2476789
Collected: 3/13/96 at 09:25 by JG

Submitted: 3/14/96 Reported: 3/28/96
Discard: 4/12/96

MW-1 (5-7) Grab Soil Sample

SUN: Warminster, PA

Account No: 05620
SUN: Handex of PA
136 Greentree Road
PO Box 835
Oaks PA 19456-0835

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
2213	BTEX Scan (8020)					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	N.D.	5.	ug/kg	N.D.	6.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
2608	o-Xylene	N.D.	5.	ug/kg	N.D.	6.
2609	m-Xylene	N.D.	5.	ug/kg	N.D.	6.
2610	p-Xylene	N.D.	5.	ug/kg	N.D.	6.
5323	TPH-GRO API (Soils)	N.D.	1.	mg/kg	N.D.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	13.5	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
2213	BTEX Scan (8020)	SW-846 8020A, mod.	1	03/18/96 1707	Dawn Boley
5323	TPH-GRO API (Soils)	API/EPA proposed, Revision 6	1	03/18/96 1006	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/25/96 1923	Roxanne M. Roth

1 COPY TO SUN: Handex of PA ATTN: Mr. Jeff Goudsward

Questions? Contact your Client Services Representative
Laura S. Shepler-Moore at (717) 656-2300
03:58:56 D 0001 3 119586 507547
875 82.20 00008220 ASR000

Respectfully Submitted
Delwyn K. Schumacher, B.S.
Group Leader, ExpressLAB

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717.656.2300 Fax: 717.656.2681

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2476790
Collected: 3/13/96 at 10:35 by JG

Submitted: 3/14/96 Reported: 3/28/96
Discard: 4/12/96

MW-2 (5-7) Grab Soil Sample

SUN: Warminster, PA

Account No: 05620
SUN: Handex of PA
136 Greentree Road
PO Box 835
Oaks PA 19456-0835

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
2213	BTEX Scan (8020)					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
2608	o-Xylene	< 5.	5.	ug/kg	< 6.	6.
2609	m-Xylene	< 5.	5.	ug/kg	< 6.	6.
2610	p-Xylene	< 5.	5.	ug/kg	< 6.	6.
5323	TPH-GRO API (Soils)	N.D.	1.	mg/kg	N.D.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	15.3	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
2213	BTEX Scan (8020)	SW-846 8020A, mod.	1	03/18/96 1930	Dawn Boley
5323	TPH-GRO API (Soils)	API/EPA proposed, Revision 6	1	03/19/96 1218	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/25/96 1939	Roxanne M. Roth

1 COPY TO SUN: Handex of PA ATTN: Mr. Jeff Goudsward

Questions? Contact your Client Services Representative
Laura S. Shepler-Moore at (717) 656-2300
03:59:24 0 0001 3 119586 507547
875 82.20 00008220 ASR000

Respectfully Submitted
Delwyn K. Schumacher, B.S.
Group Leader, ExpressLAB

Lancaster Laboratories
A Thermo Analytical Laboratory

LLI Sample No. SW 2476791
Collected: 3/13/96 at 11:35 by JG

Submitted: 3/14/96 Reported: 3/28/96
Discard: 4/12/96

MW-3 (5-7) Grab Soil Sample

SUN: Warminster, PA

Account No: 05620
SUN: Handex of PA
136 Greentree Road
PO Box 835
Oaks PA 19456-0835

P.O. WARMINSTER
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	LIMIT OF QUANTITATION
2213	BTEX Scan (8020)					
2603	Benzene	N.D.	5.	ug/kg	N.D.	6.
2604	Toluene	N.D.	5.	ug/kg	N.D.	6.
2606	Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
2608	o-Xylene	N.D.	5.	ug/kg	N.D.	6.
2609	m-Xylene	N.D.	5.	ug/kg	N.D.	6.
2610	p-Xylene	N.D.	5.	ug/kg	N.D.	6.
5323	TPH-GRO API (Soils)	N.D.	1.	mg/kg	N.D.	1.
	According to the API Protocol, the quantitation for Gasoline Range Organics was performed using the total peak area of the sample pattern between 2-methylpentane and 1,2,4-trimethylbenzene.					
2111	Moisture	20.6	0.5	% by wt.		
	"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.					

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
2213	BTEX Scan (8020)	SW-846 8020A, mod.	1	03/18/96 2018	Dawn Boley
5323	TPH-GRO API (Soils)	API/EPA proposed, Revision 6	1	03/19/96 1250	Matthew E. Barton
2111	Moisture	EPA 160.3 modified	1	03/25/96 1947	Roxanne M. Roth

1 COPY TO SUN: Handex of PA ATTN: Mr. Jeff Goudsward

Questions? Contact your Client Services Representative
Laura S. Shepler-Moore at (717) 656-2300
03:59:50 D 0001 3 119586 507547
875 82.20 00008220 ASR000

Respectfully Submitted
Delwyn K. Schumacher, B.S.
Group Leader, ExpressLAB

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
A division of Thermo Analytical Inc.

NOV 10 1997

For Lancaster Laboratories use only
Acct. # 8475 Sample # 2507883

Please print. Instructions on reverse side correspond with circled numbers.

(1) Client: SUN-GES (WARMINSTER) Acct. #: 8475
Project Name/#: Sun-610 Old York Rd PWSID #:
Project Manager: J. Goodward P.O.#:
Sampler: B. Peterka Quote #:
Name of state where samples were collected: PA

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	(4) Matrix: Soil	Water (Potable / NPDES)	Other	Total # of Containers	(5) Analyses Requested: BTEX - MTBE - Naphthalene 8021A	Remarks	Temperature of samples upon receipt (if requested) (6)
MW-4	10-27-97	1100	X		X			2	X	2-125ml jars	1.5C

For lab use only
FSC:
SCR #:

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) **Data Package Options** (please circle if requested)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	102797	1500	Locked fridge	10.27.97	1520
Locked Refrig	10-27-97	1600		10-27-97	1620
	10-27-97	1715			
			Joseph B. Pine	10/27/97	1715

(9)

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 2102 Rev. 7/1/95

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. SW 2807893
Collected: 10/27/97 at 11:00 by BP

Submitted: 10/27/97 Reported: 11/ 7/97
Discard: 11/22/97

MW-4 Grab Soil Sample

SUN: 610 Old York Rd. - PA

Account No: 08475
SUN: Groundwater & Enviro. Svc
410 Eagleview Blvd.
Suite 110
Exton PA 19341

P.O. 610 OLD YORK RD
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0111	Moisture	14.2	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
1837	BTEX/Isopropylbenz/MTBE/Napth					
0787	Methyl t-butyl ether	< 20.	20.	ug/kg	< 20.	20.
2603	Benzene	< 5.	5.	ug/kg	< 6.	6.
2604	Toluene	< 5.	5.	ug/kg	< 6.	6.
2606	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
5327	Total Xylenes	< 15.	15.	ug/kg	< 17.	17.
0786	Isopropylbenzene	< 10.	10.	ug/kg	< 10.	10.
0788	Naphthalene	< 20.	20.	ug/kg	< 20.	20.

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
0111	Moisture	EPA 160.3 modified	1		10/29/97 1913	Sandra Jean Miller
1837	BTEX/Isopropylbenz/MTBE/Napth	SW-846 8021A, modified	1		10/28/97 0424	Stephanie A. Selis

1 COPY TO SUN:Groundwater & Environ Svc ATTN: Mr. Jeff Goudsward

Questions? Contact your Client Services Representative
De Brooks at (717) 656-2300
13:07:59 D 0001 1 126345 588098
320 0.00 00007020 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 11224 Group# 916952 Sample # 4381915-16

COC # 0062792

Please print. Instructions on reverse side correspond with circled numbers. Cooler temp 2.7°C

Client: Sunoco Acct. #:
Project Name/#: Warminster PWSID #:
Project Manager: Jen O'Reilly P.O.#:
Sampler: Kristen Snyder Quote #:
Name of state where samples were collected: PA

(1) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix (4) Soil	Water (Potable / NPDES)	Other	Total # of Containers	(5) Analyses Requested: 8260B BTEX MTBE Cumene Naphthalene	Moisture	Remarks
MW-5-25	10/18/04	13:00	X		X			4	X	X	*low level excess
MW-6-15	10/18/04	15:00	X		X			4	X	X	

RECEIVED NOV 01 2004

For Lab Use Only
FSC:
SCR #:

(6) Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

SDG Complete? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/18/04	19:00	GEJ Fedex		
[signature]	10-19-04	09:05	[signature]	10/19/04	0905
[signature]	10/19/04	1600			
			Jessica [signature]	10/20/04	1000

(9)

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA • 17605-2425 • 717-656-2300 Fax 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

SUN Retail:/GES
410 Eagleview Blvd
Suite 110
Exton PA 19341
610-458-1077

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 916952. Samples arrived at the laboratory on Tuesday, October 19, 2004. The PO# for this group is WARMINSTER-610 OLD Y.

Client Description	Lancaster Labs Number
MW-5-25 Grab Soil Sample	4381915
MW-6-15 Grab Soil Sample	4381916

1 COPY TO	Lancaster Labs	Attn: Sandy Patton
ELECTRONIC COPY TO	SUN Retail:/GES	Attn: Ms. Connie Johnson

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Sandra L Patton at (717) 656-2300.

Respectfully Submitted,

Robin C. Runkle
Senior Chemist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 4381915

MW-5-25 Grab Soil Sample
Station ID# 0363-5430 Job# 02-01682
SUN: 610 Old York Road - Warminster, PA
Collected:10/18/2004 13:00 by KS

Account Number: 11224

Submitted: 10/19/2004 16:00
Reported: 10/27/2004 at 22:13
Discard: 11/04/2004

SUN Retail:/GES
410 Eagleview Blvd
Suite 110
Exton PA 19341

OYR05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	8.1	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
02304	UST-Unleaded Soils by 8260B					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	ug/kg	0.95
05460	Benzene	71-43-2	N.D.	1.	ug/kg	0.95
05466	Toluene	108-88-3	N.D.	1.	ug/kg	0.95
05474	Ethylbenzene	100-41-4	N.D.	1.	ug/kg	0.95
05479	Isopropylbenzene	98-82-8	N.D.	5.	ug/kg	0.95
05498	Naphthalene	91-20-3	N.D.	5.	ug/kg	0.95
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	0.95

Commonwealth of Pennsylvania Lab Certification No. 36-037

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	10/20/2004 17:50	Scott W Freisher	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	10/25/2004 17:39	Roy R Mellott Jr	0.95
08389	Low/High Encore Prep Tracking	SW-846 5035	1	10/19/2004 18:32	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	10/19/2004 18:33	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	10/19/2004 18:34	Medina A Long	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax:717-656-2681 · www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4381916

MW-6-15 Grab Soil Sample
Station ID# 0363-5430 Job# 02-01682
SUN: 610 Old York Road - Warminster, PA
Collected:10/18/2004 15:00 by KS

Account Number: 11224

Submitted: 10/19/2004 16:00
Reported: 10/27/2004 at 22:13
Discard: 11/04/2004

SUN Retail:/GES
410 Eagleview Blvd
Suite 110
Exton PA 19341

OYR06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	8.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
02304	UST-Unleaded Soils by 8260B					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	ug/kg	1
05460	Benzene	71-43-2	N.D.	1.	ug/kg	1
05466	Toluene	108-88-3	N.D. #	1.	ug/kg	1
05474	Ethylbenzene	100-41-4	N.D. #	1.	ug/kg	1
05479	Isopropylbenzene	98-82-8	N.D.	5.	ug/kg	1
05498	Naphthalene	91-20-3	N.D.	5.	ug/kg	1
06301	Xylene (Total)	1330-20-7	N.D. #	1.	ug/kg	1

Commonwealth of Pennsylvania Lab Certification No. 36-037

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	10/20/2004 17:50	Scott W Freisher	1
02304	UST-Unleaded Soils by 8260B	SW-846 8260B	1	10/25/2004 18:05	Roy R Mellott Jr	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	10/19/2004 18:36	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	10/19/2004 18:37	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	10/19/2004 18:38	Medina A Long	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: SUN Retail:/GES
Reported: 10/27/04 at 10:13 PM

Group Number: 916952

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04294820002B	Sample number(s): 4381915-4381916							
Moisture				100		99-101		
Batch number: X042981AB	Sample number(s): 4381915-4381916							
Methyl Tertiary Butyl Ether	N.D.	5.	ug/kg	95	95	75-125	1	30
Benzene	N.D.	1.	ug/kg	92	90	77-119	2	30
Toluene	N.D.	1.	ug/kg	90	88	81-116	2	30
Ethylbenzene	N.D.	1.	ug/kg	91	89	82-115	2	30
Isopropylbenzene	N.D.	5.	ug/kg	91	90	79-117	2	30
Naphthalene	N.D.	5.	ug/kg	68	70	58-114	2	30
Xylene (Total)	N.D.	1.	ug/kg	92	89	82-117	3	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04294820002B	Sample number(s): 4381915-4381916								
Moisture						8.1	7.8	4	15
Batch number: X042981AB	Sample number(s): 4381915-4381916								
Methyl Tertiary Butyl Ether	86		49-140						
Benzene	88		58-126						
Toluene	86		55-125						
Ethylbenzene	83		50-127						
Isopropylbenzene	79		48-124						
Naphthalene	42		11-142						
Xylene (Total)	82		54-123						

Surrogate Quality Control

Analysis Name: UST-Unleaded Soils by 8260B
Batch number: X042981AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4381915	95	95	93	87
4381916	94	91	93	86
Blank	96	94	92	87
LCS	95	94	93	87

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: SUN Retail:/GES
Reported: 10/27/04 at 10:13 PM

Group Number: 916952

Surrogate Quality Control

LCSD	96	92	93	88
MS	95	94	94	88
Limits:	70-129	70-121	70-130	70-128

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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APPENDIX B

1996 NOTICE OF REPORTABLE RELEASE

NOTIFICATION OF REPORTABLE RELEASE *(Owners and Operators)*
NOTIFICATION OF CONTAMINATION *(Certified Installers and Inspectors)*

NOTIFICATION OF REPORTABLE RELEASE *(Owners and Operators)*

On August 21, 1993, the Storage Tank Program's Corrective Action Process (CAP) regulations became effective. These regulations establish release reporting requirements for owners and operators of storage tanks and storage tank facilities.

Subsection 245.305(a) of the regulations requires owners or operators to notify the appropriate regional office of the Department as soon as practicable, but no later than 2 hours, after the confirmation of a reportable release.

