

**REMOVAL ACTION COMPLETION REPORT FOR
WESTERN PORTION OF PARCEL 49
FORT MONMOUTH, OCEANPORT,
MONMOUTH COUNTY, NEW JERSEY**

**BRAC 05 Facility
Contract W912DY-09-D-0062
Task Order: 0012, Project No. 369857**

Submitted To:
**U.S. Corps of Engineers, New York District
and
U.S. Army Engineering and Support Center
Huntsville, Alabama**



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PARSONS
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October 2018

Table of Contents

1.0	OVERVIEW	1
1.1	Site Description and History	1
1.2	Previous Investigations	2
2.0	OBJECTIVE	2
2.1	Cleanup Standards	2
3.0	REMOVAL ACTION.....	3
4.0	DEMONSTRATION OF COMPLETION	5
5.0	ONGOING ACTIVITIES.....	5
6.0	COMMUNITY RELATIONS	5
7.0	CERTIFICATION STATEMENT.....	6
8.0	REFERENCES	7

Figures

Figure 1 – Parcel 49 Site Location

Figure 2 – Western Portion of Parcel 49 Layout

Figure 3 – Western Portion of Parcel 49- Excavation Limits at Building 293 Area

Figure 4 – Western Portion of Parcel 49- Excavation Limits at Buildings 291 and 296 Area

Tables

Table 1 – Parcel 49 Post-Excavation Soil Sampling Results – Comparison to NJDEP Soil Remediation Standards

Appendices

A – Photographs

B – Waste Disposal Documentation

C – Backfill Certification Documentation

D – Laboratory Analytical Reports

1.0 OVERVIEW

This Removal Action Completion Report (RACR) summarizes the remedial activities associated with the time-critical removal action (TCRA) that was implemented under the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended (“CERCLA”) in the western portion of Parcel 49 at the former United States (U.S.) Army Fort Monmouth (FTMM) (**Figure 1**). The eastern portion of Parcel 49, which includes the immediate vicinity of Building 283 (Squier Hall), was previously addressed under a separate TCRA (U.S. Army Base Realignment and Closure [BRAC], 2017). The New Jersey Department of Environmental Protection (NJDEP) subsequently concurred (15 June 2017) with the U.S. Army’s determination that no further action was necessary in the eastern portion of Parcel 49, and the eastern portion of Parcel 49 was transferred to the Fort Monmouth Economic Revitalization Authority (FMERA). Therefore, this RACR addresses only the western portion of Parcel 49, which is referred to herein as “the Site.” Removal of polynuclear aromatic hydrocarbons (PAHs) contaminated soil was conducted at two areas (adjacent to Building 293, and adjacent to Buildings 291 and 296) of the Site. Remedial activities began on 27 August 2018 and were completed 17 September 2018 and are summarized in this RACR.

The Army is the lead agency for FTMM under CERCLA, its implementing regulations, the National Contingency Plan at 40 CFR Part 300 (“NCP”), and Executive Order 12580, and is responsible for selecting the final response action for the site. The NJDEP is the state support agency under CERCLA and the NCP. As a result of the removal actions described herein, the Army has determined that no additional response actions are required for the western portion of Parcel 49.

1.1 Site Description and History

In 1934, FTMM laboratory operations were consolidated into a new facility, Squier Laboratory, and this facility continued to be the principal laboratory on post until 1954 when the new R&D facility, Myer Center (Building 2700), was opened. The Squier Laboratory Complex supported the Signal Corps Laboratories’ research into batteries and electronics coatings. Environmental concerns were identified for some of the laboratory operations based on the size and intensity of historical operations and the timeframe during which the services took place (U.S. Army BRAC, 2007). Environmental concerns associated with Squier Laboratory operations included the use of chemicals, solvents, radioisotopes, and metals when waste handling procedures may not have been sufficiently protective to preclude a release to the environment. On September 15, 2011, FTMM was closed under the 2005 BRAC process. Parcel 49 including the eastern portion and the Site (western portion) as shown on **Figure 2** encompasses the buildings associated with the Former Squier Laboratory Complex, which are currently unoccupied. The Site includes the area encompassing Buildings 291, 292, 293, 295 and 296 (**Figure 2**).

1.2 Previous Investigations

A detailed summary of previous investigation activities and results at the Site is provided in the TCRA Action Memorandum (U.S. Army BRAC, 2018). The potential for discharges related to previous operations at the Site was initially assessed in the BRAC Environmental Condition of Property (ECP) Report (U.S. Army BRAC, 2007), and further evaluated in the Site Investigation (SI) Report (U.S. Army BRAC, 2008). Multiple PAHs were detected at concentrations exceeding the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) in soil samples collected below the asphalt pavement. The SI concluded that further delineation of PAHs was needed throughout the Site to determine if the PAHs were attributable to asphalt.

Additional investigation work was performed at the Site in March/April 2016 under the revised ECP Work Plan (WP; Parsons, 2015) and under a subsequent Letter Work Plan Addendum (U.S. Army BRAC, 2016), and NJDEP concurred in their letter dated January 10, 2017. Because care was taken to exclude asphalt pavement from these later soil samples, it is unlikely that PAH concentrations in soil at the Site can be attributed to asphalt as previously suspected during the SI.

A total of 79 soil samples from 41 surface and boring locations were analyzed for PAHs in 2007, 2016, and 2017. Laboratory analytical results were compared to NJDEP RDCSRS, NRDCSRS and Impact to Ground Water Soil Screening Levels (IGW-SSLs). Soil analytical results were also compared to USEPA Regional Screening Levels (RSLs), as presented in the TCRA Action Memorandum (U.S. Army BRAC, 2018).

PAHs detected above their respective RDCSRSs in the 2007, 2016, or 2017 sampling included 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz (a,h)anthracene, indeno(1,2,3-cd)pyrene and naphthalene. In total, PAHs were detected at 40 of 41 soil sampling locations (see Table 1 of the TCRA Action Memorandum; U.S. Army BRAC, 2018). NJDEP revised the RDCSRS for multiple PAHs on 18 September 2017 based on lower toxicity values; regardless, multiple soil PAH results continued to exceed the revised RDCSRSs.

2.0 OBJECTIVE

The Army undertook removal actions at two areas located in the western portion of Parcel 49: 1) Building 293; and 2) Buildings 291 and 296. The actions were taken in accordance with CERCLA to remove PAH concentrations in soil that pose a threat to human health. The actions were performed on an expedited basis to remove the environmental liability and accelerate the property transfer for beneficial reuse.

2.1 Cleanup Standards

NJDEP has established soil cleanup standards for PAHs under NJAC 7:26E Technical Requirements for Site Remediation. The RDCSRSs applicable to the Site soils are provided below:

Contaminant	NJ RDCSRS (mg/kg)
Benzo(a)anthracene	5
Benzo(a)pyrene	0.5
Benzo(b)fluoranthene	5
Benzo(k)fluoranthene	45
Chrysene	450
Dibenz(a,h)anthracene	0.5
Indeno(1,2,3-cd)pyrene	5
2-Methylnaphthalene	230
Naphthalene	6

Note: mg/kg = milligram(s) per kilogram

3.0 REMOVAL ACTION

The removal action conducted at two locations at the Site were performed by Parsons Government Services (Parsons) with subcontractor support from AWT Environmental Services (AWT), Inc. of Sayreville, New Jersey. Work was performed between 27 August 2018 and 11 October 2018, and consisted of the following:

- Locate and mark out the excavation areas at Building 293 and Buildings 291 and 296.
- Initiated a New Jersey One Call Ticket for the location of the underground utilities.
- Collection of soil samples for waste characterization analysis based on the disposal facility requirements.
- Site preparation including equipment mobilization and construction of the temporary stockpiles staging areas for the excavated soil, concrete and asphalt pavement.
- Removal of the concrete and asphalt pavement as necessary followed by excavation of the PAH-impacted soil at eight cells and collection of post confirmation samples from the bottom of the excavations at Building 293.
- Removal of the concrete and asphalt pavement followed by the excavation of the PAH-impacted soil at Buildings 291 and 296.
- Temporary staging of the excavated PAH-impacted soil, concrete and asphalt pavement on plastic lined and covered stockpiles.
- Backfilling of the excavations with certified clean fill and topped with a layer of compacted aggregate base course.
- Loadout and transport of the asphalt pavement and concrete to an approved offsite recycling facility.
- Loadout and transport of the PAH – impacted soil to an approved offsite disposal facility.

The location of the Building 293 excavation cells, the excavation dimensions, and location of the post confirmation samples are provided in **Figure 3**. The location of the excavation and the excavation dimension for Buildings 291/296 are provided on **Figure 4**. Site photographs that show the extent of soil removal are included in **Appendix A**. Waste disposal documentation is provided

in **Appendix B**, and backfill certification is provided in **Appendix C**. Laboratory analytical reports are provided in **Appendix D**.

Excavations Adjacent to Building 293

Impacted soil from eight discrete areas (Cells A1 through A8) were excavated adjacent to Building 293 as shown on **Figure 3**. The required excavation depth for each cell was maintained using a laser level. One post-confirmation soil sample was collected from the bottom of each excavation, except two samples were collected from Cell A1 due to its size. The post-confirmation sample locations were biased towards previous soil sampling location that showed the highest concentrations within each cell. This initial round of post-confirmation soil samples was collected from each excavation bottom on 4 September 2018 and analyzed for PAHs by Method SW-846 8270D.

Initial post-confirmation soil sample results for 5 of the 8 excavation cells were below the RDCSRS and/or the IGW-SSL as shown in **Table 1**. However, the sample results for Cells A1B, A4 and A7 exceeded the RDCSRS and/or the IGW-SSL for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene.

An additional 1-foot of soil was removed from the bottom of the excavation cells A1B and A7 and two feet from cell A-4 followed by the collection of additional post-confirmation samples on 11 September 2018. The results of these post-confirmation samples are also presented in **Table 1**. PAH concentrations in the samples collected from cells A1B (4.0-4.5') and A7 (4.0-4.5') met the RDCSRS and/or IGW SSL. The PAHs detected in the sample collected from A4 (5.0 to 5.5') remained above NJDEP RDCSRS and IGW- SSL but showed a decreasing trend when compared to the concentrations detected in the initial post confirmation sample A-4 (4.0-4.5'). The A-4 (6.0-6.5') sample detected only benzo (a) pyrene at 0.22 mg/kg which is slightly above the IGW-SSL of 0.2 mg/kg; otherwise the PAH results were below the NJDEP RDCSRS and IGW-SSL. The NJDEP agreed in their 19 September 2018 email correspondence that the A-4 excavation cell can be backfilled based on the decreasing contamination levels at deeper depths and the detected concentration of benzo(a)pyrene was marginally above the NJDEP IGW-SSL at 6.0-6.5 feet bgs. Each excavation was backfilled with clean certified common fill (**Appendix C**) to pre-existing grade and compacted in one-foot lifts with several passes of a roller and then a vibrating compactor.

Excavation Adjacent to Buildings 291 and 296

Impacted soil was removed from the excavation area located adjacent to Buildings 291 and 296 as shown on **Figure 4**. Soil was removed to a depth of 2 feet bgs along the excavation area and the depth was maintained using a laser level. Several conduits were encountered during the excavation and were left in place. No post-excavation samples were collected at this excavation since the 2016 soil sample results indicated that PAHs concentrations met the RDCSRS for samples collected below 2 feet bgs. The excavation was backfilled with clean certified common fill (**Appendix C**)

and compacted with the excavator bucket, with a top layer of two to three inches of gravel aggregate.

Summary

A total of approximately 1,620 tons of PAH-impacted soil was excavated from the two areas at the Site. The material was transported to the Clean Earth of Southeast Pennsylvania thermal treatment soil facility for treatment and beneficial reuse as landfill cover material. The waste disposal documentation is provided in **Appendix B**.

Approximately 193 tons of asphalt and 92 tons of concrete were excavated and disposed off-site as recycled material at Center Jersey and Gold Star facilities. The waste disposal documentation is provided in **Appendix B**.

4.0 DEMONSTRATION OF COMPLETION

The final confirmation soil sample results collected from the excavations at the Building 293 area and the Buildings 291 and 296 area (refer to **Figures 3 and 4**) met the NJDEP unrestricted use standards (RDCSRs). Therefore, additional remediation is not required for the western portion of Parcel 49.

5.0 ONGOING ACTIVITIES

There are no ongoing activities at Parcel 49.

6.0 COMMUNITY RELATIONS

The TCRA Memorandum for the Site (U.S. Army BRAC, 2018) was made available for a 30-day public review and comment period from 31 May to 29 June 2018. It was also posted on the FTMM Environmental Restoration Program website (<http://www.pica.army.mil/ftmonmouth/>) and placed in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the Monmouth County Library. A public press release announcing the TCRA and the requesting public comments was published in the Asbury Park Press; no comments were received from the public.

RACR for Western Portion of Parcel 49
Fort Monmouth, New Jersey

7.0 CERTIFICATION STATEMENT

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this RACR, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



William R. Colvin
BRAC Environmental Coordinator
U.S. Army Fort Monmouth



Date

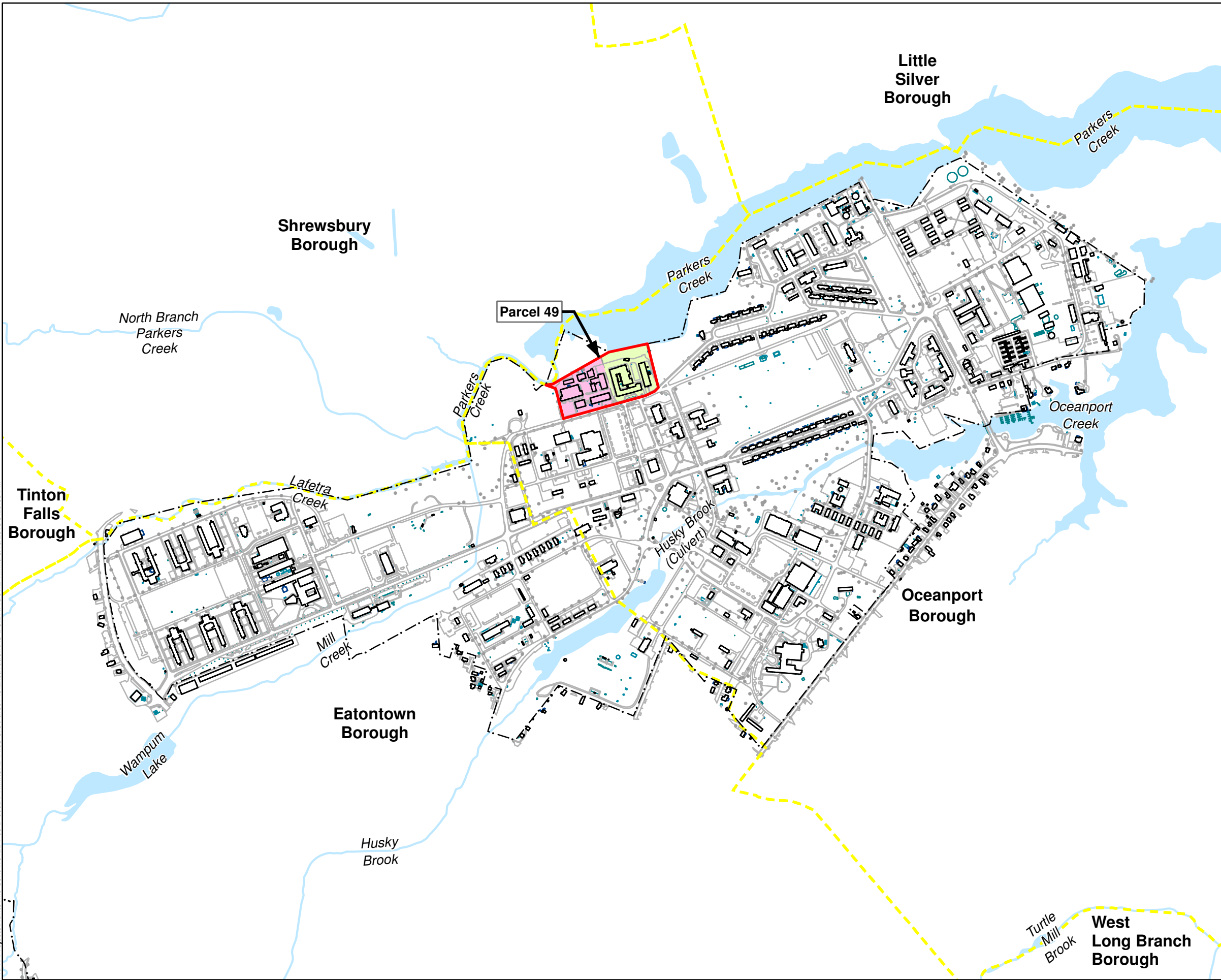
8.0 REFERENCES

- New Jersey Department of Environmental Protection (NJDEP), 2012. Letter to Army; Re: *March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008, Fort Monmouth, NJ*. July 10.
- NJDEP, 2015. Letter to Army; Re: *Revision 1 – Final Environmental Condition of Property Supplemental Phase II Site Investigation Work Plan Addendum for Parcels 28, 38, 39, 49, 57, 61, and 69 dated November 2015*. December 30.
- Parsons, 2015. *Final Environmental Condition of Property Supplemental Phase II Site Investigation Work Plan for Parcels 28, 38, 39, 49, 57, 61, and 69*. Submitted to U.S. Army Engineering and Support Center, Huntsville, AL. Revision No. 1. August.
- United States (US) Army Base Realignment and Closure (BRAC), 2007. *Environmental Condition of Property Report – Fort Monmouth, Monmouth County, New Jersey*. Final. January 29.
- US Army BRAC, 2008. *Site Investigation Report, Fort Monmouth*. Final. July 21.
- US Army BRAC, 2016. *December 2016 Letter Work Plan Addendum for Parcel 49, Former Squier Laboratory and other facilities, Fort Monmouth, New Jersey*. December 28.
- US Army BRAC, 2017. *Action Memorandum for Building 283 Squier Hall, Fort Monmouth, Oceanport, Monmouth County, New Jersey*. Revision No. 0. August.
- US Army BRAC, 2018. *Action Memorandum for the Western Portion of Parcel 49, Fort Monmouth, Oceanport, Monmouth County, New Jersey*. Revision No. 1. May.

RACR for Western Portion of Parcel 49
Fort Monmouth, New Jersey

Figures

P:\PTT\Projects\Huntsville Cont W912DY-09-P-0062\FTMMCAD Files\GIS\Parcel 49\Excavation\AS-BUILT\FIGURE 1.mxd 9/13/2018 3:25:00 PM



LEGEND:

- Parcel Boundary
- Installation Boundary
- Municipal Boundary
- Eastern Portion - No further action needed. Property was transferred to Fort Monmouth Economic Revitalization Authority.
- Western Portion - Time critical removal action required for polynuclear aromatic hydrocarbons in soil.
- Surface Water Feature

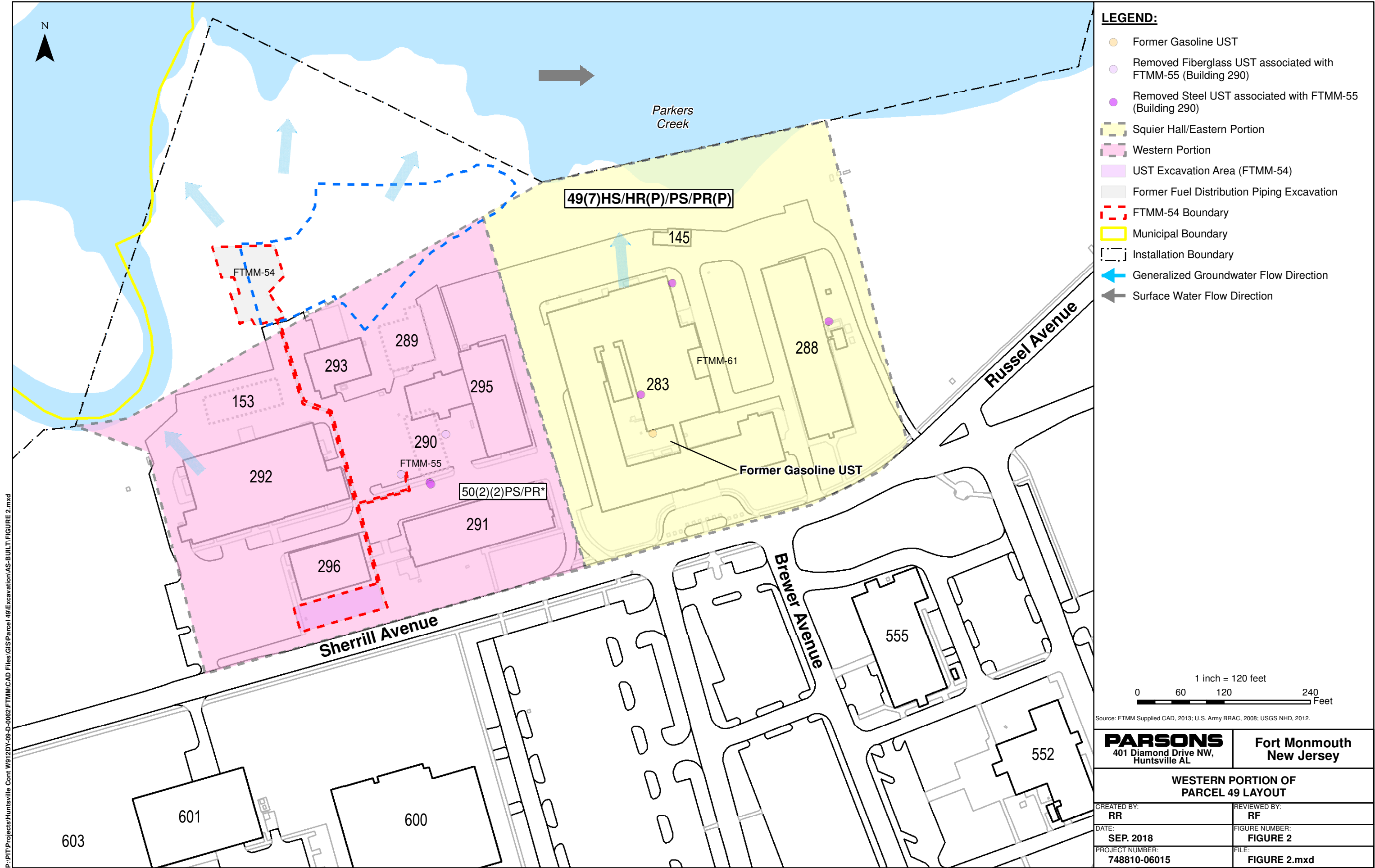
Source: FTMM Supplied CAD, 2013; ESRI Data and Maps, 2011; USGS NHD, 2012.

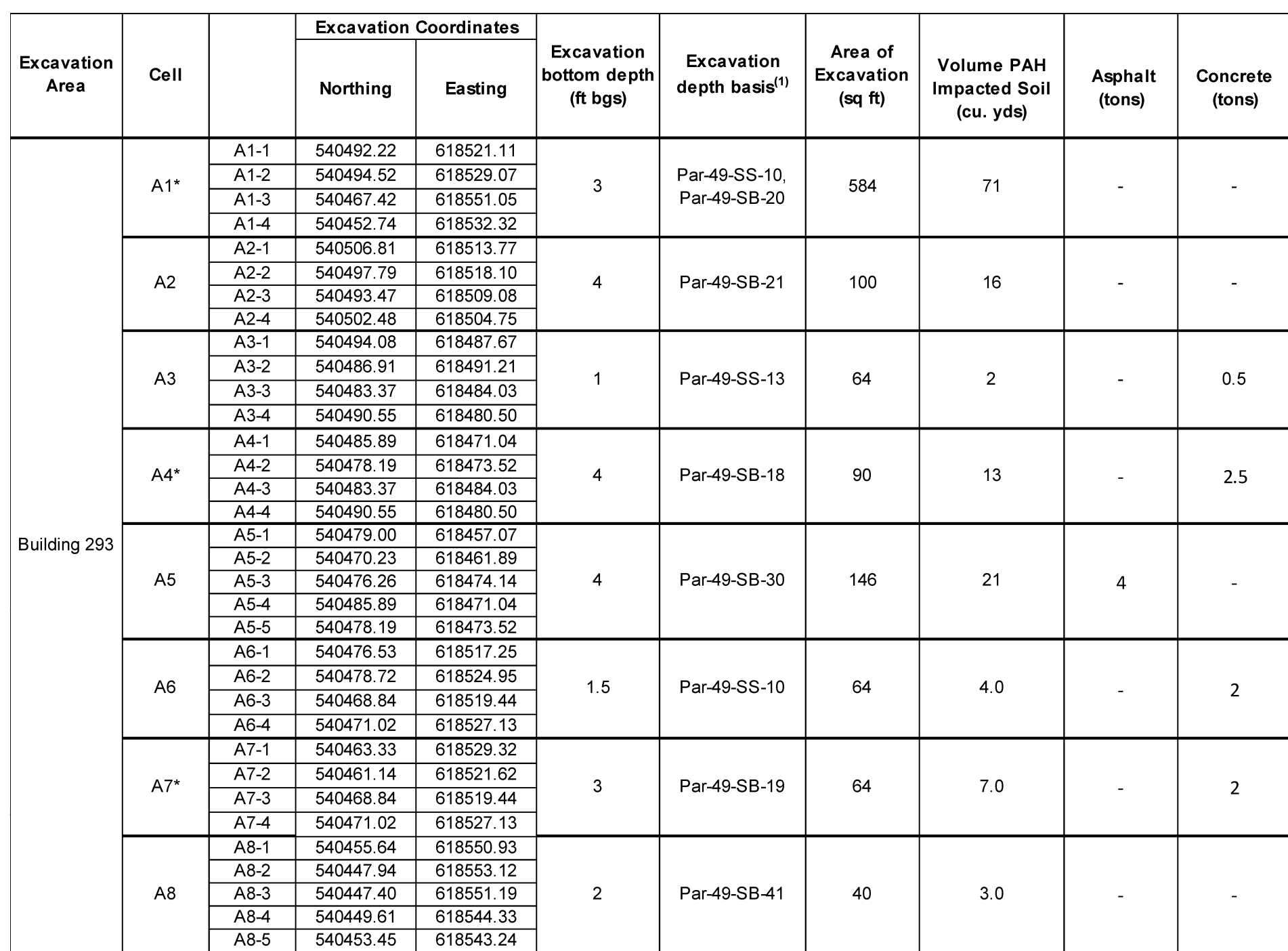
PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

PARCEL 49 SITE LOCATION

CREATED BY: RR	REVIEWED BY: SS
DATE: SEP. 2018	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-06031	FILE: FIGURE 1.mxd



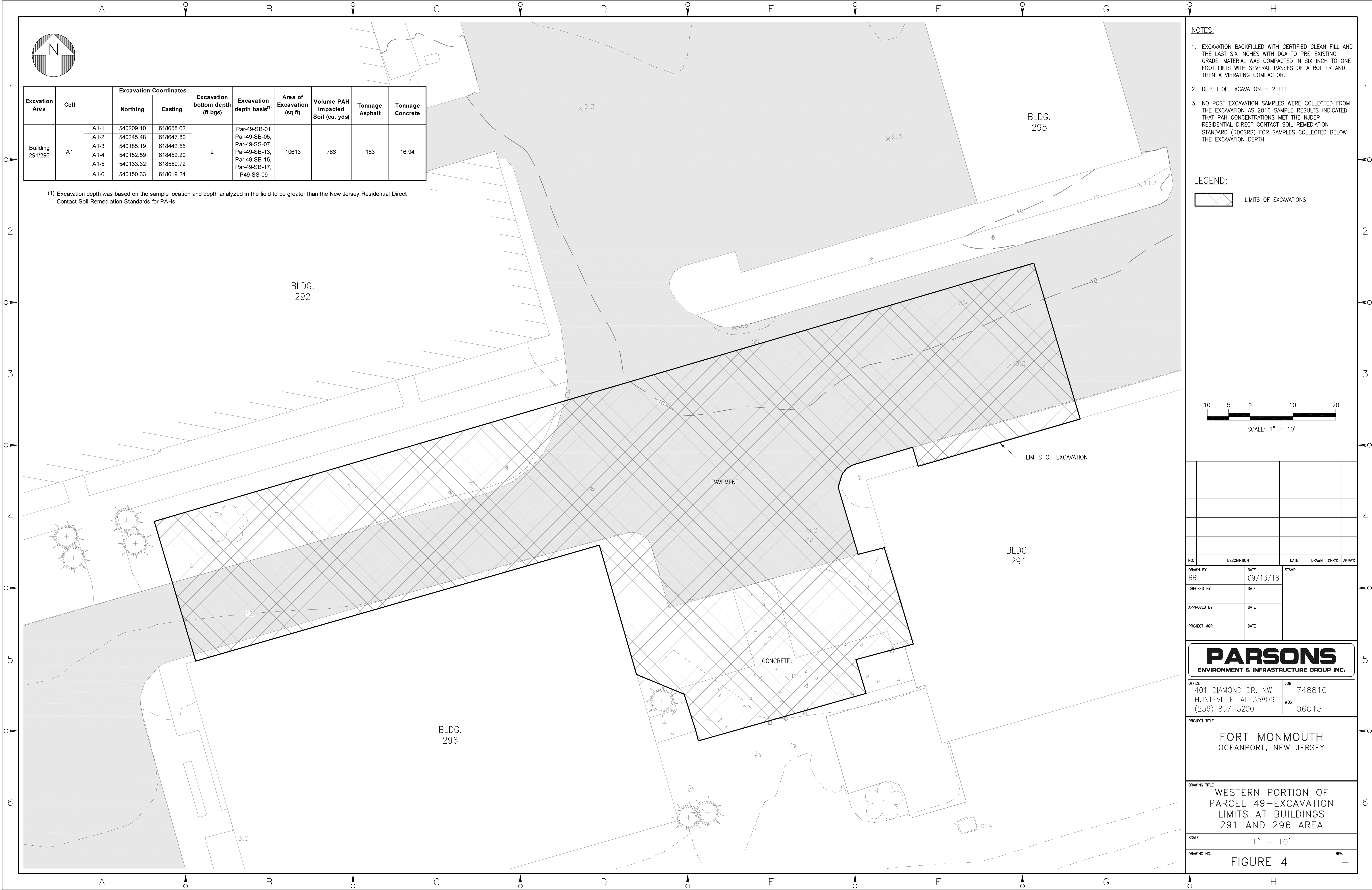
[illegible]

5 2.5 0 5 10

SCALE: 1" = 5'

PARSONS ENVIRONMENT & INFRASTRUCTURE GROUP INC.	
OFFICE 401 DIAMOND DR. NW HUNTSVILLE, AL 35806 (256) 837-5200	JOB 748810
	WBS 06015

DRAWING TITLE		6
WESTERN PORTION OF PARCEL 49-EXCAVATION LIMITS AT BUILDING 293 AREA		
SCALE		1" = 5'
DRAWING NO.		
FIGURE 3		REV. —



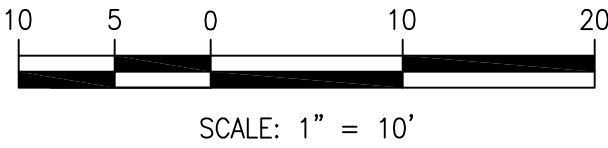
Excavation Area	Cell	Excavation Coordinates		Excavation bottom depth (ft bgs)	Excavation depth basis ⁽¹⁾	Area of Excavation (sq ft)	Volume PAH Impacted Soil (cu. yds)	Tonnage Asphalt	Tonnage Concrete
		Northing	Easting						
Building 291/296	A1	A1-1	540209.10	618658.62	2	10613	786	183	16.94
		A1-2	540245.48	618647.80					
		A1-3	540185.19	618442.55					
		A1-4	540152.59	618452.20					
		A1-5	540133.32	618559.72					
		A1-6	540150.63	618619.24					

(1) Excavation depth was based on the sample location and depth analyzed in the field to be greater than the New Jersey Residential Direct Contact Soil Remediation Standards for PAHs.

- NOTES:
- EXCAVATION BACKFILLED WITH CERTIFIED CLEAN FILL AND THE LAST SIX INCHES WITH DGA TO PRE-EXISTING GRADE. MATERIAL WAS COMPACTED IN SIX INCH TO ONE FOOT LIFTS WITH SEVERAL PASSES OF A ROLLER AND THEN A VIBRATING COMPACTOR.
 - DEPTH OF EXCAVATION = 2 FEET
 - NO POST EXCAVATION SAMPLES WERE COLLECTED FROM THE EXCAVATION AS 2016 SAMPLE RESULTS INDICATED THAT PAH CONCENTRATIONS MET THE NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARD (RDCSRs) FOR SAMPLES COLLECTED BELOW THE EXCAVATION DEPTH.

LEGEND:

LIMITS OF EXCAVATIONS



NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
DRAWN BY	RR	DATE	STAMP		
CHECKED BY		DATE			
APPROVED BY		DATE			
PROJECT MGR.		DATE			

PARSONS
ENVIRONMENT & INFRASTRUCTURE GROUP INC.

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JOB
748810
WBS
06015

PROJECT TITLE
**FORT MONMOUTH
OCEANPORT, NEW JERSEY**

DRAWING TITLE
**WESTERN PORTION OF
PARCEL 49-EXCAVATION
LIMITS AT BUILDINGS
291 AND 296 AREA**

SCALE
1" = 10'

DRAWING NO.
FIGURE 4

REV.
—

RACR for Western Portion of Parcel 49
Fort Monmouth, New Jersey

Tables

UNVALIDATED

PARCEL 49 POST-EXCAVATION SOIL SAMPLING RESULTS - COMPARISON TO NJDEP SOIL REMEDIATION STANDARDS
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	PAR-49-A1A		PAR-49-A1B				PAR-49-A105		PAR-49-A2		PAR-49-A3	
Sample ID				PAR-49-293-A1A-3.0-3.5		PAR-49-293-A1B-3.0-3.5		PAR-49-293-A1B-4.0-4.5		PAR-49-293-A105-4.0-4.5		PAR-49-293-A2-4.0-4.5		PAR-49-293-A3-1.0-1.5	
Sample Date				9/4/2018		9/4/2018		9/11/2018		9/4/2018		9/4/2018		9/4/2018	
Semivolatile Organic Compounds (mg/kg)															
Acenaphthene	3,400	37,000	110	0.079	U	0.015	J	0.080	U	0.024	J	0.080	U	0.077	U
Acenaphthylene	NLE	300,000	NLE	0.079	U	0.2		0.080	U	0.081	U	0.080	U	0.038	J
Anthracene	17,000	30,000	2,400	0.079	U	0.077	J	0.080	U	0.081	U	0.080	U	0.026	J
Benzo(a)anthracene	5	17	0.8	0.079	U	0.35		0.080	U	0.081	U	0.080	U	0.085	J
Benzo(a)pyrene	0.5	2	0.2	0.014	J	0.38		0.080	U	0.081	U	0.080	U	0.1	J
Benzo(b)fluoranthene	5	17	2	0.014	J	0.35		0.080	U	0.081	U	0.080	U	0.14	
Benzo(ghi)perylene	380,000	30,000	NLE	0.079	U	0.27		0.080	U	0.081	U	0.080	U	0.085	J
Benzo(k)fluoranthene	45	170	25	0.079	U	0.12		0.080	U	0.081	U	0.080	U	0.051	J
Chrysene	450	1,700	80	0.079	U	0.49		0.080	U	0.081	U	0.080	U	0.099	J
Dibenz(a,h)anthracene	0.5	2	0.8	0.079	U	0.074	J	0.080	U	0.081	U	0.080	U	0.024	J
Fluoranthene	2,300	24,000	1,300	0.021	J	0.34		0.080	U	0.081	U	0.080	U	0.13	
Fluorene	2,300	24,000	170	0.079	U	0.048	J	0.080	U	0.14	J	0.080	U	0.015	J
Indeno(1,2,3-cd)pyrene	5	17	7	0.079	U	0.22		0.080	U	0.081	U	0.080	U	0.082	J
Naphthalene	6	17	25	0.079	U	0.043	J	0.080	U	0.081	U	0.080	U	0.014	J
Phenanthrene	NLE	300,000	NLE	0.079	U	0.21		0.080	U	0.081	U	0.080	U	0.058	J
Pyrene	1,700	18,000	840	0.021	J	0.69		0.080	U	0.081	U	0.080	U	0.15	

UNVALIDATED

PARCEL 49 POST-EXCAVATION SOIL SAMPLING RESULTS - COMPARISON TO NJDEP SOIL REMEDIATION STANDARDS
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	PAR-49-A4						PAR-49-A5		PAR-49-A6	
Sample ID				PAR-49-293-A4-4.0-4.5		PAR-49-293-A4-5.0-5.5		PAR-49-293-A4-6.0-6.5		PAR-49-293-A5-4.0-4.5		PAR-49-293-A6-1.5-2.0	
Sample Date				9/4/2018		9/11/2018		9/11/2018		9/4/2018		9/4/2018	
Semivolatile Organic Compounds (mg/kg)													
Acenaphthene	3,400	37,000	110	4.2		1.0		0.086	J	0.14		0.077	U
Acenaphthylene	NLE	300,000	NLE	1.2		0.29		0.045	J	0.016	J	0.057	J
Anthracene	17,000	30,000	2,400	5.5		2.5		0.12	J	0.089	U	0.034	J
Benzo(a)anthracene	5	17	0.8	6.2		3.5		0.24		0.089	U	0.11	J
Benzo(a)pyrene	0.5	2	0.2	6.2		2.9		0.22		0.089	U	0.14	
Benzo(b)fluoranthene	5	17	2	7.1		3.5		0.28		0.089	U	0.16	
Benzo(ghi)perylene	380,000	30,000	NLE	3.0		1.4		0.12	J	0.089	U	0.099	J
Benzo(k)fluoranthene	45	170	25	2.9		1.3		0.11	J	0.089	U	0.055	J
Chrysene	450	1,700	80	6.0		3.1		0.24		0.089	U	0.10	J
Dibenz(a,h)anthracene	0.5	2	0.8	0.99		0.44		0.099	U	0.089	U	0.036	J
Fluoranthene	2,300	24,000	1,300	17.8		9.2		0.54		0.089	U	0.12	
Fluorene	2,300	24,000	170	16.8		2.7		0.16		0.083	J	0.021	J
Indeno(1,2,3-cd)pyrene	5	17	7	3.7		1.8		0.15	J	0.089	U	0.11	J
Naphthalene	6	17	25	0.23		0.24		0.045	J	0.089	U	0.018	J
Phenanthrene	NLE	300,000	NLE	33.7		8.1		0.47		0.027	J	0.054	J
Pyrene	1,700	18,000	840	14.0		7.6		0.43		0.089	U	0.17	

UNVALIDATED

PARCEL 49 POST-EXCAVATION SOIL SAMPLING RESULTS - COMPARISON TO NJDEP SOIL REMEDIATION STANDARDS
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	PAR-49-A7				PAR-49-A8	
Sample ID				PAR-49-293-A7-3.0-3.5		PAR-49-293-A7-4.0-4.5		PAR-49-293-A8-2.0-2.5	
Sample Date				9/4/2018		9/11/2018		9/4/2018	
Semivolatile Organic Compounds (mg/kg)									
Acenaphthene	3,400	37,000	110	0.12		0.080	U	0.071	U
Acenaphthylene	NLE	300,000	NLE	1.7		0.080	U	0.03	J
Anthracene	17,000	30,000	2,400	1.8		0.080	U	0.019	J
Benzo(a)anthracene	5	17	0.8	5.9		0.080	U	0.061	J
Benzo(a)pyrene	0.5	2	0.2	7.0		0.080	U	0.063	J
Benzo(b)fluoranthene	5	17	2	8.0		0.080	U	0.053	J
Benzo(ghi)perylene	380,000	30,000	NLE	3.7		0.080	U	0.041	J
Benzo(k)fluoranthene	45	170	25	3.2		0.080	U	0.016	J
Chrysene	450	1,700	80	6.1		0.080	U	0.064	J
Dibenz(a,h)anthracene	0.5	2	0.8	1.2		0.080	U	0.071	U
Fluoranthene	2,300	24,000	1,300	11.1		0.080	U	0.058	J
Fluorene	2,300	24,000	170	0.57		0.080	U	0.019	J
Indeno(1,2,3-cd)pyrene	5	17	7	4.5		0.080	U	0.035	J
Naphthalene	6	17	25	0.16		0.080	U	0.071	U
Phenanthrene	NLE	300,000	NLE	2.3		0.080	U	0.055	J
Pyrene	1,700	18,000	840	10.5		0.080	U	0.12	

Footnote:

- 1) All historical data collected prior to 2013 are reported as provided by others.
- 2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
- 3) NLE = no limit established.
- 4) ND = not detected in any background sample, no background concentration available.
- 5) Bold chemical detection
- 6) SS = Site Specific action level, see "Specific Chemical Class (or Parameter)" footnote for details.

7) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

UJ=The compound was not detected; however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

8) Specific Chemical Classes (or Parameters) comments or notes regarding how data is displayed, compared to Action Levels, or represented in this table.

9) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

10) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

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RACR for Western Portion of Parcel 49
Fort Monmouth, New Jersey

Appendix A

Photographs

PARSONS

RACR for Western Portion of Parcel 49 – Photo Log



PHOTO 1 – Building 293 Excavation Cell A1; Looking East.



PHOTO 2 – Building 293 Excavation Cell A2; Looking West.

PARSONS

RACR for Western Portion of Parcel 49 – Photo Log



PHOTO 3 – Building 293 Excavation Cells A5, A4, and A3; Looking East.



PHOTO 4 – Building 293 Excavation Cells A6 and A7; Looking East.

PARSONS

RACR for Western Portion of Parcel 49 – Photo Log



PHOTO 5 – Building 293 Excavation Cell A8; Looking South.



PHOTO 6 – Buildings 291/296 Excavation - Eastern Leg; Looking East.

PARSONS

RACR for Western Portion of Parcel 49 – Photo Log



PHOTO 7 – Buildings 291/296 Excavation - Central Leg; Looking South.



PHOTO 8 – Buildings 291/296 Excavation - Western End Leg; Looking West. Start of backfill in background.

PARSONS

RACR for Western Portion of Parcel 49 – Photo Log



PHOTO 9 – Stockpiles area (left to right: asphalt, concrete, soil stockpiles awaiting to be covered).

Appendix B
Waste Disposal Documentation

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983478

	Date	Time	Scale
In:	10/10/2018	08:17:44	CESPSCALE1
Out:	10/10/2018	08:18:25	

Manifest: 1818339

	Lbs.	Tns
Gross:	70100.00	35.05
Tare:	25980.00	12.99
Net:	44120.00	22.06

Vehicle ID: 15COS07

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.0600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818339

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700	TARE WEIGHT:	
Oceanport, NJ 07757	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT:	
	☒ Tons ☐ Yards	22.06

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: **William R. Colvin for US Army** Title: **BRAC ENV Coord**
Signature: **William R. Colvin for US Army** Date and Time: **10/09/18 1501 hrs**

TRANSPORTER

Company: **Costa Haulers S** Phone Number: **856-341-4412**
Address: **16 Fairmont Drive** Truck # and License Plate: **#7 AT202N**
Driver: **Michael Carter** SW Haulers Permit #: _____
(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: **10-10-18**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: **10-10-18**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **James M. Matis** Date and Time: **10-10-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983532

	Date	Time	Scale
In:	10/10/2018	08:39:20	CESPSCALE1
Out:	10/10/2018	08:39:41	

Manifest: 1756101

	Lbs.	Tns
Gross:	78180.00	39.09
Tare:	27620.00	13.81
Net:	50560.00	25.28

Vehicle ID: 15ZEL14

Vehicle Permit: Wh4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.2800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756101

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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:

US Army-Fort Monmouth

Parcel 49/Building 700

Oceanport, NJ 07757

GENERATOR'S PHONE: 732-383-5104

GROSS WEIGHT:

☒ Tons ☐ Yards

TARE WEIGHT:

☒ Tons ☐ Yards

NET WEIGHT:

☒ Tons ☐ Yards

25,28

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: William R. Cook for US Army

Title:

BRAC ENV Coord

Signature: William R. Cook for US Army

Date and Time:

10/09/18

1533hrs

TRANSPORTER

Company: ZELIA

Phone Number:

14

Address:

Truck # and License Plate:

AU568C

Driver:

DIAN CARILLO

SW Haulers Permit #:

(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:

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:

10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983537

	Date	Time	Scale
In:	10/10/2018	08:44:19	CESPSCALE1
Out:	10/10/2018	08:44:42	

Manifest: 1818340

	Lbs.	Tns
Gross:	73400.00	36.70
Tare:	28100.00	14.05
Net:	45300.00	22.65

Vehicle ID: 15ZEL17

Vehicle Permit: WH4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.6500	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818340

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 22.65
GENERATOR'S PHONE: 732-383-5104	

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: **William R Conner for US Army** Title: **BRAC ENV COORD**
Signature: **William R Conner for US Army** Date and Time: **10/09/18 1502**

TRANSPORTER

Company: **ZELIA-TRUCKING** Phone Number: _____
Address: **125 JORDAN RD** Truck # and License Plate: **AT598L 17**
Driver: **JOSE A LOPEZ** SW Haulers Permit #: _____
(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: **10/10/18**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.
Driver Signature: **[Signature]** Date and Time: **10/10/18**
I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: **[Signature]** Date and Time: **10-10-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983546

	Date	Time	Scale
In:	10/10/2018	08:48:37	CESPSCALE1
Out:	10/10/2018	08:49:00	

Manifest: 1818338

Vehicle ID: 15ZEL11

	Lbs.	Tns
Gross:	73020.00	36.51
Tare:	27700.00	13.85
Net:	45320.00	22.66

Vehicle Permit:

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.6600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818338

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards 22.64

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: William E Colvial for US ARMY Title: BEAC ENV COORD
Signature: William E Colvial for US ARMY Date and Time: 10/09/18 1500 hrs

TRANSPORTER

Company: Zelia Phone Number: 973 337-0427
Address: 175 Jordan colonia NJ Truck # and License Plate: # 11 AR347F
Driver: Antonio Martinez SW Haulers Permit #: _____
(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: 10/10/18**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: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983561

	Date	Time	Scale
In:	10/10/2018	08:57:31	CESPSCALE1
Out:	10/10/2018	08:57:48	

Manifest: 1756102

	Lbs.	Tns
Gross:	70380.00	35.19
Tare:	25220.00	12.61
Net:	45160.00	22.58

Vehicle ID: 15ABT13

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.5800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756102

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 22.58
GENERATOR'S PHONE: 732-383-5104	

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: **William R Colvin for US ARMY** Title: **BEAC ENV Coord**
Signature: **William R Colvin for US ARMY** Date and Time: **10/09/18 1532hrs**

TRANSPORTER

Company: **ED P/ Agliano** Phone Number: _____
Address: **Camp S Heng Pa.** Truck # and License Plate: **AG34186 13**
Driver: **Ed Lensie** SW Haulers Permit #: **WHO 324**
(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 Lensie** Date and Time: **10/10/18 0733**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: **Ed Lensie** Date and Time: **10/10/18 0900**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **Jimmy M...** Date and Time: **10-10-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983592

	Date	Time	Scale
In:	10/10/2018	09:09:26	CESPSCALE1
Out:	10/10/2018	09:10:20	

Manifest: 1756103

	Lbs.	Tns
Gross:	72400.00	36.20
Tare:	24840.00	12.42
Net:	47560.00	23.78

Vehicle ID: 15EDP276

Vehicle Permit: WH13802

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.7800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756103

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700		TARE WEIGHT:	
Oceanport, NJ 07757		☒ Tons ☐ Yards	
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT:	
		☒ Tons ☐ Yards 23.78	
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: William R Colvin for US ARMY		Title: BRAC ENV Coord	
Signature: William R Colvin for US ARMY		Date and Time: 10/09/18 1531 hrs 700	
TRANSPORTER			
Company: EDP TRANSPORT		Phone Number: 215-805-6774	
Address: Coopersburg PA		Truck # and License Plate: 276 AG06998	
Driver: James Meyers		SW Haulers Permit #: 13802	
(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: 10-9-18 745	
DESTINATION			
I hereby certify that the above named material was delivered without incident to the facility noted above.			
Driver Signature: [Signature]		Date and Time: 10-9-18	
I hereby certify that the above named material has been accepted at the above referenced facility.			
Authorized Signature: [Signature]		Date and Time: 10-10-10	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983600

	Date	Time	Scale
In:	10/10/2018	09:13:45	CESPSCALE1
Out:	10/10/2018	09:14:36	

Manifest: 1756104

	Lbs.	Tns
Gross:	75040.00	37.52
Tare:	24980.00	12.49
Net:	50060.00	25.03

Vehicle ID: 15SOL05

Vehicle Permit: WH19086

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.0300	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756104

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700		TARE WEIGHT:	
Oceanport, NJ 07757		☒ Tons ☐ Yards	
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards	
		25.03	
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: William R Colvin for US ARMY		Title: BRAC ENV Coord	
Signature: William R Colvin for US ARMY		Date and Time: 10/09/18 1530hrs	
TRANSPORTER			
Company: FT Transport / Solebury Constructors		Phone Number: 215-805-6774	
Address: Coopersberg PA 18036		Truck # and License Plate: TK-S AG 69367	
Driver: Ian Stewart		SW Haulers Permit #: WH-19086	
(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: Ian Stewart		Date and Time: 10-10-18	
DESTINATION			
I hereby certify that the above named material was delivered without incident to the facility noted above.			
Driver Signature: Ian Stewart		Date and Time: 10-10-18	
I hereby certify that the above named material has been accepted at the above referenced facility.			
Authorized Signature: James Martin		Date and Time: 10-10-18	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983615

	Date	Time	Scale
In:	10/10/2018	09:22:33	CESPSCALE1
Out:	10/10/2018	09:22:57	

Manifest: 1756105

	Lbs.	Tns
Gross:	74060.00	37.03
Tare:	24920.00	12.46
Net:	49140.00	24.57

Vehicle ID: 15DRW91

Vehicle Permit: WH16240

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.5700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756105

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth Parcel 49/Building 700 Oceanport, NJ 07757	GROSS WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	TARE WEIGHT: ☒ Tons ☐ Yards
	NET WEIGHT: ☒ Tons ☐ Yards 24.57
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: William R Colvin for US ARMY Title: BRAC ENV COORD Signature: William R Colvin for US ARMY Date and Time: 10/09/18 1529 hrs	
TRANSPORTER Company: EDP/DEW Phone Number: 215-805-6724 Address: Croftsbury Truck # and License Plate: 91-AF83411 Driver: Dave W. [unclear] SW Haulers Permit #: WH16240 (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: 10-10-18	
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: 10-10-18	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983626

	Date	Time	Scale
In:	10/10/2018	09:27:03	CESPSCALE1
Out:	10/10/2018	09:27:19	

Manifest: 1756107

Vehicle ID: 15COS03

Vehicle Permit: wh15212

Customer AWT, INC.

	Lbs.	Tns
Gross:	69060.00	34.53
Tare:	27380.00	13.69
Net:	41680.00	20.84

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	20.8400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756107

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	20.84

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: William R Colvin for US Army Title: BRAC ENV COORD
Signature: William R Colvin for US Army Date and Time: 10/09/18 1527 hours

TRANSPORTER

Company: CUSTA Haulers Phone Number: _____
Address: Columbus NJ Truck # and License Plate: #B AS 864B
Driver: DAVID Babin SW Haulers Permit #: 13367
(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: 10/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10/10/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983645

	Date	Time	Scale
In:	10/10/2018	09:35:01	CESPSCALE1
Out:	10/10/2018	09:35:20	

Manifest: 1756106

	Lbs.	Tns
Gross:	74200.00	37.10
Tare:	25520.00	12.76
Net:	48680.00	24.34

Vehicle ID: 15PRO201

Vehicle Permit: WH18505

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.3400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756106

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 24.34
GENERATOR'S PHONE: 732-383-5104	

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: William E Colvin for US ArmyTitle: BRAC ENV CouncilSignature: William E Colvin US ArmyDate and Time: 10/09/18 1528 hrs**TRANSPORTER**Company: EDP/PROGRESSIVE PROPAWICPhone Number: 215 805-6774Address: 39 E CHERRY RD QUAKERTOWN PATruck # and License Plate: 201 AG-60335Driver: ALAN TATESW Haulers Permit #: WH 18505

(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: 10-10-18 8:00**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature]Date and Time: 10-10-18 8:00

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature]Date and Time: 10-10-18**FACILITY**

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983704

	Date	Time	Scale
In:	10/10/2018	09:54:27	CESPSCALE1
Out:	10/10/2018	09:54:45	

Manifest: 1756108

	Lbs.	Tns
Gross:	66240.00	33.12
Tare:	27820.00	13.91
Net:	38420.00	19.21

Vehicle ID: 15COS04

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	19.2100	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756108

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 19.21
GENERATOR'S PHONE: 732-383-5104	
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: William R Colvin for US Army Title: BRA ENV Coord Signature: William R Colvin for US Army Date and Time: 10/09/18 1525 hrs	
TRANSPORTER Company: Costa Haulers LLC Phone Number: 609-977-1655 Address: Columbus NJ 08022 Truck # and License Plate: A53145 Driver: Chris Hall SW Haulers Permit #: _____ (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: Chris Hall Date and Time: 8:26am 10/10/2018	
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Chris Hall Date and Time: _____ I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: Jimmy Mat Date and Time: 10-10-18	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983806

	Date	Time	Scale
In:	10/10/2018	10:36:05	CESPSCALE1
Out:	10/10/2018	10:36:26	

Manifest: 1756109

	Lbs.	Tns
Gross:	67920.00	33.96
Tare:	25980.00	12.99
Net:	41940.00	20.97

Vehicle ID: 15COS07

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	20.9700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756109

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT:
Oceanport, NJ 07757		☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards
20.97		
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: William R Colvin for US Army		Title: BRAC EOD CORP
Signature: William R Colvin for US Army		Date and Time: 10/07/18 1525 hrs.
TRANSPORTER		
Company: Costa Haulers		Phone Number: 856-341-4412
Address: 11 Fairmont Drive, Colonia, NJ		Truck # and License Plate: #7 AT222A
Driver: Michael Corley (Type or Print Clearly)		SW Haulers Permit #: _____ (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: 10-10-18
DESTINATION		
I hereby certify that the above named material was delivered without incident to the facility noted above.		
Driver Signature: [Signature]		Date and Time: 10-10-18
I hereby certify that the above named material has been accepted at the above referenced facility.		
Authorized Signature: [Signature]		Date and Time: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983900

	Date	Time	Scale
In:	10/10/2018	11:21:41	CESPSCALE1
Out:	10/10/2018	11:22:05	

Manifest: 1756111

	Lbs.	Tns
Gross:	75720.00	37.86
Tare:	27700.00	13.85
Net:	48020.00	24.01

Vehicle ID: 15ZEL11

Vehicle Permit: WH4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.0100	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756111

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards	
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards	24.01 Tg
GENERATOR'S PHONE: 732-383-5104		
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: <u>William R Colvin for US Army</u>	Title: <u>BEAC ENV Coord</u>	
Signature: <u>William R Colvin for US Army</u>	Date and Time: <u>10/09/18 1523 hrs</u>	
TRANSPORTER		
Company: <u>Zelia</u>	Phone Number:	
Address: <u>175 Jordan Colonia NJ</u>	Truck # and License Plate: <u>#11 AR347F</u>	
Driver: <u>Antonio Martinez</u>	SW Haulers Permit #: <u>WH4835/5/19</u>	
(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: <u>[Signature]</u>	Date and Time: <u>10/10/18</u>	
DESTINATION		
I hereby certify that the above named material was delivered without incident to the facility noted above.		
Driver Signature: <u>[Signature]</u>	Date and Time: <u>10/10/18</u>	
I hereby certify that the above named material has been accepted at the above referenced facility.		
Authorized Signature: <u>[Signature]</u>	Date and Time: <u>10/10/18</u>	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983931

	Date	Time	Scale
In:	10/10/2018	11:33:26	CESPSCALE1
Out:	10/10/2018	11:33:44	

Manifest: 1756110

	Lbs.	Tns
Gross:	75500.00	37.75
Tare:	28100.00	14.05
Net:	47400.00	23.70

Vehicle ID: 15ZEL17

Vehicle Permit: WH4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.7000	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756110

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757		NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		73.70 Tn
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: <u>William R Colvin for US Army</u> Title: <u>BRAC ENV COORD</u> Signature: <u>William R Colvin for US Army</u> Date and Time: <u>10/09/18 1524 hours</u>		
TRANSPORTER Company: <u>ZELIA-TRUCKING</u> Phone Number: _____ Address: <u>175 JORDAN RD</u> Truck # and License Plate: <u>AT598L - 17</u> Driver: <u>JOSE F LOPEZ</u> SW Haulers Permit #: _____ (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: <u>[Signature]</u> Date and Time: <u>10/10/18 10:20</u>		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: <u>[Signature]</u> Date and Time: <u>10/10/18</u> I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>[Signature]</u> Date and Time: <u>10/10/18</u>		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983944

	Date	Time	Scale
In:	10/10/2018	11:40:36	CESPSCALE1
Out:	10/10/2018	11:41:15	

Manifest: 1756112

	Lbs.	Tns
Gross:	68140.00	34.07
Tare:	25220.00	12.61
Net:	42920.00	21.46

Vehicle ID: 15ABT13

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	21.4600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756112

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757		
GENERATOR'S PHONE: 732-383-5104		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: William R. Colon for US Army Title: BRAE ENV COORD Signature: William R. Colon for US Army Date and Time: 10/09/18 1522 HRS		
TRANSPORTER Company: EDP/Agliano Phone Number: _____ Address: Casperburg Pa Truck # and License Plate: AG34186 PA 13 Driver: Ed Lensie SW Haulers Permit #: WHC 334 (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: 10/10/18 1030		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: [Signature] Date and Time: 10/10/18 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10-10-18		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983985

	Date	Time	Scale
In:	10/10/2018	12:03:11	CESPSCALE1
Out:	10/10/2018	12:03:43	

Manifest: 1756113

	Lbs.	Tns
Gross:	73820.00	36.91
Tare:	24840.00	12.42
Net:	48980.00	24.49

Vehicle ID: 15EDP276

Vehicle Permit: WH13802

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.4900	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756113

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT:
Oceanport, NJ 07757		☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards
22.49 Tn		
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: William R Colvin for US Army		Title: BRAC ENV CODE
Signature: William R Colvin for US Army		Date and Time: 10/10/18 1521 hrs
1030		
TRANSPORTER		
Company: EDP TRANSPORT		Phone Number: 215-805-6774
Address: Coopersburg PA		Truck # and License Plate: 276 AB-06798
Driver: James Meyers		SW Haulers Permit #: 13802
(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: 10-10-18 1055
DESTINATION		
I hereby certify that the above named material was delivered without incident to the facility noted above.		
Driver Signature: [Signature]		Date and Time: 10-10-18 12
I hereby certify that the above named material has been accepted at the above referenced facility.		
Authorized Signature: [Signature]		Date and Time: 10/10/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000983998

	Date	Time	Scale
In:	10/10/2018	12:11:26	CESPSCALE1
Out:	10/10/2018	12:11:53	

Manifest: 1756114

	Lbs.	Tns
Gross:	75920.00	37.96
Tare:	24980.00	12.49
Net:	50940.00	25.47

Vehicle ID: 15SOL05

Vehicle Permit: WH19086

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.4700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756114

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757		NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		25.47 Tg
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: William R. Colvin, Jr. US Army Title: BRAC ENV Coord Signature: William R. Colvin, Jr. US Army Date and Time: 10/09/18 1520 hrs		
TRANSPORTER Company: EDP Transport / Solebury Construction Phone Number: 215-805-6774 Address: Coopersburg PA 18036 Truck # and License Plate: TK-5 AG 69367 Driver: Ian Stewart SW Haulers Permit #: WH-19086 1/19 (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: Ian Stewart Date and Time: 10-10-18		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Ian Stewart Date and Time: 10-10-18 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10/10/18		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984009

	Date	Time	Scale
In:	10/10/2018	12:18:25	CESPSCALE1
Out:	10/10/2018	12:19:03	

Manifest: 1756115

	Lbs.	Tns
Gross:	72000.00	36.00
Tare:	24920.00	12.46
Net:	47080.00	23.54

Vehicle ID: 15DRW91

Vehicle Permit: WH16240

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.5400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756115

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757		NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		23.54 Tg
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: William E. Colvin for US Army Title: BRAC ENV Coord Signature: William E. Colvin for US Army Date and Time: 10/09/18 1519 HRS		
TRANSPORTER		
Company: EDP/DRW Phone Number: 215-805-6774		Truck # and License Plate: 91-AP 83411
Address: Coopersburg		SW Haulers Permit #: WH 16240
Driver: Dave Wilson (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: 10-10-18
DESTINATION		
I hereby certify that the above named material was delivered without incident to the facility noted above.		
Driver Signature: [Signature]		Date and Time: 10/10/18
I hereby certify that the above named material has been accepted at the above referenced facility.		
Authorized Signature: [Signature]		Date and Time: 10/10/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984024

	Date	Time	Scale
In:	10/10/2018	12:26:45	CESPSCALE1
Out:	10/10/2018	12:27:15	

Manifest: 1756116

	Lbs.	Tns
Gross:	70260.00	35.13
Tare:	27380.00	13.69
Net:	42880.00	21.44

Vehicle ID: 15COS03

Vehicle Permit: wh15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	21.4400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756116

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	21.44 Tg
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: William R Colvin for US Army Title: BRAC ENV Coord
Signature: William R. Colvin for US Army Date and Time: 10/09/18 1518 hrs

TRANSPORTER

Company: COSTA Haulers Phone Number: _____
Address: Columbus NJ Truck # and License Plate: #3 AS864B
Driver: DAVID Bohn SW Haulers Permit #: 13363
(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: Dave Date and Time: 10/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dave Date and Time: 10/10/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10/10/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984031

	Date	Time	Scale
In:	10/10/2018	12:30:02	CESPSCALE1
Out:	10/10/2018	12:30:37	

Manifest: 1756117

	Lbs.	Tns
Gross:	69960.00	34.98
Tare:	27620.00	13.81
Net:	42340.00	21.17

Vehicle ID: 15ZEL14

Vehicle Permit: Wh4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	21.1700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756117

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757		
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards
21.17 13		
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: William R Colvin for US Army Title: BRAC ENV COORD Signature: William R Colvin for US Army Date and Time: 10/09/18 1519HRS		
TRANSPORTER		
Company: Zelia		Phone Number: 14
Address: 175 JORDAN RD		Truck # and License Plate: AU568C
Driver: DIMAN CAYILLO		SW Haulers Permit #: (applicable state permit #)
I hereby certify that the above named material was picked up at the site listed above.		
Driver Signature: Diman Cayillo		Date and Time: 10-10-18
DESTINATION		
I hereby certify that the above named material was delivered without incident to the facility noted above.		
Driver Signature: Diman Cayillo		Date and Time: 10/10/18
I hereby certify that the above named material has been accepted at the above referenced facility.		
Authorized Signature: JMa		Date and Time: 10/10/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984043

	Date	Time	Scale
In:	10/10/2018	12:35:46	CESPSCALE1
Out:	10/10/2018	12:36:33	

Manifest: 1756119

	Lbs.	Tns
Gross:	61080.00	30.54
Tare:	27820.00	13.91
Net:	33260.00	16.63

Vehicle ID: 15COS04

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	16.6300	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756119

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT:
Parcel 49/Building 700		☒ Tons ☐ Yards
Oceanport, NJ 07757		TARE WEIGHT:
GENERATOR'S PHONE: 732-383-5104		☒ Tons ☐ Yards
DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Non-Hazardous Soil		NET WEIGHT:
		☒ Tons ☐ Yards 16,431g
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: William E. Colvin for US Army		Title: BRAC ENV COORD
Signature: William E. Colvin for US Army		Date and Time: 10/09/18 1517 HRS
TRANSPORTER		
Company: Costa Haulers LLC		Phone Number: 609 947 1655
Address: Columbus NJ 08022		Truck # and License Plate: AS3145
Driver: Chris Hall #4		SW Haulers Permit #: _____ (applicable state permit #)
I hereby certify that the above named material was picked up at the site listed above.		
Driver Signature: Chris Hall		Date and Time: 10/10/2018 11:17 AM
DESTINATION		
I hereby certify that the above named material was delivered without incident to the facility noted above.		
Driver Signature: Chris Hall		Date and Time: 10/10/18
I hereby certify that the above named material has been accepted at the above referenced facility.		
Authorized Signature: [Signature]		Date and Time: 10/10/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984061

	Date	Time	Scale
In:	10/10/2018	12:46:05	CESPSCALE1
Out:	10/10/2018	12:46:43	

Manifest: 1756118

	Lbs.	Tns
Gross:	75320.00	37.66
Tare:	25520.00	12.76
Net:	49800.00	24.90

Vehicle ID: 15PRO201

Vehicle Permit: WH18505

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.9000	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756118

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards	
Oceanport, NJ 07757		
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards	24.90
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: William R Colvin for US Army Title: BRAC ENV COORD Signature: William R Colvin for US Army Date and Time: 10/09/18 15:17 hrs		
TRANSPORTER Company: EDP/PROGRESSIVE PREPAVE Phone Number: 215-805-6774 Address: 39 E CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 AG 60335 Driver: ALAN TATE SW Haulers Permit #: WH 18505 (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: 10-10-18 11:15		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: [Signature] Date and Time: 10-10-18 11:15 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10-10-18		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984078