Subsection 245.305(d) requires owners or operators to provide written notification to the appropriate regional office and to the local municipality, within 15 days of the notice required by Subsection 245.305(a). This form may be used to comply with Subsection 245.305(d).

OWNERS AND OPERATORS (O/O)
PLEASE COMPLETE SECTIONS I, II, IIIA, IIIB, IV, V, VII and VIII.

NOTIFICATION OF CONTAMINATION *(Certified Installers and Inspectors)*

On September 21, 1991, the Storage Tank Program's Certification regulations became effective. These regulations establish standards of performance for certified installers and inspectors of storage tanks and storage tank facilities.

Subsection 245.132(a)(4) of the regulations requires certified installers and inspectors to report to the Department a release of a regulated substance or confirmed or suspected contamination of soil, surface or groundwater from regulated substances observed while performing services as a certified installer or inspector.

This form may be used to comply with Subsection 245.132(a)(4). The Department expects submission of the form within 48 hours of observing suspected or confirmed contamination. Where there is a reportable release, the form may be submitted jointly by the owner, operator, certified installer and certified inspector. In this instance, the form must be received by the appropriate regional office within 15 days of the notice required by Subsection 245.305(a).

CERTIFIED INSTALLERS AND INSPECTORS (I/I)
PLEASE COMPLETE SECTIONS I, II, IIIA, IIIC, VI, VII and VIII.

INSTRUCTIONS

I. **FACILITY INFORMATION** - Record the name, I.D. number and physical location (not P.O. Box) of the facility at which a reportable release has been confirmed or at which suspected or confirmed contamination has been observed. Include the name and phone number of a person to contact at the facility.

II. **OWNER INFORMATION** - Record the name, business address and phone number of the owner of the facility identified in Section I.

III. **REGULATED SUBSTANCE INFORMATION** - Indicate to the best of your knowledge: A) the type of product or products involved; B) the quantity of product or products released; and C) whether the contamination is suspected or confirmed.

IV. **REPORTABLE RELEASE INFORMATION** - Record the date of confirmation of the reportable release, e.g., "08/21/93"; the date and regional office notified; and the date the local municipality (provide name of municipality) was sent a copy of this form. Indicate to the best of your knowledge the extent of contamination resulting from the release of the regulated substance.

V. **INTERIM REMEDIAL ACTIONS** - Indicate the interim remedial actions planned, initiated or completed.

VI. **SUSPECTED/CONFIRMED CONTAMINATION INFORMATION** - Record the date of observation of the suspected or confirmed contamination, e.g., "01/01/94". Indicate to the best of your knowledge the indications of a suspected release or extent of confirmed contamination resulting from the release of the regulated substance.

VII. **ADDITIONAL INFORMATION** - Provide any additional, relevant, available information concerning the reportable release or suspected or confirmed contamination. Include in this section a brief description of the activity that was being conducted when the reportable release was confirmed by the owner or operator or when the suspected/confirmed contamination was observed by the certified installer or inspector, e.g., during a(n) installation, repair or upgrade, removal from service or routine inspection.

VIII. **CERTIFICATION** - Please print your name, and provide your signature and date of signature. If a certified installer/inspector, provide certification number and company certification number.

PLEASE SEND COMPLETED ORIGINAL FORM TO:

PA Department of Environmental Resources
Environmental Cleanup Program
Storage Tank Section
(and the appropriate address below, depending on where the FACILITY is located)

Southeast Region	Northeast Region	Southcentral Region	Northcentral Region	Southwest Region	Northwest Region
Lee Park, Suite 6010 555 North Lane Conshohocken, PA 19428 FAX: 610-832-6259/6260	Cross Valley Centre 667 North River Street Plains, PA 18705 FAX: 717-826-5448	One Ararat Boulevard Harrisburg, PA 17110 FAX: 717-540-7492	200 Pine Street Williamsport, PA 17701 FAX: 717-327-3565	400 Waterfront Drive Pittsburgh, PA 15222 FAX: 412-442-4194	1012 Water Street Meadville, PA 16335 FAX: 814-332-6831
Counties Bucks, Chester, Delaware, Montgomery, Philadelphia	**Counties** Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming	**Counties** Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York	**Counties** Bradford, Cameron, Centre, Clinton, Clearfield, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union	**Counties** Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland	**Counties** Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren

I. FACILITY INFORMATION (Both O/O and I/I)

Facility Name: FORMER ATLANTIC SERVICESTATION
Facility I.D. Number: 100549
Street Address (P.O. Box not acceptable): 610 OLD YORK RD.
City: WARMINSTER
State: PA
Zip Code:
County: BUCKS
Municipality: WARMINSTER
Contact Person: BRAD FISH
Phone Number: (610) 859-5701

II. OWNER INFORMATION (Both O/O and I/I)

Owner Name: SUN COMPANY INC.
Address: 4041 MARKET ST
City: ASTON
Zip Code: 19014
State: PA
Phone Number: (610) 859-5701

ER-BWQ-32: 2/94

III. REGULATED SUBSTANCE INFORMATION

A. Type of Product(s) Involved (Mark All That Apply ☒): Both O/O and I/I		B. Quantity (Gallons) of Product(s) Released: O/O Only	C. Contamination Suspected [S] or Confirmed [C]: I/I Only	
Leaded Gasoline	☐		[S]	[C]
Unleaded Gasoline	☒	UNKNOWN	(S)	[C]
Aviation Gasoline	☐		[S]	[C]
Kerosene	☐		[S]	[C]
Jet Fuel	☐		[S]	[C]
Diesel Fuel	☐		[S]	[C]
New Motor Oil	☐		[S]	[C]
Used Motor Oil	☐		[S]	[C]
Fuel Oil No. 1	☐		[S]	[C]
Fuel Oil No. 2	☐		[S]	[C]
Fuel Oil No. 4	☐		[S]	[C]
Fuel Oil No. 5	☐		[S]	[C]
Fuel Oil No. 6	☐		[S]	[C]
Other (Specify) _____	☐		[S]	[C]
Unknown	☐		[S]	[C]

IV. REPORTABLE RELEASE INFORMATION (O/O Only)

Date Reportable Release was Confirmed: 2 / 27 / 96 (m / d / y)

Date Owner/Operator Verbally Notified Appropriate Regional Office of Reportable Release and Office Notified:

Date 2 / 28 / 96 (m / d / y) Office SOUTH EAST

Date Owner/Operator Sent Copy of this Written Notification to Local Municipality and Name of Municipality Notified:

Date 2 / 29 / 96 (m / d / y) Municipality WARMINSTER TWP

Environmental Impacts (Mark All That Apply ☒):

Soil	☒
Sediment	☐
Surface Water	☐
Ground Water	☐
Water Supplies	☐

V. INTERIM REMEDIAL ACTIONS (O/O Only)

(Mark All That Apply ☒):

	Planned	Initiated	Completed	Not Applicable
Regulated Substance Removed from Storage Tanks	☐	☐	☒	☐
Fire, Explosion and Safety Hazards Mitigated	☐	☐	☒	☐
Contaminated Soil Excavated	☐	☒	☐	☐
Free Product Recovered	☐	☐	☐	☒
Temporary Water Supplies Provided	☐	☐	☐	☒
Other (Specify) _____	☐	☐	☐	☐

VI. SUSPECTED / CONFIRMED CONTAMINATION INFORMATION (I/I Only)

Date of Observation of Suspected/Confirmed Contamination: 2 / 27 / 96 (m / d / y)

Indication of Suspected Contamination (Mark All That Apply ☒):

Unusual Level of Vapors	☒
Erratic Behavior of Product Dispensing Equipment	☐
Release Detection Results Indicate a Release	☐
Discovery of Holes in the Storage Tank	☐
Other (Specify) _____	☐

Extent of Confirmed Contamination (Mark All That Apply ☒):

Product Stained or Product Saturated Soil or Backfill	☒
Ponded Product	☐
Free Product or Sheen on Ponded Water	☐
Free Product or Sheen on the Ground Water Surface	☐
Free Product or Sheen on Surface Water	☐
Other (Specify) _____	☐

VII. ADDITIONAL INFORMATION (Both O/O and I/I)

Include a brief description of the activity that was being conducted when the reportable release was confirmed by the owner or operator or when the suspected/confirmed contamination was observed by the certified installer or inspector, e.g., during a(n) installation, repair or upgrade, removal from service or routine inspection.

WHILE PERFORMING STATION UPGRADE ACTIVITIES 4 CLOSED-IN-PLACE USTs WERE FOUND ALONG WITH AN ABANDONED 550 GALLON HEATING OIL TANK. ALL TANKS WERE REMOVED AND CONFIRMATORY SAMPLES WERE COLLECTED. STRONG VAPORS AND STAINED SOILS WERE OBSERVED DURING EXCAVATION ACTIVITIES. EXCAVATED SOILS WERE PROPERLY DISPOSED OF IN AN APPROVED LANDFILL.

VIII. CERTIFICATION (Both O/O and I/I)

I, JOHN C. KETCHUM, hereby certify, under penalty of law as provided in 18 Pa. C.S.A. §4904(relating to unsworn falsification to authorities) that I am the owner or operator of the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

John C. Ketchum (for Ketch Co) — Signature of Owner or Operator

2-29-96 — Date

I, _____, hereby certify, under penalty of law as provided in 18 Pa. C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified installer who performed tank handling activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Signature of Certified Installer — Date

Installer Certification Number — Company Certification Number

I, _____, hereby certify, under penalty of law as provided in 18 Pa. C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified inspector who performed inspection activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Signature of Certified Inspector — Date

Inspector Certification Number — Company Certification Number

APPENDIX C

ENVIRONMENTAL FIRSTSEARCH™ REPORT BY INFOMAP

InfoMap

Technologies Incorporated

Environmental FirstSearch™ Report

TARGET PROPERTY:

610 YORK ROAD

WARMINSTER PA 18974

Job Number: 010697137

PREPARED FOR:

GES, Inc.

410 Eagleview Blvd., Suite 110

Exton, PA 19341

12-21-05

Tel: (610) 430-7530 *Fax: (610) 430-7535*

Environmental FirstSearch is a registered trademark of FirstSearch Technology Corporation. All rights reserved.

Environmental FirstSearch
Search Summary Report

Target Site: 610 YORK ROAD
WARMINSTER PA 18974

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	10-07-05	1.00	0	0	0	0	1	0	1
CERCLIS	Y	10-07-05	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-01-05	0.50	0	0	0	0	-	0	0
RCRA TSD	Y	09-22-05	0.50	0	0	0	0	-	0	0
RCRA COR	Y	09-22-05	1.00	0	0	0	0	1	0	1
RCRA GEN	Y	06-13-05	0.25	1	2	0	-	-	0	3
ERNS	Y	12-31-04	0.25	0	0	0	-	-	0	0
State Sites	Y	05-16-05	1.00	0	0	0	0	0	0	0
Spills-1990	Y	NA	0.25	0	0	0	-	-	0	0
SWL	Y	06-03-04	0.50	0	0	0	0	-	0	0
REG UST/AST	Y	01-03-05	0.25	1	1	1	-	-	0	3
Leaking UST	Y	12-09-04	0.50	1	0	2	9	-	0	12
State Wells	Y	06-01-98	0.50	0	0	2	8	-	0	10
Federal Wells	Y	05-19-03	0.50	0	0	2	4	-	0	6
- TOTALS -				3	3	7	21	2	0	36

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to InfoMap Technologies, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in InfoMap Technologies's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although InfoMap Technologies uses its best efforts to research the actual location of each site, InfoMap Technologies does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of InfoMap Technologies's services proceeding are signifying an understanding of InfoMap Technologies's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

TOTAL: 36 **GEOCODED:** 36 **NON GEOCODED:** 0 **SELECTED:** 36

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LUST	SUNOCO 0363 5430 1091018/2	610 YORK RD WARMINSTER PA 18974	0.00 –	7
2	RCRAGN	SUNOCO SVC STA PAD987348182/VGN	610 OLD YORK RD WARMINSTER PA 18974	0.00 –	7
3	UST	SUNOCO 0363 5430 09-30778	610 YORK RD WARMINSTER PA 18974	0.00 –	7
4	RCRAGN	HERITAGE CLEANERS PAD047324009/SGN	614 YORK RD WARMINSTER PA 18974	0.02 NE	5
5	RCRAGN	ARCHBISHOP WOOD HIGH SCHOOL PAR000525683/SGN	655 YORK RD WARMINSTER PA 18974	0.07 NE	8
5	UST	ARCHBISHOP WOOD HIGH SCH 09-44276	655 YORK RD WARMINSTER PA 18974	0.07 NE	8
6	FEDWELLS	BK 365 FW-PA-18130/USGS GROUNDWATER INV	PA	0.15 SE	26
7	LUST	JIFFY LUBE 262 0797-2861/4	600 W STREET RD WARMINSTER PA 18974	0.15 SE	10
7	UST	JIFFY LUBE 262 09-40540	600 W STREET RD WARMINSTER PA 18974	0.15 SE	10
8	PWS	WARMINSTER HOSIERY CO 5044	WARMINSTER TWP PA	0.15 SW	24
9	FEDWELLS	BK 1038 FW-PA-18099/USGS GROUNDWATER INV	PA	0.16 NW	27
10	PWS	JONES , C 5062	WARMINSTER TWP PA	0.17 NW	19
11	LUST	PNC MID ATLANTIC BANK 0797-2648/NO	521 N YORK RD WARMINSTER PA 18974	0.18 SE	13
12	FEDWELLS	BK 2561 FW-PA-18143/USGS GROUNDWATER INV	PA	0.31 SE	29
13	FEDWELLS	BK 2560 FW-PA-18144/USGS GROUNDWATER INV	PA	0.31 SE	29
14	LUST	LAFFERTY CHEVROLET 1091269/4	829 W STREET RD WARMINSTER PA 18974	0.34 NW	6
15	LUST	LAFFERTY CHEVROLET 0997-255/NO	829 W STREET RD WARMINSTER TWP PA 18974	0.34 NW	6
15	LUST	LAFFERTY CHEVROLET 0797-3302/NO	829 W STREET RD WARMINSTER PA 18974	0.34 NW	6
16	FEDWELLS	BK 364 FW-PA-17401/USGS GROUNDWATER INV	PA	0.37 NW	25
17	PWS	CHRIST S HOME FOR CHILDREN 6300	WARMINSTER TWP PA	0.37 NW	15