	Date	Time	Scale
In:	10/10/2018	12:55:15	CESPSCALE1
Out:	10/10/2018	12:55:35	

Manifest: 1756120

	Lbs.	Tns
Gross:	66960.00	33.48
Tare:	25980.00	12.99
Net:	40980.00	20.49

Vehicle ID: 15COS07

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	20.4900	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756120

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards	
Oceanport, NJ 07757			
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards 20.49	
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: William M. Colvin for US Army Title: BRAC ENV COORD Signature: William M. Colvin for US Army Date and Time: 10/09/18 1516 HRS			
TRANSPORTER Company: Costa Haulers Phone Number: 856-341-4411 Address: 11 Fairmont Drive, Columbus, NJ Truck # and License Plate: #7 ADJEN Driver: Michael Carter SW Haulers Permit #: _____ (applicable state permit #) (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: [Signature] Date and Time: 10-10-18			
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: [Signature] Date and Time: 10-10-18 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10-10-18			

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984158

	Date	Time	Scale
In:	10/10/2018	14:11:15	CESPSCALE1
Out:	10/10/2018	14:11:56	

Manifest: 1756121

	Lbs.	Tns
Gross:	75100.00	37.55
Tare:	28100.00	14.05
Net:	47000.00	23.50

Vehicle ID: 15ZEL17

Vehicle Permit: WH4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.5000	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756121

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	23.50

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: William R Colvin for US Army Title: BRAC ENV COORD
Signature: William R Colvin for US Army Date and Time: 10/09/18 1515 hrs

TRANSPORTER

Company: ZELIA-TRUCKING Phone Number: _____
Address: 175 Jordan Rd Truck # and License Plate: AT5982 #17
Driver: JOSE LOPES SW Haulers Permit #: _____
(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: 10/10/18 2:00 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: 10/10/18
I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: [Signature] Date and Time: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984163

	Date	Time	Scale
In:	10/10/2018	14:14:46	CESPSCALE1
Out:	10/10/2018	14:15:33	

Manifest: 1756122

	Lbs.	Tns
Gross:	73100.00	36.55
Tare:	27700.00	13.85
Net:	45400.00	22.70

Vehicle ID: 15ZEL11

Vehicle Permit: WH4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.7000	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756122

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	22,71 / y

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: William P Colvin for US Army Title: BRAC ENV COORD
Signature: William P Colvin for US Army Date and Time: 10/09/18 1514 HRS

TRANSPORTER

Company: Zelia Phone Number: _____
Address: 175 Jordan colon a m Truck # and License Plate: #11 AR347F
Driver: A martinez SW Haulers Permit #: _____
(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: 10/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10/10/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 10/10/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984189

	Date	Time	Scale
In:	10/10/2018	14:33:19	CESPSCALE1
Out:	10/10/2018	14:33:41	

Manifest: 1756123

	Lbs.	Tns
Gross:	74320.00	37.16
Tare:	24840.00	12.42
Net:	49480.00	24.74

Vehicle ID: 15EDP276

Vehicle Permit: WH13802

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.7400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756123

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700	TARE WEIGHT:	
Oceanport, NJ 07757	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT:	
	☒ Tons ☐ Yards	24.74

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: William R Colvin for US Army Title: BRAC ENV COORD
Signature: William R Colvin for US Army Date and Time: 10/10/18 1508 HRS 120

TRANSPORTER

Company: EDP TRANSPORT Phone Number: 215-805-6174
Address: Coopersburg PA Truck # and License Plate: 276 AG-06998
Driver: James Meyer SW Haulers Permit #: 13302
(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: 10-10-18 127

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984223

	Date	Time	Scale
In:	10/10/2018	14:59:36	CESPSCALE1
Out:	10/10/2018	15:00:40	

Manifest: 1756125

	Lbs.	Tns
Gross:	73120.00	36.56
Tare:	24920.00	12.46
Net:	48200.00	24.10

Vehicle ID: 15DRW91

Vehicle Permit: WH16240

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.1000	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756125

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 24.10
GENERATOR'S PHONE: 732-383-5104	

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: **William R Colvin for US Army** Title: **ORAC ENV Coord**
Signature: **William R Colvin for US Army** Date and Time: **10/09/18 1505 hrs**

TRANSPORTER

Company: **EDP/DeW** Phone Number: **215-805-6724**
Address: **Coopersburg** Truck # and License Plate: **91-AF83411**
Driver: **Dale Wilson** SW Haulers Permit #: **WA-16240**
(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: **10-10-18**

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: **10-10-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984227

	Date	Time	Scale
In:	10/10/2018	15:02:33	CESPSCALE1
Out:	10/10/2018	15:02:56	

Manifest: 1756126

	Lbs.	Tns
Gross:	73020.00	36.51
Tare:	27380.00	13.69
Net:	45640.00	22.82

Vehicle ID: 15COS03

Vehicle Permit: wh15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.8200	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756126

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	22.82

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: **William R Colvin for US Army** Title: **BRAC ENV Coord**
Signature: **William R Colvin for US Army** Date and Time: **10/09/18 1504 HRS**

TRANSPORTER

Company: **COSTA Haulers** Phone Number: _____
Address: **Columbus NJ** Truck # and License Plate: **#3 AS864B**
Driver: **DAVID BAHEN** SW Haulers Permit #: **13743**
(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: **10/10/18**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: **10/10/18**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: **10-10-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984233

	Date	Time	Scale
In:	10/10/2018	15:07:25	CESPSCALE1
Out:	10/10/2018	15:07:46	

Manifest: 1756127

	Lbs.	Tns
Gross:	62920.00	31.46
Tare:	27820.00	13.91
Net:	35100.00	17.55

Vehicle ID: 15COS04

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	17.5500	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756127

GLOBAL JOB NUMBER: **150795**FACILITY APPROVAL NUMBER: **183150160****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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT:
Oceanport, NJ 07757		☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards 17.55
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: <u>William R Colvin for US Army</u> Title: <u>BRAC ENV Coord</u> Signature: <u>William R Colvin for US Army</u> Date and Time: <u>10/09/18 1503 hrs</u>		
TRANSPORTER Company: <u>Costa Haulers LLC.</u> Phone Number: <u>609 947 1655</u> Address: <u>Columbus NJ 08022</u> Truck # and License Plate: <u>AS3145</u> Driver: <u>Chris Hall</u> SW Haulers Permit #: _____ (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: <u>Chris Hall</u> Date and Time: <u>10/10/18 1:50 pm</u>		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: <u>Chris Hall</u> Date and Time: <u>1:50pm 10/10/18</u> I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>[Signature]</u> Date and Time: <u>10-10-18</u>		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984238

	Date	Time	Scale
In:	10/10/2018	15:09:41	CESPSCALE1
Out:	10/10/2018	15:10:36	

Manifest: 1756124

	Lbs.	Tns
Gross:	75780.00	37.89
Tare:	24980.00	12.49
Net:	50800.00	25.40

Vehicle ID: 15SOL05

Vehicle Permit: WH19086

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.4000	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1756124

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards 25.40

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: William R Calvin for US Army Title: BRAC ENV COORD
Signature: William R Calvin for US Army Date and Time: 10/09/18 1507 hrs

TRANSPORTER

Company: Ed Transport/solebray Constructors Phone Number: 215 805 6774
Address: Coopersburg PA Truck # and License Plate: TR-5 AG 69367
Driver: Jon Stewart SW Haulers Permit #: WH-1908K
(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: Jon Stewart Date and Time: 10-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Jon Stewart Date and Time: 10-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Jon Stewart Date and Time: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984255

	Date	Time	Scale
In:	10/10/2018	15:28:56	CESPSCALE1
Out:	10/10/2018	15:29:42	

Manifest: 1818369

	Lbs.	Tns
Gross:	78540.00	39.27
Tare:	27620.00	13.81
Net:	50920.00	25.46

Vehicle ID: 15ZEL14

Vehicle Permit: Wh4835

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.4600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818369

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	25.46

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: **William R Colvin for US ARMY** Title: **BEAC ENR COORD**
Signature: **William R Colvin for US ARMY** Date and Time: **10/10/18 1203 hrs**

TRANSPORTER

Company: **ZELIA** Phone Number: **14**
Address: **COLONIA NJ** Truck # and License Plate: **A0568C**
Driver: **DILMAN CASTILLO** SW Haulers Permit #: _____
(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: **10-10-18**

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: **10-10-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984261

	Date	Time	Scale
In:	10/10/2018	15:32:00	CESPSCALE1
Out:	10/10/2018	15:35:24	

Manifest: 1818368

	Lbs.	Tns
Gross:	75400.00	37.70
Tare:	25520.00	12.76
Net:	49880.00	24.94

Vehicle ID: 15PRO201

Vehicle Permit: WH18505

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.9400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818368

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	24.94
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: William E Colvin for US ARMY Title: BRAC ENV COORD Signature: William E Colvin for US ARMY Date and Time: 10/10/18 1204 hrs	
TRANSPORTER Company: EDP / PROGRESSIVE PROPANE Phone Number: 215-805-6774 Address: 39 E CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 AG60335 Driver: ALAN TATE SW Haulers Permit #: WH 18505 (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: 10-10-18 2:10	
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: [Signature] Date and Time: 10-10-18 2:10 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10-10-18	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984567

	Date	Time	Scale
In:	10/11/2018	08:56:38	CESPSCALE1
Out:	10/11/2018	08:57:07	

Manifest: 1818341

	Lbs.	Tns
Gross:	73660.00	36.83
Tare:	24920.00	12.46
Net:	48740.00	24.37

Vehicle ID: 15DRW91

Vehicle Permit: WH16240

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.3700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818341

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT:
Oceanport, NJ 07757		☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards
24.37		
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: <u>William R Colvin for US Army</u> Title: <u>BRAC ENV COORD</u> Signature: <u>William R Colvin for US Army</u> Date and Time: <u>10/10/18 1259 hrs</u>		
TRANSPORTER Company: <u>EDP/DPW</u> Phone Number: <u>215-805-6774</u> Address: <u>Capetown</u> Truck # and License Plate: <u>91-AP 83411</u> Driver: <u>Joe Wilson</u> SW Haulers Permit #: <u>WH-16240</u> (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: <u>[Signature]</u> Date and Time: <u>8-11-18</u>		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: <u>[Signature]</u> Date and Time: _____ I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>[Signature]</u> Date and Time: <u>10-11-18</u>		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984573

	Date	Time	Scale
In:	10/11/2018	09:00:56	CESPSCALE1
Out:	10/11/2018	09:01:18	

Manifest: 1818343

	Lbs.	Tns
Gross:	77200.00	38.60
Tare:	26680.00	13.34
Net:	50520.00	25.26

Vehicle ID: 15ABT28

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.2600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818343

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	25.26

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: **William R Calvin for US ARMY** Title: **BRA ENV COORD**
Signature: **William R Calvin for US ARMY** Date and Time: **10/10/18 1255 hrs**

TRANSPORTER

Company: **E & B / AGUIANO Bros** Phone Number: _____
Address: **COPENSBURY, PA** Truck # and License Plate: **28 / AE-39557**
Driver: **ISRAEL GARZA** SW Haulers Permit #: **WH 034**
(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: **10-11-2018**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: **[Signature]** Date and Time: **10-11-2018**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **[Signature]** Date and Time: **10-11-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984576

	Date	Time	Scale
In:	10/11/2018	09:03:11	CESPSCALE1
Out:	10/11/2018	09:03:37	

Manifest: 1818342

	Lbs.	Tns
Gross:	73460.00	36.73
Tare:	25220.00	12.61
Net:	48240.00	24.12

Vehicle ID: 15ABT13

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.1200	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818342

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	24.12

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: William R Colvin for US ARMY Title: BRAC ENV COORD
Signature: William R Colvin for US ARMY Date and Time: 10/10/18 1256 hrs

TRANSPORTER

Company: EDP/Agland Phone Number: _____
Address: Cypressburg Rd Truck # and License Plate: AG34186PA #13
Driver: Ed Lense SW Haulers Permit #: WHC 324
(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: 10/11/18 0730

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10/11/18 0900

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984591

	Date	Time	Scale
In:	10/11/2018	09:12:52	CESPSCALE1
Out:	10/11/2018	09:13:44	

Manifest: 1818344

	Lbs.	Tns
Gross:	74020.00	37.01
Tare:	25520.00	12.76
Net:	48500.00	24.25

Vehicle ID: 15PRO201

Vehicle Permit: WH18505

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.2500	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818344

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards 24.25

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: William R Colvin for USA Army Title: BAC ENV COORD
Signature: William R Colvin for USA Army Date and Time: 10/10/18 1254 hrs

TRANSPORTER

Company: EDP / PROGRESSIVE PROPANE Phone Number: 215-805-6774
Address: 39 E CHEMUNDA QUAKERTOWN PA Truck # and License Plate: 201 AG 60335
Driver: ALAN TATE SW Haulers Permit #: WH 18505
(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: 10-11-18 7:45

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10-11-18 7:45

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984612

	Date	Time	Scale
In:	10/11/2018	09:28:01	CESPSCALE1
Out:	10/11/2018	09:28:27	

Manifest: 1818347

	Lbs.	Tns
Gross:	71020.00	35.51
Tare:	28500.00	14.25
Net:	42520.00	21.26

Vehicle ID: 15GAP11

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	21.2600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818347

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	21.26

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: William R Calvin for US ARMY

Title:

BRAC ENV CoordSignature: William R Calvin for US ARMY

Date and Time:

10/10/18 1250 hrs

TRANSPORTER

Company: G.A. Park Exc.

Phone Number:

215 723 7830Address: 2850 Clymer Ave Telford Pa 18969

Truck # and License Plate:

11 AF 39406Driver: RANDY LEMON

SW Haulers Permit #:

6795

(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: RE Lemon

Date and Time:

10-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature]

Date and Time:

10-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature]

Date and Time:

10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984638

	Date	Time	Scale
In:	10/11/2018	09:34:26	CESPSCALE1
Out:	10/11/2018	09:44:20	CESPSCALE1

Manifest: 1818346

Vehicle ID: 15GAP21

	Lbs.	Tns
Gross:	74380.00	37.19
Tare:	28840.00	14.42
Net:	45540.00	22.77

Vehicle Permit:

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.7700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



6ap81

Manifest # 1818346

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	22.77

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: William R. Colvin for US Army Title: BRAC ENV CARD
Signature: William R. Colvin for US Army Date and Time: 10/10/18 1251 hrs

TRANSPORTER

Company: G.A. PEAK Phone Number: 215-723-7830
Address: 2850 CLYMER AVE Telford, PA Truck # and License Plate: 21 AG-74507
Driver: MIKE SNELL SW Haulers Permit #: 6795
(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: 10/11/18 8:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.
Driver Signature: [Signature] Date and Time: _____
I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984647

	Date	Time	Scale
In:	10/11/2018	09:49:25	CESPSCALE1
Out:	10/11/2018	09:49:59	

Manifest: 1818345

	Lbs.	Tns
Gross:	73180.00	36.59
Tare:	27300.00	13.65
Net:	45880.00	22.94

Vehicle ID: 15GAP16

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.9400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818345

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	22.94

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: William R. Colvin for US ARMY
Signature: William R. Colvin for US ARMY

Title: BRAC ENV COORD
Date and Time: 10/10/18 1253 hrs

TRANSPORTER

Company: G.A. Peak Etc.
Address: 2850 Elymer Ave. Jelford, Pa.
Driver: Mark Atkinson
(Type or Print Clearly)

Phone Number: 215-723-7830
Truck # and License Plate: #16 AG-12728
SW Haulers Permit #: WH6795
(applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 10/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 10/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984652

	Date	Time	Scale
In:	10/11/2018	09:52:43	CESPSCALE1
Out:	10/11/2018	09:53:19	

Manifest: 1818348

	Lbs.	Tns
Gross:	74140.00	37.07
Tare:	24980.00	12.49
Net:	49160.00	24.58

Vehicle ID: 15SOL05

Vehicle Permit: WH19086

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.5800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818348

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards 24.58

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: William R Colvin for US ARMY Title: BRAC ENV COORD
Signature: William R Colvin for US ARMY Date and Time: 10/10/18 1248 hrs

TRANSPORTER

Company: EDP Transport / Solebury Const. Phone Number: 215-805-6774
Address: Coopersburg PA 18036 Truck # and License Plate: TK-5 AG 69367
Driver: Ian Stewart SW Haulers Permit #: WH-19086
(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: Ian Stewart Date and Time: 10-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.
Driver Signature: Ian Stewart Date and Time: 10-11-18
I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984664

	Date	Time	Scale
In:	10/11/2018	10:00:52	CESPSCALE1
Out:	10/11/2018	10:01:16	

Manifest: 1818350

	Lbs.	Tns
Gross:	72260.00	36.13
Tare:	25980.00	12.99
Net:	46280.00	23.14

Vehicle ID: 15COS07

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.1400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818350

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	23.14

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: **William R. Colvin for US Army** Title: **BRAC ENV COORD**
Signature: **William R. Colvin for US Army** Date and Time: **10/10/18 1245 hrs**

TRANSPORTER

Company: **Costa Haulers** Phone Number: **800-341-4412**
Address: **11 Fairmont Drive, Columbus, NJ** Truck # and License Plate: **#7 AT222N**
Driver: **Michael Carter** SW Hauler Permit #: _____
(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: **Michael Carter** Date and Time: **10/11/18**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: **10-11-18**
I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: **Jimmy Martin** Date and Time: **10-11-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984681

	Date	Time	Scale
In:	10/11/2018	10:06:57	CESPSCALE1
Out:	10/11/2018	10:07:38	

Manifest: 1818349

	Lbs.	Tns
Gross:	71720.00	35.86
Tare:	27380.00	13.69
Net:	44340.00	22.17

Vehicle ID: 15COS03

Vehicle Permit: wh15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.1700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818349

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 22.17
GENERATOR'S PHONE: 732-383-5104	

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: **William R Colvin for US Army** Title: **BRAC ENV COORD**
Signature: **William R Colvin for US Army** Date and Time: **10/10/18 1247 hrs**

TRANSPORTER

Company: **COSTA HAULERS** Phone Number: _____
Address: **Columbus NJ** Truck # and License Plate: **#3 A5864B**
Driver: **DAVID BAKER** SW Haulers Permit #: **13363**
(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: **10/11/18**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: **[Signature]** Date and Time: **10/11/18**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **[Signature]** Date and Time: **10-11-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984805

	Date	Time	Scale
In:	10/11/2018	11:33:57	CESPSCALE1
Out:	10/11/2018	11:34:17	

Manifest: 1818351

	Lbs.	Tns
Gross:	74760.00	37.38
Tare:	24920.00	12.46
Net:	49840.00	24.92

Vehicle ID: 15DRW91

Vehicle Permit: WH16240

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.9200	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818351

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards 24.92

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: **William R. Colvin for US ARMY** Title: **BEAC ENV COORD**
Signature: **William R. Colvin for US ARMY** Date and Time: **10/10/18 1244 HRS**

TRANSPORTER

Company: **CDP/DRA** Phone Number: **215-805-6224**
Address: **Coppsburg** Truck # and License Plate: **91-AF 8344**
Driver: **David W. Lister** SW Haulers Permit #: **W14-16240**
(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: **10-11-18**

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: **10-11-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984837

	Date	Time	Scale
In:	10/11/2018	11:53:51	CESPSCALE1
Out:	10/11/2018	11:54:34	

Manifest: 1818352

	Lbs.	Tns
Gross:	69920.00	34.96
Tare:	25220.00	12.61
Net:	44700.00	22.35

Vehicle ID: 15ABT13

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.3500	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818352

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	22.35

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: **William R Calvin for US ARMY** Title: **BRAC ENV COORD**
Signature: **William R Calvin for US ARMY** Date and Time: **10/10/18 1242hrs**

TRANSPORTER

Company: **EDP/Agilant** Phone Number: _____
Address: **Coopersburg Pa** Truck # and License Plate: **AG34186 Pa #13**
Driver: **Ed Lense** SW Haulers Permit #: **WH0374**
(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: **10/11/18 1032**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: **[Signature]** Date and Time: **10/11/18 1155**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **[Signature]** Date and Time: **10-11-18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984857

	Date	Time	Scale
In:	10/11/2018	12:09:11	CESPSCALE1
Out:	10/11/2018	12:09:28	

Manifest: 1818353

	Lbs.	Tns
Gross:	72040.00	36.02
Tare:	25520.00	12.76
Net:	46520.00	23.26

Vehicle ID: 15PRO201

Vehicle Permit: WH18505

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.2600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818353

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	23,24 Tz
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: **William R Colvin for US ARMY** Title: **BRAC ENV COORD**
Signature: **William R Colvin for US ARMY** Date and Time: **10/10/18 1241 hrs**

TRANSPORTER

Company: **EOP/PROGRESSIVE PROPANE** Phone Number: **215 805-6774**
Address: **39 E. MERCY RD QUAKERTOWN PA** Truck # and License Plate: **201 AG 60335**
Driver: **ALAN TATE** SW Haulers Permit #: **WH 18505**
(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: **10-11-18 10:45**

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: **[Signature]** Date and Time: **10-11-18 10:45**

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **[Signature]** Date and Time: **10/11/18**

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984893

	Date	Time	Scale
In:	10/11/2018	12:30:52	CESPSCALE1
Out:	10/11/2018	12:31:52	

Manifest: 1818354

	Lbs.	Tns
Gross:	75640.00	37.82
Tare:	28860.00	14.43
Net:	46780.00	23.39

Vehicle ID: 15GAP21

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.3900	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818354

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards	
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards	
Oceanport, NJ 07757		NET WEIGHT: ☒ Tons ☐ Yards	
GENERATOR'S PHONE: 732-383-5104		23 39 Tg	
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: <u>William R Colvin for US Army</u> Title: <u>BEAC ENV COORD</u> Signature: <u>William R Colvin for US Army</u> Date and Time: <u>10/10/18 1240 hrs</u>			
TRANSPORTER Company: <u>GAREAR</u> Phone Number: <u>215-723-7830</u> Address: <u>2850 CLYMER AVE TELFORD, PA</u> Truck # and License Plate: <u>21 AG-74507</u> Driver: <u>MIKE SNEEL</u> SW Haulers Permit #: <u>6795</u> (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: <u>[Signature]</u> Date and Time: <u>10/10/18 11:00</u>			
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: <u>[Signature]</u> Date and Time: <u>10/10/18</u> I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>[Signature]</u> Date and Time: <u>10/11/18</u>			

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984898

	Date	Time	Scale
In:	10/11/2018	12:34:33	CESPSCALE1
Out:	10/11/2018	12:35:12	

Manifest: 1818355

	Lbs.	Tns
Gross:	64980.00	32.49
Tare:	28500.00	14.25
Net:	36480.00	18.24

Vehicle ID: 15GAP11

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	18.2400	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818355

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	18.24 T

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: **William E Colvin for US ARMY**

Title:

BRAC ENV COORDSignature: **William E Colvin for US ARMY**

Date and Time:

10/11/18 1238 hrs

TRANSPORTER

Company: **G.A. Peak Exc.**

Phone Number:

215 723-7830Address: **2850 Clymer Ave Telford Pa 18969**

Truck # and License Plate:

11 AF 39406Driver: **RANDY LEMON**

SW Haulers Permit #:

6795

(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: **R Lemon**

Date and Time:

10-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: **R Lemon**

Date and Time:

10-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: **[Signature]**

Date and Time:

10/11/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984900

	Date	Time	Scale
In:	10/11/2018	12:37:03	CESPSCALE1
Out:	10/11/2018	12:38:17	

Manifest: 1818356

	Lbs.	Tns
Gross:	75220.00	37.61
Tare:	27300.00	13.65
Net:	47920.00	23.96

Vehicle ID: 15GAP16

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.9600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818356

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards 23.96 Tn

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: William E. Colvin for US Army

Title:

BRAC ENV CODEDSignature: William E. Colvin for US Army

Date and Time:

10/10/18 1237 hrs.

TRANSPORTER

Company: G.A. Peak Epc

Phone Number:

215.723.7830Address: 2850 Clymer Ave

Truck # and License Plate:

#16 AG-12728Driver: Mark Atkinson

SW Haulers Permit #:

SW6795

(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: Mark Atkinson

Date and Time:

10/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson

Date and Time:

10/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature]

Date and Time:

10/11/18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984908

	Date	Time	Scale
In:	10/11/2018	12:44:07	CESPSCALE1
Out:	10/11/2018	12:45:05	

Manifest: 1818357

	Lbs.	Tns
Gross:	76480.00	38.24
Tare:	24980.00	12.49
Net:	51500.00	25.75

Vehicle ID: 15SOL05

Vehicle Permit: WH19086

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.7500	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818357

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards 25.75 T
GENERATOR'S PHONE: 732-383-5104	
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: William R Calvin for US ARMY Title: BRAC ENV COORD Signature: William R Calvin for US ARMY Date and Time: 10/10/18 1235 hrs	
TRANSPORTER Company: EDP Transport/ Solebury Const Phone Number: 215-805-6774 Address: Coopersburg PA 18036 Truck # and License Plate: TK-5 AG 69367 Driver: Ian Stewart SW Haulers Permit #: WH-19086 (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: Ian Stewart Date and Time: 10-11-18	
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Ian Stewart Date and Time: 10-11-18 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10/11/18	

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984934

	Date	Time	Scale
In:	10/11/2018	13:08:45	CESPSCALE1
Out:	10/11/2018	13:09:07	

Manifest: 1818359

	Lbs.	Tns
Gross:	70760.00	35.38
Tare:	25980.00	12.99
Net:	44780.00	22.39

Vehicle ID: 15COS07

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	22.3900	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818359

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	22.39

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: William R Colvin for US ARMY Title: BEAC ENV COORD
Signature: William R Colvin for US ARMY Date and Time: 10/10/18 1231 hrs

TRANSPORTER

Company: Costa Haulers Phone Number: 866-341-4412
Address: 11 Fairmont Ave Columbus NJ Truck # and License Plate: #7 AT2JXN
Driver: Michael Carter SW Haulers Permit #: _____
(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: 10-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Jung Martin Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984941

	Date	Time	Scale
In:	10/11/2018	13:14:19	CESPSCALE1
Out:	10/11/2018	13:15:06	

Manifest: 1818358

	Lbs.	Tns
Gross:	73520.00	36.76
Tare:	27380.00	13.69
Net:	46140.00	23.07

Vehicle ID: 15COS03

Vehicle Permit: wh15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	23.0700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818358

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	23.07

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: William E Colvin for US ARMY Title: BRAC ENV COORD
Signature: William E Colvin for US ARMY Date and Time: 10/10/18 1232 hrs

TRANSPORTER

Company: COSTA Haulers Phone Number: _____
Address: Colmaabus NT Truck # and License Plate: #3 AS864B
Driver: DAVID BAHEN SW Haulers Permit #: 13367
(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: 10/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10/10/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-10-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000984972

	Date	Time	Scale
In:	10/11/2018	13:41:05	CESPSCALE1
Out:	10/11/2018	13:41:59	

Manifest: 1818360

	Lbs.	Tns
Gross:	64580.00	32.29
Tare:	26680.00	13.34
Net:	37900.00	18.95

Vehicle ID: 15ABT28

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	18.9500	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818360

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	18.95

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: William R Colvin for US Army Title: BRAC ENV COORD
Signature: William R Colvin for US Army Date and Time: 10/10/18 1230 hrs

TRANSPORTER

Company: BOAGLIANO BROS Phone Number: _____
Address: BARTON, PA Truck # and License Plate: 2B AE 39557
Driver: Ismael Garcia SW Haulers Permit #: WH 034
(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: 10.11.2018

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10.11.18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985021

	Date	Time	Scale
In:	10/11/2018	14:25:03	CESPSCALE1
Out:	10/11/2018	14:25:46	

Manifest: 1818361

	Lbs.	Tns
Gross:	75680.00	37.84
Tare:	24920.00	12.46
Net:	50760.00	25.38

Vehicle ID: 15DRW91

Vehicle Permit: WH16240

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.3800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818361

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757		NET WEIGHT: ☒ Tons ☐ Yards 25.38
GENERATOR'S PHONE: 732-383-5104		
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: William R Colvin for US ARMY Title: BEAC ENV Coordinator Signature: William R Colvin for US ARMY Date and Time: 10/10/18 1229 hrs		
TRANSPORTER Company: GDP/DRW Phone Number: 215-805-6774 Address: Coopersburg Truck # and License Plate: 91-AP83411 Driver: DAC Wilson SW Haulers Permit #: W4-16240 (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: 10-10-18		
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: 10-11-18		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985046

	Date	Time	Scale
In:	10/11/2018	14:54:34	CESPSCALE1
Out:	10/11/2018	14:55:18	

Manifest: 1818362

	Lbs.	Tns
Gross:	74800.00	37.40
Tare:	25220.00	12.61
Net:	49580.00	24.79

Vehicle ID: 15ABT13

Vehicle Permit: WH0324

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.7900	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818362

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT: ☒ Tons ☐ Yards
Oceanport, NJ 07757	NET WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	24.79

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: William R Colvin for US ARMY Title: BRAC ENV COORD
Signature: William R Colvin for US ARMY Date and Time: 10/10/18 1227 hrs

TRANSPORTER

Company: EDP/Agliana Phone Number: _____
Address: Coppersburg Pa. Truck # and License Plate: 13 A634186 PA
Driver: Ed Lense SW Haulers Permit #: WH0334
(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: 10/11/18 1330

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10/11/18 1500

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985052

	Date	Time	Scale
In:	10/11/2018	15:01:16	CESPSCALE1
Out:	10/11/2018	15:01:51	

Manifest: 1818363

	Lbs.	Tns
Gross:	74640.00	37.32
Tare:	25520.00	12.76
Net:	49120.00	24.56

Vehicle ID: 15PRO201

Vehicle Permit: WH18505

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	24.5600	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818363

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700 Oceanport, NJ 07757		TARE WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards 24.56
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: William R. Colvin for US ARMY Title: BRAC ENV COORD Signature: William R. Colvin for US ARMY Date and Time: 10/10/18 1224 hrs		
TRANSPORTER Company: EDP/PROGRESSIVE PROPANE Phone Number: 215-805-6774 Address: 39 E CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 AG 60335 Driver: ALAN HATE SW Haulers Permit #: WH 18505 (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: 10-11-18 1:45		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: [Signature] Date and Time: 10-11-18 1:45 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10-11-18		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985062

	Date	Time	Scale
In:	10/11/2018	15:20:27	CESPSCALE1
Out:	10/11/2018	15:20:50	

Manifest: 1818364

	Lbs.	Tns
Gross:	72000.00	36.00
Tare:	28860.00	14.43
Net:	43140.00	21.57

Vehicle ID: 15GAP21

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	21.5700	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818364

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700 Oceanport, NJ 07757		TARE WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards 21.57
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: William R Colvin for US ARMY Title: BRAC ENV COORD Signature: William R Colvin for US ARMY Date and Time: 10/10/18 1223 hrs		
TRANSPORTER Company: C. A. PEAK Phone Number: 215-723-7830 Address: 2850 CLYMER AVE TOWSON, PA Truck # and License Plate: 21 A6-74507 Driver: MIKE SNELL SW Haulers Permit #: 6795 (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: 10/11/18 1:55		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: [Signature] Date and Time: 10/11/18 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: [Signature] Date and Time: 10-11-18		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985066

	Date	Time	Scale
In:	10/11/2018	15:23:16	CESPSCALE1
Out:	10/11/2018	15:23:38	

Manifest: 1818365

	Lbs.	Tns
Gross:	68520.00	34.26
Tare:	28500.00	14.25
Net:	40020.00	20.01

Vehicle ID: 15GAP11

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	20.0100	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818365

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth	GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700	TARE WEIGHT:
Oceanport, NJ 07757	☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104	NET WEIGHT: ☒ Tons ☐ Yards
20.01	
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: William E Colvin for US Army Title: BRAC ENV COORD
Signature: William E Colvin for US Army Date and Time: 10/10/18 1222

TRANSPORTER

Company: B.A. Park Exc. Phone Number: 215 723 7830
Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: 11 AF 39406
Driver: RANDY LEMON SW Haulers Permit #: 6795
(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: RE Lemon Date and Time: 10-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: RE Lemon Date and Time: 10-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10-11-18

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985068

	Date	Time	Scale
In:	10/11/2018	15:27:03	CESPSCALE1
Out:	10/11/2018	15:27:38	

Manifest: 1818366

	Lbs.	Tns
Gross:	68740.00	34.37
Tare:	27300.00	13.65
Net:	41440.00	20.72

Vehicle ID: 15GAP16

Vehicle Permit: WH6795

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	20.7200	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818366

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT:
Oceanport, NJ 07757		☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards
20.72		
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: <u>William R Colvin for US ARMY</u> Title: <u>BRAC ENV COORD</u> Signature: <u>William R Colvin for US ARMY</u> Date and Time: <u>10/10/18 1221 hrs</u>		
TRANSPORTER Company: <u>G.A. Peak Etc</u> Phone Number: <u>215-723-7830</u> Address: <u>2850 Clymer Ave. Telford, Pa</u> Truck # and License Plate: <u>#16 AG-12728</u> Driver: <u>Mark ATKINSON</u> SW Haulers Permit #: <u>WH 6795</u> (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: <u>Mark Atkinson</u> Date and Time: <u>10/11/18</u>		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: <u>X Mark Atkinson</u> Date and Time: <u>10/11/18</u> I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>[Signature]</u> Date and Time: <u>10-11-18</u>		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985080

	Date	Time	Scale
In:	10/11/2018	15:49:59	CESPSCALE1
Out:	10/11/2018	15:50:41	

Manifest: 1818367

	Lbs.	Tns
Gross:	68740.00	34.37
Tare:	25980.00	12.99
Net:	42760.00	21.38

Vehicle ID: 15COS07

Vehicle Permit: WH15212

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	21.3800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818367

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700		TARE WEIGHT:
Oceanport, NJ 07757		☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards
21.38		
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: <u>William R Colvin for US ARMY</u> Title: <u>BRAC ENV COORD</u> Signature: <u>William R Colvin for US ARMY</u> Date and Time: <u>10/10/18 1220 hrs</u>		
TRANSPORTER Company: <u>Costa Haulers</u> Phone Number: <u>856-341-4412</u> Address: <u>11 Fairmont Drive, Columbus, NJ</u> Truck # and License Plate: <u>7 AT222N</u> Driver: <u>Michelle Carter</u> SW Haulers Permit #: _____ (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: <u>10-11-18</u>		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: _____ Date and Time: <u>10-11-18</u> I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>James Adams</u> Date and Time: <u>10-11-18</u>		

FACILITY

Clean Earth of Southeast
Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 2154281700 Fax: 2154281704

Ticket: 700000985081

	Date	Time	Scale
In:	10/11/2018	15:54:03	CESPSCALE1
Out:	10/11/2018	15:54:24	

Manifest: 1818370

	Lbs.	Tns
Gross:	77760.00	38.88
Tare:	26200.00	13.10
Net:	51560.00	25.78

Vehicle ID: 15COT03

Vehicle Permit: wh5680

Customer AWT, INC.

Carrier: .

Facility Approval#: 183150160

Generator: US Army-Fort Monmouth

Job Name: US Army-Fort Monmouth-Parcel
49/Building

Gen Address: PO BOX 148
Oceanport, 19067
NJ

Job Address: Parcel 49/Building 700
Oceanport, NJ 07757

Contaminate Type	Quantity	Unit
Soil Treatment Type IV	25.7800	TONS

Comment:

Driver:

Facility: _____
Martino, Jeremy 78537



Manifest # 1818370

GLOBAL JOB NUMBER: 150795

FACILITY APPROVAL NUMBER: 183150160

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: US Army-Fort Monmouth		GROSS WEIGHT: ☒ Tons ☐ Yards
Parcel 49/Building 700 Oceanport, NJ 07757		TARE WEIGHT: ☒ Tons ☐ Yards
GENERATOR'S PHONE: 732-383-5104		NET WEIGHT: ☒ Tons ☐ Yards 25.78
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: <u>William E Colvin for USA Army</u> Title: <u>BEA Env Coord</u> Signature: <u>William E Colvin for USA Army</u> Date and Time: <u>10/10/18 1202 hrs</u>		
TRANSPORTER Company: <u>COSTA Haulers</u> Phone Number: _____ Address: <u>COLUMBIA NJ</u> Truck # and License Plate: <u>#3 AS 864B</u> Driver: <u>DAVID BAKER</u> SW Haulers Permit #: <u>13767</u> (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: <u>[Signature]</u> Date and Time: <u>10/10/18</u>		
DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: <u>[Signature]</u> Date and Time: <u>10/10/18</u> I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: <u>[Signature]</u> Date and Time: <u>10-11-18</u>		

FACILITY



Recycling of Central Jersey

201262

577 S. Hope Chapel Road
Jackson, NJ 08527
732-323-0226

DATE: 9/12/2018

TIME: 12:40 PM

PLANT: TXT COMP: M

SCALE: 1

This company is not responsible for damage caused by vehicles delivering.

TICKET #: 201262

TRUCK TICKET#:

TRUCK ID: MCS 1

LICENSES:

CARRIER : MADDOX MATERIAL

ORIGIN : OCEANPORT MONMOUTH

CUST: B125

MADDOX MATERIAL

323 MAIN STREET

SPOTSWOOD NJ 08884

JOB: B125

MADDOX MATERIALS

PROD: 001T

BROKEN ASPHALT

12:40 PM GROSS: 67140 lb 33.57 tn 30.45 Mg

12:40 PM TARE: 29700 lb 14.85 tn 13.47 Mg

NET: 37440 lb 18.72 tn 16.98 Mg

YD/LD: 37440

JOB TOTALS	JOB LOADS	POUNDS	TONS	Mg	PRICE/UNIT
MADDOX MATERIALS 66	3160780	1580.39	1433.71		SUB-TOTAL
					STATE TAX
					TOTAL AMT

Jan G.



Recycling of Central Jersey

NT 2

201246

577 S. Hope Chapel Road
Jackson, NJ 08527
732-323-0226

This company is not responsible for damage caused by vehicles delivering.

DATE: 9/12/2018

TIME: 09:37 AM

PLANT: TXT COMP: M

SCALE: 1

TICKET #: 201246

TRUCK TICKET#:

TRUCK ID: MCS 1

LICENSES:

CARRIER : MADDOX MATERIAL

ORIGIN : OCEANPORT MONMOUTH

CUST: B125

MADDOX MATERIAL

323 MAIN STREET

SPOTSWOOD NJ 08884

JOB: B125

MADDOX MATERIALS

PROD: 001T

BROKEN ASPHALT

09:37 AM GROSS: 81040 lb 40.52 tn 36.76 Mg

09:37 AM TARE: 29700 lb 14.85 tn 13.47 Mg

NET: 51340 lb 25.67 tn 23.29 Mg

YD/LD: 51340

JOB TOTALS	JOB LOADS	POUNDS	TONS	Mg	PRICE/UNIT
MADDOX MATERIALS 63	3025740	1512.87	1372.45		SUB-TOTAL
					STATE TAX
					TOTAL AMT

[Handwritten signature]



Recycling of Central Jersey

577 S. Hope Chapel Road
Jackson, NJ 08527
732-323-0226

201260

This company is not responsible for damage caused by vehicles delivering.

DATE: 9/12/2018

TIME: 12:32 PM

PLANT: TXT COMP: M

SCALE: 1

TICKET #: 201260

TRUCK TICKET#:

TRUCK ID: Beltran2

LICENSES:

CARRIER : MADDOX MATERIAL

ORIGIN : TOMS RIVER Dover Tw

CUST: B125

MADDOX MATERIAL

323 MAIN STREET

SPOTSWOOD NJ 08884

JOB: B125

MADDOX MATERIALS

PROD: 001T

BROKEN ASPHALT

12:32 PM GROSS: 71780 lb 35.89 tn 32.56 Mg

12:32 PM TARE: 28400 lb 14.20 tn 12.88 Mg

NET: 43380 lb 21.69 tn 19.68 Mg

YD/LD: 43380

JOB TOTALS	JOB LOADS	POUNDS	TONS	Mg	PRICE/UNIT
MADDOX MATERIALS 66	3155580	1582.79	1435.88		SUB-TOTAL
					STATE TAX
					TOTAL AMT



Recycling of Central Jersey

AWT

201247

2-48.80

577 S. Hope Chapel Road

Jackson, NJ 08527

732-323-0226

This company is not responsible for damage caused by vehicles delivering.

DATE: 9/12/2018

TIME: 09:44 AM

PLANT: TXT COMP: H

SCALE: 2

TICKET #: 201247

TRUCK TICKET#:

TRUCK ID: Beltran2 ✓

LICENSES:

CARRIER : MADDOX MATERIAL

ORIGIN : OCEANPORT MONMOUTH

CUST: B125

MADDOX MATERIAL

323 MAIN STREET

SPOTSWOOD NJ 08884

JOB: B125

MADDOX MATERIALS

PROD: 001T

BROKEN ASPHALT ✓

09:44 AM GROSS: 82540 lb 41.27 tn 37.44 Mg

09:40 AM TARE: 28320 lb 14.16 tn 12.85 Mg

NET: 54220 lb 27.11 tn 24.59 Mg

YDYLD: 54220

JOB TOTALS	JOB LOADS	POUNDS	TONS	Mg	PRICE/UNIT
MADDOX MATERIALS	64	3079960	1539.98	1397.05	SUB-TOTAL
					STATE TAX
					TOTAL AMT



Recyclable Materials Receipt Form
Gold Star Recycling, Inc.

Class B Recycling Center
133 Amboy Road
Morganville, NJ 07751
Tel: (732) 617-7490 • Fax: (732) 617-7492
Email: goldstarrecycle@aol.com

AWT
0011543

Recycling Center
Approval No: CBG050801
Hours: M-F
8AM-4:30PM
Saturday 8:00AM-12:00PM

Customer: <u>Wackey Thermal LLC</u>	Date: <u>9.12.18</u> Time: <u>2:45</u>
Address: _____	Ordered By: _____
_____	Job: _____
_____	Municipality: <u>Freehold</u>

Terms: <u>Net 30</u>	P/O Number: <u>101</u>	Vehicle License No: <u>1A7MC2V</u>	NJDEP Registration No: _____
----------------------	------------------------	------------------------------------	------------------------------

Approved Recyclable Materials:	Price/Yard	Approved Products:	Yards/Ton	Price/Yard	Total Price
☐ Concrete	_____	☐ 3/4" Recycled Road Stone	_____	_____	_____
☐ Brick	_____	☐ 1.5" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Rebar	_____	☐ 3" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Wire Mesh	<u>1.10</u>	☐ 3/4" Clean Blue Stone	_____	_____	_____
☐ Block	<u>1.25</u>	☐ Top Soil	_____	_____	_____
☒ Asphalt	_____	☐ Mason Sand	_____	_____	_____
☐ Common Fill	_____	☐ Concrete Sand	_____	_____	_____
☐ Pavers	_____	☐ Clean Fill	_____	_____	_____
☐ Other	_____	☐ Stone Dust	_____	_____	_____
** Note: Concrete, Brick and Asphalt may arrive separately or commingled		☐ Portland Cement	_____	_____	_____
		☐ Sand Lock	_____	_____	_____
		☐ Other	_____	_____	_____
		☐ Other	_____	_____	_____

PAID
SEP 12 2018

BY: _____

Inspection of Recyclable Material For Contaminants: All Vehicles delivering recyclable materials to the facility will be initially inspected for contaminants (garbage) at the staging area. If found to contain contaminants (garbage), the shipment will be rejected. Vehicles found acceptable will be weighed and directed to the appropriate unprocessed material storage location for unloading. The shipment will be inspected a second time for contaminants (garbage) during unloading. If the shipment is found to contain hidden contaminants it will be reloaded and subject to a reloading fee.

Certification For Recyclable Materials

The person delivering the Class B Recyclable Materials indicated above to Gold Star Recycling, Inc., hereby certifies, by signing below, that the materials do not contain constituents or contaminants (garbage) that would require the shipment to be managed as a hazardous waste or render the materials non-recyclable. The undersigned further certifies that the information contained on this receipt is true, accurate and complete.

Date: _____

Shipper's Weight	
Gross:	_____
Tare:	_____
Net:	_____
Cash Sale	
Net Tons Price/Ton:	\$ <u>1</u>
Material Price:	\$ _____
Material Sales Tax:	\$ _____
Total:	\$ <u>1</u>

20 Ton



Recyclable Materials Receipt Form
Gold Star Recycling, Inc.

Class B Recycling Center
133 Amboy Road
Morganville, NJ 07751
Tel: (732) 617-7490 • Fax: (732) 617-7492
Email: goldstarrecycle@aol.com

Recycling Center
Approval No: CBC050001
Hours: M-F
8AM-4:30PM
Saturday 8:00AM-12:00PM

0011539

Customer: Robert M. ... Date: 9.12.18 Times: 1
Address: _____ Ordered By: _____
Job: _____
Municipality: Shrewsbury
Terms: Net 30 P/O Number: 1000000000 Vehicle License No: 6C NJDEP Registration No: _____

Approved Recyclable Materials:	Price/Yard	Approved Products:	Yards/Ton	Price/Yard	Total Price
☐ Concrete	_____	☐ 3/4" Recycled Road Stone	_____	_____	_____
☐ Brick	_____	☐ 1.5" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Rebar	_____	☐ 3" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Wire Mesh	<u>11</u>	☐ 3/4" Clean Blue Stone	_____	_____	_____
☐ Block	<u>10.00</u>	☐ Top Soil	_____	_____	_____
☒ Asphalt	_____	☐ Mason Sand	_____	_____	_____
☐ Common Fill	_____	☐ Concrete Sand	_____	_____	_____
☐ Pavers	_____	☐ Clean Fill	_____	_____	_____
☐ Other	_____	☐ Stone Dust	_____	_____	_____
		☐ Portland Cement	_____	_____	_____
		☐ Sand Lock	_____	_____	_____
		☐ Other	_____	_____	_____
		☐ Other	_____	_____	_____

** Note: Concrete, Brick and Asphalt may arrive separately or commingled

PAID
SEP 12 2018
BY: _____

Inspection of Recyclable Material For Contaminants: All Vehicles delivering recyclable materials to the facility will be initially inspected for contaminants (garbage) at the staging area. If found to contain contaminants (garbage), the shipment will be rejected. Vehicles found acceptable will be weighed and directed to the appropriate unprocessed material storage location for unloading. The shipment will be inspected a second time for contaminants (garbage) during unloading. If the shipment is found to contain hidden contaminants it will be reloaded and subject to a reloading fee.

Certification For Recyclable Materials
The person delivering the Class B Recyclable Materials indicated above to Gold Star Recycling, Inc., hereby certifies, by signing below, that the materials do not contain constituents or contaminants (garbage) that would require the shipment to be managed as a hazardous waste or render the materials non-recyclable. The undersigned further certifies that the information contained on this receipt is true, accurate and complete.

Name (print) Robert M. ...
Signature [Signature] Date _____

Shipper's Weight
Gross: _____
Tare: _____
Net: _____

Cash Sale
Net Tons Price/Ton: \$ _____
Material Price: \$ _____
Material Sales Tax: \$ _____
Total: \$ _____

20 Tons



Recyclable Materials Receipt Form
Gold Star Recycling, Inc.

Class B Recycling Center

133 Amboy Road

Morganville, NJ 07751

Tel: (732) 617-7490 - Fax: (732) 617-7492

Email: goldstarrecycle@aol.com

AWT

0011581

Recycling Center
Approval No: CBG050001
Hours: M-F
8AM-4:30PM
Saturday 8:00AM-12:00PM

Customer: <u>Wick & Watson</u>		Date: <u>1-13-18</u> Time: <u>1:00</u>	
Address: _____		Ordered By: _____	
_____		Job: _____	
_____		Municipality: <u>Atlantic</u>	
Terms: <u>Net 30</u>	P/O Number: <u>1000000000</u>	Vehicle License No: <u>27</u>	NJDEP Registration No: _____
Approved Recyclable Materials:	Price/Yard	Approved Products:	Yards/Ton Price/Yard Total Price
☐ Concrete	_____	☐ 3/4" Recycled Road Stone	_____
☐ Brick	_____	☐ 1.5" Recycled Clean Stone	_____
☐ Concrete w/Rebar	_____	☐ 3" Recycled Clean Stone	_____
☐ Concrete w/Wire Mesh	_____	☐ 3/4" Clean Blue Stone	_____
☐ Block	_____	☐ Top Soil	_____
☒ Asphalt	_____	☐ Mason Sand	_____
☐ Common Fill	_____	☐ Concrete Sand	_____
☐ Pavers	_____	☐ Clean Fill	_____
☐ Other	_____	☐ Stone Dust	_____
** Note: Concrete, Brick and Asphalt may arrive separately or commingled		☐ Portland Cement	_____
		☐ Sand Lock	_____
		☐ Other	_____
		☐ Other	_____

PAID
SEP 13 2018

BY: _____

Inspection of Recyclable Material For Contaminants: All Vehicles delivering recyclable materials to the facility will be initially inspected for contaminants (garbage) at the staging area. If found to contain contaminants (garbage), the shipment will be rejected. Vehicles found acceptable will be weighed and directed to the appropriate unprocessed material storage location for unloading. The shipment will be inspected a second time for contaminants (garbage) during unloading. If the shipment is found to contain hidden contaminants it will be reloaded and subject to a reloading fee.

Certification For Recyclable Materials

The person delivering the Class B Recyclable Materials indicated above to Gold Star Recycling, Inc., hereby certifies, by signing below, that the materials do not contain constituents or contaminants (garbage) that would require the shipment to be managed as a hazardous waste or render the materials non-recyclable. The undersigned further certifies that the information contained on this receipt is true, accurate and complete.

Name (print): Alastair M. M. M.

Signature: _____ Date: _____

Shipper's Weight	
Gross: _____	
Tare: _____	
Net: _____	
Cash Sale	
Net Tons Price/Ton: \$ _____	
Material Price: \$ _____	
Material Sales Tax: \$ _____	
Total: \$ _____	

Gold Star Recycling, Inc. Recyclable Materials Receipts Form

20 Tons



Recyclable Materials Receipt Form
Gold Star Recycling, Inc.

Class B Recycling Center
133 Amboy Road

Morganville, NJ 07751

Tel: (732) 617-7490 • Fax: (732) 617-7492

Email: goldstarrecycle@aol.com

0011592

Recycling Center
Approval No: CBG050001
Hours: M-F
8AM-4:30PM
Saturday 8:00AM-12:00PM

Customer: <u>Black Materials</u>	Date: <u>1-12-17</u> Time: <u>1:00</u>
Address: _____	Ordered By: _____
_____	Job: <u>Asphalt</u>
_____	Municipality: <u>Asbury Park</u>

Term: <u>12</u>	P/O Number: <u>101</u>	Vehicle License No: <u>12V</u>	NJDEP Registration No: _____
-----------------	------------------------	--------------------------------	------------------------------

Approved Recyclable Materials:	Price/Yard	Approved Products:	Yards/Ton	Price/Yard	Total Price
☐ Concrete	_____	☐ 3/4" Recycled Road Stone	_____	_____	_____
☐ Brick	_____	☐ 1.5" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Rebar	_____	☐ 3" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Wire Mesh	<u>1.1</u>	☐ 3/4" Clean Blue Stone	_____	_____	_____
☐ Block	<u>1.1</u>	☐ Top Soil	_____	_____	_____
☒ Asphalt	<u>1.1</u>	☐ Mason Sand	_____	_____	_____
☐ Common Fill	_____	☐ Concrete Sand	_____	_____	_____
☐ Pavers	_____	☐ Clean Fill	_____	_____	_____
☐ Other	_____	☐ Stone Dust	_____	_____	_____
		☐ Portland Cement	_____	_____	_____
		☐ Sand Lock	_____	_____	_____
		☐ Other	_____	_____	_____
		☐ Other	_____	_____	_____

**** Note: Concrete, Brick and Asphalt may arrive separately or commingled**

Inspection of Recyclable Material For Contaminants: All Vehicles delivering recyclable materials to the facility will be initially inspected for contaminants (garbage) at the staging area. If found to contain contaminants (garbage), the shipment will be rejected. Vehicles found acceptable will be weighed and directed to the appropriate unprocessed material storage location for unloading. The shipment will be inspected a second time for contaminants (garbage) during unloading. If the shipment is found to contain hidden contaminants it will be reloaded and subject to a reloading fee. Certification For Recyclable Materials The person delivering the Class B Recyclable Materials indicated above to Gold Star Recycling, Inc., hereby certifies, by signing below, that the materials do not contain constituents or contaminants (garbage) that would require the shipment to be managed as a hazardous waste or render the materials non-recyclable. The undersigned further certifies that the information contained on this receipt is true, accurate and complete. Name (print) _____ Signature: <u>[Signature]</u> Date: _____	Shipper's Weight Gross: _____ Tare: _____ Net: _____ Cash Sale Net Tons Price/Ton: \$ _____ Material Price: _____ Material Sales Tax: _____ Total: _____
---	---

Gold Star Recycling, Inc. Recyclable Materials Receipts Form

20 Tons



Recyclable Materials Receipt Form
Gold Star Recycling, Inc.

Class B Recycling Center

133 Amboy Road

Morganville, NJ 07751

Tel: (732) 617-7490 • Fax: (732) 617-7492

Email: goldstarrecycle@aol.com

2 - Concrete
0011512

Recycling Center
Approval No: CBG050001
Hours: M-F
8AM-4:30PM
Saturday 8:00AM-12:00PM

Customer: <u>Michael's Materials</u>	Date: <u>9.12.18</u> Time: <u>1:00</u>
Address: _____	Ordered By: _____
_____	Job: <u>PAINT</u>
_____	Municipality: <u>Edgewater</u>
Truck Number: <u>1000</u>	Vehicle License No: <u>12345</u>
_____	NJDEP Registration No: _____

Approved Recyclable Materials	Price/Yard	Approved Products	Yards/Ton	Price/Yard	Total Price
☒ Concrete	_____	☐ 3/4" Recycled Road Stone	_____	_____	_____
☐ Brick	_____	☐ 1.5" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Rebar	_____	☐ 3" Recycled Clean Stone	_____	_____	_____
☐ Concrete w/Wire Mesh	<u>1.10</u>	☐ 3/4" Clean Blue Stone	_____	_____	_____
☐ Block	<u>0.25</u>	☐ Top Soil	_____	_____	_____
☐ Asphalt	_____	☐ Mason Sand	_____	_____	_____
☐ Common Fill	_____	☐ Concrete Sand	_____	_____	_____
☐ Pavers	_____	☐ Clean Fill	_____	_____	_____
☐ Other	_____	☐ Stone Dust	_____	_____	_____
		☐ Portland Cement	_____	_____	_____
		☐ Sand Lock	_____	_____	_____
		☐ Other	_____	_____	_____
		☐ Other	_____	_____	_____

**** Note: Concrete, Brick and Asphalt may arrive separately or commingled**

Inspection of Recyclable Material For Contaminants: All Vehicles delivering recyclable materials to the facility will be initially inspected for contaminants (garbage) at the staging area. If found to contain contaminants (garbage), the shipment will be rejected. Vehicles found acceptable will be weighed and directed to the appropriate unprocessed material storage location for unloading. The shipment will be inspected a second time for contaminants (garbage) during unloading. If the shipment is found to contain hidden contaminants it will be reloaded and subject to a reloading fee.

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Name (print) J. K. R. R.
Signature _____ Date _____

Shipper's Weight

Gross: _____
Tare: _____
Net: _____

Cash Sale

Net Tons Price/Ton: \$ _____
Material Price \$ _____
Material Sales Tax: \$ _____
Total: \$ _____

10 Tons



Recyclable Materials Receipt Form
Gold Star Recycling, Inc.

Class B Recycling Center

133 Amboy Road

Morganville, NJ 07751

Tel: (732) 617-7490 • Fax: (732) 617-7492

Email: goldstarrecycle@aol.com

0011545

Recycling Center
Approval No: CBG050001
Hours: M-F
8AM-4:30PM
Saturday 8:00AM-12:00PM

Customer: <u>Widdow International</u>	Date: <u>9-12-18</u> Time: <u>1:20</u>
Address: <u>11111</u>	Ordered By: _____
	Job: _____
	Municipality: _____

Terms: <u>Net 30</u>	P/O Number: <u>11111</u>	Vehicle License: <u>6711</u>	NJDEP Registration No: _____
----------------------	--------------------------	------------------------------	------------------------------

Approved Recyclable Materials:	Price/Yard	Approved Product(s):	Yards/Ton	Price/Yard	Total Price
☒ Concrete		☐ 3/4" Recycled Road Stone			
☐ Brick		☐ 1.5" Recycled Clean Stone			
☐ Concrete w/Rebar		☐ 3" Recycled Clean Stone			
☐ Concrete w/Wire Mesh		☐ 3/4" Clean Blue Stone			
☐ Block		☐ Top Soil			
☐ Asphalt		☐ Mason Sand			
☐ Common Fill		☐ Concrete Sand			
☐ Pavers		☐ Clean Fill			
☐ Other		☐ Stone Dust			
		☐ Portland Cement			
		☐ Sand Lock			
		☐ Other			
		☐ Other			

**** Note: Concrete, Brick and Asphalt may arrive separately or commingled**

PAID
SEP 12 2018

BY: _____

Inspection of Recyclable Material For Contaminants: All Vehicles delivering recyclable materials to the facility will be initially inspected for contaminants (garbage) at the staging area. If found to contain contaminants (garbage), the shipment will be rejected. Vehicles found acceptable will be weighed and directed to the appropriate unprocessed material storage location for unloading. The shipment will be inspected a second time for contaminants (garbage) during unloading. If the shipment is found to contain hidden contaminants it will be reloaded and subject to a reloading fee.

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Name (print): J. BARR
Signature: [Signature] Date: _____

Shipper's Weight

Gross: _____
Tare: _____
Net: _____

Cash Sale

Net Tons Price/Ton: \$ _____
Material Price: _____
Material Sales Tax: \$ _____
Total: _____

Gold Star Recycling, Inc. Recyclable Materials Receipt Form

10 Tons



Recycling of Central Jersey

577 S. Hope Chapel Road
Jackson, NJ 08527
732-323-0226

This company is not responsible for damage caused by vehicles delivering.

DATE: 9/13/2018

TIME: 01:53 PM

PLANT: TXT COMP: H

SCALE: 1

CUST: Maddox

MADDOX MATERIAL
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: B125

MADDOX MATERIALS

PROD: 002T

BROKEN CONCRETE

TICKET #: 201293

TRUCK TICKET#:

TRUCK ID: MCS 1

LICENSES:

CARRIER : MADDOX MATERIAL

ORIGIN : OCEANPORT MONMOUTH

01:53 PM GROSS: 53000 lb 26.50 tn 24.04 Mg

01:53 PM TARE: 29700 lb 14.85 tn 13.47 Mg

NET: 23300 lb 11.65 tn 10.57 Mg

YD/LB: 23300

JOB TOTALS	JOB LOADS	POUNDS	TONS	Mg	PRICE/UNIT
MADDOX MATERIALS 1		23300	11.65	10.57	SUB-TOTAL
					STATE TAX
					TOTAL AMT

Handwritten signature/initials

RACR for Western Portion of Parcel 49
Fort Monmouth, New Jersey

Appendix C

Backfill Certification Documentation



Maddox Materials, LLC
Quality Aggregates & Construction Soils

September 5, 2018

AWT Environmental
PO Box 128
Sayreville, NJ 08871

Attn: Jim Vagra
Phone: 732-613-1660
Fax: 732-613-1536

Project: Ft Monmouth, NJ

To whom it may concern:

Please be advised that the DGA and 1-1/2" clean stone Maddox Materials LLC proposes to deliver to the above referenced project originates from Trap Rock Industries in Kingston, NJ. State of New Jersey Department of Labor and Workforce Development mine registration certificate # 004481. Somerset County tax map Block 1 Lots 1,2,3,38,39.

These aggregates are sourced from an undisturbed geological formation of diabase trap rock stone. The materials are not comingled with other materials or subject to processes that would result in the introduction of contaminants. To the best of my knowledge the mine is not suspected of being contaminated and has not been affected by any hazardous material or discharge of a regulated substance.

If you need any additional information, please contact me at 732-251-0054.

Respectfully Submitted,

William Maddox
Member



State of New Jersey
Department of Labor and Workforce Development

Certificate No. 004481
Expiration Date 3/31/2019

MINE REGISTRATION CERTIFICATE

ISSUED TO Trap Rock Industries, LLC
LOCATION 4415 Route 27
Kingston, NJ

BLK NO(S)
LOT NO(S)
COUNTY SOMERSET

Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

Robert Asaro-Angelo
Acting Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES



Analytical Report

Prepared for

MADDOX MATERIALS323 Main Street
Spotswood, NJ 08884

Report Information

Project Name: Trap Rock Industries Kingston

AAR Work Order: **1800020**Client Sample ID

S-1

Laboratory Sample Number

1800020-01

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799
CT Certification Number: PH-0219

This data has been reviewed and accepted by:

Daniel Miguel
Technical Director

1/29/2018

Table of Contents

Case Narrative	4
Methodology Summaries	5
Internal Chain of Custody	6
Condition of Samples	7
Chain of Custody	8
Analytical Report for Samples	9
Data Qualifiers	9
PETROLEUM HYDROCARBONS	10
PETROLEUM HYDROCARBONS SAMPLE DATA	11
PETROLEUM HYDROCARBONS QC DATA	15
PETROLEUM HYDROCARBONS QC SUMMARY	19
PETROLEUM HYDROCARBONS CALIBRATION DATA	28
PEST/PCB	33
PEST/PCB SAMPLE DATA	34
PEST/PCB QC DATA	39
PEST/PCB QC SUMMARY	48
PEST/PCB CALIBRATION DATA	66
SEMIVOLATILES	96
SEMIVOLATILES SAMPLE DATA	97
SEMIVOLATILES QC DATA	104
SEMIVOLATILES QC SUMMARY	111
SEMIVOLATILES CALIBRATION DATA	129
VOLATILES SAMPLE DATA	151
VOLATILES SAMPLE DATA	152
VOLATILES QC DATA	158

Table of Contents (continued)

VOLATILES QC SUMMARY	164
VOLATILES CALIBRATION DATA	180
METALS	194
METALS SAMPLE DATA	195
METALS QC SUMMARY	197
METALS CALIBRATION DATA	208
WET CHEMISTRY	234
WET CHEMISTRY SAMPLE DATA	235
WET CHEMISTRY QC DATA	237



Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order: 1800020

Accredited Analytical Resources, LLC received 1 sample(s) from MADDUX MATERIALS (Project: Trap Rock Industries Kingston) on 01/09/2018 15:15.