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

TOTAL: 36 **GEOCODED:** 36 **NON GEOCODED:** 0 **SELECTED:** 36

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
18	PWS	CHRIST S HOME FOR CHILDREN 5082	WARMINSTER TWP PA	0.41 NW	16
19	LUST	CHRIST HOME FOR CHILDREN 0198-42/NO	800 YORK RD WARMINSTER TWP PA 18974	0.42 NE	12
20	PWS	WARMINSTER AUTH 7077	WARMINSTER TWP PA	0.43 SW	23
24	LUST	CUMBERLAND GULF 143833 1091117/5	455 W STREET RD WARMINSTER PA 18974	0.44 SE	9
25	LUST	AMOCO GENTLE TOUCH 1098-96/2	440 W STREET RD WARMINSTER PA 18974	0.44 SE	4
25	LUST	WARMINSTER TWP ADM BLDG 0198-75/NO	HENRY AVE & GIBSON AVE WARMINSTER TWP PA 18974	0.45 SW	11
25	LUST	AVELLINOS TIRE SVC CO INC 0797-2305/YES	409 W STREET RD WARMINSTER PA 18974	0.46 SE	3
26	LUST	TOMLINSON & DIPIETRO RESIDENCE 0800-188/OPEN	725 PHILLIPS DR WARMINSTER TWP PA 18974	0.46 SE	14
26	PWS	SMITH ELMER 65076	WARMINSTER TWP PA	0.46 SE	21
27	PWS	WARMINSTER AUTH 5084	WARMINSTER TWP PA	0.47 NE	22
28	PWS	SMITH , ELMER 5036	WARMINSTER TWP PA	0.47 SE	20
29	FEDWELLS	BK 1062 FW-PA-18166/USGS GROUNDWATER INV	PA	0.48 SE	28
30	PWS	GALLAGHER TOM 65070	WARMINSTER TWP PA	0.49 SE	17
31	PWS	GRADWELL , FRANK 5033	WARMINSTER TWP PA	0.50 SE	18
32	NPL	NAVAL AIR DEVELOPMENT CENTER (8 WA PA6170024545/FINAL	ST & JACKSONVILLE RD WARMINSTER PA 18974	0.92 SE	1
34	RCRACOR	CRC INDUSTRIES INC PAD069880029/CA	885 LOUIS DR WARMINSTER PA 18974	0.98 NE	2

Environmental FirstSearch
Site Information Report

Request Date:	12-21-05	**Search Type:**	COORD
Requestor Name:	GES, Inc.	**Job Number:**	010697137
Standard:	ASTM		**Filtered Report**

TARGET ADDRESS: 610 YORK ROAD
WARMINSTER PA 18974

Demographics

Sites:	36	**Non-Geocoded:**	0	**Population:**	NA
Radon:	0.6 - 8.1 PCI/L				

Site Location

	Degrees (Decimal)	**Degrees (Min/Sec)**		**UTMs**
Longitude:	-75.099872	-75:5:60	**Easting:**	491500.522
Latitude:	40.206944	40:12:25	**Northing:**	4450520.731
			Zone:	18

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel

Services:

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Topographical Maps	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 17 **DIST/DIR:** 0.00 -- **MAP ID:** 7

NAME: SUNOCO 0363 5430
ADDRESS: 610 YORK RD
WARMINSTER PA 18974
CONTACT:

REV: 12/09/04
ID1: 1091018
ID2: 09-30778
STATUS: 2
PHONE:

LUST INFORMATION
INCIDENT DESCRIPTION: ATLANTIC 0363 5430
DATE OF RELEASE: 3/1/1996
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 2.Interim Remedial Actions Initiated or Completed - This means that physical activity to remove contaminants is underway or complete
STATUS DATE:

Status Date Info:Date entries for cleanup status 4 and 5 are required. For cleanup status 4 (cleanup completed), this entry represents the date that DEP issued the No Further Action or Liability Protection letter to the responsible party. For cleanup status 5 (inactive), the entry is the date that DEP determines the incident is low priority for corrective action.

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA GENERATOR SITE

SEARCH ID: 4 **DIST/DIR:** 0.00 -- **MAP ID:** 7

NAME: SUNOCO SVC STA
ADDRESS: 610 OLD YORK RD
WARMINSTER PA 18974

CONTACT: SUSAN HICKEY

REV: 9/22/05
ID1: PAD987348182
ID2:
STATUS: VGN
PHONE: 2159776801

SITE INFORMATION

CONTACT INFORMATION: SUSAN HICKEY
1801 MARKET ST 20/10 PC
PHILADELPHIA PA 191031699

PHONE: 2159776801

UNIVERSE INFORMATION:

SNC: N - NO
BOYSNC: N - NO
GPRA PERMIT: N - NO
GPRA POSTCLOSURE: N - NO
GPRA CA: N - NO
GPRA CME: N - NO
PERM PROG: ----

SUBJCA NON TSD: N - NO
CA WRKLD: N - NO
GEN STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

PREM WRKLD: ----
CLOSURE WRKLD: ----
P C WRKLD: ----
SUBJCA: N - NO
SUBJCA TSD 3004: N - NO

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Ignitable waste
Benzene

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 7 **DIST/DIR:** 0.00 -- **MAP ID:** 7

NAME: SUNOCO 0363 5430
ADDRESS: 610 YORK RD
WARMINSTER PA 18974
CONTACT:

REV: 01/03/05
ID1: 09-30778
ID2:
STATUS:
PHONE:

TANK DETAILS

TANK NO.:	001	**TANK TYPE:**	UST
CAPACITY:	12000	**PRODUCT:**	GASOLINE
INSTALLATION DATE:	12/1/1983	**STATUS:**	CURRENTLY IN USE
LAST INSPECTION DATE:		5/24/2001	
TYPE OF INSPECTION:	Facility Operation Inspection (UST only)		

TANK NO.:	002	**TANK TYPE:**	UST
CAPACITY:	12000	**PRODUCT:**	GASOLINE
INSTALLATION DATE:	12/1/1983	**STATUS:**	CURRENTLY IN USE
LAST INSPECTION DATE:		5/24/2001	
TYPE OF INSPECTION:	Facility Operation Inspection (UST only)		

TANK NO.:	003	**TANK TYPE:**	UST
CAPACITY:	12000	**PRODUCT:**	GASOLINE
INSTALLATION DATE:	12/1/1983	**STATUS:**	CURRENTLY IN USE
LAST INSPECTION DATE:		5/24/2001	
TYPE OF INSPECTION:	Facility Operation Inspection (UST only)		

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA GENERATOR SITE

SEARCH ID: 3 **DIST/DIR:** 0.02 NE **MAP ID:** 5

NAME: HERITAGE CLEANERS
ADDRESS: 614 YORK RD
WARMINSTER PA 18974

CONTACT: LOUIS KANTHER

REV: 9/22/05
ID1: PAD047324009
ID2:
STATUS: SGN
PHONE: 2156742085

SITE INFORMATION

CONTACT INFORMATION: LOUIS KANTHER
614 YORK RD
WARMINSTER PA 18974

PHONE: 2156742085

UNIVERSE INFORMATION:

SNC: N - NO
BOYSNC: N - NO
GPRA PERMIT: N - NO
GPRA POSTCLOSURE: N - NO
GPRA CA: N - NO
GPRA CME: N - NO
PERM PROG: -----

PREM WRKLD: -----
CLOSURE WRKLD: -----
P C WRKLD: -----
SUBJCA: N - NO
SUBJCA TSD 3004: N - NO

SUBJCA NON TSD: N - NO
CA WRKLD: N - NO
GEN STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

81232 - DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA GENERATOR SITE

SEARCH ID: 36 **DIST/DIR:** 0.07 NE **MAP ID:** 8

NAME: ARCHBISHOP WOOD HIGH SCHOOL
ADDRESS: 655 YORK RD
WARMINSTER PA 18974
BUCKS
CONTACT: DR FREDERICK J CIAO

REV: 9/22/05
ID1: PAR000525683
ID2:
STATUS: SGN
PHONE: 2156725050

DETAILS NOT AVAILABLE

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 5 **DIST/DIR:** 0.07 NE **MAP ID:** 8

NAME: ARCHBISHOP WOOD HIGH SCH
ADDRESS: 655 YORK RD
WARMINSTER PA 18974
CONTACT:

REV:
ID1: 09-44276
ID2:
STATUS:
PHONE:

	Tanks	Installed	Capacity
CURRENT:	0		
REMOVED:	0		
PERMANENT:	0		
UNKNOWN:	0		
TEMP:	0		
CLOSED:	0		

PRODUCTS:
TANK MATERIAL:
PIPE MATERIAL:

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

FEDERAL WELLS SITE

SEARCH ID: 31 **DIST/DIR:** 0.15 SE **MAP ID:** 26

NAME: BK 365
ADDRESS:
PA
BUCKS PA
CONTACT:

REV: 5/19/03
ID1: FW-PA-18130
ID2: 401217075060001
STATUS: USGS GROUNDWATER INV
PHONE:

SITE INFORMATION

AGENCY:	USGS
SITE ID:	401217075060001
SITE NAME:	BK 365
SITE TYPE :	GROUND-WATER OTHER THAN SPRING
COUNTY :	BUCKS PA
COUNTRY :	US
LAND NET LOCATION DESC:	
LOCATION MAP:	HATBORO
LOCATION MAP SCALE:	24000
GAGE/LAND SURFACE ALTITUDE:	295
METHOD ALTITUDE DETERMINED:	M
ALTITUDE ACCURACY:	5
ALTITUDE DATUM:	NGVD29
HYDROLOGIC UNIT :	LOWER DELAWARE
DRAINAGE BASIN :	
TOPOGRAPHIC SETTING :	VALLEY FLAT (VALLEYS OF ALL SIZES)
AGENCY USE OF SITE :	INVENTORY DATA SITE ONLY
DATE OF FIRST CONSTRUCTION:	19380101
DATE SITE ESTABLISHED:	
DRAINAGE AREA:	
CONTRIBUTING DRAINAGE AREA:	
MEAN GREENWICH TIME OFFSET:	EST
LOCAL STANDARD TIME FLAG:	Y
DATA RELIABILITY CODE :	C
OTHER GW FILES:	YYNYNNNN
TYPE OF GROUNDWATER SITE:	W
PRIMARY AQUIFER :	231SCKN
AQUIFER TYPE :	
WELL_DEPTH VA:	56.0
HOLE DEPTH:	
DEPTH DATA SOURCE:	
PROJECT NUMBER:	444209300

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 12 **DIST/DIR:** 0.15 SE **MAP ID:** 10

NAME: JIFFY LUBE 262
ADDRESS: 600 W STREET RD
WARMINSTER PA 18974
CONTACT:

REV: 12/09/04
ID1: 0797-2861
ID2: 09-40540
STATUS: 4
PHONE:

LUST INFORMATION

INCIDENT DESCRIPTION: JIFFY LUBE 262
DATE OF RELEASE: UNKNOWN
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 4.Cleanup Completed -Removal of contaminants to applicable cleanup standards has been demonstrated to DEP.
STATUS DATE: 12/2/1997

Status Date Info:Date entries for cleanup status 4 and 5 are required. For cleanup status 4 (cleanup completed), this entry represents the date that DEP issued the No Further Action or Liability Protection letter to the responsible party. For cleanup status 5 (inactive), the entry is the date that DEP determines the incident is low priority for corrective action.

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 6 **DIST/DIR:** 0.15 SE **MAP ID:** 10

NAME: JIFFY LUBE 262
ADDRESS: 600 W STREET RD
WARMINSTER PA 18974
CONTACT:

REV: 01/03/05
ID1: 09-40540
ID2:
STATUS:
PHONE:

TANK DETAILS

TANK NO.: 001A
CAPACITY: 275
INSTALLATION DATE: 6/1/1991
LAST INSPECTION DATE:
TYPE OF INSPECTION:

TANK TYPE: AST
PRODUCT: OTHER
STATUS: CURRENTLY IN USE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 29 **DIST/DIR:** 0.15 SW **MAP ID:** 24

NAME: WARMINSTER HOSIERY CO
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 5044
ID2: BK 365
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	UNKNOWN
DATE DRILLED:	1/1/1938
USE OF SITE:	UNUSED
WELL DEPTH:	56
DISCHARGE:	
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	
DIAMETER:	6
WATER USE:	UNUSED
REMARK:	

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

FEDERAL WELLS SITE

SEARCH ID: 32 **DIST/DIR:** 0.16 NW **MAP ID:** 27

NAME: BK 1038
ADDRESS:
PA
BUCKS PA
CONTACT:

REV: 5/19/03
ID1: FW-PA-18099
ID2: 401230075060901
STATUS: USGS GROUNDWATER INV
PHONE:

SITE INFORMATION

AGENCY:	USGS
SITE ID:	401230075060901
SITE NAME:	BK 1038
SITE TYPE :	GROUND-WATER OTHER THAN SPRING
COUNTY :	BUCKS PA
COUNTRY :	US
LAND NET LOCATION DESC:	
LOCATION MAP:	HATBORO
LOCATION MAP SCALE:	24000
GAGE/LAND SURFACE ALTITUDE:	310
METHOD ALTITUDE DETERMINED:	M
ALTITUDE ACCURACY:	5
ALTITUDE DATUM:	NGVD29
HYDROLOGIC UNIT :	CROSSWICKS-NESHAMINY
DRAINAGE BASIN :	
TOPOGRAPHIC SETTING :	HILLTOP
AGENCY USE OF SITE :	INVENTORY DATA SITE ONLY
DATE OF FIRST CONSTRUCTION:	
DATE SITE ESTABLISHED:	
DRAINAGE AREA:	
CONTRIBUTING DRAINAGE AREA:	
MEAN GREENWICH TIME OFFSET:	EST
LOCAL STANDARD TIME FLAG:	Y
DATA RELIABILITY CODE :	C
OTHER GW FILES:	NYNYNNNN
TYPE OF GROUNDWATER SITE:	W
PRIMARY AQUIFER :	231SCKN
AQUIFER TYPE :	
WELL_DEPTH VA:	
HOLE DEPTH:	
DEPTH DATA SOURCE:	
PROJECT NUMBER:	444209300

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 24 **DIST/DIR:** 0.17 NW **MAP ID:** 19