The container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW 846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW 846-5035A requirements.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Metals analysis, B8A1104-MS1/MSD1 had analytes recovered outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director



Methodology Summary

EPA Method SW846 8081/8082

NJ 8081A/8082
NY 8081B/8082A

Extractable Petroleum Hydrocarbons by NJ EPH

NJDEP EPH

Semivolatile Organic Compounds EPA Method SW846 8270

NJ 8270C
NY 8270D

Total Mercury by SW846 7471

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260

NJ 8260B
NY 8260C

Wet Chemistry

Percent Solids by SM 2540 G
Total Cyanide by EPA 9010C & EPA 9014



Internal Chain of Custody

<u>Lab Sample Number</u>	<u>Container</u>	<u>Time Checked Out</u>	<u>Initials</u>	<u>Time Checked In</u>	<u>Initials</u>
1800020-01	A	1/9/18 15:24	KMC	1/9/18 15:24	KMC
		1/9/18 15:31	MJS	1/9/18 15:35	KMC
		1/11/18 5:33	ECS	1/11/18 7:11	KMC
		1/11/18 7:14	LIT	1/11/18 7:25	LIT
		1/11/18 7:25	LIT	1/11/18 11:12	NNM
		1/11/18 11:12	NNM	1/11/18 17:03	KMC
		1/12/18 8:45	KMC	1/12/18 9:12	KMC
1800020-01	B	1/9/18 15:24	KMC	1/9/18 15:24	KMC
		1/10/18 8:30	SG	1/10/18 17:00	SG



Condition of Samples on Receipt

Client Name:	MADDOX MATERIALS
Project Name:	Trap Rock Industries Kingston
AAR Work Order Number:	1800020

Temperature of Cooler:	5°C
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes



Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008

Tel. 732-969-6112 FAX 732-541-1383

WEB: WWW.ACCREDITEDANALYTICAL.COM

CLIENT NAME:

Maddox Materials Inc

ADDRESS:

323 Main Street

CITY:

Spotswood

STATE:

NJ

ZIP:

08884

CHAIN OF CUSTODY FORM

STATE AGENCY
(CIRCLE ONE)

NJ

NY

PA

PROJECT NAME:

Trap Rock Industries Kingston

CONTACT:

B.H. Maddox

OFFICE PHONE #

732 251-0054

OFFICE FAX #

INITIAL RESULTS TO:

J.A.madd@verizon.net

EMAIL FOR INVOICE:

AAR QUOTE #

AAR WORK ORDER #

P.O. #

1800020

ANALYSIS

PRES. CODE →

CONT. CODE →

TCL/PLH
EPH
G G

COLLECTION INFORMATION

CUSTOMER
SAMPLE # / IDDATE / TIME
SAMPLED

MATRIX CODE

DEPTH

OF CONTAINERS

GRAB (G)
COMP (C)

S-1

12/18/15

S

2

X X

AAR
SAMPLE #

-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO₃ 3 = H₂SO₄ 4 = NaOH 5 = OTHERTURNAROUND TIME:
(CIRCLE ONE)

STANDARD

5 DAY

72 HRS.

48 HRS.

24 HRS.

OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE:

RESULTS ONLY

REDUCED

FULL

EDD

EXCEL SPREADSHEET

COMMENTS:

* SRS/NISCC

COOLER TEMP: 5°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING:

PRINT:

William Maddox

SIGN:

[Signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Print Name:	William Maddox	Print Name:	R. Muniz	Print Name:		Print Name:	
Signature:	[Signature]	Signature:	[Signature]	Signature:		Signature:	
Agent of:	maddox materials	Agent of:	AAR	Agent of:		Agent of:	
Date Received:	12/18/15	Time:	1515	Date Received:	/ /	Time:	/ /
RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Print Name:		Print Name:		Print Name:		Print Name:	
Signature:		Signature:		Signature:		Signature:	
Agent of:		Agent of:		Agent of:		Agent of:	
Date Received:	/ /	Time:	/ /	Date Received:	/ /	Time:	/ /



Analytical Report for Samples

Client Name:	MADDOX MATERIALS
Project Name:	Trap Rock Industries Kingston

Client Field ID	AAR Laboratory Number	Matrix	Date/Time Sampled	Date/Time Received
S-1	1800020-01	Soil	01/09/2018 13:15	01/09/2018 15:15

Data Qualifiers

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



PETROLEUM HYDROCARBONS



PETROLEUM HYDROCARBONS SAMPLE DATA



ANALYSIS DATA SHEET

NJDEP EPH

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/09/18 15:31	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3545A	File ID:	K21543.D
Prep Batch:	B8A0901	Sequence:	S8A1101	Analyzed:	01/10/18 15:02
Dilution:	1			Analyst:	MS

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NA	Extractable Petroleum Hydrocarbons (EPH)	42.4	17.0	17.0	
	<u>Surrogate</u>	<u>% Recovery</u>		<u>Recovery Limits</u>	
	o-Terphenyl	83.8%		40-140	
	1-Chlorooctadecane	105%		40-140	

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\K\DATA\JAN18\K0110\K21543.D Vial: 4
Acq On : 10 Jan 2018 15:02 Operator: MS
Sample : 1800020-01 Inst : GCFID-K
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jan 10 15:35 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC
Last Update : Tue Dec 05 08:34:25 2017
Response via : Initial Calibration
DataAcq Meth : DR0.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
7) S Ortho-Terphenyl	14.73	35506	20.952 ug/Kg
Spiked Amount 25.000	Recovery	=	83.81%
9) S 1-Chlorooctadecane	15.92	28223	26.307 ug/L
Spiked Amount 25.000	Recovery	=	105.23%
Target Compounds			
15) HM EPH	14.10	398467	300.202 ug/L

Data File : D:\K\DATA\JAN18\K0110\K21543.D

Vial: 4

Acq On : 10 Jan 2018 15:02

Operator: MS

Sample : 1800020-01

Inst : GCFID-K

Misc :

Multiplr: 1.00

IntFile : rteint.p

Quant Time: Jan 10 15:35 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)

Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC

Last Update : Tue Dec 05 08:34:25 2017

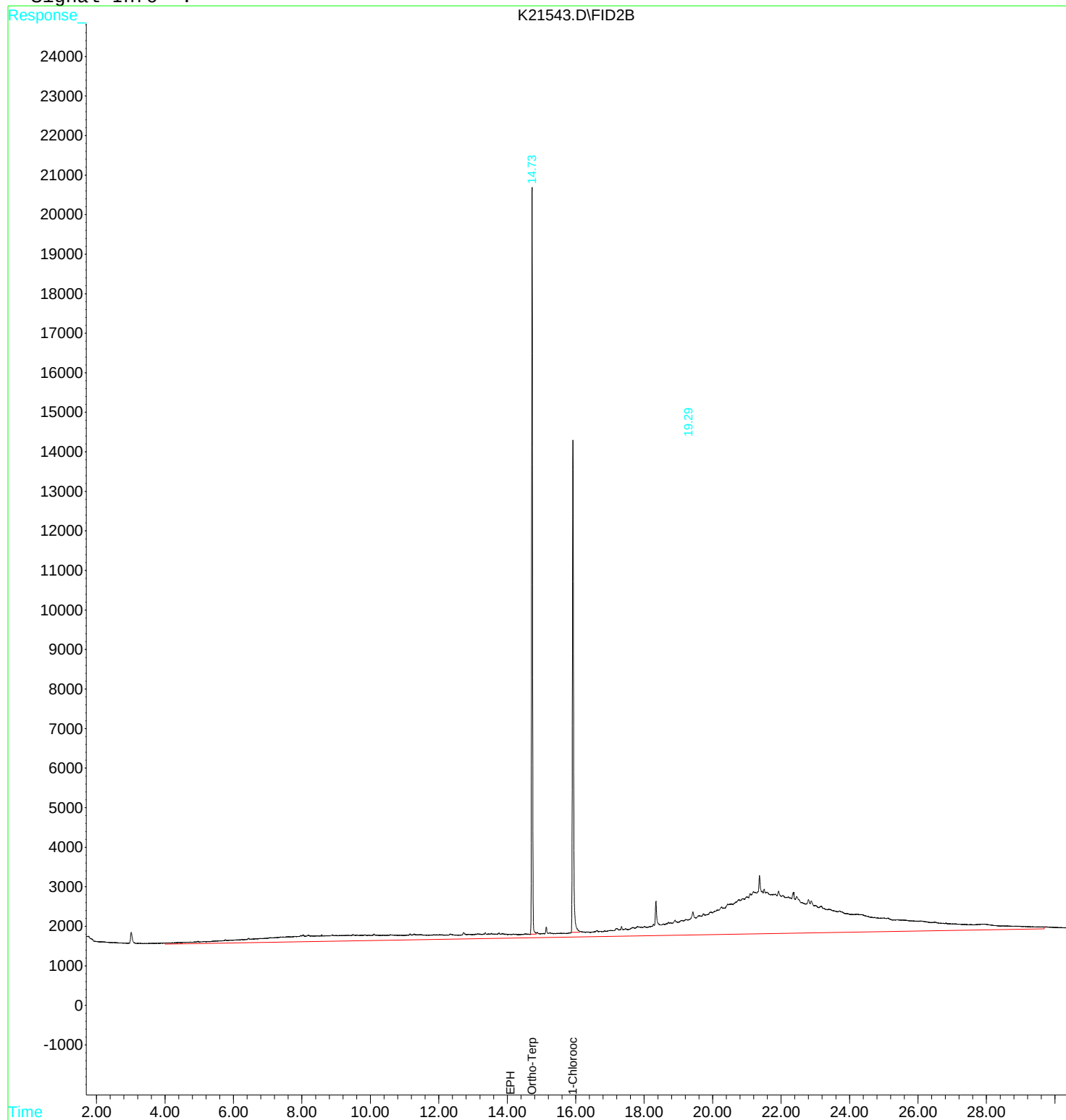
Response via : Multiple Level Calibration

DataAcq Meth : DR0.M

Volume Inj. :

Signal Phase :

Signal Info :





PETROLEUM HYDROCARBONS QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A0901-BLK1	File ID:	K21505.D
Batch:	B8A0901	Prepared:	01/09/18 08:04	Analyzed:	01/09/18 09:52
Column:	1	Preparation:	EPA 3545A	Dilution:	
		Sequence:	S8A0902	Instrument:	GCFID-K

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
NA	Extractable Petroleum Hydrocarbons (EPH)	ND	16.0	16.0	U

Surrogate

o-Terphenyl

1-Chlorooctadecane

% Recovery

80.4%

100%

Recovery Limits

40-140

40-140

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\K\DATA\JAN18\K0109\K21505.D Vial: 3
 Acq On : 9 Jan 2018 9:52 Operator: MS
 Sample : B8A0901-BLK1 Inst : GCFID-K
 Misc : SOIL Multiplr: 1.00
 IntFile : rteint.p
 Quant Time: Jan 9 10:38 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)
 Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC
 Last Update : Tue Dec 05 08:34:25 2017
 Response via : Initial Calibration
 DataAcq Meth : DR0.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

7) S Ortho-Terphenyl	14.73	34074	20.107 ug/Kg
Spiked Amount 25.000	Range 40 - 140	Recovery =	80.43%
9) S 1-Chlorooctadecane	15.93	26822	25.001 ug/L
Spiked Amount 25.000	Range 40 - 140	Recovery =	100.00%

Target Compounds

Data File : D:\K\DATA\JAN18\K0109\K21505.D

Vial: 3

Acq On : 9 Jan 2018 9:52

Operator: MS

Sample : B8A0901-BLK1

Inst : GCFID-K

Misc : SOIL

Multiplr: 1.00

IntFile : rteint.p

Quant Time: Jan 9 10:38 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)

Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC

Last Update : Tue Dec 05 08:34:25 2017

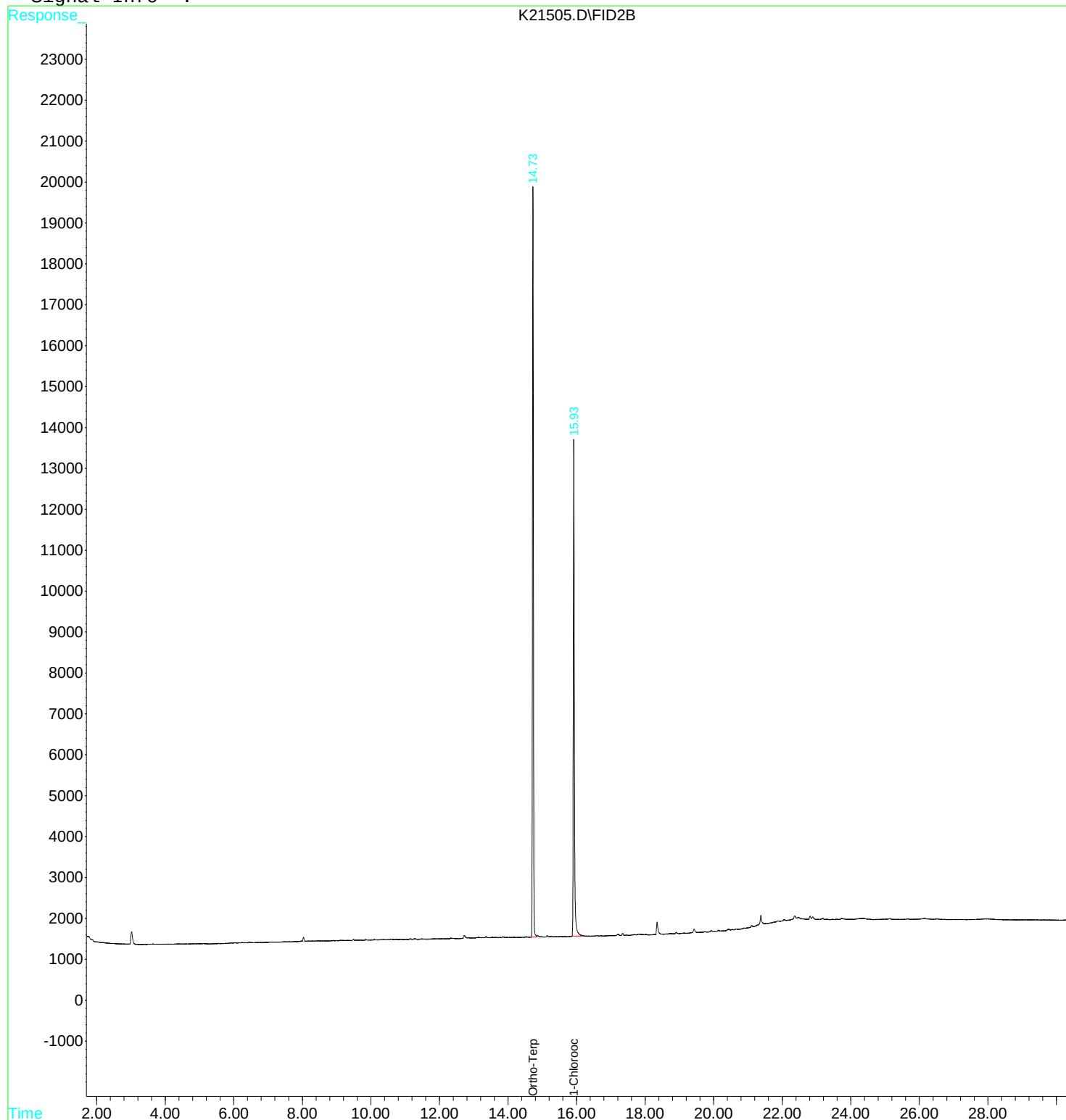
Response via : Multiple Level Calibration

DataAcq Meth : DR0.M

Volume Inj. :

Signal Phase :

Signal Info :





PETROLEUM HYDROCARBONS QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**NJDEP EPH**

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid
Instrument: GCFID-K

Lab Sample ID:	1-COD (40% - 140%)	O-TPL (40% - 140%)
1800020-01	105	83.8
B8A0901-BLK1	100	80.4
B8A0901-BS1	88.8	72.6
B8A0901-BSD1	87.2	70.6
B8A0901-DUP1	92.0	72.9
B8A0901-MS1	100	80.6
B8A0901-MSD1	97.9	79.2



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	NJDEP EPH
Prep Batch:	B8A0901	Prep Method:	EPA 3545A
Percent Solids:	94.10	Laboratory ID:	B8A0901-MS1
		Client Sample ID:	1800010-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Extractable Petroleum Hydrocarbons (EPH)	142	ND	127	89.9	40 - 140

* Values outside of QC limits


Accredited Analytical Resources, LLC.

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Carteret, New Jersey 07008
Phone: 732-969-6112
Fax: 732-541-1383
WWW.Accreditedanalytical.com

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	NJDEP EPH
Prep Batch:	B8A0901	Prep Method:	EPA 3545A
Percent Solids:	94.10	Laboratory ID:	B8A0901-MSD1
		Client Sample ID:	1800010-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Extractable Petroleum Hydrocarbons (EPH)	142	139	98.1	8.72	25	40 - 140

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

NJDEP EPH

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 3545A
Prep Batch: B8A0901	Lab Sample ID: B8A0901-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Extractable Petroleum Hydrocarbons (EPH)	133	118	88.6	40 - 140

ANALYTE	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Extractable Petroleum Hydrocarbons (EPH)	133	115	86.2	2.74	25	40 - 140

* Values outside of QC limits

**METHOD BLANK SUMMARY**

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Blank ID:	B8A0901-BLK1	Batch:	B8A0901
-----------	--------------	--------	---------

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A0901-BS1	K21509.D	01/09/2018 12:31
LCS Dup	B8A0901-BSD1	K21510.D	01/09/2018 13:10
Matrix Spike	B8A0901-MS1	K21519.D	01/09/2018 18:59
Matrix Spike Dup	B8A0901-MSD1	K21520.D	01/09/2018 19:38
Duplicate	B8A0901-DUP1	K21521.D	01/09/2018 20:16
S-1	1800020-01	K21543.D	01/10/2018 15:02

**ANALYSIS SEQUENCE SUMMARY**

NJDEP EPH

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S7L0507	Instrument:	GCFID-K
Calibration:	17L0601		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	S7L0507-CAL1	K21288.D	12/04/17 14:47
Cal Standard	S7L0507-CAL2	K21289.D	12/04/17 15:26
Cal Standard	S7L0507-CAL3	K21290.D	12/04/17 16:04
Cal Standard	S7L0507-CAL4	K21291.D	12/04/17 16:43
Cal Standard	S7L0507-CAL5	K21292.D	12/04/17 17:22

**ANALYSIS SEQUENCE SUMMARY**

NJDEP EPH

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A0902	Instrument:	GCFID-K
Calibration:	17L0601		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	S8A0902-CCV1	K21504.D	01/09/18 09:13
Blank	B8A0901-BLK1	K21505.D	01/09/18 09:52
LCS	B8A0901-BS1	K21509.D	01/09/18 12:31
LCS Dup	B8A0901-BSD1	K21510.D	01/09/18 13:10
Matrix Spike	B8A0901-MS1	K21519.D	01/09/18 18:59
Matrix Spike Dup	B8A0901-MSD1	K21520.D	01/09/18 19:38
Duplicate	B8A0901-DUP1	K21521.D	01/09/18 20:16

**Accredited Analytical Resources, LLC.**

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ANALYSIS SEQUENCE SUMMARY

NJDEP EPH

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A1101	Instrument:	GCFID-K
Calibration:	17L0601		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	S8A1101-CCV1	K21542.D	01/10/18 13:04
S-1	1800020-01	K21543.D	01/10/18 15:02



PETROLEUM HYDROCARBONS CALIBRATION DATA



INITIAL CALIBRATION DATA

NJDEP EPH

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration: 17L0601				Instrument: GCFID-K				Calibration Date: 12/4/2017 1:51:17PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
n-Nonane	10	971.7	20	951.3	50	951.58	100	925.45	200	934.27		
n-Decane	10	1022.3	20	1051.85	50	957.02	100	982.13	200	1043.88		
n-Dodecane	10	1027.3	20	1053.85	50	963.72	100	994.04	200	1058.47		
n-Tetradecane	10	1050.4	20	1075.2	50	980.7	100	1011.67	200	1077.455		
n-Hexadecane	10	1060.1	20	1080.65	50	984.22	100	1016.07	200	1082.88		
n-Octadecane	10	1059.8	20	1085.25	50	992.34	100	1023.48	200	1091.855		
o-Terphenyl	10	1753.9	20	1617.95	50	1804.86	100	1680.05	200	1616.46		
n-Eicosane	10	1074.2	20	1098.15	50	1003.44	100	1033.97	200	1103.675		
1-Chlorooctadecane	10	1045.6	20	1045	50	1203.72	100	1007.29	200	1062.52		
n-Heneicosane	10	1073.4	20	1383.8	50	1062.3	100	1034.84	200	1350.83		
n-Docosane	10	1087.5	20	1108.95	50	1014.24	100	1043.56	200	1117.42		
n-Tetracosane	10	1084.8	20	1107.85	50	1015.46	100	1044.16	200	1117.48		
n-Hexacosane	10	1071	20	1095.3	50	1007.32	100	1033.07	200	1109.095		
n-Octacosane	10	1073.8	20	1095.15	50	1011.18	100	1034.27	200	1109.185		
Extractable Petroleum Hydrocar	120	1497.875	240	1372.554	600	1343.582	1200	1213.058	2400	1209.577		



INITIAL CALIBRATION DATA SHEET (Continued)

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	17L0601	Instrument:	GCFID-K
		Calibration Date:	12/4/2017 1:51:17PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
n-Nonane	A	946.86	1.886231			CCC (25)	
n-Decane	A	1011.436	4.023348			CCC (25)	
n-Dodecane	A	1019.476	3.959906			CCC (25)	
n-Tetradecane	A	1039.085	4.044586			CCC (25)	
n-Hexadecane	A	1044.784	4.134767			CCC (25)	
n-Octadecane	A	1050.545	4.015153			CCC (25)	
o-Terphenyl	A	1694.644	4.925303			CCC (25)	
n-Eicosane	A	1062.687	4.048825			CCC (25)	
1-Chlorooctadecane	A	1072.826	7.075804			CCC (25)	
n-Heneicosane	A	1181.034	14.48108			CCC (25)	
n-Docosane	A	1074.334	4.106742			CCC (25)	
n-Tetracosane	A	1073.95	4.023977			CCC (25)	
n-Hexacosane	A	1063.157	3.998353			CCC (25)	
n-Octacosane	A	1064.717	3.866591			CCC (25)	
Extractable Petroleum Hydrocarbons (EPH)	A	1327.329	9.09694			CCC (25)	

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCFID-K	Calibration: 17L0601
Lab File ID: K21504.D	Calibration Date: 12/04/17 13:51
Sequence: S8A0902	Injection Date: 01/09/18
Lab Sample ID: S8A0902-CCV1	Injection Time: 09:13

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
n-Nonane	A	50.0	50.3	946.86	952.14		0.6	30
n-Decane	A	50.0	58.8	1011.436	1188.8		17.5	30
n-Dodecane	A	50.0	52.8	1019.476	1076.24		5.6	30
n-Tetradecane	A	50.0	53.1	1039.085	1102.58		6.1	30
n-Hexadecane	A	50.0	53.1	1044.784	1109.9		6.2	30
n-Octadecane	A	50.0	53.5	1050.545	1124.94		7.1	30
n-Eicosane	A	50.0	54.0	1062.687	1147.44		8.0	30
n-Heneicosane	A	50.0	54.2	1181.034	1280.48		8.4	30
n-Docosane	A	50.0	54.3	1074.334	1167.58		8.7	30
n-Tetracosane	A	50.0	54.5	1073.95	1170.74		9.0	30
n-Hexacosane	A	50.0	55.3	1063.157	1175.4		10.6	30
n-Octacosane	A	50.0	55.7	1064.717	1187.04		11.5	30
Extractable Petroleum Hydrocarbons (EPH)	A	600	642	1327.329	1420.327		7.0	25
o-Terphenyl	A	50.0	49.7	1694.644	1684.62		-0.6	30
1-Chlorooctadecane	A	50.0	53.8	1072.826	1154.76		7.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCFID-K	Calibration: 17L0601
Lab File ID: K21542.D	Calibration Date: 12/04/17 13:51
Sequence: S8A1101	Injection Date: 01/10/18
Lab Sample ID: S8A1101-CCV1	Injection Time: 13:04

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
n-Nonane	A	50.0	44.3	946.86	839.18		-11.4	30
n-Decane	A	50.0	54.2	1011.436	1095.92		8.4	30
n-Dodecane	A	50.0	48.4	1019.476	986.1		-3.3	30
n-Tetradecane	A	50.0	48.6	1039.085	1010.54		-2.7	30
n-Hexadecane	A	50.0	48.5	1044.784	1013.82		-3.0	30
n-Octadecane	A	50.0	48.7	1050.545	1023.62		-2.6	30
n-Eicosane	A	50.0	48.8	1062.687	1037.88		-2.3	30
n-Heneicosane	A	50.0	49.4	1181.034	1166		-1.3	30
n-Docosane	A	50.0	48.9	1074.334	1050.82		-2.2	30
n-Tetracosane	A	50.0	48.9	1073.95	1050		-2.2	30
n-Hexacosane	A	50.0	49.5	1063.157	1051.74		-1.1	30
n-Octacosane	A	50.0	49.6	1064.717	1055.92		-0.8	30
Extractable Petroleum Hydrocarbons (EPH)	A	600	617	1327.329	1366.04		2.9	25
o-Terphenyl	A	50.0	45.1	1694.644	1529.28		-9.8	30
1-Chlorooctadecane	A	50.0	48.1	1072.826	1032.26		-3.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



PEST/PCB



PEST/PCB SAMPLE DATA



ANALYSIS DATA SHEET

EPA 8081/8082

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/11/18 05:30	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3550B	File ID:	G22026.D
Prep Batch:	B8A1103	Sequence:	S8A1102	Analyzed:	01/11/18 14:47
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.700	0.700	U
319-85-7	beta-BHC	ND	0.700	0.700	U
319-86-8	delta-BHC	ND	0.700	0.700	U
58-89-9	gamma-BHC [Lindane]	ND	0.700	0.700	U
76-44-8	Heptachlor	ND	0.700	0.700	U
309-00-2	Aldrin	ND	0.700	0.700	U
1024-57-3	Heptachlor Epoxide	ND	0.700	0.700	U
959-98-8	Endosulfan I	ND	0.700	0.700	U
60-57-1	Dieldrin	ND	1.41	1.41	U
72-55-9	4,4'-DDE	ND	1.41	1.41	U
72-20-8	Endrin	ND	1.41	1.41	U
33213-65-9	Endosulfan II	ND	1.41	1.41	U
72-54-8	4,4'-DDD	ND	1.41	1.41	U
1031-07-8	Endosulfan sulfate	ND	1.41	1.41	U
50-29-3	4,4'-DDT	ND	1.41	1.41	U
72-43-5	Methoxychlor	ND	2.12	7.06	U
53494-70-5	Endrin ketone	ND	1.41	1.41	U
7421-93-4	Endrin aldehyde	ND	1.41	1.41	U
5103-71-9	alpha-Chlordane	ND	0.700	0.700	U
5566-34-7	gamma-Chlordane	ND	0.700	0.700	U
8001-35-2	Toxaphene	ND	35.3	35.3	U
12674-11-2	Aroclor-1016	ND	17.6	35.3	U



ANALYSIS DATA SHEET

EPA 8081/8082

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/11/18 05:30	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3550B	File ID:	G22026.D
Prep Batch:	B8A1103	Sequence:	S8A1102	Analyzed:	01/11/18 14:47
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	17.6	35.3	U
11141-16-5	Aroclor-1232	ND	17.6	35.3	U
53469-21-9	Aroclor-1242	ND	17.6	35.3	U
12672-29-6	Aroclor-1248	ND	17.6	35.3	U
11097-69-1	Aroclor-1254	ND	17.6	35.3	U
11096-82-5	Aroclor-1260	ND	17.6	35.3	U
37324-23-5	Aroclor-1262	ND	17.6	35.3	U
11100-14-4	Aroclor-1268	ND	17.6	35.3	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	75.3%	27-137
Tetrachloro-m-xylene [2C]	77.2%	39-138
Decachlorobiphenyl	71.6%	21-150
Decachlorobiphenyl [2C]	84.2%	24-171

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\JAN18\G0111\G22026.D\ECD1A.CH Vial: 15
 Signal #2 : D:\G\DATA\JAN18\G0111\G22026.D\ECD2B.CH
 Acq On : 11 Jan 2018 14:47 Operator: JAM
 Sample : 1800020-01 Inst : GCECD_GH
 Misc : SOILK 01/11/18 Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jan 11 15:43 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
 Title : 8081 Pesticides
 Last Update : Wed Jan 03 08:53:02 2018
 Response via : Initial Calibration
 DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

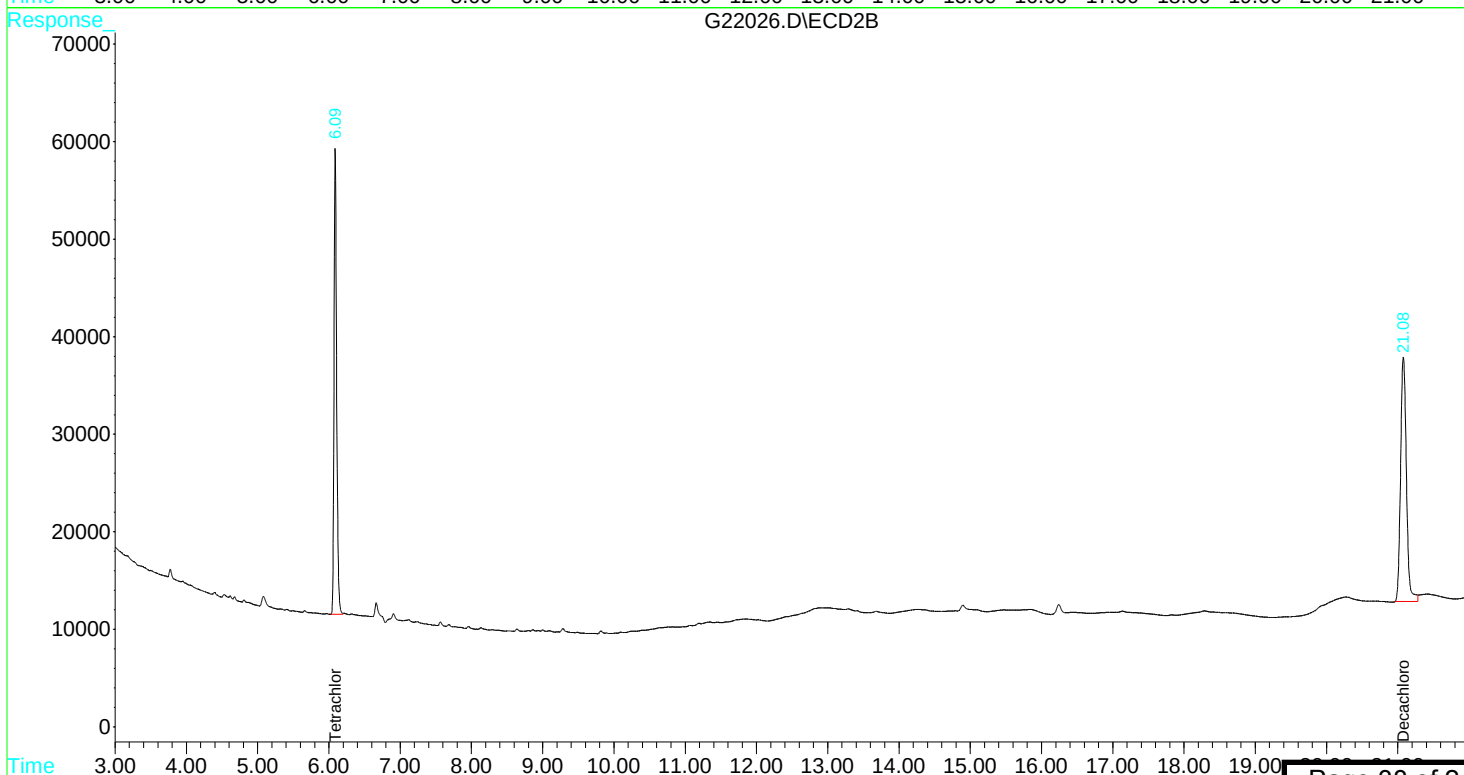
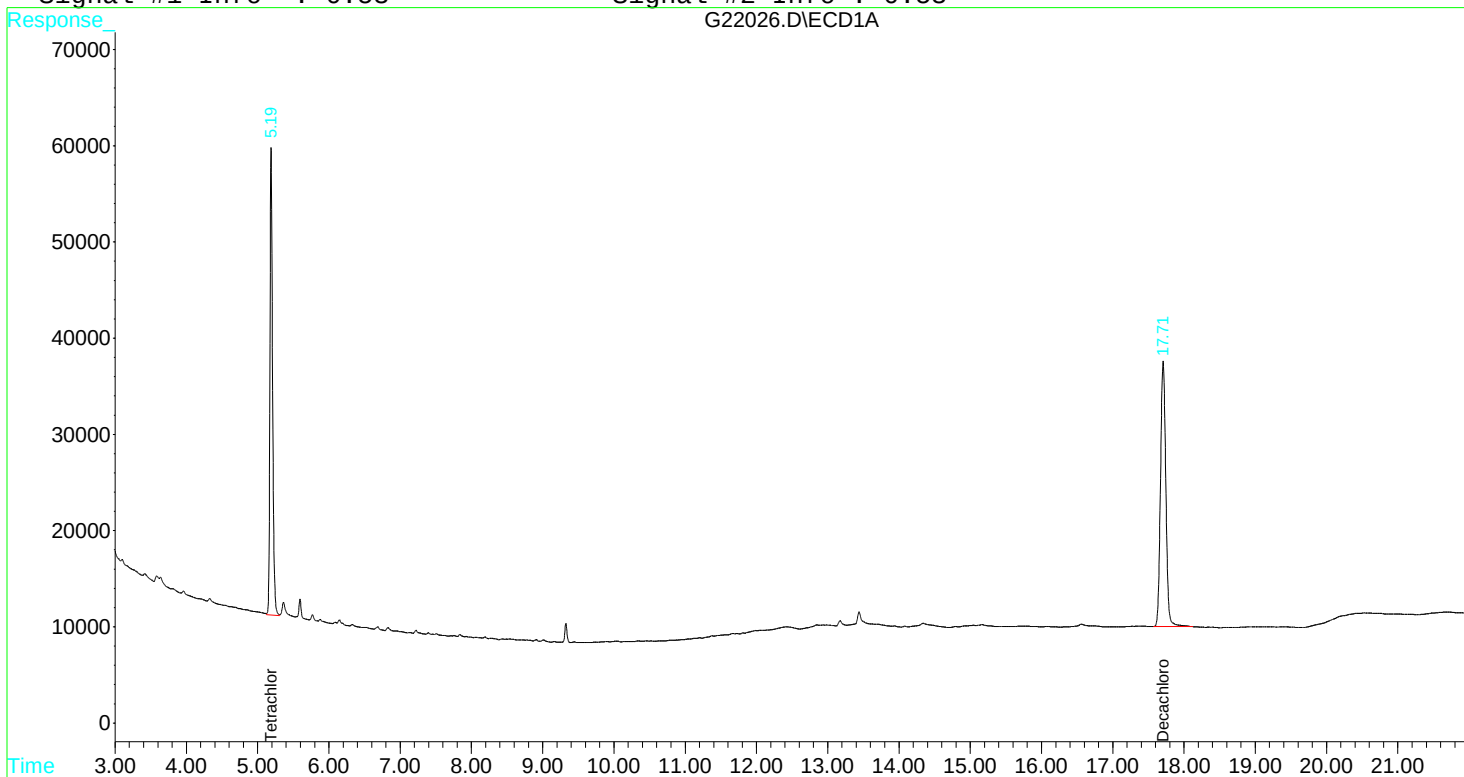
1) AS Tetrachloro-m-xy	5.19	6.09	1237570	1221036	0.753	0.772
Spiked Amount	10.000	Range	39 - 138	Recovery	=	7.53%#
22) AS Decachlorobiphen	17.71	21.08	1439428	1430164	0.716	0.842
Spiked Amount	10.000	Range	24 - 171	Recovery	=	7.16%#

Target Compounds

Signal #1 : D:\G\DATA\JAN18\G0111\G22026.D\ECD1A.CH Vial: 15
Signal #2 : D:\G\DATA\JAN18\G0111\G22026.D\ECD2B.CH
Acq On : 11 Jan 2018 14:47 Operator: JAM
Sample : 1800020-01 Inst : GCECD_GH
Misc : SOILK 01/11/18 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 11 15:43 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Wed Jan 03 08:53:02 2018
Response via : Multiple Level Calibration
DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





PEST/PCB QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
 Work Order: 1800020
 Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.660	0.660	U
319-85-7	beta-BHC	ND	0.660	0.660	U
319-86-8	delta-BHC	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane]	ND	0.660	0.660	U
76-44-8	Heptachlor	ND	0.660	0.660	U
309-00-2	Aldrin	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide	ND	0.660	0.660	U
959-98-8	Endosulfan I	ND	0.660	0.660	U
60-57-1	Dieldrin	ND	1.33	1.33	U
72-55-9	4,4'-DDE	ND	1.33	1.33	U
72-20-8	Endrin	ND	1.33	1.33	U
33213-65-9	Endosulfan II	ND	1.33	1.33	U
72-54-8	4,4'-DDD	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate	ND	1.33	1.33	U
50-29-3	4,4'-DDT	ND	1.33	1.33	U
72-43-5	Methoxychlor	ND	2.00	6.66	U
53494-70-5	Endrin ketone	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane	ND	0.660	0.660	U
8001-35-2	Toxaphene	ND	33.3	33.3	U
12674-11-2	Aroclor-1016	ND	16.6	33.3	U
11104-28-2	Aroclor-1221	ND	16.6	33.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
11141-16-5	Aroclor-1232	ND	16.6	33.3	U
53469-21-9	Aroclor-1242	ND	16.6	33.3	U
12672-29-6	Aroclor-1248	ND	16.6	33.3	U
11097-69-1	Aroclor-1254	ND	16.6	33.3	U
11096-82-5	Aroclor-1260	ND	16.6	33.3	U
37324-23-5	Aroclor-1262	ND	16.6	33.3	U
11100-14-4	Aroclor-1268	ND	16.6	33.3	U

Surrogate

Tetrachloro-m-xylene
 Decachlorobiphenyl

% Recovery

77.3%
 83.3%

Recovery Limits

27-137
 21-150

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
 Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
 Acq On : 11 Jan 2018 10:45 Operator: JAM
 Sample : B8A1103-BLK1 Inst : GCECD_GH
 Misc : SOILK 01/11/18 Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
 Title : 8081 Pesticides
 Last Update : Wed Jan 03 08:53:02 2018
 Response via : Initial Calibration
 DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

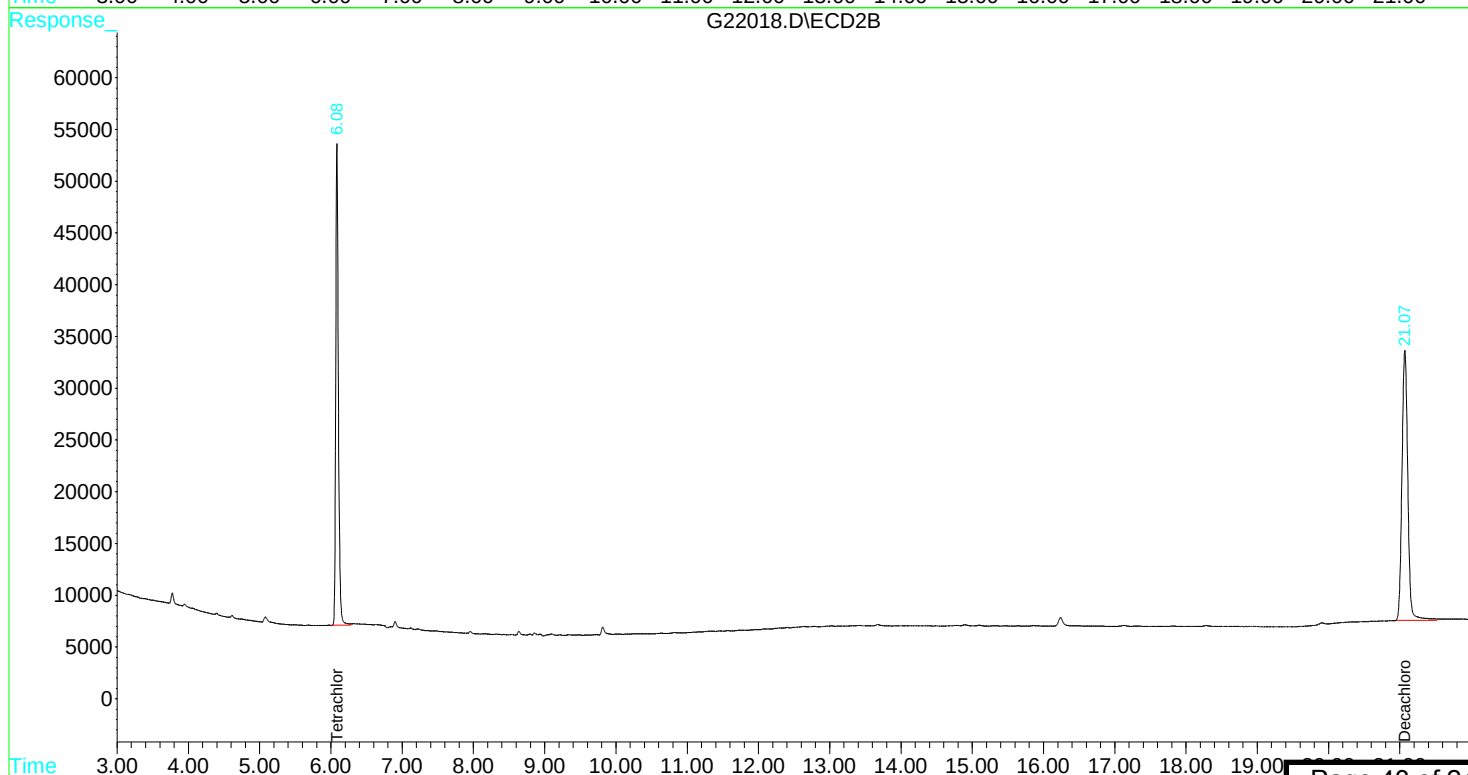
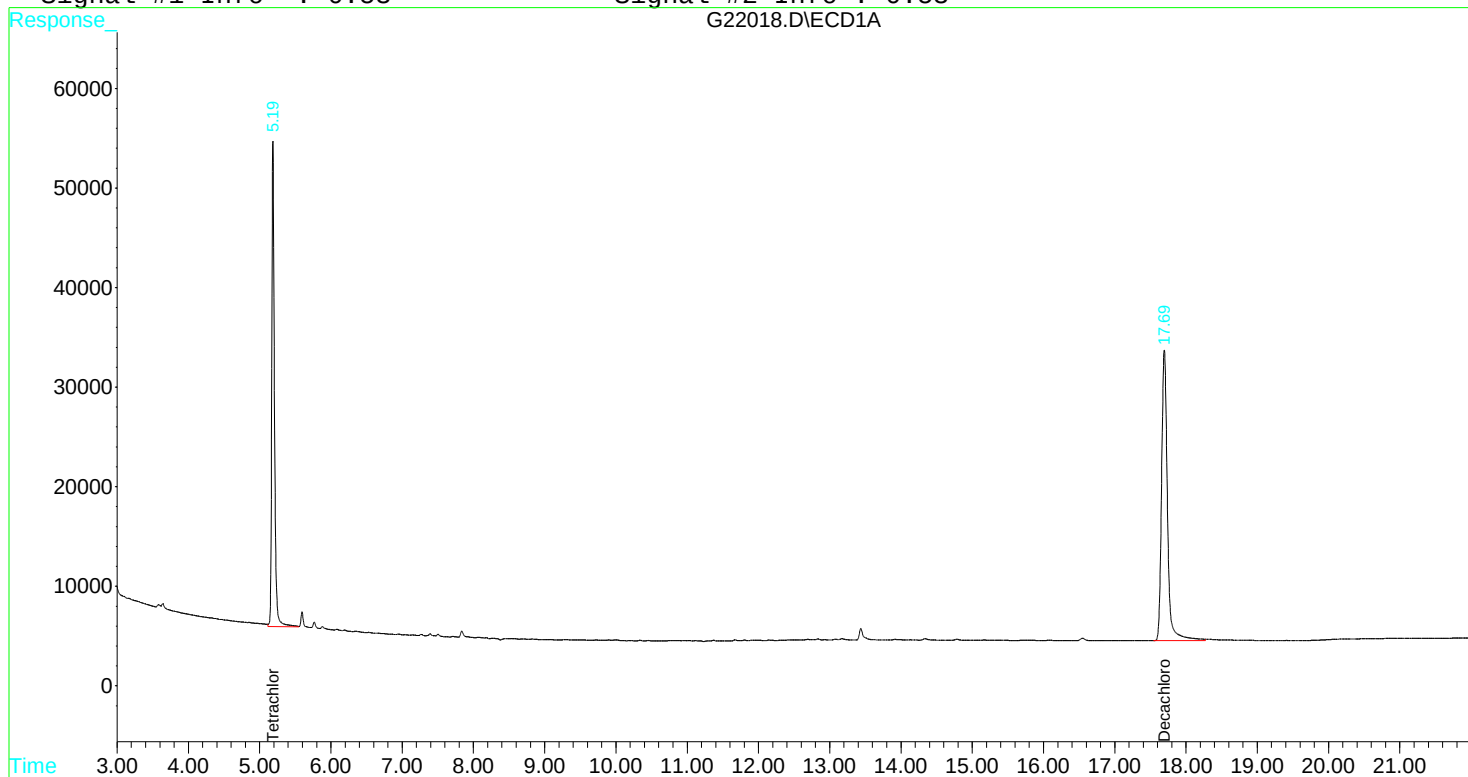
1) AS Tetrachloro-m-xy	5.19	6.08	1270332	1194666	0.773	0.755
Spiked Amount	10.000	Range	39 - 138	Recovery	=	7.73%#
2) AS Decachlorobiphen	17.69	21.07	1676344	1484916	0.833	0.874
Spiked Amount	10.000	Range	24 - 171	Recovery	=	8.33%#

Target Compounds

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
Acq On : 11 Jan 2018 10:45 Operator: JAM
Sample : B8A1103-BLK1 Inst : GCECD_GH
Misc : SOILK 01/11/18 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Wed Jan 03 08:53:02 2018
Response via : Multiple Level Calibration
DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC [2C]	ND	0.660	0.660	U
319-85-7	beta-BHC [2C]	ND	0.660	0.660	U
319-86-8	delta-BHC [2C]	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane] [2C]	ND	0.660	0.660	U
76-44-8	Heptachlor [2C]	ND	0.660	0.660	U
309-00-2	Aldrin [2C]	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide [2C]	ND	0.660	0.660	U
959-98-8	Endosulfan I [2C]	ND	0.660	0.660	U
60-57-1	Dieldrin [2C]	ND	1.33	1.33	U
72-55-9	4,4'-DDE [2C]	ND	1.33	1.33	U
72-20-8	Endrin [2C]	ND	1.33	1.33	U
33213-65-9	Endosulfan II [2C]	ND	1.33	1.33	U
72-54-8	4,4'-DDD [2C]	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate [2C]	ND	1.33	1.33	U
50-29-3	4,4'-DDT [2C]	ND	1.33	1.33	U
72-43-5	Methoxychlor [2C]	ND	2.00	6.66	U
53494-70-5	Endrin ketone [2C]	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde [2C]	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane [2C]	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane [2C]	ND	0.660	0.660	U
8001-35-2	Toxaphene [2C]	ND	33.3	33.3	U
12674-11-2	Aroclor-1016 [2C]	ND	16.6	33.3	U
11104-28-2	Aroclor-1221 [2C]	ND	16.6	33.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
11141-16-5	Aroclor-1232 [2C]	ND	16.6	33.3	U
53469-21-9	Aroclor-1242 [2C]	ND	16.6	33.3	U
12672-29-6	Aroclor-1248 [2C]	ND	16.6	33.3	U
11097-69-1	Aroclor-1254 [2C]	ND	16.6	33.3	U
11096-82-5	Aroclor-1260 [2C]	ND	16.6	33.3	U
37324-23-5	Aroclor-1262 [2C]	ND	16.6	33.3	U
11100-14-4	Aroclor-1268 [2C]	ND	16.6	33.3	U

Surrogate
% Recovery
Recovery Limits

Tetrachloro-m-xylene [2C]
 Decachlorobiphenyl [2C]

75.5%
 87.4%

39-138
 24-171

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
 Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
 Acq On : 11 Jan 2018 10:45 Operator: JAM
 Sample : B8A1103-BLK1 Inst : GCECD_GH
 Misc : SOILK 01/11/18 Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
 Title : 8081 Pesticides
 Last Update : Wed Jan 03 08:53:02 2018
 Response via : Initial Calibration
 DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

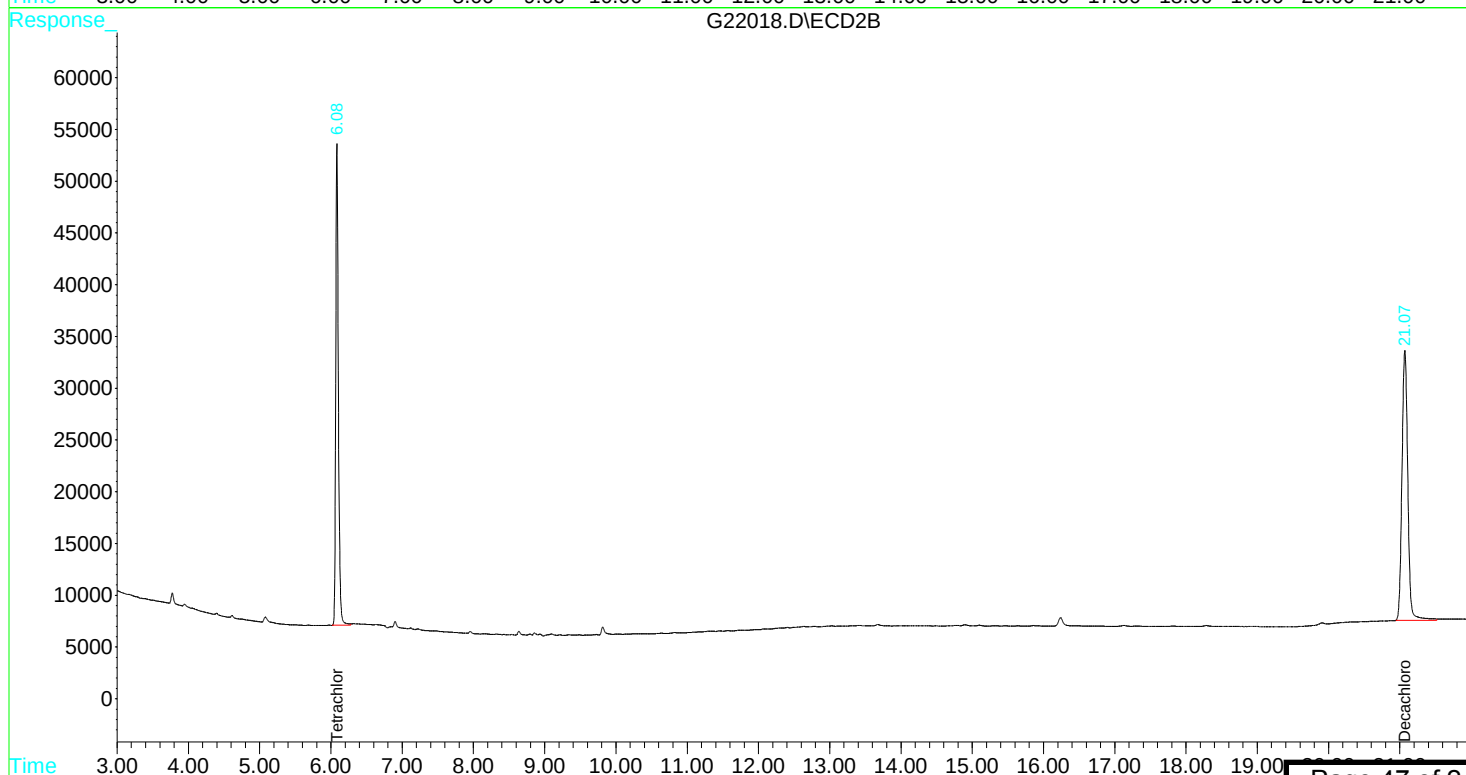
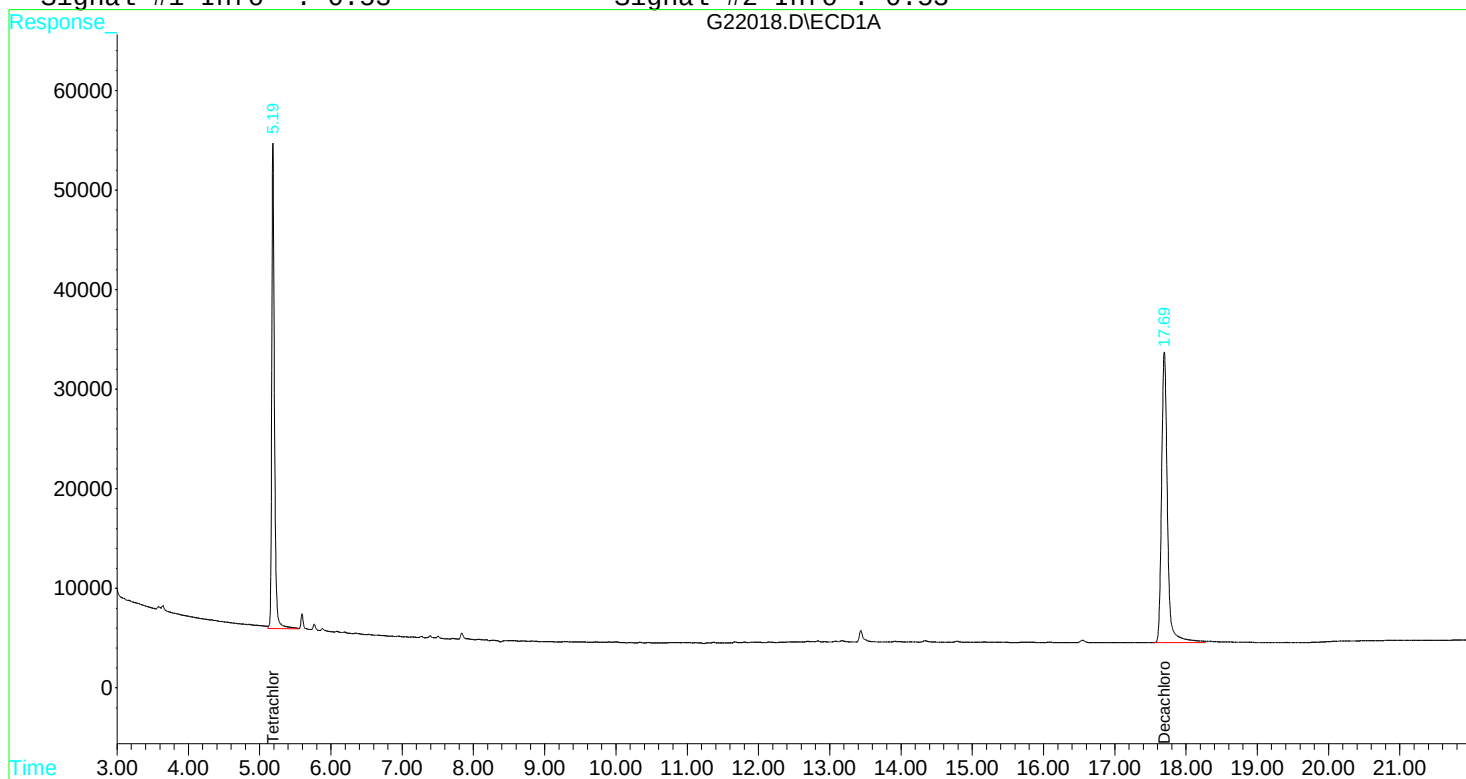
1) AS Tetrachloro-m-xy	5.19	6.08	1270332	1194666	0.773	0.755
Spiked Amount	10.000	Range	39 - 138	Recovery	=	7.73%#
2) AS Decachlorobiphen	17.69	21.07	1676344	1484916	0.833	0.874
Spiked Amount	10.000	Range	24 - 171	Recovery	=	8.33%#

Target Compounds

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
Acq On : 11 Jan 2018 10:45 Operator: JAM
Sample : B8A1103-BLK1 Inst : GCECD_GH
Misc : SOILK 01/11/18 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Wed Jan 03 08:53:02 2018
Response via : Multiple Level Calibration
DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





PEST/PCB QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**EPA 8081/8082****Client: MADDOX MATERIALS**
Project: Trap Rock Industries Kingston
Work Order: 1800020**Matrix: Solid**
Instrument: GCECD_GHF

Lab Sample ID:	DCB (21% - 150%)	DCB[2C] (24% - 171%)	TCMX (27% - 137%)	TCMX[2C] (39% - 138%)
1800020-01	71.6	84.2	75.3	77.2
B8A1103-BLK1	83.3	87.4	77.3	75.5
B8A1103-BS1	77.5	78.7	79.0	76.7
B8A1103-BS2	71.5	75.3	80.4	81.5
B8A1103-MS1	81.2	90.7	83.8	85.9
B8A1103-MS2	67.0	72.5	76.1	78.3
B8A1103-MSD1	80.4	88.8	81.8	83.0
B8A1103-MSD2	67.9	73.0	76.8	79.2



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MS1
Column:	1	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC	10.9	ND	15.7	144	41 - 161
beta-BHC	10.9	ND	12.6	116	37 - 144
delta-BHC	10.9	ND	15.8	146	40 - 167
gamma-BHC [Lindane]	10.9	ND	15.7	145	40 - 166
Heptachlor	10.9	ND	15.5	143	42 - 157
Aldrin	10.9	ND	14.1	129	42 - 154
Heptachlor Epoxide	10.9	ND	12.8	118	42 - 155
Endosulfan I	10.9	ND	12.0	111	37 - 147
Dieldrin	10.9	ND	14.6	134	41 - 167
4,4'-DDE	10.9	ND	13.3	122	36 - 142
Endrin	10.9	ND	15.6	144	53 - 175
Endosulfan II	10.9	ND	12.8	118	47 - 157
4,4'-DDD	10.9	ND	16.0	147	45 - 167
Endosulfan sulfate	10.9	ND	12.7	117	47 - 153
4,4'-DDT	10.9	ND	14.0	129	42 - 156
Methoxychlor	10.9	ND	14.0	129	49 - 180
Endrin ketone	10.9	ND	15.7	144	45 - 160
Endrin aldehyde	10.9	ND	14.1	130	49 - 161
alpha-Chlordane	10.9	ND	15.4	142	43 - 167
gamma-Chlordane	10.9	ND	12.8	118	42 - 149

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MSD1
Column:	1	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
alpha-BHC	10.9	15.1	139	4.00	17	41 - 161
beta-BHC	10.9	12.2	112	3.50	15	37 - 144
delta-BHC	10.9	15.2	140	4.21	13	40 - 167
gamma-BHC [Lindane]	10.9	16.0	147	1.60	15	40 - 166
Heptachlor	10.9	14.9	137	3.81	19	42 - 157
Aldrin	10.9	13.3	123	5.29	18	42 - 154
Heptachlor Epoxide	10.9	12.8	117	0.567	20	42 - 155
Endosulfan I	10.9	11.8	109	1.82	16	37 - 147
Dieldrin	10.9	14.0	129	4.05	14	41 - 167
4,4'-DDE	10.9	12.7	117	4.47	13	36 - 142
Endrin	10.9	15.1	139	3.54	20	53 - 175
Endosulfan II	10.9	12.4	114	3.46	15	47 - 157
4,4'-DDD	10.9	15.4	142	3.46	22	45 - 167
Endosulfan sulfate	10.9	12.9	118	1.42	26	47 - 153
4,4'-DDT	10.9	13.6	125	2.62	19	42 - 156
Methoxychlor	10.9	13.6	125	2.88	25	49 - 180
Endrin ketone	10.9	15.0	138	4.26	18	45 - 160
Endrin aldehyde	10.9	13.8	127	2.60	22	49 - 161
alpha-Chlordane	10.9	14.6	134	5.56	21	43 - 167
gamma-Chlordane	10.9	12.5	115	2.58	17	42 - 149

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MS2
Column:	1	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	358	ND	308	85.9	42 - 121
Aroclor-1016 (1)	358	0.00	300	83.7	42 - 121
Aroclor-1016 (2)	358	0.00	318	88.9	42 - 121
Aroclor-1016 (3)	358	0.00	305	85.2	42 - 121
Aroclor-1260	358	ND	317	88.6	45 - 129
Aroclor-1260 (1)	358	0.00	311	86.8	45 - 129
Aroclor-1260 (2)	358	0.00	330	92.2	45 - 129
Aroclor-1260 (3)	358	0.00	311	86.8	45 - 129

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MSD2
Column:	1	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	358	314	87.8	2.11	16	42 - 121
Aroclor-1016 (1)	358	306	85.5	2.16	16	42 - 121
Aroclor-1016 (2)	358	324	90.4	1.71	16	42 - 121
Aroclor-1016 (3)	358	313	87.4	2.48	16	42 - 121
Aroclor-1260	358	320	89.3	0.738	22	45 - 129
Aroclor-1260 (1)	358	318	88.9	2.36	22	45 - 129
Aroclor-1260 (2)	358	334	93.2	1.08	22	45 - 129
Aroclor-1260 (3)	358	307	85.8	1.27	22	45 - 129

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MS1
Column:	2	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.9	ND	15.3	141	45 - 164
beta-BHC [2C]	10.9	ND	13.0	120	45 - 150
delta-BHC [2C]	10.9	ND	14.2	131	34 - 170
gamma-BHC [Lindane] [2C]	10.9	ND	14.5	134	43 - 159
Heptachlor [2C]	10.9	ND	14.3	132	37 - 167
Aldrin [2C]	10.9	ND	12.8	117	43 - 153
Heptachlor Epoxide [2C]	10.9	ND	12.7	117	44 - 152
Endosulfan I [2C]	10.9	ND	13.6	125	46 - 159
Dieldrin [2C]	10.9	ND	13.3	122	43 - 153
4,4'-DDE [2C]	10.9	ND	12.5	115	45 - 149
Endrin [2C]	10.9	ND	14.9	137	47 - 175
Endosulfan II [2C]	10.9	ND	13.3	122	45 - 158
4,4'-DDD [2C]	10.9	ND	14.6	134	42 - 162
Endosulfan sulfate [2C]	10.9	ND	14.4	133	45 - 157
4,4'-DDT [2C]	10.9	ND	12.5	115	27 - 162
Methoxychlor [2C]	10.9	ND	14.3	132	25 - 189
Endrin ketone [2C]	10.9	ND	16.0	147	44 - 162
Endrin aldehyde [2C]	10.9	ND	14.6	134	48 - 163
alpha-Chlordane [2C]	10.9	ND	12.4	114	44 - 149
gamma-Chlordane [2C]	10.9	ND	12.9	119	46 - 151

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MSD1
Column:	2	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
alpha-BHC [2C]	10.9	14.5	133	5.59	16	45 - 164
beta-BHC [2C]	10.9	12.6	116	3.39	22	45 - 150
delta-BHC [2C]	10.9	13.7	126	4.16	12	34 - 170
gamma-BHC [Lindane] [2C]	10.9	14.0	129	3.81	14	43 - 159
Heptachlor [2C]	10.9	13.7	126	4.13	17	37 - 167
Aldrin [2C]	10.9	12.3	113	3.76	18	43 - 153
Heptachlor Epoxide [2C]	10.9	12.1	111	4.98	19	44 - 152
Endosulfan I [2C]	10.9	13.3	123	1.62	16	46 - 159
Dieldrin [2C]	10.9	12.8	117	4.17	15	43 - 153
4,4'-DDE [2C]	10.9	12.1	112	2.65	15	45 - 149
Endrin [2C]	10.9	14.3	132	3.73	17	47 - 175
Endosulfan II [2C]	10.9	13.2	121	0.823	23	45 - 158
4,4'-DDD [2C]	10.9	15.3	141	5.09	17	42 - 162
Endosulfan sulfate [2C]	10.9	13.6	125	5.68	17	45 - 157
4,4'-DDT [2C]	10.9	11.8	108	5.97	28	27 - 162
Methoxychlor [2C]	10.9	13.7	126	4.13	27	25 - 189
Endrin ketone [2C]	10.9	15.6	144	2.29	25	44 - 162
Endrin aldehyde [2C]	10.9	14.2	130	2.77	18	48 - 163
alpha-Chlordane [2C]	10.9	12.1	111	2.07	13	44 - 149
gamma-Chlordane [2C]	10.9	12.5	115	3.14	18	46 - 151

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MS2
Column:	2	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	358	ND	300	83.8	46 - 122
Aroclor-1016 (1) [2C]	358	0.00	293	81.8	46 - 122
Aroclor-1016 (2) [2C]	358	0.00	303	84.5	46 - 122
Aroclor-1016 (3) [2C]	358	0.00	304	84.9	46 - 122
Aroclor-1260 [2C]	358	ND	320	89.5	51 - 125
Aroclor-1260 (1) [2C]	358	0.00	321	89.7	51 - 125
Aroclor-1260 (2) [2C]	358	0.00	321	89.6	51 - 125
Aroclor-1260 (3) [2C]	358	0.00	320	89.2	51 - 125

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MSD2
Column:	2	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016 [2C]	358	306	85.3	1.88	18	46 - 122
Aroclor-1016 (1) [2C]	358	301	83.9	2.55	18	46 - 122
Aroclor-1016 (2) [2C]	358	304	84.9	0.543	18	46 - 122
Aroclor-1016 (3) [2C]	358	312	87.1	2.57	18	46 - 122
Aroclor-1260 [2C]	358	329	91.9	2.64	29	51 - 125
Aroclor-1260 (1) [2C]	358	333	93.0	3.68	29	51 - 125
Aroclor-1260 (2) [2C]	358	326	91.2	1.73	29	51 - 125
Aroclor-1260 (3) [2C]	358	328	91.5	2.51	29	51 - 125

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 3550B
Prep Batch: B8A1103	Lab Sample ID: B8A1103-BS1
Column: 1	

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC	10.0	12.5	125	41 - 161
beta-BHC	10.0	10.0	100	37 - 144
delta-BHC	10.0	12.1	121	40 - 167
gamma-BHC [Lindane]	10.0	12.0	120	40 - 166
Heptachlor	10.0	11.9	119	42 - 157
Aldrin	10.0	11.6	116	42 - 154
Heptachlor Epoxide	10.0	10.8	108	42 - 155
Endosulfan I	10.0	9.07	90.7	37 - 147
Dieldrin	10.0	11.1	111	41 - 167
4,4'-DDE	10.0	10.4	104	36 - 142
Endrin	10.0	11.5	115	53 - 175
Endosulfan II	10.0	9.67	96.7	47 - 157
4,4'-DDD	10.0	12.2	122	45 - 167
Endosulfan sulfate	10.0	11.6	116	47 - 153
4,4'-DDT	10.0	10.7	107	42 - 156
Methoxychlor	10.0	10.6	106	49 - 180
Endrin ketone	10.0	12.7	127	45 - 160
Endrin aldehyde	10.0	11.6	116	49 - 161
alpha-Chlordane	10.0	12.1	121	43 - 167
gamma-Chlordane	10.0	9.93	99.3	42 - 149