NAME: JONES , C
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 5062
ID2: BK. 1038
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD: USGS - GWSI
QUAD NAME: HATBORO
FORMATION NAME: STOCKTON FORMATION
DRILLER:
DATE DRILLED:
USE OF SITE: WITHDRAWAL
WELL DEPTH:
DISCHARGE:
STATIC LEVEL:
TOP OF CASING:
BOTTOM OF CASING:
DIAMETER:
WATER USE: DOMESTIC
REMARK:

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 16 **DIST/DIR:** 0.18 SE **MAP ID:** 13

NAME: PNC MID ATLANTIC BANK
ADDRESS: 521 N YORK RD
WARMINSTER PA 18974
CONTACT:

REV:
ID1: 0797-2648
ID2:
STATUS: NO
PHONE:

SUBSTANCE RELEASED: HEATING OIL (NO. 2)
CLEANUP COMPLETION DATE:
CLASS: N

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

FEDERAL WELLS SITE

SEARCH ID: 35 **DIST/DIR:** 0.31 SE **MAP ID:** 29

NAME: BK 2561
ADDRESS:
PA
BUCKS PA
CONTACT:

REV: 5/19/03
ID1: FW-PA-18143
ID2: 401214075054502
STATUS: USGS GROUNDWATER INV
PHONE:

SITE INFORMATION

AGENCY:	USGS
SITE ID:	401214075054502
SITE NAME:	BK 2561
SITE TYPE :	GROUND-WATER OTHER THAN SPRING
COUNTY :	BUCKS PA
COUNTRY :	US
LAND NET LOCATION DESC:	
LOCATION MAP:	HATBORO
LOCATION MAP SCALE:	24000
GAGE/LAND SURFACE ALTITUDE:	308
METHOD ALTITUDE DETERMINED:	M
ALTITUDE ACCURACY:	5
ALTITUDE DATUM:	NGVD29
HYDROLOGIC UNIT :	LOWER DELAWARE
DRAINAGE BASIN :	
TOPOGRAPHIC SETTING :	VALLEY FLAT (VALLEYS OF ALL SIZES)
AGENCY USE OF SITE :	INVENTORY DATA SITE ONLY
DATE OF FIRST CONSTRUCTION:	19940414
DATE SITE ESTABLISHED:	19950605
DRAINAGE AREA:	
CONTRIBUTING DRAINAGE AREA:	
MEAN GREENWICH TIME OFFSET:	EST
LOCAL STANDARD TIME FLAG:	Y
DATA RELIABILITY CODE :	C
OTHER GW FILES:	YYYYNNNN
TYPE OF GROUNDWATER SITE:	W
PRIMARY AQUIFER :	231SCKNM
AQUIFER TYPE :	
WELL_DEPTH VA:	300
HOLE DEPTH:	301
DEPTH DATA SOURCE:	S
PROJECT NUMBER:	444223500

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

FEDERAL WELLS SITE

SEARCH ID: 34 **DIST/DIR:** 0.31 SE **MAP ID:** 29

NAME: BK 2560
ADDRESS:
PA
BUCKS PA
CONTACT:

REV: 5/19/03
ID1: FW-PA-18144
ID2: 401214075054501
STATUS: USGS GROUNDWATER INV
PHONE:

SITE INFORMATION

AGENCY:	USGS
SITE ID:	401214075054501
SITE NAME:	BK 2560
SITE TYPE :	GROUND-WATER OTHER THAN SPRING
COUNTY :	BUCKS PA
COUNTRY :	US
LAND NET LOCATION DESC:	
LOCATION MAP:	HATBORO
LOCATION MAP SCALE:	24000
GAGE/LAND SURFACE ALTITUDE:	308
METHOD ALTITUDE DETERMINED:	M
ALTITUDE ACCURACY:	5
ALTITUDE DATUM:	NGVD29
HYDROLOGIC UNIT :	LOWER DELAWARE
DRAINAGE BASIN :	
TOPOGRAPHIC SETTING :	VALLEY FLAT (VALLEYS OF ALL SIZES)
AGENCY USE OF SITE :	INVENTORY DATA SITE ONLY
DATE OF FIRST CONSTRUCTION:	19940404
DATE SITE ESTABLISHED:	19950605
DRAINAGE AREA:	
CONTRIBUTING DRAINAGE AREA:	
MEAN GREENWICH TIME OFFSET:	EST
LOCAL STANDARD TIME FLAG:	Y
DATA RELIABILITY CODE :	C
OTHER GW FILES:	YYYYNNNN
TYPE OF GROUNDWATER SITE:	W
PRIMARY AQUIFER :	231SCKNM
AQUIFER TYPE :	
WELL_DEPTH VA:	87
HOLE DEPTH:	87
DEPTH DATA SOURCE:	S
PROJECT NUMBER:	444223500

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 13 **DIST/DIR:** 0.34 NW **MAP ID:** 6

NAME: LAFFERTY CHEVROLET
ADDRESS: 829 W STREET RD
WARMINSTER PA 18974
CONTACT:

REV: 12/09/04
ID1: 1091269
ID2: 09-27683
STATUS: 4
PHONE:

LUST INFORMATION
INCIDENT DESCRIPTION: LAFFERTY CHEVROLET
DATE OF RELEASE: UNKNOWN
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 5.Inactive - Incidents in this status have not achieved cleanup completed status. However, these incidents have been determined by DEP to be low priority for corrective action as a result of meeting the following criteria: 1.No product in the leaking storage tank system 2.No known free product in the environment 3.Risks to human health and the environment have been mitigated including vapor/fire/explosion hazards, contaminated drinking water supplies, and releases to surface waters 4.Strong potential for receptors to be impacted is not known to exist 5.Responsible party is not performing or planning to perform corrective action 6.The case is at least two (2) years old
STATUS DATE: 12/31/1998

LUST INFORMATION
INCIDENT DESCRIPTION: LAFFERTY CHEVROLET
DATE OF RELEASE: UNKNOWN
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 4.Cleanup Completed -Removal of contaminants to applicable cleanup standards has been demonstrated to DEP.
STATUS DATE: 6/3/1997

Status Date Info:Date entries for cleanup status 4 and 5 are required. For cleanup status 4 (cleanup completed), this entry represents the date that DEP issued the No Further Action or Liability Protection letter to the responsible party. For cleanup status 5 (inactive), the entry is the date that DEP determines the incident is low priority for corrective action.

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 14 **DIST/DIR:** 0.34 NW **MAP ID:** 6

NAME: LAFFERTY CHEVROLET
ADDRESS: 829 W STREET RD
WARMINSTER TWP. PA 18974
CONTACT:

REV:
ID1: 0997-255
ID2:
STATUS: NO
PHONE:

REPORT DATE:
MATERIAL:
LOW CAPACITY:
PRODUCT: FUEL OIL NO. 2

FED REG: F
NUMBER OF TANKS:
HIGH CAPACITY:

TANK REMOVED:
TANK RELEASE:

UNCONTROLLED RELEASE:
PIPING RELEASE:

EMERGENCY:
OVERFILL RELEASE:

REMEDIATION:
REFERRED:
COMMENT:

COMPLETE: NO

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 15 **DIST/DIR:** 0.34 NW **MAP ID:** 6

NAME: LAFFERTY CHEVROLET
ADDRESS: 829 W STREET RD
WARMINSTER PA 18974
CONTACT:

REV:
ID1: 0797-3302
ID2:
STATUS: NO
PHONE:

SUBSTANCE RELEASED: FUEL OIL NO. 2
CLEANUP COMPLETION DATE:
CLASS: N

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

FEDERAL WELLS SITE

SEARCH ID: 30 **DIST/DIR:** 0.37 NW **MAP ID:** 25

NAME: BK 364
ADDRESS:
PA
BUCKS PA
CONTACT:

REV: 5/19/03
ID1: FW-PA-17401
ID2: 401244075060401
STATUS: USGS GROUNDWATER INV
PHONE:

SITE INFORMATION

AGENCY:	USGS
SITE ID:	401244075060401
SITE NAME:	BK 364
SITE TYPE :	GROUND-WATER OTHER THAN SPRING
COUNTY :	BUCKS PA
COUNTRY :	US
LAND NET LOCATION DESC:	
LOCATION MAP:	HATBORO
LOCATION MAP SCALE:	24000
GAGE/LAND SURFACE ALTITUDE:	300
METHOD ALTITUDE DETERMINED:	M
ALTITUDE ACCURACY:	5
ALTITUDE DATUM:	NGVD29
HYDROLOGIC UNIT :	LOWER DELAWARE
DRAINAGE BASIN :	
TOPOGRAPHIC SETTING :	HILLSIDE (SLOPE)
AGENCY USE OF SITE :	INVENTORY DATA SITE ONLY
DATE OF FIRST CONSTRUCTION:	19320101
DATE SITE ESTABLISHED:	
DRAINAGE AREA:	
CONTRIBUTING DRAINAGE AREA:	
MEAN GREENWICH TIME OFFSET:	EST
LOCAL STANDARD TIME FLAG:	Y
DATA RELIABILITY CODE :	C
OTHER GW FILES:	YYYYNNNN
TYPE OF GROUNDWATER SITE:	W
PRIMARY AQUIFER :	231SCKN
AQUIFER TYPE :	
WELL_DEPTH VA:	200
HOLE DEPTH:	
DEPTH DATA SOURCE:	
PROJECT NUMBER:	444209300

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 20 **DIST/DIR:** 0.37 NW **MAP ID:** 15

NAME: CHRIST S HOME FOR CHILDREN
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 6300
ID2: BK 364
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	JOHN WILEY
DATE DRILLED:	1/1/1932
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	200
DISCHARGE:	35
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	
DIAMETER:	6
WATER USE:	DOMESTIC
REMARK:	

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 21 **DIST/DIR:** 0.41 NW **MAP ID:** 16

NAME: CHRIST S HOME FOR CHILDREN
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 5082
ID2: BK 363
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	JOHN O DONNELL & SON
DATE DRILLED:	1/1/1915
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	161
DISCHARGE:	75
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	12
DIAMETER:	6
WATER USE:	PUBLIC SUPPLY
REMARK:	

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	JOHN O DONNELL & SON
DATE DRILLED:	1/1/1915
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	161
DISCHARGE:	
STATIC LEVEL:	90
TOP OF CASING:	0
BOTTOM OF CASING:	12
DIAMETER:	6
WATER USE:	PUBLIC SUPPLY
REMARK:	

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 10 **DIST/DIR:** 0.42 NE **MAP ID:** 12

NAME: CHRIST HOME FOR CHILDREN
ADDRESS: 800 YORK RD
WARMINSTER TWP. PA 18974

CONTACT:

REV:
ID1: 0198-42
ID2:
STATUS: NO
PHONE:

DETAILS NOT AVAILABLE

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 28 **DIST/DIR:** 0.43 SW **MAP ID:** 23

NAME: WARMINSTER AUTH
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 7077
ID2: BK 692
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD: USGS - GWSI
QUAD NAME: HATBORO
FORMATION NAME: STOCKTON FORMATION
DRILLER: UNKNOWN
DATE DRILLED: 1/1/1954
USE OF SITE: WITHDRAWAL
WELL DEPTH: 300
DISCHARGE:
STATIC LEVEL: 13
TOP OF CASING: 0
BOTTOM OF CASING: 63
DIAMETER: 10
WATER USE: PUBLIC SUPPLY
REMARK:

SOURCE OF RECORD: USGS - GWSI
QUAD NAME: HATBORO
FORMATION NAME: STOCKTON FORMATION
DRILLER: UNKNOWN
DATE DRILLED: 1/1/1954
USE OF SITE: WITHDRAWAL
WELL DEPTH: 300
DISCHARGE: 282
STATIC LEVEL: 13
TOP OF CASING: 0
BOTTOM OF CASING: 44
DIAMETER: 14
WATER USE: PUBLIC SUPPLY
REMARK:

SOURCE OF RECORD: USGS - GWSI
QUAD NAME: HATBORO
FORMATION NAME: STOCKTON FORMATION
DRILLER: UNKNOWN
DATE DRILLED: 1/1/1954
USE OF SITE: WITHDRAWAL
WELL DEPTH: 300
DISCHARGE: 282
STATIC LEVEL: 13
TOP OF CASING: 0
BOTTOM OF CASING: 63
DIAMETER: 10
WATER USE: PUBLIC SUPPLY
REMARK:

SOURCE OF RECORD: USGS - GWSI
QUAD NAME: HATBORO

- Continued on next page -

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 28 **DIST/DIR:** 0.43 SW **MAP ID:** 23

NAME: WARMINSTER AUTH
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 7077
ID2: BK 692
STATUS:
PHONE:

FORMATION NAME: STOCKTON FORMATION
DRILLER: UNKNOWN
DATE DRILLED: 1/1/1954
USE OF SITE: WITHDRAWAL
WELL DEPTH: 300
DISCHARGE:
STATIC LEVEL: 13
TOP OF CASING: 0
BOTTOM OF CASING: 44
DIAMETER: 14
WATER USE: PUBLIC SUPPLY
REMARK:

WATER QUALITY INFORMATION

DATE: 8/17/1956 **REMARK:** 22 SILICA DISSOLVED (MG/L AS SIO2)

DATE: 8/17/1956 **REMARK:** 13 DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)

DATE: 8/17/1956 **REMARK:** 300 DEPTH TO BOTTOM OF SAMPLE INTERVAL (FEET BELOW LSD)

DATE: 8/17/1956 **REMARK:** 300 DEPTH OF WELL, TOTAL (FEET)

DATE: 8/17/1956 **REMARK:** 300 ELEVATION OF LAND SURFACE DATUM (LSD) (FEET NGVD)

DATE: 8/17/1956 **REMARK:** 43 NITROGEN, NITRATE, DISSOLVED (MG/L AS NO3)

DATE: 8/17/1956 **REMARK:** 140 ALUMINUM DISSOLVED (UG/L AS AL)

DATE: 7/25/1979 **REMARK:** 420 SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE

DATE: 8/17/1956 **REMARK:** 0.1 FLUORIDE DISSOLVED (MG/L AS F)

DATE: 8/17/1956 **REMARK:** 30 SULFATE DISSOLVED (MG/L AS SO4)

DATE: 8/17/1956 **REMARK:** 16 CHLORIDE DISSOLVED (MG/L AS CL)

DATE: 8/17/1956 **REMARK:** 14 SODIUM PLUS POTASSIUM DISSOLVED (MG/L AS NA)

DATE: 8/17/1956 **REMARK:** 202 SOLIDS, RESIDUE ON EVAPORATION AT 180 DEG C, DISSOLVED (MG/L)