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B8A1103	Lab Sample ID:	B8A1103-BS2
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	333	293	87.8	42 - 121
Aroclor-1016 (1)	333	285	85.6	42 - 121
Aroclor-1016 (2)	333	302	90.7	42 - 121
Aroclor-1016 (3)	333	290	87.1	42 - 121
Aroclor-1260	333	301	90.4	45 - 129
Aroclor-1260 (1)	333	299	89.6	45 - 129
Aroclor-1260 (2)	333	311	93.4	45 - 129
Aroclor-1260 (3)	333	294	88.2	45 - 129

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 3550B
Prep Batch: B8A1103	Lab Sample ID: B8A1103-BS1
Column: 2	

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.0	12.0	120	45 - 164
beta-BHC [2C]	10.0	10.0	100	45 - 150
delta-BHC [2C]	10.0	11.4	114	34 - 170
gamma-BHC [Lindane] [2C]	10.0	11.4	114	43 - 159
Heptachlor [2C]	10.0	11.6	116	37 - 167
Aldrin [2C]	10.0	12.4	124	43 - 153
Heptachlor Epoxide [2C]	10.0	12.6	126	44 - 152
Endosulfan I [2C]	10.0	11.3	113	46 - 159
Dieldrin [2C]	10.0	11.3	113	43 - 153
4,4'-DDE [2C]	10.0	10.6	106	45 - 149
Endrin [2C]	10.0	12.7	127	47 - 175
Endosulfan II [2C]	10.0	12.0	120	45 - 158
4,4'-DDD [2C]	10.0	13.1	131	42 - 162
Endosulfan sulfate [2C]	10.0	11.7	117	45 - 157
4,4'-DDT [2C]	10.0	11.8	118	27 - 162
Methoxychlor [2C]	10.0	13.0	130	25 - 189
Endrin ketone [2C]	10.0	13.0	130	44 - 162
Endrin aldehyde [2C]	10.0	12.5	125	48 - 163
alpha-Chlordane [2C]	10.0	10.2	102	44 - 149
gamma-Chlordane [2C]	10.0	10.3	103	46 - 151



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B8A1103	Lab Sample ID:	B8A1103-BS2
Column:	2		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	333	287	86.0	46 - 122
Aroclor-1016 (1) [2C]	333	292	87.6	46 - 122
Aroclor-1016 (2) [2C]	333	288	86.3	46 - 122
Aroclor-1016 (3) [2C]	333	281	84.2	46 - 122
Aroclor-1260 [2C]	333	297	89.1	51 - 125
Aroclor-1260 (1) [2C]	333	288	86.4	51 - 125
Aroclor-1260 (2) [2C]	333	295	88.6	51 - 125
Aroclor-1260 (3) [2C]	333	308	92.5	51 - 125

* Values outside of QC limits

**METHOD BLANK SUMMARY**

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Blank ID:	B8A1103-BLK1	Batch:	B8A1103
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A1103-BS1	G22022.D	01/11/2018 12:48
S-1	1800020-01	G22026.D	01/11/2018 14:47
Matrix Spike	B8A1103-MS1	G22028.D	01/11/2018 15:45
Matrix Spike Dup	B8A1103-MSD1	G22029.D	01/11/2018 16:13
Matrix Spike	B8A1103-MS2	G22030.D	01/11/2018 16:42
Matrix Spike Dup	B8A1103-MSD2	G22031.D	01/11/2018 17:11
LCS	B8A1103-BS2	G22032.D	01/11/2018 17:39



ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A0204	Instrument:	GCECD_GHF
Calibration:	18A1201		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S8A0204-PEM1	G21924.D	01/02/18 11:01
Cal Standard	S8A0204-CAL1	G21925.D	01/02/18 11:29
Cal Standard	S8A0204-CAL2	G21926.D	01/02/18 11:58
Cal Standard	S8A0204-CAL3	G21927.D	01/02/18 12:27
Cal Standard	S8A0204-CAL5	G21929.D	01/02/18 13:25
Cal Standard	S8A0204-CAL4	G21928.D	01/02/18 14:36
Cal Standard	S8A0204-CAL6	G21930.D	01/02/18 15:18
Cal Standard	S8A0204-CAL7	G21931.D	01/02/18 15:46
Cal Standard	S8A0204-CAL8	G21932.D	01/02/18 16:15
Cal Standard	S8A0204-CAL9	G21933.D	01/02/18 16:44
Cal Standard	S8A0204-CALA	G21934.D	01/02/18 17:13
Cal Standard	S8A0204-CALB	G21935.D	01/02/18 17:41
Cal Standard	S8A0204-CALC	G21936.D	01/02/18 18:10
Cal Standard	S8A0204-CALD	G21937.D	01/02/18 18:39
Cal Standard	S8A0204-CALE	G21938.D	01/02/18 19:07
Cal Standard	S8A0204-CALF	G21939.D	01/02/18 19:36
Cal Standard	S8A0204-CALG	G21940.D	01/02/18 20:05
Cal Standard	S8A0204-CALH	G21941.D	01/02/18 20:34
Cal Standard	S8A0204-CALI	G21942.D	01/02/18 21:02
Cal Standard	S8A0204-CALJ	G21943.D	01/02/18 21:31
Cal Standard	S8A0204-CALK	G21944.D	01/02/18 22:00
Aroclor Reference	S8A0204-ARC1	G21945.D	01/02/18 22:28
Aroclor Reference	S8A0204-ARC2	G21946.D	01/02/18 22:57

**ANALYSIS SEQUENCE SUMMARY**

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A0204	Instrument:	GCECD_GHF
Calibration:	18A1201		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Aroclor Reference	S8A0204-ARC3	G21947.D	01/02/18 23:26
Aroclor Reference	S8A0204-ARC4	G21948.D	01/02/18 23:54



ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A1102	Instrument:	GCECD_GHF
Calibration:	18A1201		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S8A1102-PEM1	G22013.D	01/11/18 08:20
Calibration Check	S8A1102-CCV1	G22014.D	01/11/18 08:49
Calibration Check	S8A1102-CCV2	G22015.D	01/11/18 09:18
Calibration Check	S8A1102-CCV3	G22016.D	01/11/18 09:47
Calibration Check	S8A1102-CCV4	G22017.D	01/11/18 10:15
Blank	B8A1103-BLK1	G22018.D	01/11/18 10:45
LCS	B8A1103-BS1	G22022.D	01/11/18 12:48
S-1	1800020-01	G22026.D	01/11/18 14:47
Matrix Spike	B8A1103-MS1	G22028.D	01/11/18 15:45
Matrix Spike Dup	B8A1103-MSD1	G22029.D	01/11/18 16:13
Matrix Spike	B8A1103-MS2	G22030.D	01/11/18 16:42
Matrix Spike Dup	B8A1103-MSD2	G22031.D	01/11/18 17:11
LCS	B8A1103-BS2	G22032.D	01/11/18 17:39



PEST/PCB CALIBRATION DATA


Accredited Analytical Resources, LLC.

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INITIAL CALIBRATION DATA

EPA 8081/8082

Client: **MADDOX MATERIALS**
Work Order: **1800020**
Project: **Trap Rock Industries Kingston**

Calibration:	18A1201				Instrument:	GCECD_GHF				Calibration Date:	1/2/2018 12:23:48PM	
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
alpha-BHC	0.08	2.333798E+07	0.04	2.25765E+07	0.02	1.99479E+07	0.01	1.9605E+07	0.002	1.6965E+07		
alpha-BHC [2C]	0.08	2.28337E+07	0.04	2.17844E+07	0.02	1.86884E+07	0.01	1.84282E+07	0.002	1.5539E+07		
beta-BHC											0.08	1.10153E+07
beta-BHC [2C]											0.08	1.012578E+07
delta-BHC											0.08	2.137395E+07
delta-BHC [2C]											0.08	2.0064E+07
gamma-BHC [Lindane]	0.08	2.151872E+07	0.04	2.11945E+07	0.02	1.92241E+07	0.01	1.8844E+07	0.002	1.7213E+07		
gamma-BHC [Lindane] [2C]	0.08	2.079912E+07	0.04	2.02235E+07	0.02	1.78208E+07	0.01	1.72714E+07	0.002	1.5692E+07		
Heptachlor	0.08	1.7485E+07	0.04	1.75943E+07	0.02	1.66429E+07	0.01	1.73934E+07	0.002	1.8206E+07		
Heptachlor [2C]	0.08	1.828378E+07	0.04	1.7881E+07	0.02	1.62948E+07	0.01	1.67624E+07	0.002	1.6146E+07		
Aldrin											0.08	2.14932E+07
Aldrin [2C]											0.08	1.988365E+07
Heptachlor Epoxide											0.08	1.871642E+07
Heptachlor Epoxide [2C]											0.08	1.737692E+07
Endosulfan I	0.08	1.673163E+07	0.04	1.650645E+07	0.02	1.5502E+07	0.01	1.63512E+07	0.002	1.6755E+07		
Endosulfan I [2C]	0.08	1.530085E+07	0.04	1.49779E+07	0.02	1.37041E+07	0.01	1.4171E+07	0.002	1.366E+07		
Dieldrin	0.16	1.674746E+07	0.08	1.683942E+07	0.04	1.56913E+07	0.02	1.61221E+07	0.004	1.5543E+07		
Dieldrin [2C]	0.16	1.644914E+07	0.08	1.617365E+07	0.04	1.464065E+07	0.02	1.44932E+07	0.004	1.38545E+07		
4,4'-DDE											0.16	1.837385E+07
4,4'-DDE [2C]											0.16	1.703921E+07
Endrin	0.16	1.28085E+07	0.08	1.309893E+07	0.04	1.25204E+07	0.02	1.29781E+07	0.004	1.45255E+07		
Endrin [2C]	0.16	1.196648E+07	0.08	1.1883E+07	0.04	1.091905E+07	0.02	1.08145E+07	0.004	1.14125E+07		
Endosulfan II											0.16	1.544686E+07
Endosulfan II [2C]											0.16	1.45029E+07
4,4'-DDD	0.16	1.18782E+07	0.08	1.202295E+07	0.04	1.121565E+07	0.02	1.16139E+07	0.004	1.1254E+07		


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INITIAL CALIBRATION DATA

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]	0.16	1.173385E+07	0.08	1.159118E+07	0.04	1.05303E+07	0.02	1.03574E+07	0.004	9950500		
Endosulfan sulfate											0.16	1.410815E+07
Endosulfan sulfate [2C]											0.16	1.321891E+07
4,4'-DDT	0.16	1.232684E+07	0.08	1.246385E+07	0.04	1.18647E+07	0.02	1.26622E+07	0.004	1.2723E+07		
4,4'-DDT [2C]	0.16	1.20596E+07	0.08	1.20013E+07	0.04	1.11338E+07	0.02	1.14383E+07	0.004	1.0745E+07		
Methoxychlor	0.8	5329400	0.4	5720315	0.2	5865320	0.1	6559860	0.02	7169500		
Methoxychlor [2C]	0.8	5754995	0.4	6117765	0.2	6146980	0.1	6741180	0.02	6519100		
Endrin ketone											0.16	1.456931E+07
Endrin ketone [2C]											0.16	1.465515E+07
Endrin aldehyde											0.16	1.204271E+07
Endrin aldehyde [2C]											0.16	1.147046E+07
alpha-Chlordane											0.08	1.949805E+07
alpha-Chlordane [2C]											0.08	1.746728E+07
gamma-Chlordane											0.08	1.989968E+07
gamma-Chlordane [2C]											0.08	1.786565E+07
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												



INITIAL CALIBRATION DATA

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201				Instrument: GCECD_GHF								
				Calibration Date: 1/2/2018 12:23:48PM								
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene	0.08	1.589408E+07	0.04	1.649485E+07	0.02	1.61416E+07	0.01	1.6431E+07	0.002	1.7231E+07		
Tetrachloro-m-xylene [2C]	0.08	1.512323E+07	0.04	1.57655E+07	0.02	1.52693E+07	0.01	1.61542E+07	0.002	1.677E+07		
Decachlorobiphenyl	0.16	1.840815E+07	0.08	1.910515E+07	0.04	1.921645E+07	0.02	2.13278E+07	0.004	2.25145E+07		
Decachlorobiphenyl [2C]	0.16	1.628346E+07	0.08	1.703548E+07	0.04	1.685535E+07	0.02	1.81535E+07	0.004	1.6604E+07		



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC	0.04	1.146515E+07	0.02	1.12415E+07	0.01	1.14024E+07	0.002	1.2897E+07				
beta-BHC [2C]	0.04	1.051315E+07	0.02	1.02736E+07	0.01	1.04012E+07	0.002	1.096E+07				
delta-BHC	0.04	2.086515E+07	0.02	1.87597E+07	0.01	1.70758E+07	0.002	1.6964E+07				
delta-BHC [2C]	0.04	1.921785E+07	0.02	1.68879E+07	0.01	1.53956E+07	0.002	1.5248E+07				
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin	0.04	2.106775E+07	0.02	1.92468E+07	0.01	1.85444E+07	0.002	1.9304E+07				
Aldrin [2C]	0.04	1.924355E+07	0.02	1.76155E+07	0.01	1.67298E+07	0.002	1.675E+07				
Heptachlor Epoxide	0.04	1.87254E+07	0.02	1.7417E+07	0.01	1.73844E+07	0.002	1.9308E+07				
Heptachlor Epoxide [2C]	0.04	1.71842E+07	0.02	1.60916E+07	0.01	1.60734E+07	0.002	1.7022E+07				
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE	0.08	1.86426E+07	0.04	1.779755E+07	0.02	1.76381E+07	0.004	1.82715E+07				
4,4'-DDE [2C]	0.08	1.705515E+07	0.04	1.60218E+07	0.02	1.57356E+07	0.004	1.62275E+07				
Endrin												
Endrin [2C]												
Endosulfan II	0.08	1.576115E+07	0.04	1.534895E+07	0.02	1.558E+07	0.004	1.7257E+07				
Endosulfan II [2C]	0.08	1.44917E+07	0.04	1.369895E+07	0.02	1.35354E+07	0.004	1.34335E+07				
4,4'-DDD												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate	0.08	1.40406E+07	0.04	1.35146E+07	0.02	1.35336E+07	0.004	1.42755E+07				
Endosulfan sulfate [2C]	0.08	1.28262E+07	0.04	1.19951E+07	0.02	1.15257E+07	0.004	1.0989E+07				
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone	0.08	1.465523E+07	0.04	1.42567E+07	0.02	1.39235E+07	0.004	1.4714E+07				
Endrin ketone [2C]	0.08	1.41002E+07	0.04	1.29012E+07	0.02	1.23057E+07	0.004	1.18325E+07				
Endrin aldehyde	0.08	1.232345E+07	0.04	1.23252E+07	0.02	1.28711E+07	0.004	1.5173E+07				
Endrin aldehyde [2C]	0.08	1.148138E+07	0.04	1.10433E+07	0.02	1.09324E+07	0.004	1.1186E+07				
alpha-Chlordane	0.04	1.96729E+07	0.02	1.87552E+07	0.01	1.89296E+07	0.002	2.0951E+07				
alpha-Chlordane [2C]	0.04	1.72834E+07	0.02	1.63713E+07	0.01	1.65E+07	0.002	1.7683E+07				
gamma-Chlordane	0.04	1.987715E+07	0.02	1.88599E+07	0.01	1.91482E+07	0.002	2.1134E+07				
gamma-Chlordane [2C]	0.04	1.760795E+07	0.02	1.65827E+07	0.01	1.6758E+07	0.002	1.7698E+07				
Toxaphene									10	241501.1	5	251076.2
Toxaphene (1)									10	198361.8	5	207512
Toxaphene (2)									10	344107.2	5	353730.4
Toxaphene (3)									10	241455.8	5	245892.4
Toxaphene (4)									10	182079.4	5	197169.6
Toxaphene [2C]									10	378826.8	5	390073.8
Toxaphene (1) [2C]									10	210050	5	220908
Toxaphene (2) [2C]									10	653193.6	5	673484
Toxaphene (3) [2C]									10	299978.8	5	302863.6
Toxaphene (4) [2C]									10	352084.8	5	363039.6



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene	2.5	261155.8	1	280387.5	0.1	314880						
Toxaphene (1)	2.5	216436	1	232080	0.1	277000						
Toxaphene (2)	2.5	364937.6	1	381120	0.1	417220						
Toxaphene (3)	2.5	249286.4	1	268278	0.1	284960						
Toxaphene (4)	2.5	213963.2	1	240072	0.1	280340						
Toxaphene [2C]	2.5	394098.2	1	392566.5	0.1	402385						
Toxaphene (1) [2C]	2.5	232360	1	234040	0.1	267020						
Toxaphene (2) [2C]	2.5	686044.8	1	698256	0.1	702080						
Toxaphene (3) [2C]	2.5	298411.2	1	280192	0.1	284440						
Toxaphene (4) [2C]	2.5	359576.8	1	357778	0.1	356000						



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1016							2	66877.5	1.5	70048.2	1	75719.33
Aroclor-1016 (1)							2	38954	1.5	40464	1	44341
Aroclor-1016 (2)							2	111960.5	1.5	117288	1	126779
Aroclor-1016 (3)							2	49718	1.5	52392.67	1	56038
Aroclor-1016 [2C]							2	69709.85	1.5	70588.47	1	77147.67
Aroclor-1016 (1) [2C]							2	51268	1.5	53877.33	1	59228
Aroclor-1016 (2) [2C]							2	110038	1.5	108000.7	1	120929
Aroclor-1016 (3) [2C]							2	47823.5	1.5	49887.33	1	51286
Aroclor-1260							2	115569	1.5	121216	1	127063
Aroclor-1260 (1)							2	73713.5	1.5	77881.34	1	81941
Aroclor-1260 (2)							2	109341.5	1.5	115352	1	121624
Aroclor-1260 (3)							2	163652	1.5	170414.7	1	177624
Aroclor-1260 [2C]							2	108056.5	1.5	110563.8	1	116944.7
Aroclor-1260 (1) [2C]							2	84455.5	1.5	87322.66	1	94784
Aroclor-1260 (2) [2C]							2	67149	1.5	68805.34	1	72663
Aroclor-1260 (3) [2C]							2	172565	1.5	175563.3	1	183387
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												


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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1016	0.5	83592	0.1	104376.7								
Aroclor-1016 (1)	0.5	48860	0.1	59470								
Aroclor-1016 (2)	0.5	140674	0.1	178410								
Aroclor-1016 (3)	0.5	61242	0.1	75250								
Aroclor-1016 [2C]	0.5	84011.34	0.1	104036.7								
Aroclor-1016 (1) [2C]	0.5	65116	0.1	78950								
Aroclor-1016 (2) [2C]	0.5	131112	0.1	165560								
Aroclor-1016 (3) [2C]	0.5	55806	0.1	67600								
Aroclor-1260	0.5	137362	0.1	166893.3								
Aroclor-1260 (1)	0.5	89100	0.1	115230								
Aroclor-1260 (2)	0.5	133036	0.1	161070								
Aroclor-1260 (3)	0.5	189950	0.1	224380								
Aroclor-1260 [2C]	0.5	122725.3	0.1	139666.7								
Aroclor-1260 (1) [2C]	0.5	103574	0.1	129240								
Aroclor-1260 (2) [2C]	0.5	76626	0.1	85950								
Aroclor-1260 (3) [2C]	0.5	187976	0.1	203810								
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	A	2.048648E+07	12.43697			CCC (20)	
alpha-BHC [2C]	A	1.945474E+07	14.94595			CCC (20)	
beta-BHC	A	1.160427E+07	6.40506			CCC (20)	
beta-BHC [2C]	A	1.045475E+07	3.034526			CCC (20)	
delta-BHC	A	1.900772E+07	10.85216			CCC (20)	
delta-BHC [2C]	A	1.736267E+07	12.65301			CCC (20)	
gamma-BHC [Lindane]	A	1.959887E+07	9.068148			CCC (20)	
gamma-BHC [Lindane] [2C]	A	1.836137E+07	11.55829			CCC (20)	
Heptachlor	A	1.746432E+07	3.197286			CCC (20)	
Heptachlor [2C]	A	1.70736E+07	5.618012			CCC (20)	
Aldrin	A	1.993123E+07	6.403922			CCC (20)	
Aldrin [2C]	A	1.80445E+07	8.034926			CCC (20)	
Heptachlor Epoxide	A	1.831025E+07	4.720203			CCC (20)	
Heptachlor Epoxide [2C]	A	1.674963E+07	3.712663			CCC (20)	
Endosulfan I	A	1.636926E+07	3.132009			CCC (20)	
Endosulfan I [2C]	A	1.436277E+07	5.190276			CCC (20)	
Dieldrin	A	1.618866E+07	3.660236			CCC (20)	
Dieldrin [2C]	A	1.512223E+07	7.467544			CCC (20)	
4,4'-DDE	A	1.814472E+07	2.295037			CCC (20)	
4,4'-DDE [2C]	A	1.641585E+07	3.668655			CCC (20)	
Endrin	A	1.318629E+07	5.91158			CCC (20)	
Endrin [2C]	A	1.139911E+07	4.659527			CCC (20)	
Endosulfan II	A	1.587879E+07	4.948682			CCC (20)	
Endosulfan II [2C]	A	1.393249E+07	3.762691			CCC (20)	
4,4'-DDD	A	1.159694E+07	3.1206			CCC (20)	
4,4'-DDD [2C]	A	1.083265E+07	7.273151			CCC (20)	



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Endosulfan sulfate	A	1.389449E+07	2.510553			CCC (20)	
Endosulfan sulfate [2C]	A	1.211098E+07	7.560736			CCC (20)	
4,4'-DDT	A	1.240812E+07	2.758815			CCC (20)	
4,4'-DDT [2C]	A	1.14756E+07	4.909031			CCC (20)	
Methoxychlor	A	6128879	11.94595			CCC (20)	
Methoxychlor [2C]	A	6256004	6.121417			CCC (20)	
Endrin ketone	A	1.442375E+07	2.292012			CCC (20)	
Endrin ketone [2C]	A	1.315895E+07	9.054528			CCC (20)	
Endrin aldehyde	A	1.294709E+07	9.88671			CCC (20)	
Endrin aldehyde [2C]	A	1.122271E+07	2.210202			CCC (20)	
alpha-Chlordane	A	1.956135E+07	4.424691			CCC (20)	
alpha-Chlordane [2C]	A	1.7061E+07	3.457449			CCC (20)	
gamma-Chlordane	A	1.978379E+07	4.451789			CCC (20)	
gamma-Chlordane [2C]	A	1.730246E+07	3.396485			CCC (20)	
Toxaphene	A	269800.1	10.75897			CCC (20)	
Toxaphene (1)	A	226278	13.68343			CCC (20)	
Toxaphene (2)	A	372223	7.704202			CCC (20)	
Toxaphene (3)	A	257974.5	7.06493			CCC (20)	
Toxaphene (4)	A	222724.8	17.39246			CCC (20)	
Toxaphene [2C]	A	391590.1	2.170542			CCC (20)	
Toxaphene (1) [2C]	A	232875.6	9.189088			CCC (20)	
Toxaphene (2) [2C]	A	682611.7	2.915499			CCC (20)	
Toxaphene (3) [2C]	A	293177.1	3.463528			CCC (20)	
Toxaphene (4) [2C]	A	357695.8	1.139559			CCC (20)	
Aroclor-1016	A	80122.75	18.68602			CCC (20)	
Aroclor-1016 (1)	A	46417.8	17.75844			CCC (20)	



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016 (2)	A	135022.3	19.69522			CCC (20)	
Aroclor-1016 (3)	A	58928.13	17.13131			CCC (20)	
Aroclor-1016 [2C]	A	81098.81	17.33339			CCC (20)	
Aroclor-1016 (1) [2C]	A	61687.87	17.85678			CCC (20)	
Aroclor-1016 (2) [2C]	A	127127.9	18.40246			CCC (20)	
Aroclor-1016 (3) [2C]	A	54480.57	14.4964			CCC (20)	
Aroclor-1260	A	133620.7	15.17126			CCC (20)	
Aroclor-1260 (1)	A	87573.17	18.80653			CCC (20)	
Aroclor-1260 (2)	A	128084.7	15.94167			CCC (20)	
Aroclor-1260 (3)	A	185204.1	12.94166			CCC (20)	
Aroclor-1260 [2C]	A	119591.4	10.53053			CCC (20)	
Aroclor-1260 (1) [2C]	A	99875.23	18.03101			CCC (20)	
Aroclor-1260 (2) [2C]	A	74238.67	10.10529			CCC (20)	
Aroclor-1260 (3) [2C]	A	184660.3	6.678562			CCC (20)	
Tetrachloro-m-xylene	A	1.643851E+07	3.065627			CCC (20)	
Tetrachloro-m-xylene [2C]	A	1.581645E+07	4.248184			CCC (20)	
Decachlorobiphenyl	A	2.011441E+07	8.599868			CCC (20)	
Decachlorobiphenyl [2C]	A	1.698636E+07	4.185682			CCC (20)	

* Values outside of QC limits



AROCLOL INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	05.57	05.52	05.62	22333
		2	05.76	05.71	05.81	16190
		3	05.87	05.82	05.92	54877
		4				
		5				
Aroclor 1254	1.000	1	09.81	09.76	09.86	79272
		2	10.96	10.91	11.01	113970
		3	11.88	11.83	11.93	102901
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	06.69	06.64	06.74	20331
		2	06.99	06.94	07.04	14381
		3	07.12	07.07	07.17	49562
		4				
		5				
Aroclor 1254	1.000	1	11.12	11.07	11.17	56910
		2	12.38	12.33	12.43	82518
		3	13.41	13.36	13.46	98263
		4				
		5				



AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	05.87	05.82	05.92	44520
		2	07.54	07.49	07.59	61489
		3	07.73	07.68	07.78	26878
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	07.12	07.07	07.17	40202
		2	08.85	08.80	08.90	37371
		3	09.11	09.06	09.16	25578
		4				
		5				



AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	07.03	06.98	07.08	34821
		2	07.54	07.49	07.59	99545
		3	08.82	08.77	08.87	39790
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	07.94	07.89	07.99	46428
		2	08.85	08.80	08.90	60645
		3	09.11	09.06	09.16	39960
		4				
		5				



AROCOR INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC4

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1248	1.000	1	07.54	07.49	07.59	70180
		2	07.73	07.68	07.78	27996
		3	08.82	08.77	08.87	60793
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC4

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1248	1.000	1	08.85	08.80	08.90	37030
		2	09.11	09.06	09.16	24076
		3	11.22	11.17	11.27	57496
		4				
		5				



Breakdown Report

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Lab Sample ID: S8A0204-PEM1 Analyzed: 01/02/2018

Column Number: 1

Analyte	% Breakdown
Endrin	0.86
4,4'-DDT	1.50

Column Number: 2

Analyte	% Breakdown
Endrin	0.00
4,4'-DDT	0.75



Breakdown Report

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Lab Sample ID: S8A1102-PEM1 Analyzed: 01/11/2018

Column Number: 1

Analyte	% Breakdown
Endrin	7.01
4,4'-DDT	0.83

Column Number: 2

Analyte	% Breakdown
Endrin	8.62
4,4'-DDT	0.19



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22014.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV1	Injection Time: 08:49

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.0200	0.0222	2.048648E+07	2.27027E+07		10.8	20
alpha-BHC [2C]	A	0.0200	0.0216	1.945474E+07	2.0973E+07		7.8	20
gamma-BHC [Lindane]	A	0.0200	0.0222	1.959887E+07	2.17094E+07		10.8	20
gamma-BHC [Lindane] [2C]	A	0.0200	0.0215	1.836137E+07	1.97652E+07		7.6	20
Heptachlor	A	0.0200	0.0210	1.746432E+07	1.83636E+07		5.1	20
Heptachlor [2C]	A	0.0200	0.0202	1.70736E+07	1.72529E+07		1.1	20
Endosulfan I	A	0.0200	0.0219	1.636926E+07	1.79381E+07		9.6	20
Endosulfan I [2C]	A	0.0200	0.0210	1.436277E+07	1.50627E+07		4.9	20
Dieldrin	A	0.0400	0.0437	1.618866E+07	1.7669E+07		9.1	20
Dieldrin [2C]	A	0.0400	0.0417	1.512223E+07	1.57533E+07		4.2	20
Endrin	A	0.0400	0.0368	1.318629E+07	1.2144E+07		-7.9	20
Endrin [2C]	A	0.0400	0.0360	1.139911E+07	1.024845E+07		-10.1	20
4,4'-DDD	A	0.0400	0.0425	1.159694E+07	1.23253E+07		6.3	20
4,4'-DDD [2C]	A	0.0400	0.0413	1.083265E+07	1.11887E+07		3.3	20
4,4'-DDT	A	0.0400	0.0440	1.240812E+07	1.36444E+07		10.0	20
4,4'-DDT [2C]	A	0.0400	0.0423	1.14756E+07	1.21454E+07		5.8	20
Methoxychlor	A	0.200	0.196	6128879	5998370		-2.1	20
Methoxychlor [2C]	A	0.200	0.195	6256004	6086970		-2.7	20
Tetrachloro-m-xylene	A	0.0200	0.0218	1.643851E+07	1.79176E+07		9.0	20
Tetrachloro-m-xylene [2C]	A	0.0200	0.0213	1.581645E+07	1.68532E+07		6.6	20
Decachlorobiphenyl	A	0.0400	0.0441	2.011441E+07	2.215875E+07		10.2	20
Decachlorobiphenyl [2C]	A	0.0400	0.0445	1.698636E+07	1.89066E+07		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22015.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV2	Injection Time: 09:18

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
beta-BHC	A	0.0200	0.0210	1.160427E+07	1.21749E+07		4.9	20
beta-BHC [2C]	A	0.0200	0.0210	1.045475E+07	1.09715E+07		4.9	20
delta-BHC	A	0.0200	0.0208	1.900772E+07	1.97289E+07		3.8	20
delta-BHC [2C]	A	0.0200	0.0207	1.736267E+07	1.79786E+07		3.5	20
Aldrin	A	0.0200	0.0209	1.993123E+07	2.08483E+07		4.6	20
Aldrin [2C]	A	0.0200	0.0203	1.80445E+07	1.83104E+07		1.5	20
Heptachlor Epoxide	A	0.0200	0.0208	1.831025E+07	1.90821E+07		4.2	20
Heptachlor Epoxide [2C]	A	0.0200	0.0202	1.674963E+07	1.69461E+07		1.2	20
4,4'-DDE	A	0.0400	0.0414	1.814472E+07	1.87909E+07		3.6	20
4,4'-DDE [2C]	A	0.0400	0.0405	1.641585E+07	1.6604E+07		1.1	20
Endosulfan II	A	0.0400	0.0408	1.587879E+07	1.621615E+07		2.1	20
Endosulfan II [2C]	A	0.0400	0.0407	1.393249E+07	1.416905E+07		1.7	20
Endosulfan sulfate	A	0.0400	0.0407	1.389449E+07	1.413445E+07		1.7	20
Endosulfan sulfate [2C]	A	0.0400	0.0409	1.211098E+07	1.237945E+07		2.2	20
Endrin ketone	A	0.0400	0.0460	1.442375E+07	1.658435E+07		15.0	20
Endrin ketone [2C]	A	0.0400	0.0468	1.315895E+07	1.53981E+07		17.0	20
Endrin aldehyde	A	0.0400	0.0396	1.294709E+07	1.282385E+07		-1.0	20
Endrin aldehyde [2C]	A	0.0400	0.0408	1.122271E+07	1.14583E+07		2.1	20
alpha-Chlordane	A	0.0200	0.0209	1.956135E+07	2.04547E+07		4.6	20
alpha-Chlordane [2C]	A	0.0200	0.0201	1.7061E+07	1.7179E+07		0.7	20
gamma-Chlordane	A	0.0200	0.0206	1.978379E+07	2.03972E+07		3.1	20
gamma-Chlordane [2C]	A	0.0200	0.0202	1.730246E+07	1.74826E+07		1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22016.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV3	Injection Time: 09:47

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	2.50	2.58	269800.1	278307.2		3.2	20
Toxaphene (1)	A	2.50	2.58	226278	233880		3.4	20
Toxaphene (2)	A	2.50	2.58	372223	384790.4		3.4	20
Toxaphene (3)	A	2.50	2.64	257974.5	272260		5.5	20
Toxaphene (4)	A	2.50	2.50	222724.8	222298.4		-0.2	20
Toxaphene [2C]	A	2.50	2.72	391590.1	425487.2		8.7	20
Toxaphene (1) [2C]	A	2.50	2.67	232875.6	248711.2		6.8	20
Toxaphene (2) [2C]	A	2.50	2.70	682611.7	736495.2		7.9	20
Toxaphene (3) [2C]	A	2.50	2.72	293177.1	318644.8		8.7	20
Toxaphene (4) [2C]	A	2.50	2.78	357695.8	398097.6		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22017.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV4	Injection Time: 10:15