DATE: 7/25/1979 **REMARK:** 80010 AGENCY ANALYZING SAMPLE (CODE NUMBER)

DATE: 8/17/1956 **REMARK:** 58 NONCARBONATE HARDNESS WATER WHOLE TOTAL, FIELD, (MG/L AS CA CO3)

DATE: 7/25/1979 **REMARK:** 6.7 PH, WATER, WHOLE, FIELD, STANDARD UNITS

DATE: 7/25/1979 **REMARK:** 38 CARBON DIOXIDE DISSOLVED (MG/L AS CO2)

DATE: 7/25/1979 **REMARK:** 98 ALKALINITY, WATER, WHOLE, TOTAL, FIXED ENDPOINT TITRATION, FIELD, MG/L AS CACO3

DATE: 7/25/1979 **REMARK:** 4.1 NITROGEN DISSOLVED (MG/L AS N)

- Continued on next page -

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 28 **DIST/DIR:** 0.43 SW **MAP ID:** 23

NAME: WARMINSTER AUTH
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 7077
ID2: BK 692
STATUS:
PHONE:

DATE: 7/25/1979 **REMARK:** 0 NITROGEN ORGANIC DISSOLVED (MG/L AS N)

DATE: 7/25/1979 **REMARK:** 0.01 NITROGEN AMMONIA DISSOLVED (MG/L AS N)

DATE: 7/25/1979 **REMARK:** 0.01 NITROGEN, NITRITE, DISSOLVED, MG/L AS N

DATE: 7/25/1979 **REMARK:** 4.1 NITROGEN NITRATE DISSOLVED (MG/L AS N)

DATE: 7/25/1979 **REMARK:** < 0.1 NITROGEN AMMONIA PLUS ORGANIC DISSOLVED (MG/L AS N)

DATE: 7/25/1979 **REMARK:** 4.1 NITROGEN NITRITE PLUS NITRATE DISSOLVED (MG/L AS N)

DATE: 7/25/1979 **REMARK:** 0.18 PHOSPHATE ORTHO DISSOLVED (MG/L AS PO4)

DATE: 7/25/1979 **REMARK:** 0.12 PHOSPHORUS DISSOLVED (MG/L AS P)

DATE: 7/25/1979 **REMARK:** 16 WATER TEMPERATURE, DEGREES CELSIUS

DATE: 7/25/1979 **REMARK:** 1.1 POTASSIUM DISSOLVED (MG/L AS K)

DATE: 8/17/1956 **REMARK:** 0 CARBONATE, WATER, WHOLE, FIXED ENDPOINT TITRATION, FIELD, MG/L AS CO3

DATE: 7/25/1979 **REMARK:** 18 NITROGEN, NITRATE, DISSOLVED (MG/L AS NO3)

DATE: 8/17/1956 **REMARK:** 56 BICARBONATE, WATER, WHOLE, FIXED ENDPOINT TITRATION, FIELD, MG/L AS HCO3

DATE: 7/25/1979 **REMARK:** 0.06 PHOSPHORUS ORTHOPHOSPHATE DISSOLVED (MG/L AS P)

DATE: 8/17/1956 **REMARK:** 46 ALKALINITY, WATER, WHOLE, TOTAL, FIXED ENDPOINT TITRATION, FIELD, MG/L AS CACO3

DATE: 8/17/1956 **REMARK:** 0.9 CARBON DIOXIDE DISSOLVED (MG/L AS CO2)

DATE: 8/17/1956 **REMARK:** 8 PH, WATER, WHOLE, FIELD, STANDARD UNITS

DATE: 7/25/1979 **REMARK:** < 20 CHROMIUM DISSOLVED (UG/L AS CR)

DATE: 7/25/1979 **REMARK:** < 2 CADMIUM DISSOLVED (UG/L AS CD)

DATE: 7/25/1979 **REMARK:** 2 ARSENIC DISSOLVED (UG/L AS AS)

DATE: 7/25/1979 **REMARK:** 24 SILICA DISSOLVED (MG/L AS SIO2)

DATE: 7/25/1979 **REMARK:** 0.1 FLUORIDE DISSOLVED (MG/L AS F)

DATE: 8/17/1956 **REMARK:** 7 MAGNESIUM DISSOLVED (MG/L AS MG)

DATE: 7/25/1979 **REMARK:** 30 CHLORIDE DISSOLVED (MG/L AS CL)

DATE: 8/17/1956 **REMARK:** 30 CALCIUM DISSOLVED (MG/L AS CA)

DATE: 7/25/1979 **REMARK:** 17 SODIUM PLUS POTASSIUM DISSOLVED (MG/L AS NA)

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Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 28 **DIST/DIR:** 0.43 SW **MAP ID:** 23

NAME: WARMINSTER AUTH
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 7077
ID2: BK 692
STATUS:
PHONE:

DATE: 7/25/1979 **REMARK:** 18 SODIUM, PERCENT

DATE: 7/25/1979 **REMARK:** 0.6 SODIUM ADSORPTION RATIO

DATE: 7/25/1979 **REMARK:** 16 SODIUM DISSOLVED (MG/L AS NA)

DATE: 7/25/1979 **REMARK:** 11 MAGNESIUM DISSOLVED (MG/L AS MG)

DATE: 7/25/1979 **REMARK:** 43 CALCIUM DISSOLVED (MG/L AS CA)

DATE: 7/25/1979 **REMARK:** 55 NONCARBONATE HARDNESS WATER WHOLE TOTAL, FIELD, (MG/L AS CA CO3)

DATE: 7/25/1979 **REMARK:** 150 HARDNESS TOTAL (MG/L AS CA03)

DATE: 7/25/1979 **REMARK:** 0 CARBON ORGANIC SUSPENDED TOTAL (MG/L AS C)

DATE: 7/25/1979 **REMARK:** 2.9 CARBON ORGANIC DISSOLVED (MG/L AS C)

DATE: 8/17/1956 **REMARK:** 9.71 NITROGEN NITRATE DISSOLVED (MG/L AS N)

DATE: 8/17/1956 **REMARK:** 100 HARDNESS TOTAL (MG/L AS CA03)

DATE: 7/25/1979 **REMARK:** 31 SULFATE DISSOLVED (MG/L AS SO4)

DATE: 8/17/1956 **REMARK:** 1 COLOR (PLATINUM-COBALT)

DATE: 8/17/1956 **REMARK:** 292 SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE

DATE: 8/17/1956 **REMARK:** 282 FLOW RATE INSTANTANEOUS (GALLONS/MINUTE)

DATE: 8/17/1956 **REMARK:** 282 FLOW RATE, YIELD OF WELL, (GALLONS/MINUTE)

DATE: 7/25/1979 **REMARK:** < 0.5 MERCURY, DISSOLVED (UG/L AS HG)

DATE: 7/25/1979 **REMARK:** 0.03 NITROGEN, NITRITE, DISSOLVED (MG/L AS NO2)

DATE: 7/25/1979 **REMARK:** 4 COPPER DISSOLVED (UG/L AS CU)

DATE: 7/25/1979 **REMARK:** 0.39 SOLIDS, DISSOLVED (TONS PER ACRE-FOOT)

DATE: 7/25/1979 **REMARK:** 233 SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)

DATE: 7/25/1979 **REMARK:** 287 SOLIDS, RESIDUE ON EVAPORATION AT 180 DEG C, DISSOLVED (MG/L)

DATE: 7/25/1979 **REMARK:** < 10 MANGANESE DISSOLVED (UG/L AS MN)

DATE: 7/25/1979 **REMARK:** 8 LEAD DISSOLVED (UG/L AS PB)

DATE: 7/25/1979 **REMARK:** < 10 IRON DISSOLVED (UG/L AS FE)

DATE: 7/25/1979 **REMARK:** 0.01 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 11 **DIST/DIR:** 0.44 SE **MAP ID:** 9

NAME: CUMBERLAND GULF 143833
ADDRESS: 455 W STREET RD
WARMINSTER PA 18974
CONTACT:

REV: 12/09/04
ID1: 1091117
ID2: 09-09112
STATUS: 5
PHONE:

LUST INFORMATION
INCIDENT DESCRIPTION: CUMBERALND GULF 143833
DATE OF RELEASE: UNKNOWN
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 5.Inactive - Incidents in this status have not achieved cleanup completed status. However, these incidents have been determined by DEP to be low priority for corrective action as a result of meeting the following criteria: 1.No product in the leaking storage tank system 2.No known free product in the environment 3.Risks to human health and the environment have been mitigated including vapor/fire/explosion hazards, contaminated drinking water supplies, and releases to surface waters 4.Strong potential for receptors to be impacted is not known to exist 5.Responsible party is not performing or planning to perform corrective action 6.The case is at least two (2) years old
STATUS DATE: 12/31/1998

LUST INFORMATION
INCIDENT DESCRIPTION: CUMBERALND GULF 143833
DATE OF RELEASE: UNKNOWN
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 5.Inactive - Incidents in this status have not achieved cleanup completed status. However, these incidents have been determined by DEP to be low priority for corrective action as a result of meeting the following criteria: 1.No product in the leaking storage tank system 2.No known free product in the environment 3.Risks to human health and the environment have been mitigated including vapor/fire/explosion hazards, contaminated drinking water supplies, and releases to surface waters 4.Strong potential for receptors to be impacted is not known to exist 5.Responsible party is not performing or planning to perform corrective action 6.The case is at least two (2) years old
STATUS DATE: 12/31/1998

Status Date Info:Date entries for cleanup status 4 and 5 are required. For cleanup status 4 (cleanup completed), this entry represents the date that DEP issued the No Further Action or Liability Protection letter to the responsible party. For cleanup status 5 (inactive), the entry is the date that DEP determines the incident is low priority for corrective action.

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 8 **DIST/DIR:** 0.44 SE **MAP ID:** 4

NAME: AMOCO GENTLE TOUCH
ADDRESS: 440 W STREET RD
WARMINSTER PA 18974
BUCKS
CONTACT:

REV: 12/09/04
ID1: 1098-96
ID2: 09-08612
STATUS: 2
PHONE:

LUST INFORMATION
INCIDENT DESCRIPTION: AMOCO 4343
DATE OF RELEASE: 7/6/1998
TYPE: USTPT-UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
STATUS: 2.Interim Remedial Actions Initiated or Completed - This means that physical activity to remove contaminants is underway or complete
STATUS DATE:

Status Date Info:Date entries for cleanup status 4 and 5 are required. For cleanup status 4 (cleanup completed), this entry represents the date that DEP issued the No Further Action or Liability Protection letter to the responsible party. For cleanup status 5 (inactive), the entry is the date that DEP determines the incident is low priority for corrective action.

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 19 **DIST/DIR:** 0.45 SW **MAP ID:** 11

NAME: WARMINSTER TWP ADM BLDG
ADDRESS: HENRY AVE & GIBSON AVE
WARMINSTER TWP. PA 18974
CONTACT:

REV:
ID1: 0198-75
ID2:
STATUS: NO
PHONE:

DETAILS NOT AVAILABLE

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 9 **DIST/DIR:** 0.46 SE **MAP ID:** 3

NAME: AVELLINOS TIRE SVC CO INC
ADDRESS: 409 W STREET RD
WARMINSTER PA 18974
CONTACT:

REV:
ID1: 0797-2305
ID2:
STATUS: YES
PHONE:

SUBSTANCE RELEASED: USED MOTOR OIL
CLEANUP COMPLETION DATE: 5/2/97
CLASS: N

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 18 **DIST/DIR:** 0.46 SE **MAP ID:** 14

NAME: TOMLINSON & DIPIETRO RESIDENCE
ADDRESS: 725 PHILLIPS DR
WARMINSTER TWP. PA
CONTACT:

REV: 08-21-00
ID1: 0800-188
ID2:
STATUS: OPEN
PHONE:

SUBSTANCE RELEASED: FUEL OIL NO. 2
CLEANUP COMPLETION DATE:
CLASS: N

STATE WELLS SITE

SEARCH ID: 26 **DIST/DIR:** 0.46 SE **MAP ID:** 21

NAME: SMITH ELMER
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 65076
ID2: X 1617
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	PAGS WWI PAPER
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	F E BUEHLER & SON
DATE DRILLED:	1/1/1970
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	95
DISCHARGE:	
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	41
DIAMETER:	6
WATER USE:	DOMESTIC
REMARK:	

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 27 **DIST/DIR:** 0.47 NE **MAP ID:** 22

NAME: WARMINSTER AUTH
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 5084
ID2: BK 1129
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	W ROLLIN RAAB & SON INC
DATE DRILLED:	2/9/1980
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	400
DISCHARGE:	
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	50
DIAMETER:	8
WATER USE:	PUBLIC SUPPLY
REMARK:	

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	W ROLLIN RAAB & SON INC
DATE DRILLED:	2/9/1980
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	400
DISCHARGE:	
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	
DIAMETER:	12
WATER USE:	PUBLIC SUPPLY
REMARK:	

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 25 **DIST/DIR:** 0.47 SE **MAP ID:** 20

NAME: SMITH , ELMER
ADDRESS:
WARMINSTER TWP. PA

CONTACT:

REV: 08/010/99
ID1: 5036
ID2: BK 1062
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	F E BUEHLER & SON
DATE DRILLED:	4/17/1970
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	95
DISCHARGE:	
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	40
DIAMETER:	6
WATER USE:	DOMESTIC
REMARK:	

WATER QUALITY INFORMATION

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

FEDERAL WELLS SITE

SEARCH ID: 33 **DIST/DIR:** 0.48 SE **MAP ID:** 28

NAME: BK 1062
ADDRESS:
PA
BUCKS PA
CONTACT:

REV: 5/19/03
ID1: FW-PA-18166
ID2: 401209075053501
STATUS: USGS GROUNDWATER INV
PHONE:

SITE INFORMATION

AGENCY:	USGS
SITE ID:	401209075053501
SITE NAME:	BK 1062
SITE TYPE :	GROUND-WATER OTHER THAN SPRING
COUNTY :	BUCKS PA
COUNTRY :	US
LAND NET LOCATION DESC:	
LOCATION MAP:	HATBORO
LOCATION MAP SCALE:	24000
GAGE/LAND SURFACE ALTITUDE:	315
METHOD ALTITUDE DETERMINED:	M
ALTITUDE ACCURACY:	5
ALTITUDE DATUM:	NGVD29
HYDROLOGIC UNIT :	CROSSWICKS-NESHAMINY
DRAINAGE BASIN :	
TOPOGRAPHIC SETTING :	HILLSIDE (SLOPE)
AGENCY USE OF SITE :	INVENTORY DATA SITE ONLY
DATE OF FIRST CONSTRUCTION:	19700417
DATE SITE ESTABLISHED:	
DRAINAGE AREA:	
CONTRIBUTING DRAINAGE AREA:	
MEAN GREENWICH TIME OFFSET:	EST
LOCAL STANDARD TIME FLAG:	Y
DATA RELIABILITY CODE :	C
OTHER GW FILES:	YYNYNNNN
TYPE OF GROUNDWATER SITE:	W
PRIMARY AQUIFER :	231SCKN
AQUIFER TYPE :	
WELL_DEPTH VA:	95.0
HOLE DEPTH:	
DEPTH DATA SOURCE:	
PROJECT NUMBER:	444209300

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 22 **DIST/DIR:** 0.49 SE **MAP ID:** 17

NAME: GALLAGHER TOM
ADDRESS:
WARMINSTER TWP. PA

CONTACT:

REV: 08/010/99
ID1: 65070
ID2: 6192N
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	PAGS WWI PAPER
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	
DATE DRILLED:	11/29/1985
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	100
DISCHARGE:	12
STATIC LEVEL:	
TOP OF CASING:	0
BOTTOM OF CASING:	30
DIAMETER:	6
WATER USE:	DOMESTIC
REMARK:	

WATER QUALITY INFORMATION

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

STATE WELLS SITE

SEARCH ID: 23 **DIST/DIR:** 0.50 SE **MAP ID:** 18

NAME: GRADWELL , FRANK
ADDRESS:
WARMINSTER TWP. PA
CONTACT:

REV: 08/010/99
ID1: 5033
ID2: BK 1049
STATUS:
PHONE:

WELL INFORMATION

SOURCE OF RECORD:	USGS - GWSI
QUAD NAME:	HATBORO
FORMATION NAME:	STOCKTON FORMATION
DRILLER:	UNKNOWN
DATE DRILLED:	1/1/1935
USE OF SITE:	WITHDRAWAL
WELL DEPTH:	40
DISCHARGE:	
STATIC LEVEL:	8.76
TOP OF CASING:	0
BOTTOM OF CASING:	
DIAMETER:	8
WATER USE:	DOMESTIC
REMARK:	

WATER QUALITY INFORMATION

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

NPL SITE

SEARCH ID: 1 **DIST/DIR:** 0.92 SE **MAP ID:** 1

NAME: NAVAL AIR DEVELOPMENT CENTER (8 WASTE AREAS)
ADDRESS: ST & JACKSONVILLE RD
WARMINSTER TOWNSHIP PA 18974
CONTACT: RPM TEST

REV: 10/7/05
ID1: PA6170024545
ID2: 0302466
STATUS: FINAL
PHONE:

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY:
SITE PROPOSED BY:
FINAL LIST BY:

DISCOVERY DATE:
PROPOSED DATE: 06-01-86
FINAL LIST DATE: 10-04-89

ACTIVITIES: WASTES GENERATED DURING AIRCRAFT MAINTAINENCE AND REPAIR

CONTAMINANTS: CHLORINATED VOCS, TCE, PCE, CARBON TETRACHLORIDE
SOURCE OF CONTAMINATION: 8 WASTE AREAS COVERING MORE THAN 2 ACRES

CONTAMINATED: GROUDWATER, SOIL
THREATENED:

EVENT TYPE
SITE DISCOVERY BY:
SITE PROPOSED BY:
FINAL LIST BY:

DISCOVERY DATE:
PROPOSED DATE: 06-01-86
FINAL LIST DATE: 10-04-89

ACTIVITIES: WASTES GENERATED DURING AIRCRAFT MAINTAINENCE AND REPAIR

CONTAMINANTS: CHLORINATED VOCS, TCE, PCE, CARBON TETRACHLORIDE
SOURCE OF CONTAMINATION: 8 WASTE AREAS COVERING MORE THAN 2 ACRES

CONTAMINATED: GROUDWATER, SOIL
THREATENED:

SITE DESCRIPTION

Conditions at proposal (June 10, 1986): The Naval Air Development Center (NADC) covers 734 acres in Warminster Township, Bucks County, Pennsylvania. NADC was commissioned in 1944. Its main mission is research, development, testing, and evaluation for naval aircraft systems. The center also conducts studies in antisubmarine warfare systems and software development.

Waste-generating activities include aircraft maintenance and repair, pest control, fire-fighting training, machine and plating shop operations, spray painting, and various materials research and testing activities in NADC laboratories. Wastes generated include paints, solvents, industrial waste water treatment sludge, and waste oils. Eight waste areas covering more than 2 acres are included in this NPL site.

Navy contractors detected 1,1-dichloroethane, chromium, and nickel in ground water on the base. No significant contamination was detected in nearby surface water. The waste areas potentially affect the Stockton Formation aquifer, which provides water for over 100,000 persons within 3 miles of the site. Local surface water bodies are used for recreational and industrial purposes.

NADC is participating in the Installation Restoration Program, established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from hazardous materials. The Navy has completed Phase I (records search) and Phase II (confirmation study). As part of these efforts, NADC s contractor installed monitoring wells and completed a ground water quality study. Ground water continues to be monitored.

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

NPL SITE

SEARCH ID: 1 **DIST/DIR:** 0.92 SE **MAP ID:** 1

NAME: NAVAL AIR DEVELOPMENT CENTER (8 WASTE AREAS)
ADDRESS: ST & JACKSONVILLE RD
WARMINSTER TOWNSHIP PA 18974

CONTACT: RPM TEST

REV: 10/7/05
ID1: PA6170024545
ID2: 0302466
STATUS: FINAL
PHONE:

Status (October 4, 1989): The Navy has drafted a workplan for a remedial investigation to determine the type and extent of contamination at the site. EPA, the Pennsylvania Department of Environmental Resources, and the Navy are negotiating a CERCLA Section 120 Interagency Agreement for oversight of all CERCLA activities at NADC.

CONSTRUCTION COMPLETED DATE: 09/28/2000
CONSTRUCTION COMPLETED DATE: 09/28/2000
FINAL DATE: 10/04/1989

FINAL DATE: 10/04/1989

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA COR SITE

SEARCH ID: 2 **DIST/DIR:** 0.98 NE **MAP ID:** 2

NAME: CRC INDUSTRIES INC
ADDRESS: 885 LOUIS DR
WARMINSTER PA 18974

CONTACT: MICHELLE MILBURN

REV: 9/22/05
ID1: PAD069880029
ID2:
STATUS: CA
PHONE: 2154426224

SITE INFORMATION

CONTACT INFORMATION: ALLEN_B REED
885 LOUIS DRIVE
WARMINSTER PA 18974

PHONE: 2156744300

CONTACT INFORMATION: JON BROWN
885 LOUIS DR
WARMINSTER PA 18974

PHONE: 2156744300

UNIVERSE INFORMATION:

SNC: N - NO
BOYSNC: N - NO
GPRA PERMIT: N - NO
GPRA POSTCLOSURE: N - NO
GPRA CA: N - NO
GPRA CME: Y
PERM PROG: --S-

PREM WRKLD: -----
CLOSURE WRKLD: -----
P C WRKLD: -----
SUBJCA: N - NO
SUBJCA TSD 3004: N - NO

SUBJCA NON TSD: Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
CA WRKLD: N - NO
GEN STATUS: LQG - LARGE QUANTITY GENERATORS: GENERATES MORE THAN 1000 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

325998 - ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING
32599 - ALL OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 9/14/1994
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 6/9/1989
TYPE: 120 - WRITTEN INFORMAL

- Continued on next page -

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA COR SITE

SEARCH ID: 2 **DIST/DIR:** 0.98 NE **MAP ID:** 2

NAME: CRC INDUSTRIES INC
ADDRESS: 885 LOUIS DR
WARMINSTER PA 18974
CONTACT: MICHELLE MILBURN

REV: 9/22/05
ID1: PAD069880029
ID2:
STATUS: CA
PHONE: 2154426224

AGENCY: S - STATE **DATE:** 5/6/1988
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 5/19/1997
TYPE: 120 - WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001 **RESPONSIBLE:** S - STATE
DETERMINED: 5/4/1988 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 3/7/1990
TYPE: DOT - TSD OTHER REQUIREMENTS (OVERSIGHT LEVEL)

VIOLATION NUMBER: 0002 **RESPONSIBLE:** S - STATE
DETERMINED: 5/15/1989 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 3/7/1990
TYPE: DOT - TSD OTHER REQUIREMENTS (OVERSIGHT LEVEL)

VIOLATION NUMBER: 0003 **RESPONSIBLE:** S - STATE
DETERMINED: 7/25/1994 **DETERMINED BY:** S - STATE
CITATION: 262.34(a)(3)
RESOLVED: 9/1/1995
TYPE: GPT - GENERATOR PRE-TRANSPORT REQUIREMENTS

VIOLATION NUMBER: 0004 **RESPONSIBLE:** S - STATE
DETERMINED: 7/25/1994 **DETERMINED BY:** S - STATE
CITATION: 265.173(c)
RESOLVED: 9/1/1995
TYPE: GPT - GENERATOR PRE-TRANSPORT REQUIREMENTS

VIOLATION NUMBER: 0005 **RESPONSIBLE:** S - STATE
DETERMINED: 7/25/1994 **DETERMINED BY:** S - STATE
CITATION: 265.174
RESOLVED: 9/1/1995
TYPE: GPT - GENERATOR PRE-TRANSPORT REQUIREMENTS

VIOLATION NUMBER: 0006 **RESPONSIBLE:** S - STATE
DETERMINED: 7/25/1994 **DETERMINED BY:** S - STATE
CITATION: 265.178
RESOLVED: 9/1/1995
TYPE: GPT - GENERATOR PRE-TRANSPORT REQUIREMENTS

VIOLATION NUMBER: 0007 **RESPONSIBLE:** S - STATE
DETERMINED: 7/25/1994 **DETERMINED BY:** S - STATE
CITATION: 262.34(a)(4)
RESOLVED: 9/1/1995
TYPE: GPT - GENERATOR PRE-TRANSPORT REQUIREMENTS

VIOLATION NUMBER: 0008 **RESPONSIBLE:** S - STATE
DETERMINED: 6/30/1997 **DETERMINED BY:** S - STATE

- Continued on next page -

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA COR SITE

SEARCH ID: 2 **DIST/DIR:** 0.98 NE **MAP ID:** 2

NAME: CRC INDUSTRIES INC
ADDRESS: 885 LOUIS DR
WARMINSTER PA 18974

CONTACT: MICHELLE MILBURN

REV: 9/22/05
ID1: PAD069880029
ID2:
STATUS: CA
PHONE: 2154426224

CITATION: 6018.601
RESOLVED: 11/6/1997
TYPE: GGR - GENERATOR GENERAL REQUIREMENTS

VIOLATION NUMBER: 0009 **RESPONSIBLE:** S - STATE
DETERMINED: 6/30/1997 **DETERMINED BY:** S - STATE
CITATION: 6018.610(1)
RESOLVED: 11/6/1997
TYPE: GGR - GENERATOR GENERAL REQUIREMENTS

VIOLATION NUMBER: 0010 **RESPONSIBLE:** S - STATE
DETERMINED: 6/30/1997 **DETERMINED BY:** S - STATE
CITATION: 696.307
RESOLVED: 11/6/1997
TYPE: GGR - GENERATOR GENERAL REQUIREMENTS

VIOLATION NUMBER: 0011 **RESPONSIBLE:** S - STATE
DETERMINED: 10/31/2000 **DETERMINED BY:** S - STATE
CITATION: 262a.100
RESOLVED: 11/21/2000
TYPE: GRR - GENERATOR RECORD KEEPING REQUIREMENTS

VIOLATION NUMBER: 0012 **RESPONSIBLE:** S - STATE
DETERMINED: 10/31/2000 **DETERMINED BY:** S - STATE
CITATION: 262.34(a)(2)
RESOLVED: 10/31/2000
TYPE: DMC - TSD CONTAINERS REQUIREMENTS

VIOLATION NUMBER: 0013 **RESPONSIBLE:** S - STATE
DETERMINED: 11/19/2002 **DETERMINED BY:** S - STATE
CITATION: 25PAcodeChapter265a.175
RESOLVED:
TYPE: DMC - TSD CONTAINERS REQUIREMENTS

CORRECTIVE ACTION INFORMATION

CA EVENT: CA075LO - CA PRIORITIZATION-LOW CA PRIORITY

HAZARDOUS WASTE INFORMATION:

Ethane, 1,1,1-trichloro- (OR) Methyl chloroform
Thiourea
The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, b
The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a to
The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane
Tetrachloroethylene
Methanol (I) (OR) Methyl alcohol (I)
Selenium
Trichloroethylene
Methyl ethyl ketone

- Continued on next page -

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

RCRA COR SITE

SEARCH ID: 2 **DIST/DIR:** 0.98 NE **MAP ID:** 2

NAME: CRC INDUSTRIES INC
ADDRESS: 885 LOUIS DR
WARMINSTER PA 18974

CONTACT: MICHELLE MILBURN

REV: 9/22/05
ID1: PAD069880029
ID2:
STATUS: CA
PHONE: 2154426224

2-Butanone (I,T) (OR) Methyl ethyl ketone (MEK) (I,T)
Methane, dichloro- (OR) Methylene chloride
Ignitable waste
Benzene, dimethyl- (I,T) (OR) Xylene (I)
Benzene, methyl- (OR) Toluene
Corrosive waste
Cyclohexanone (I)
Ethene, tetrachloro- (OR) Tetrachloroethylene
Mercury

Environmental FirstSearch
Federal Database Descriptions

ASTM Databases:

CERCLIS: ***Comprehensive Environmental Response Compensation and Liability Information System.*** The EPA's database of current and potential Superfund sites currently or previously under investigation. Source: Environmental Protection Agency.

Updated quarterly.

CERCLIS-NFRAP (Archive): ***Comprehensive Environmental Response Compensation and Liability Information System Archived Sites.*** The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Updated quarterly.

ERNS: ***Emergency Response Notification System.*** The EPA's database of emergency response actions. Source: Environmental Protection Agency. Data since January, 2001, has been received from the National Response Center as the EPA no longer maintains this data.

Updated quarterly.

FINDS: ***The Facility Index System.*** The EPA's Index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. Source: Environmental Protection Agency.

Updated semi-annually.

NPL: ***National Priority List.*** The EPA's list of confirmed or proposed Superfund sites. Source: Environmental Protection Agency.

Updated quarterly.

RCRIS: ***Resource Conservation and Recovery Information System.*** The EPA's database of registered hazardous waste generators and treatment, storage and disposal facilities. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List). Source: Environmental Protection Agency.

RCRA TSD: ***Resource Conservation and Recovery Information System Treatment, Storage, and Disposal Facilities.*** The EPA's database of RCRIS sites which treat, store, dispose, or incinerate hazardous waste. This information is also reported in the standard RCRIS detailed data.

ASTM Database Descriptions (continued):

RCRA COR: ***Resource Conservation and Recovery Information System Corrective Action Sites.*** The EPA's database of RCRIS sites with reported corrective action. This information is also reported in the standard RCRIS detailed data.

RCRA GEN: ***Resource Conservation and Recovery Information System Large, Small, and Very Small Quantity Generators.*** The EPA's database of RCRIS sites that create hazardous waste or meet other RCRA requirements. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List).

RCRA NLR: ***Resource Conservation and Recovery Information System sites No Longer Regulated.*** FirstSearch□s proprietary database of Resource Conservation and Recovery Information System□s that the EPA cannot categorize.

All RCRA databases are Updated quarterly

Environmental FirstSearch
Federal Database Descriptions

Non-ASTM Databases:

HMIRS: ***Hazardous Materials Incident Response System.*** This database contains information from the US Department of Transportation regarding materials, packaging, and a description of events for tracked incidents.

Updated quarterly.

NCDB: ***National Compliance Database.*** The National Compliance Data Base System (NCDB) tracks regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts and inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

Updated quarterly

NPDES: ***National Pollution Discharge Elimination System.*** The EPA's database of all permitted facilities receiving and discharging effluents. Source: Environmental Protection Agency.

Updated semi-annually.

NRDB: ***National Radon Database.*** The NRDB was created by the EPA to distribute information regarding the EPA/State Residential Radon Surveys and the National Residential Radon Survey. The data is presented by zipcode in Environmental FirstSearch Reports. Source: National Technical Information Service (NTIS)

Updated Periodically

Nuclear: The Nuclear Regulatory Commission□s (NRC) list of permitted nuclear facilities.

Updated Periodically

PADS: PCB Activity Database System
The EPA's database PCB handlers (generators, transporters, storers and/or disposers) that are required to notify the EPA, the rules being similar to RCRA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

Updated semi-annually.

Receptors: 1995 TIGER census listing of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

Updated Periodically

Non-ASTM Database Descriptions (continued):

RELEASES: ***Air and Surface Water Releases.*** A subset of the EPA's ERNS database which have impacted only air or surface water.

Updated semi-annually.

Soils: This database includes the State Soil Geographic (STATSGO) data for the conterminous United States from the United States Geographical Survey (USGS).. It contains information regarding soil characteristics such as water capacity, percent clay, organic material, permeability, thickness of layers, hydrological characteristics, quality of drainage, surface, slope, liquid limit, and the annual frequency of flooding. National Resources Conservation Services Soil Survey Geographic(SSURGO) database, and the USGS Digital Data Series bedrock data.

Updated annually

TRIS: ***Toxic Release Inventory System.*** The EPA's database of all facilities that have had or may be prone to toxic material releases. Source: Environmental Protection Agency.

Updated semi-annually.

Federal Wells: The United State Geographic Survey(USGS) Groundwater Inventory Sites

Updated annually

Environmental FirstSearch
Pennsylvania Database Descriptions

1. **STATE:** The Pennsylvania Priorities List (SPL) is a priority list of sites which have released or could potentially release hazardous substances into the environment. Under the Hazardous Sites Cleanup Act (HSCA) and CERCLA, the Pennsylvania Department of Environmental Protection is authorized to investigate, assess, and cleanup sites in the Commonwealth regardless of whether or not these sites qualify for cleanup under the Federal Superfund Act.

2. **LUST:** The Pennsylvania List of Confirmed Releases report identifies facilities in the Commonwealth with known releases from above ground or underground storage tanks. In this report, the Pennsylvania Department of Environmental Protection, Bureau of Land Recycling and Waste Management provides pertinent site details such as name and address of the facility, type of substance released, and remediation status.

3. **UST:** The Pennsylvania Department of Environmental Protection, Bureau of Water Quality Management, provides a listing of registered underground storage tanks, known as the Regulated Storage Tank Listing.

4. **SWL:** Solid waste facilities within the Commonwealth are regulated by the Pennsylvania Department of Environmental Protection, Bureau of Waste Management. The lists provided by the DEP and searched in this report include Solid Waste Transfer Stations, Inactive Solid Waste Facilities, and the Solid Waste Inventory Database.

Environmental FirstSearch
Federal Database Sources

CERCLIS: The EPA□s Comprehensive Environmental Response Compensation and Liability Information System database. Updated quarterly

CERCLIS NFRAP: The EPA□s Comprehensive Environmental Response Compensation and Liability Information System archived sites. Updated quarterly

ERNS: The EPA□s Emergency Response Notification System. Updated quarterly

FED OTHER: The EPA□s Section Seven Tracking System. Updated Quarterly

FINDS: The EPA□s Facility Index System. Updated as new data becomes available

HMIRS: The EPA□s hazardous Materials Incident Response System Updated quarterly

NCDB: The EPA□s National Compliance Database. Updated quarterly

NPDES: The EPA□s National Pollution Discharge Elimination System Updated quarterly

NPL: The EPA□s list of confirmed or proposed Superfund Sites Updated quarterly

NRDB: The National Technical Information Service□s National Radon Database
Updated as new data becomes available

NUCLEAR: The Nuclear Regulatory Commission□s list of permitted nuclear facilities. Updated periodically

PADS: The EPA□s PCB handlers database. Updated quarterly

RCRA COR: The EPA□s Resource Conservation and Recovery Information System□s Corrective Action Sites. Updated quarterly

RCRA GEN: The EPA□s Resource Conservation and Recovery Information System□s Generators and Transporters. Updated quarterly

RCRA NLR: FirstSearch□s proprietary database of Resource Conservation and Recovery Information System□s that the EPA cannot categorize. Updated quarterly

RCRA TSD: The EPA□s Resource Conservation and Recovery Information System□s Treatment, Storage, and Disposal facilities. Updated quarterly

RECEPTORS: The 2002 Census listing of schools and hospitals Updated as new data becomes available

RELEASES: The EPA□s ERNS air and surface water releases. Updated quarterly

TRIS: The EPA□s Toxic Release Inventory System. Updated quarterly

Environmental FirstSearch
Pennsylvania Database Sources

BROWNFIELDS (BF)
The Pennsylvania Department of Environmental Protection Agency's Land Recycling Program Act II sites , and sites listed on the PA Sitefinder website.
Updated when available

LEAKING UNDERGROUND STORAGE TANKS (LUST)
The Pennsylvania Department of Environmental Protection Agency's Database of Storage Tank Release Incidents
Updated semi-annually

OTHER (OT)
Not available

PERMITS (PE)
Not available

RELEASES (RL)
Not available

90 SPILLS (SP)
Not available

80 SPILLS (80)
Not available

STATE SITES (ST)
The Pennsylvania Department of Environmental Protection AgencyÕs Hazardous Site Response Actions List (HSCA)
Updated annually

SOLID WASTE LANDFILLS (SWL)
The Pennsylvania Department of Environmental Protection Agency's Database of Active Solid Waste Landfill Facilities
Updated annually

UNDERGROUND STORAGE TANKS (UST)
The Pennsylvania Department of Environmental Protection Agency's database of registered storage tanks
Updated semi-annually

GIS Sources

AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
Not available

AQUIFERS (AQ)
Not available

STATE WELLS (PWS)
The Pennsylvania Topographic and Geological Survey(PaGS) provides The Pennsylvania Ground Water Information System.

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: 610 YORK ROAD
WARMINSTER PA 18974

JOB: 010697137

Street Name	Dist/Dir	Street Name	Dist/Dir
Chestnut St	0.25 SW		
Cypress Rd	0.20 SW		
Evergreen Ave	0.09 SE		
Greene Rd	0.18 SW		
Nemoral St	0.20 SW		
Olive St	0.15 SE		
W Street Rd	0.01 SW		
WEST Street Rd	0.01 SW		
York Rd	0.01 SE		

Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites

610 YORK ROAD, WARMINSTER PA 18974

Source: 2002 U.S. Census TIGER Files

Target Site (Latitude: 40.206944 Longitude: -75.099872) .....

Identified Site, Multiple Sites, Receptor .....

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste .....

Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

610 YORK ROAD, WARMINSTER PA 18974

Source: 2002 U.S. Census TIGER Files

Target Site (Latitude: 40.206944 Longitude: -75.099872) .....

Identified Site, Multiple Sites, Receptor .....

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste .....

Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST

610 YORK ROAD, WARMINSTER PA 18974

Source: 2002 U.S. Census TIGER Files

Target Site (Latitude: 40.206944 Longitude: -75.099872) .....

Identified Site, Multiple Sites, Receptor .....

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste .....

Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

State Wells Sites

610 YORK ROAD, WARMINSTER PA 18974

Source: 2002 U.S. Census TIGER Files

Target Site (Latitude: 40.206944 Longitude: -75.099872) .....

Identified Site, Multiple Sites, Receptor .....

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste .....

Railroads .....

Public Water Supply, DEP Zone II Boundaries .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

Federal Wells Sites

610 YORK ROAD, WARMINSTER PA 18974

Source: 2002 U.S. Census TIGER Files

Target Site (Latitude: 40.206944 Longitude: -75.099872) .....

Identified Site, Multiple Sites, Receptor .....

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste .....

Railroads .....

Federal Wells .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

APPENDIX D

SUBSURFACE DRILLING LOGS

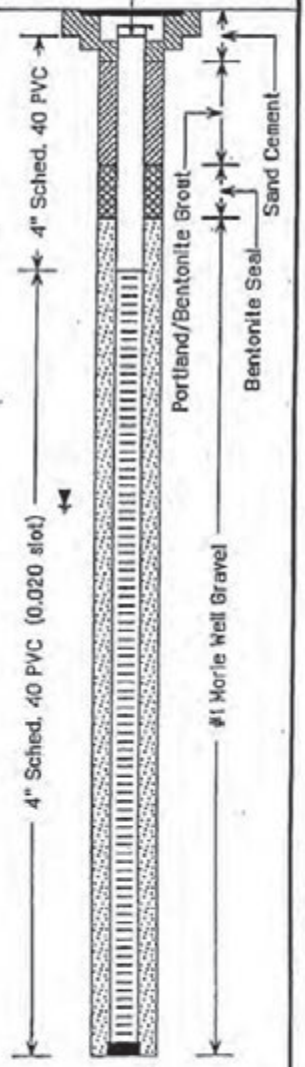
Handex of E. Pennsylvania

WELL LOG: MW-1

Permit #: *N/A*	Drill Date: *3/13/96*	Use: *Monitoring*
Location: *810 York Rd., Warmister, PA*		Owner Loc #: *0363-5430*
Owner: *Sun Company Inc.*		Handex Loc #: *111332-02*
Owner Address: *1801 Market St., Phil., PA*	BORING – Depth: *20 ft.*	Diameter: *4 in.*
Drilling Method: *Air Rotary*	CASING – Length: *4.5 ft.*	Diameter: *4 in.*
Sampling Method: *Split-Spoon/Drill Cuttings*	SCREEN – Length: *15 ft.*	Diameter: *4 in.*
Static Water Level: *9 ft.* *(from TOC 3/13/96)*	WELL – Depth: *20 ft.*	

Depth (ft.)	Sample ID	Sample Depth	Blows/6 in.	P.I.D.	Graphic Log	Geologic Description
5	SS-1H	☒	6,6,5,7	<1		GRAVEL and SAND
						Medium to fine SAND with some Gravel
						SILT and SAND
						Weathered BEDROCK
10	SS-2			5		Competent red/brown SHALE
15	SS-3			7		
20						

Well Diagram



NOTES: H = Sample analyzed at laboratory; ☒ = Sample interval/recovery; ⧩ = Static Water Level (from TOC)

Geologist: J. Goudsward

Driller: B.L. Myers

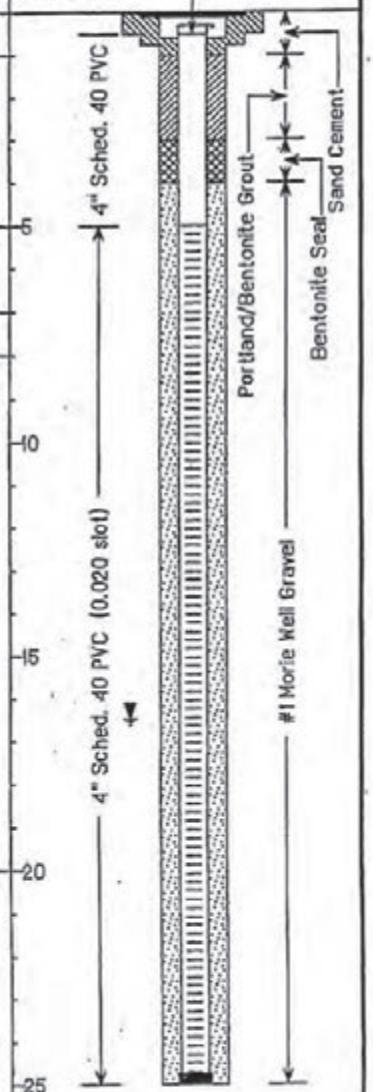
Handex of E. Pennsylvania

WELL LOG: MW-2

Permit #: *N/A*	Drill Date: *3/13/98*	Use: *Monitoring*
Location: *610 York Rd., Warminster, PA*		Owner Loc #: *0383-5430*
Owner: *Sun Company Inc.*		Handex Loc #: *111332-02*
Owner Address: *1801 Market St., Phil., PA*	BORING - Depth: *25 ft.*	Diameter: *4 in.*
Drilling Method: *Air Rotary*	CASING - Length: *4.5 ft.*	Diameter: *4 in.*
Sampling Method: *Split-Spoon/Drill Cuttings*	SCREEN - Length: *20 ft.*	Diameter: *4 in.*
Static Water Level: *16 ft.* *(from TOC 3/13/98)*	WELL - Depth: *25 ft.*	

Depth (ft.)	Sample ID	Sample Depth	Blows/6 in.	P.I.D.	Graphic Log	Geologic Description
						GRAVEL and SAND
						Medium to fine SAND and Silt with gravel
5	SS-1*	☒	6,6,7,7	<1		SILT and SAND
						Weathered BEDROCK
						Competent red/brown SHALE
10	SS-2			2		
15	SS-3			3		
20	SS-4			5		
25						

Well Diagram



NOTES: * = Sample analyzed at laboratory; ☒ = Sample interval/recovery; ⧩ = Static Water Level (from TOC)

Geologist: J. Goudsward

Driller: B.L. Myers

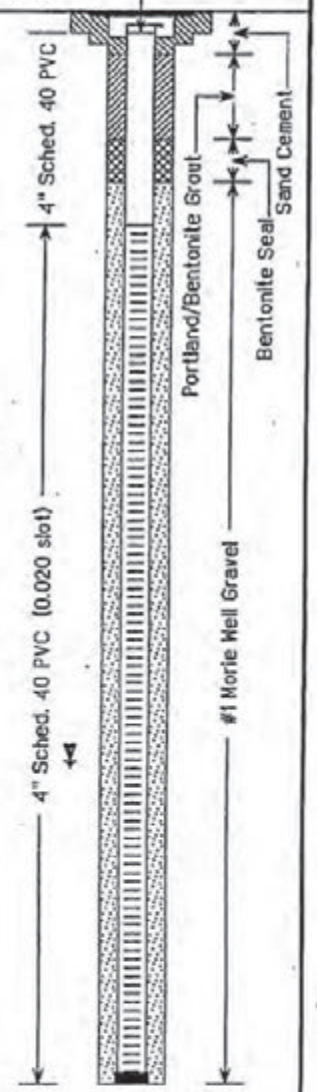
Handex of E. Pennsylvania

WELL LOG: MW-3

Permit #: *N/A*	Drill Date: *3/13/88*	Use: *Monitoring*
Location: *610 York Rd., Warminster, PA*		Owner Loc #: *0383-5430*
Owner: *Sun Company Inc.*		Handex Loc #: *111332-02*
Owner Address: *1801 Market St., Phil., PA*	BORING – Depth: *25 ft.*	Diameter: *4 in.*
Drilling Method: *Air Rotary*	CASING – Length: *4.5 ft.*	Diameter: *4 in.*
Sampling Method: *Split-Spoon/Drill Cuttings*	SCREEN – Length: *20 ft.*	Diameter: *4 in.*
Static Water Level: *17 ft.* *(from TOC 3/13/88)*	WELL – Depth: *25 ft.*	

Depth (ft.)	Sample ID	Sample Depth	Blows/6 in.	P.I.D.	Graphic Log	Geologic Description
5	SS-1*	☒	8,3,6,7	<1		GRAVEL and SAND
						Fine SAND and Silt with some gravel
						Fine SAND and SILT
						Weathered BEDROCK
10	SS-2			<1		Competent SHALE
15	SS-3			5		
20	SS-4			<1		
25						

Well Diagram



NOTES: * = Sample analyzed at laboratory; ☒ = Sample interval/recovery; ⧩ = Static Water Level (from TOC)

Geologist: J. Goudsward

Driller: B.L. Myers

MONITORING WELL LOG MW-4

Groundwater and Environmental Services, Inc.

PROJECT:	Sun Warminster	SURFACE ELEV.:	NA	TOTAL DEPTH:	25 feet
ADDRESS:	610 Old York Road	WATER DEPTH	Dry	CASING EL.:	98.08 feet
		BOREHOLE DIA.:	10 inch	WELL DIA.:	4 inch

Logged By:	Brian Peterley	Drilling Method:	
Dates Drilled:	October 27, 1997	Sampling Method:	Split Spoon
Drilling Company:	Lutz Environmental	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:		Field Screening:	PID

Depth (feet)	Blow Counts	Field Screen	SAMPLE LITHOLOGY (USCS)	Stratigraphy	Comments	COMPLETION DETAILS
0			FILL: (0'-1') Asphalt and subbase	FILL		Flush mount well vault, locking cap, GES well lock
			CL: (1'-10') Red-brown to dark brown clay, moist, stiff to very stiff, no odor	CL	(0'-5') Hand auger to clear utilities	Type 2 Portland cement (0'-2')
5	6-11-14-20	1 ppm				
	14-21-22-21	2 ppm				Hydrated bentonite (2'-3')
	21-24	2 ppm				
10	Refusal	2 ppm	SHALE: (10'-25') Light brown and red-brown shale, moist, laminated, no odor; Color change to red-brown at 15'	SHALE		4-inch diameter PVC riser (0'-5')
						No. 2 Sand (3'-25')
15		2 ppm				4-inch diameter PVC 0.020" slotted screen (5'-25')
20		2 ppm				
25					Monitoring well boring terminated at 25'	

Location:

Northing/Latitude: NA

Easting/Longitude: NA

General Comments:

SAA - Same as above

A soil sample at an unknown depth was submitted for laboratory analysis.

Symbols:

Apparent Water Level

Fracture

Lab Sample Location

MONITORING WELL LOG MW-5

Groundwater and Environmental Services, Inc.

PROJECT:	Sun Warminster	SURFACE ELEV.:	NA	TOTAL DEPTH:	50 feet
ADDRESS:	610 Old York Road	WATER DEPTH	42 feet	CASING EL.:	
		BOREHOLE DIA.:	8 inch	WELL DIA.:	4 inch

Logged By:	Krista Snyder	Drilling Method:	Air Rotary
Dates Drilled:	10/18/04	Sampling Method:	Cuttings
Drilling Company:	Eichelberger's	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:		Field Screening:	Q-Rae Plus Model 2000 (results in ppm)

Depth (feet)	Sample Interval	Field Screen	SAMPLE LITHOLOGY (USCS)	Stratigraphy	Comments	COMPLETION DETAILS
0	0'-4'	0.3	ASPHALT: (0'-0.5') Asphalt	ASPHALT	0' - 4' Air knife and vacuum extraction for utility clearance	Completed with locking cap and flush mount
5	4'-6'		SAND AND SILT: (0.5'-6') Brown silt and fine to medium sand with sparse angular gravel, dry, no odor	SAND AND SILT		Bentonite seal from 1'-3'
	6'-10'		SHALE: (6'-50') Shale bedrock	SHALE		
10		2.0				Sand pack, pea gravel and gravel from 5'-50'
	10'-15'					
15		1.7				Schedule 40 PVC screen (0.020 slot) 10'-50'
20	15'-25'					
25		3.3			Sample MW-5-25' submitted for Laboratory Analysis	
30	25'-35'					
35		1.6			Shale bedrock at 6'	
40	35-43'				Water at 42'	
					Well casing set at 50'	
45					Borehole completed to 50'	
50						

Location:

Northing/Latitude: NA

Easting/Longitude: NA

General Comments:

Symbols:

Apparent Water Level ⧗

Fracture <

Lab Sample Location ⊠

MONITORING WELL LOG MW-6

Groundwater and Environmental Services, Inc.

PROJECT:	Sun Warminster	SURFACE ELEV.:	NA	TOTAL DEPTH:	47 feet
ADDRESS:	610 Old York Road	WATER DEPTH	20 feet	CASING EL.:	
		BOREHOLE DIA.:	8 inch	WELL DIA.:	4 inch

Logged By:	Krista Snyder	Drilling Method:	Air Rotary
Dates Drilled:	10/18/04	Sampling Method:	Cuttings
Drilling Company:	Eichelberger's	Soil Class. System:	Unified Soil Classification System (USCS)
Drill Rig Type:		Field Screening:	Q-Rae Plus Model 2000 (results in ppm)

Depth (feet)	Sample Interval	Field Screen	SAMPLE LITHOLOGY (USCS)	Stratigraphy	Comments	COMPLETION DETAILS
0	0'-4'		ASPHALT: (0'-0.5') Asphalt	ASPHALT	0' - 4' Air knife and vacuum extraction for utility clearance	Completed with locking cap and flush mount
			SAND AND SILT: (0.5'-6') Brown silt and fine to medium sand, dry, no odor	SAND AND SILT		
5			SHALE: (4'-11') Weathered shale bedrock	SHALE	Weathered shale bedrock from 4'-11'	Bentonite seal from 1'-3'
10	4'-11'		SHALE: (11'-47') Competent shale bedrock	SHALE	Competent shale bedrock at 11'	Sand pack, pea gravel and gravel from 5'-50'
15					Sample MW-6-15' submitted for Laboratory Analysis	
20					Water at 20'	Schedule 40 PVC screen (0.020 slot), 10'-47'
25						
30	11'-47'					
35						
40					Well casing set at 47' Borehole completed to 47'	
45					Soil samples from 20'-47'	

Location:

Northing/Latitude: NA

Easting/Longitude: NA

General Comments:

Symbols:

Apparent Water Level

Fracture

Lab Sample Location

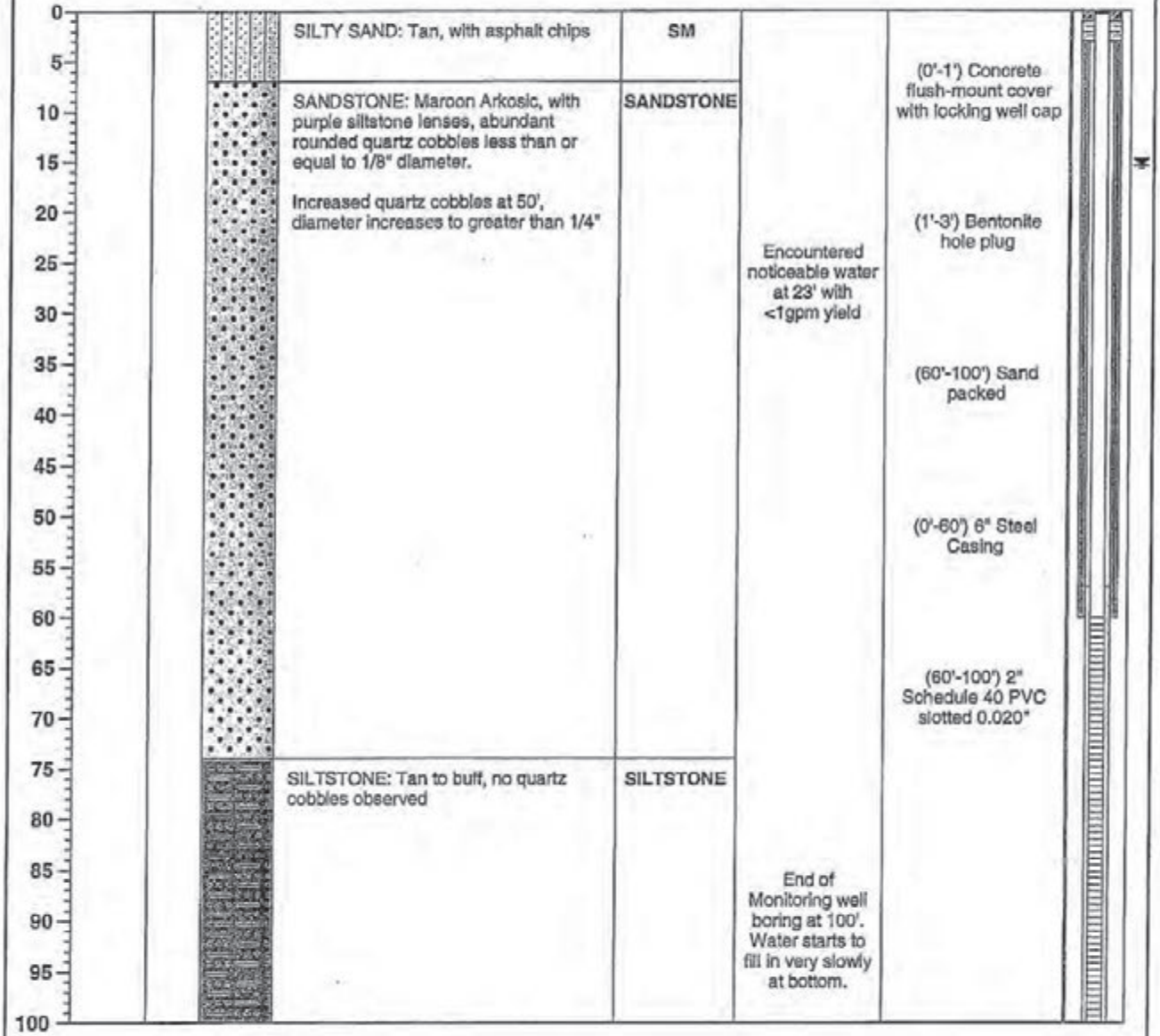
MONITORING WELL LOG MW-7

Groundwater and Environmental Services, Inc.

PROJECT:	Sun Warminster	SURFACE ELEV.:	N/A	TOTAL DEPTH:	100 feet
ADDRESS:	610 Old York Road	WATER DEPTH	15.39 feet	CASING EL.:	99.20 feet
		BOREHOLE DIA.:	8 inches	WELL DIA.:	2 inches

Logged By:	P. Crawford	Drilling Method:	Air Rotary
Dates Drilled:	11/23/04	Sampling Method:	N/A
Drilling Company:	Eichelbergers	Soil Class. System:	USCS
Drill Rig Type:	N/A	Field Screening:	PID

Depth (feet)	Sample Interval	Field Screen	SAMPLE LITHOLOGY (USCS)	Stratigraphy	Comments	COMPLETION DETAILS
0–5			SILTY SAND: Tan, with asphalt chips	SM		(0'-1') Concrete flush-mount cover with locking well cap
5–75			SANDSTONE: Maroon Arkosic, with purple siltstone lenses, abundant rounded quartz cobbles less than or equal to 1/8" diameter. Increased quartz cobbles at 50', diameter increases to greater than 1/4"	SANDSTONE	Encountered noticeable water at 23' with <1gpm yield	(1'-3') Bentonite hole plug; (60'-100') Sand packed; (0'-60') 6" Steel Casing; (60'-100') 2" Schedule 40 PVC slotted 0.020"
75–100			SILTSTONE: Tan to buff, no quartz cobbles observed	SILTSTONE	End of Monitoring well boring at 100'. Water starts to fill in very slowly at bottom.	



Location:

Northing/Latitude: N/A

Easting/Longitude: N/A

General Comments:

No detectable readings observed with PID

Symbols:

Apparent Water Level

Fracture

Lab Sample Location