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	1.00	0.978	80122.75	77873.67		-2.8	20
Aroclor-1016 (1)	A	1.00	0.982	46417.8	45570		-1.8	20
Aroclor-1016 (2)	A	1.00	0.960	135022.3	129577		-4.0	20
Aroclor-1016 (3)	A	1.00	0.992	58928.13	58474		-0.8	20
Aroclor-1016 [2C]	A	1.00	0.988	81098.81	79564.33		-1.9	20
Aroclor-1016 (1) [2C]	A	1.00	0.989	61687.87	60996		-1.1	20
Aroclor-1016 (2) [2C]	A	1.00	0.964	127127.9	122588		-3.6	20
Aroclor-1016 (3) [2C]	A	1.00	1.01	54480.57	55109		1.2	20
Aroclor-1260	A	1.00	0.986	133620.7	131850.3		-1.3	20
Aroclor-1260 (1)	A	1.00	0.978	87573.17	85614		-2.2	20
Aroclor-1260 (2)	A	1.00	0.991	128084.7	126960		-0.9	20
Aroclor-1260 (3)	A	1.00	0.988	185204.1	182977		-1.2	20
Aroclor-1260 [2C]	A	1.00	0.981	119591.4	117517		-1.7	20
Aroclor-1260 (1) [2C]	A	1.00	0.957	99875.23	95550		-4.3	20
Aroclor-1260 (2) [2C]	A	1.00	0.997	74238.67	73985		-0.3	20
Aroclor-1260 (3) [2C]	A	1.00	0.991	184660.3	183016		-0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits


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CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV1(1) Date Analyzed: 01/11/2018 0849

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	05.92	05.87	05.97	20486480	22702700	10.8
gamma-BHC [Lindane]	06.53	06.48	06.58	19598870	21709400	10.8
Heptachlor	07.87	07.82	07.92	17464320	18363600	5.1
Endosulfan I	09.97	09.92	10.02	16369260	17938100	9.6
Dieldrin	10.45	10.40	10.50	16188660	17669000	9.1
Endrin	10.87	10.82	10.92	13186290	12144000	-7.9
4,4'-DDD	11.11	11.06	11.16	11596940	12325300	6.3
4,4'-DDT	11.80	11.75	11.85	12408120	13644400	10.0
Methoxychlor	12.81	12.76	12.86	6128879	5998370	-2.1
Tetrachloro-m-xylene	05.18	05.13	05.23	16438510	17917600	9.0
Decachlorobiphenyl	17.70	17.65	17.75	20114410	22158750	10.2

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV1(2) Date Analyzed: 01/11/2018 0849

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	07.42	07.37	07.47	19454740	20973000	7.8
gamma-BHC [Lindane]	08.17	08.12	08.22	18361370	19765200	7.6
Heptachlor	09.08	09.03	09.13	17073600	17252900	1.1
Endosulfan I	11.56	11.51	11.61	14362770	15062700	4.9
Dieldrin	12.06	12.01	12.11	15122230	15753300	4.2
Endrin	12.63	12.58	12.68	11399110	10248450	-10.1
4,4'-DDD	12.78	12.73	12.83	10832650	11188700	3.3
4,4'-DDT	13.40	13.35	13.45	11475600	12145400	5.8
Methoxychlor	15.06	15.01	15.11	6256004	6086970	-2.7
Tetrachloro-m-xylene	06.08	06.03	06.13	15816450	16853200	6.6
Decachlorobiphenyl	21.07	21.02	21.12	16986360	18906600	11.3


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CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV2(1) Date Analyzed: 01/11/2018 0918

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	06.40	06.35	06.45	11604270	12174900	4.9
delta-BHC	06.96	06.91	07.01	19007720	19728900	3.8
Aldrin	08.54	08.49	08.59	19931230	20848300	4.6
Heptachlor Epoxide	09.28	09.23	09.33	18310250	19082100	4.2
4,4'-DDE	10.34	10.29	10.39	18144720	18790900	3.6
Endosulfan II	11.03	10.98	11.08	15878790	16216150	2.1
Endosulfan sulfate	11.80	11.75	11.85	13894490	14134450	1.7
Endrin ketone	12.69	12.64	12.74	14423750	16584350	15.0
Endrin aldehyde	11.37	11.32	11.42	12947090	12823850	-1.0
alpha-Chlordane	10.00	09.95	10.05	19561350	20454700	4.6
gamma-Chlordane	09.72	09.67	09.77	19783790	20397200	3.1

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV2(2) Date Analyzed: 01/11/2018 0918

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	08.33	08.28	08.38	10454750	10971500	4.9
delta-BHC	08.93	08.88	08.98	17362670	17978600	3.5
Aldrin	09.72	09.67	09.77	18044500	18310400	1.5
Heptachlor Epoxide	10.82	10.77	10.87	16749630	16946100	1.2
4,4'-DDE	11.72	11.67	11.77	16415850	16604000	1.1
Endosulfan II	13.03	12.98	13.08	13932490	14169050	1.7
Endosulfan sulfate	14.38	14.33	14.43	12110980	12379450	2.2
Endrin ketone	15.92	15.87	15.97	13158950	15398100	17.0
Endrin aldehyde	13.73	13.68	13.78	11222710	11458300	2.1
alpha-Chlordane	11.44	11.39	11.49	17061000	17179000	0.7
gamma-Chlordane	11.17	11.12	11.22	17302460	17482600	1.0



CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV3(1) Date Analyzed: 01/11/2018 0947

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	12.62	12.57	12.67	269800	278307	3.2
Toxaphene (1)	10.37	10.32	10.42	226278	233880	3.4
Toxaphene (2)	10.84	10.79	10.89	372223	384790	3.4
Toxaphene (3)	12.25	12.20	12.30	257975	272260	5.5
Toxaphene (4)	12.62	12.57	12.67	222725	222298	-0.2

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV3(2) Date Analyzed: 01/11/2018 0947

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	15.03	14.98	15.08	391590	425487	8.7
Toxaphene (1)	12.02	11.97	12.07	232876	248711	6.8
Toxaphene (2)	13.19	13.14	13.24	682612	736495	7.9
Toxaphene (3)	13.73	13.68	13.78	293177	318645	8.7
Toxaphene (4)	15.03	14.98	15.08	357696	398098	11.3


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CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV4(1) Date Analyzed: 01/11/2018 1015

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aroclor-1016	07.74	07.69	07.79	80123	77874	-2.8
Aroclor-1016 (1)	07.04	06.99	07.09	46418	45570	-1.8
Aroclor-1016 (2)	07.55	07.50	07.60	135022	129577	-4.0
Aroclor-1016 (3)	07.74	07.69	07.79	58928	58474	-0.8
Aroclor-1260	13.12	13.07	13.17	133621	131850	-1.3
Aroclor-1260 (1)	10.95	10.90	11.00	87573	85614	-2.2
Aroclor-1260 (2)	11.89	11.84	11.94	128085	126960	-0.9
Aroclor-1260 (3)	13.12	13.07	13.17	185204	182977	-1.2

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV4(2) Date Analyzed: 01/11/2018 1015

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aroclor-1016	09.12	09.07	09.17	81099	79564	-1.9
Aroclor-1016 (1)	07.95	07.90	08.00	61688	60996	-1.1
Aroclor-1016 (2)	08.86	08.81	08.91	127128	122588	-3.6
Aroclor-1016 (3)	09.12	09.07	09.17	54481	55109	1.2
Aroclor-1260	14.93	14.88	14.98	119591	117517	-1.7
Aroclor-1260 (1)	12.70	12.65	12.75	99875	95550	-4.3
Aroclor-1260 (2)	14.30	14.25	14.35	74239	73985	-0.3
Aroclor-1260 (3)	14.93	14.88	14.98	184660	183016	-0.9



SEMIVOLATILES



SEMIVOLATILES SAMPLE DATA



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3550B GCMS	File ID:	B6286.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 15:24
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	35.3	88.3	U
100-52-7	Benzaldehyde	ND	35.3	88.3	U
108-95-2	Phenol	ND	35.3	88.3	U
111-44-4	bis(2-chloroethyl)ether	ND	35.3	88.3	U
95-57-8	2-Chlorophenol	ND	35.3	88.3	U
95-48-7	2-Methylphenol	ND	35.3	88.3	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	35.3	88.3	U
98-86-2	Acetophenone	ND	35.3	88.3	U
106-44-5	3 & 4-Methylphenol	ND	35.3	88.3	U
621-64-7	N-Nitroso-di-n-propylamine	ND	35.3	88.3	U
67-72-1	Hexachloroethane	ND	35.3	88.3	U
98-95-3	Nitrobenzene	ND	35.3	88.3	U
78-59-1	Isophorone	ND	35.3	88.3	U
88-75-5	2-Nitrophenol	ND	35.3	88.3	U
105-67-9	2,4-Dimethylphenol	ND	35.3	88.3	U
111-91-1	bis(2-chloroethoxy)methane	ND	35.3	88.3	U
120-83-2	2,4-Dichlorophenol	ND	35.3	88.3	U
91-20-3	Naphthalene	ND	35.3	88.3	U
106-47-8	4-Chloroaniline	ND	35.3	88.3	U
87-68-3	Hexachlorobutadiene	ND	35.3	88.3	U
105-60-2	Caprolactam	ND	35.3	88.3	U
59-50-7	4-Chloro-3-methylphenol	ND	35.3	88.3	U
91-57-6	2-Methylnaphthylene	ND	35.3	88.3	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	35.3	88.3	U



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3550B GCMS	File ID:	B6286.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 15:24
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	35.3	88.3	U
88-06-2	2,4,6-Trichlorophenol	ND	35.3	88.3	U
95-95-4	2,4,5-Trichlorophenol	ND	35.3	88.3	U
91-58-7	2-Chloronaphthalene	ND	35.3	88.3	U
92-52-4	1,1-Biphenyl	ND	35.3	88.3	U
88-74-4	2-Nitroaniline	ND	35.3	88.3	U
131-11-3	Dimethylphthalate	ND	35.3	88.3	U
208-96-8	Acenaphthylene	ND	35.3	88.3	U
99-09-2	3-Nitroaniline	ND	35.3	88.3	U
83-32-9	Acenaphthene	ND	35.3	88.3	U
51-28-5	2,4-Dinitrophenol	ND	35.3	177	U
100-02-7	4-Nitrophenol	ND	35.3	88.3	U
132-64-9	Dibenzofuran	ND	35.3	88.3	U
606-20-2	2,6-Dinitrotoluene	ND	35.3	88.3	U
121-14-2	2,4-Dinitrotoluene	ND	35.3	88.3	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	35.3	88.3	U
84-66-2	Diethyl phthalate	ND	35.3	88.3	U
7005-72-3	4-Chlorophenyl-phenylether	ND	35.3	88.3	U
86-73-7	Fluorene	ND	35.3	88.3	U
100-01-6	4-Nitroaniline	ND	35.3	88.3	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	35.3	88.3	U
86-74-8	Carbazole	ND	35.3	88.3	U
86-30-6	N-Nitrosodiphenylamine	ND	35.3	88.3	U
122-66-7	1,2-Diphenylhydrazine	ND	35.3	88.3	U



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3550B GCMS	File ID:	B6286.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 15:24
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-33-3	Azobenzene	ND	35.3	88.3	U
101-55-3	4-Bromophenyl-phenylether	ND	35.3	88.3	U
1912-24-9	Atrazine	ND	35.3	88.3	U
118-74-1	Hexachlorobenzene	ND	35.3	88.3	U
87-86-5	Pentachlorophenol	ND	35.3	88.3	U
85-01-8	Phenanthrene	ND	35.3	88.3	U
120-12-7	Anthracene	ND	35.3	88.3	U
84-74-2	Di-n-butyl phthalate	ND	35.3	88.3	U
206-44-0	Fluoranthene	ND	35.3	88.3	U
92-87-5	Benzidine	ND	88.0	88.3	U
129-00-0	Pyrene	ND	35.3	88.3	U
85-68-7	Butylbenzylphthalate	ND	35.3	88.3	U
91-94-1	3,3'-Dichlorobenzidine	ND	88.0	88.3	U
56-55-3	Benzo[a]anthracene	ND	35.3	88.3	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	35.3	88.3	U
218-01-9	Chrysene	ND	35.3	88.3	U
117-84-0	Di-n-octyl phthalate	ND	35.3	88.3	U
205-99-2	Benzo[b]fluoranthene	ND	35.3	88.3	U
207-08-9	Benzo[k]fluoranthene	ND	35.3	88.3	U
50-32-8	Benzo[a]pyrene	ND	35.3	88.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35.3	88.3	U
53-70-3	Dibenzo(a,h)anthracene	ND	35.3	88.3	U
191-24-2	Benzo[ghi]perylene	ND	35.3	88.3	U

Surrogate
% Recovery
Recovery Limits



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 3550B GCMS	File ID:	B6286.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 15:24
Dilution:	1			Analyst:	DSM

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	74%	41-102
Phenol-d5	81%	47-113
Nitrobenzene-d5	70%	38-100
2-Fluorobiphenyl	64%	38-88
2,4,6-Tribromophenol	94%	40-129
Terphenyl-d14	81%	31-145

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\B\DATA18\JAN18\B0112\B6286.D

Vial: 3

Acq On : 12 Jan 2018 15:24

Operator: DSM

Sample : 1800020-01

Inst : GC/MS B

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 15 9:10 2018

Quant Results File: SVB81221.RES

Quant Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Wed Jan 03 09:59:51 2018

Response via : Initial Calibration

DataAcq Meth : SVB81221

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.30	152	320533	40.000	ul/l	-0.05
21) Naphthalene-d8	13.24	136	1207173	40.000	ul/l	-0.06
38) Acenaphthene-d10	17.41	164	643339	40.000	ul/l	-0.06
62) Phenanthrene-d10	20.94	188	1282641	40.000	ul/l	-0.05
76) Chrysene-d12	27.26	240	1448146	40.000	ul/l	-0.07
85) Perylene-d12	30.40	264	1338216	40.000	ul/l	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	7.44	112	984843	89.024	ul/l	0.00
Spiked Amount 120.000	Range	41 - 102	Recovery	=	74.18%	
7) Phenol-d5	9.64	99	1358533	97.166	ul/l	-0.03
Spiked Amount 120.000	Range	47 - 113	Recovery	=	80.97%	
22) Nitrobenzene-d5	11.60	82	999382	70.207	ul/l	-0.05
Spiked Amount 100.000	Range	38 - 100	Recovery	=	70.21%	
43) 2-Fluorobiphenyl	15.88	172	1651552	64.016	ul/l	-0.05
Spiked Amount 100.000	Range	38 - 88	Recovery	=	64.02%	
61) 2,4,6-Tribromophenol	19.31	330	1018028	112.450	ul/l	-0.06
Spiked Amount 120.000	Range	40 - 129	Recovery	=	93.71%	
79) Terphenyl-d14	24.87	244	2639336	80.552	ul/l	-0.02
Spiked Amount 100.000	Range	31 - 145	Recovery	=	80.55%	

Target Compounds

Qvalue

Data File : D:\B\DATA18\JAN18\B0112\B6286.D

Acq On : 12 Jan 2018 15:24

Sample : 1800020-01

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 15 9:10 2018

Vial: 3

Operator: DSM

Inst : GC/MS B

Multiplr: 1.00

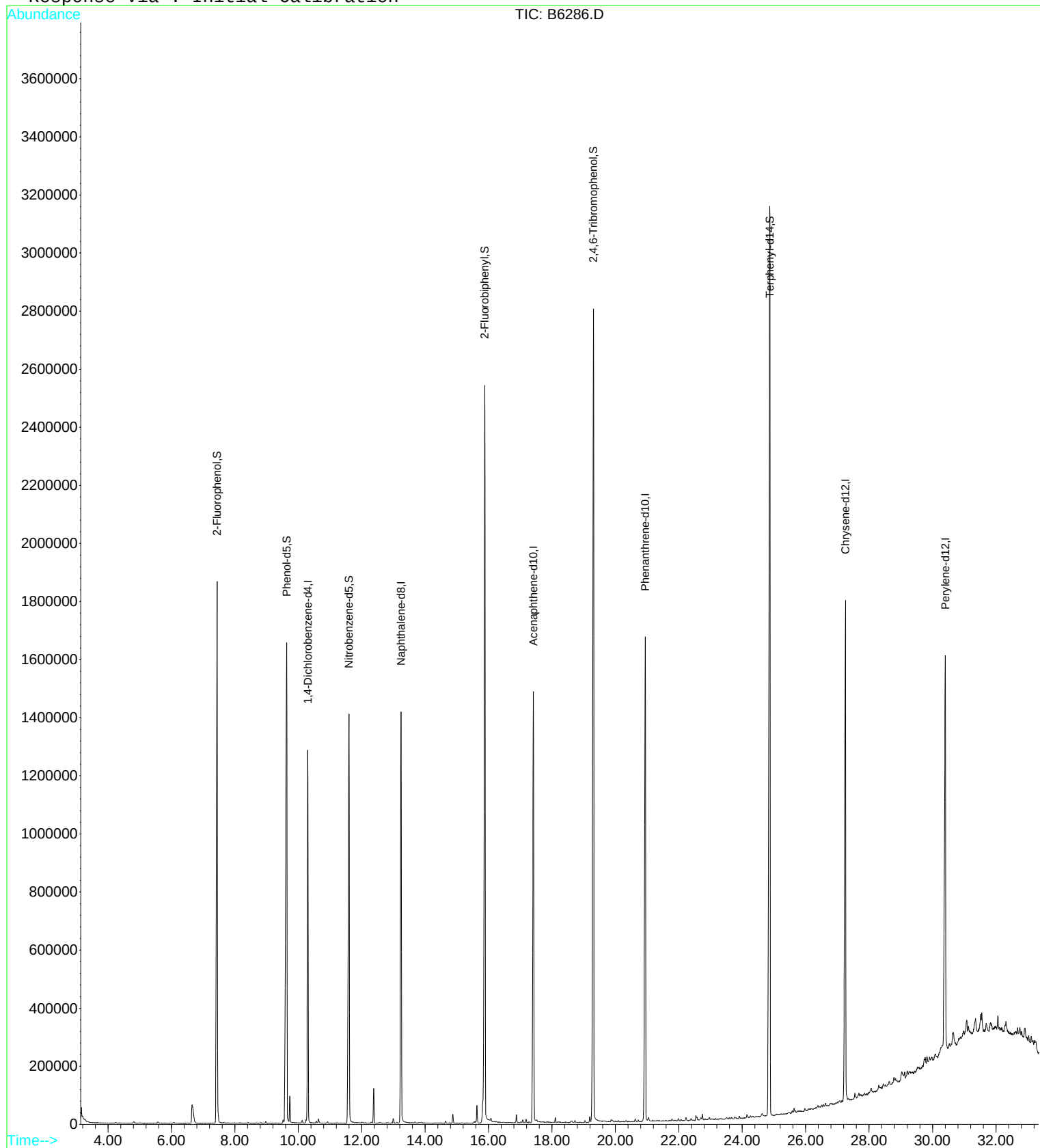
Quant Results File: SVB81221.RES

Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Fri Jan 12 13:06:23 2018

Response via : Initial Calibration





SEMIVOLATILES QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	33.3	83.3	U
100-52-7	Benzaldehyde	ND	33.3	83.3	U
108-95-2	Phenol	ND	33.3	83.3	U
111-44-4	bis(2-chloroethyl)ether	ND	33.3	83.3	U
95-57-8	2-Chlorophenol	ND	33.3	83.3	U
95-48-7	2-Methylphenol	ND	33.3	83.3	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	33.3	83.3	U
98-86-2	Acetophenone	ND	33.3	83.3	U
106-44-5	3 & 4-Methylphenol	ND	33.3	83.3	U
621-64-7	N-Nitroso-di-n-propylamine	ND	33.3	83.3	U
67-72-1	Hexachloroethane	ND	33.3	83.3	U
98-95-3	Nitrobenzene	ND	33.3	83.3	U
78-59-1	Isophorone	ND	33.3	83.3	U
88-75-5	2-Nitrophenol	ND	33.3	83.3	U
105-67-9	2,4-Dimethylphenol	ND	33.3	83.3	U
111-91-1	bis(2-chloroethoxy)methane	ND	33.3	83.3	U
120-83-2	2,4-Dichlorophenol	ND	33.3	83.3	U
91-20-3	Naphthalene	ND	33.3	83.3	U
106-47-8	4-Chloroaniline	ND	33.3	83.3	U
87-68-3	Hexachlorobutadiene	ND	33.3	83.3	U
105-60-2	Caprolactam	ND	33.3	83.3	U
59-50-7	4-Chloro-3-methylphenol	ND	33.3	83.3	U
91-57-6	2-Methylnaphthylene	ND	33.3	83.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	33.3	83.3	U
77-47-4	Hexachlorocyclopentadiene	ND	33.3	83.3	U
88-06-2	2,4,6-Trichlorophenol	ND	33.3	83.3	U
95-95-4	2,4,5-Trichlorophenol	ND	33.3	83.3	U
91-58-7	2-Chloronaphthalene	ND	33.3	83.3	U
92-52-4	1,1-Biphenyl	ND	33.3	83.3	U
88-74-4	2-Nitroaniline	ND	33.3	83.3	U
131-11-3	Dimethylphthalate	ND	33.3	83.3	U
208-96-8	Acenaphthylene	ND	33.3	83.3	U
99-09-2	3-Nitroaniline	ND	33.3	83.3	U
83-32-9	Acenaphthene	ND	33.3	83.3	U
51-28-5	2,4-Dinitrophenol	ND	33.3	167	U
100-02-7	4-Nitrophenol	ND	33.3	83.3	U
132-64-9	Dibenzofuran	ND	33.3	83.3	U
606-20-2	2,6-Dinitrotoluene	ND	33.3	83.3	U
121-14-2	2,4-Dinitrotoluene	ND	33.3	83.3	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	33.3	83.3	U
84-66-2	Diethyl phthalate	ND	33.3	83.3	U
7005-72-3	4-Chlorophenyl-phenylether	ND	33.3	83.3	U
86-73-7	Fluorene	ND	33.3	83.3	U
100-01-6	4-Nitroaniline	ND	33.3	83.3	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	33.3	83.3	U
86-74-8	Carbazole	ND	33.3	83.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
 Work Order: 1800020
 Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine	ND	33.3	83.3	U
122-66-7	1,2-Diphenylhydrazine	ND	33.3	83.3	U
103-33-3	Azobenzene	ND	33.3	83.3	U
101-55-3	4-Bromophenyl-phenylether	ND	33.3	83.3	U
1912-24-9	Atrazine	ND	33.3	83.3	U
118-74-1	Hexachlorobenzene	ND	33.3	83.3	U
87-86-5	Pentachlorophenol	ND	33.3	83.3	U
85-01-8	Phenanthrene	ND	33.3	83.3	U
120-12-7	Anthracene	ND	33.3	83.3	U
84-74-2	Di-n-butyl phthalate	ND	33.3	83.3	U
206-44-0	Fluoranthene	ND	33.3	83.3	U
92-87-5	Benzidine	ND	83.0	83.3	U
129-00-0	Pyrene	ND	33.3	83.3	U
85-68-7	Butylbenzylphthalate	ND	33.3	83.3	U
91-94-1	3,3'-Dichlorobenzidine	ND	83.0	83.3	U
56-55-3	Benzo[a]anthracene	ND	33.3	83.3	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	33.3	83.3	U
218-01-9	Chrysene	ND	33.3	83.3	U
117-84-0	Di-n-octyl phthalate	ND	33.3	83.3	U
205-99-2	Benzo[b]fluoranthene	ND	33.3	83.3	U
207-08-9	Benzo[k]fluoranthene	ND	33.3	83.3	U
50-32-8	Benzo[a]pyrene	ND	33.3	83.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.3	83.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
53-70-3	Dibenzo(a,h)anthracene	ND	33.3	83.3	U
191-24-2	Benzo[ghi]perylene	ND	33.3	83.3	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	72%	41-102
Phenol-d5	78%	47-113
Nitrobenzene-d5	68%	38-100
2-Fluorobiphenyl	62%	38-88
2,4,6-Tribromophenol	94%	40-129
Terphenyl-d14	77%	31-145

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\B\DATA18\JAN18\B0111\B6269.D

Acq On : 11 Jan 2018 16:59

Sample : B8A1102-BLK1

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 12 8:49 2018

Vial: 5

Operator: DSM

Inst : GC/MS B

Multiplr: 1.00

Quant Results File: SVB81221.RES

Quant Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Wed Jan 03 09:59:51 2018

Response via : Initial Calibration

DataAcq Meth : SVB81221

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.28	152	265184	40.000	ul/l	-0.07
21) Naphthalene-d8	13.22	136	1000044	40.000	ul/l	-0.08
38) Acenaphthene-d10	17.40	164	567180	40.000	ul/l	-0.08
62) Phenanthrene-d10	20.92	188	1160576	40.000	ul/l	-0.07
76) Chrysene-d12	27.24	240	1425979	40.000	ul/l	-0.09
85) Perylene-d12	30.39	264	1666830	40.000	ul/l	-0.06

System Monitoring Compounds

4) 2-Fluorophenol	7.41	112	794024	86.756	ul/l	-0.03
Spiked Amount 120.000	Range 41 - 102		Recovery =	72.30%		
7) Phenol-d5	9.61	99	1083401	93.661	ul/l	-0.06
Spiked Amount 120.000	Range 47 - 113		Recovery =	78.05%		
22) Nitrobenzene-d5	11.58	82	802534	68.056	ul/l	-0.07
Spiked Amount 100.000	Range 38 - 100		Recovery =	68.06%		
43) 2-Fluorobiphenyl	15.87	172	1400708	61.584	ul/l	-0.07
Spiked Amount 100.000	Range 38 - 88		Recovery =	61.58%		
61) 2,4,6-Tribromophenol	19.30	330	899284	112.671	ul/l	-0.07
Spiked Amount 120.000	Range 40 - 129		Recovery =	93.89%		
79) Terphenyl-d14	24.86	244	2482777	76.952	ul/l	-0.04
Spiked Amount 100.000	Range 31 - 145		Recovery =	76.95%		

Target Compounds

Qvalue

Data File : D:\B\DATA18\JAN18\B0111\B6269.D

Acq On : 11 Jan 2018 16:59

Sample : B8A1102-BLK1

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 12 8:49 2018

Vial: 5

Operator: DSM

Inst : GC/MS B

Multiplr: 1.00

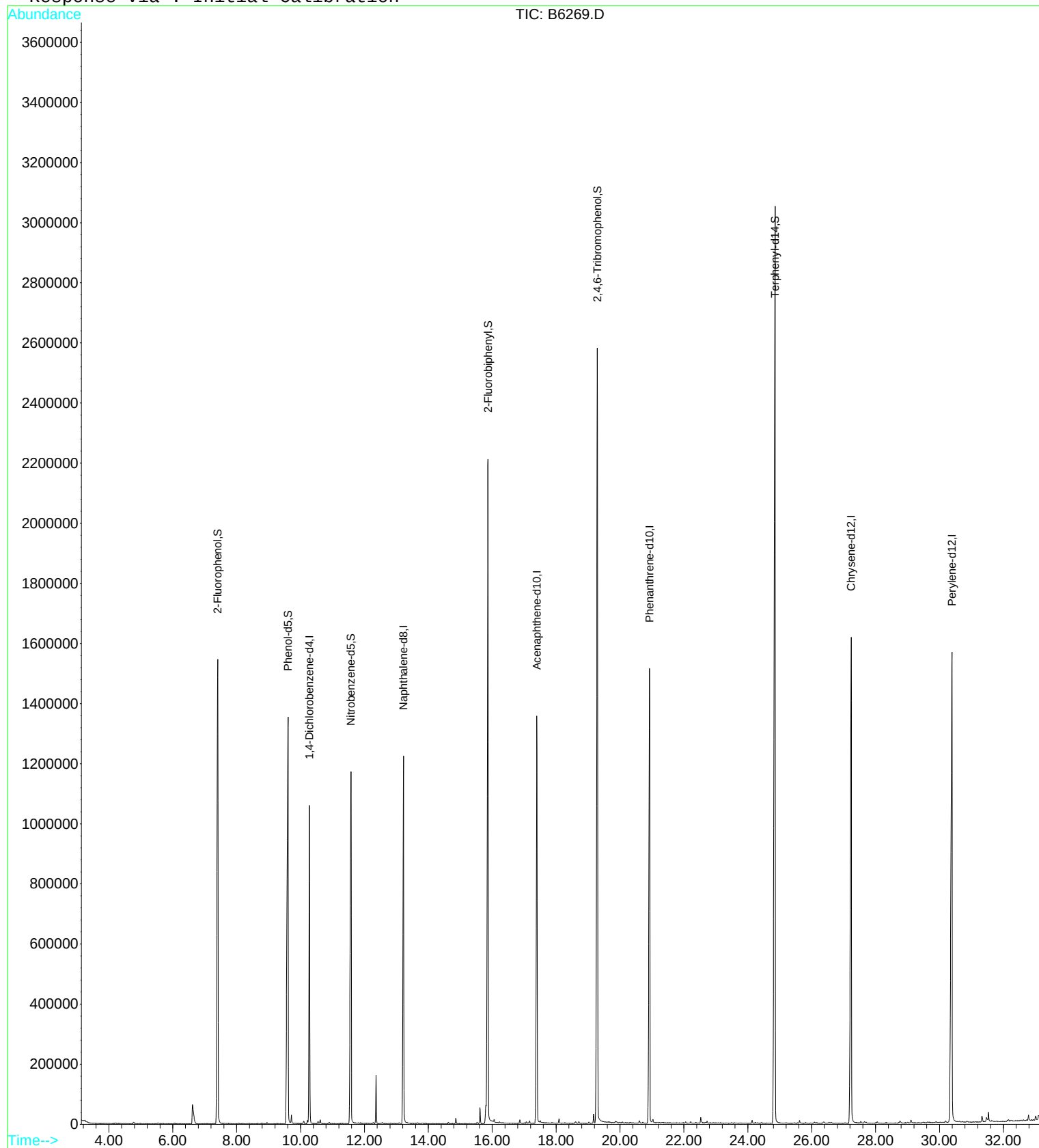
Quant Results File: SVB81221.RES

Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Thu Jan 11 16:41:08 2018

Response via : Initial Calibration





SEMIVOLATILES QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**EPA 8270****Client: MADDOX MATERIALS**
Project: Trap Rock Industries Kingston
Work Order: 1800020**Matrix: Solid**
Instrument: GC/MS B

Lab Sample ID:	2FP (41% - 102%)	FBP (38% - 88%)	NBZ (38% - 100%)	PHL (47% - 113%)	TBP (40% - 129%)	TPH (31% - 145%)
1800020-01	74	64	70	81	94	81
B8A1102-BLK1	72	62	68	78	94	77
B8A1102-BS1	71	62	66	76	97	77
B8A1102-MS1	68	62	66	75	96	78
B8A1102-MSD1	73	63	70	79	96	77



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MS1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyridine	1770	ND	1080	61	28 - 95
N-Nitrosodimethylamine	1770	ND	1270	71	33 - 108
Aniline	1770	ND	1340	75	31 - 100
Phenol	1770	ND	1450	82	42 - 110
bis(2-chloroethyl)ether	1770	ND	1370	77	42 - 105
2-Chlorophenol	1770	ND	1500	85	44 - 106
1,3-Dichlorobenzene	1770	ND	1410	80	42 - 100
1,4-Dichlorobenzene	1770	ND	1420	80	41 - 102
Benzyl alcohol	1770	ND	1530	87	44 - 110
1,2-Dichlorobenzene	1770	ND	1420	80	43 - 103
2-Methylphenol	1770	ND	1470	83	44 - 109
bis(2-chloroisopropyl)ether	1770	ND	1440	81	42 - 115
3 & 4-Methylphenol	1770	ND	1550	87	45 - 110
N-Nitroso-di-n-propylamine	1770	ND	1460	82	42 - 112
Hexachloroethane	1770	ND	1430	80	44 - 106
Nitrobenzene	1770	ND	1440	81	42 - 113
Isophorone	1770	ND	1490	84	43 - 109
2-Nitrophenol	1770	ND	1480	84	43 - 111
2,4-Dimethylphenol	1770	ND	1510	85	44 - 109
bis(2-chloroethoxy)methane	1770	ND	1410	79	43 - 109
2,4-Dichlorophenol	1770	ND	1580	89	43 - 110
Naphthalene	1770	ND	1480	83	45 - 107
4-Chloroaniline	1770	ND	805	45	10 - 102
Hexachlorobutadiene	1770	ND	1570	88	41 - 111
4-Chloro-3-methylphenol	1770	ND	1600	90	43 - 116
2-Methylnaphthylene	1770	ND	1480	84	44 - 109
Hexachlorocyclopentadiene	1770	ND	1580	89	30 - 123
2,4,6-Trichlorophenol	1770	ND	1680	95	42 - 122



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MS1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
2,4,5-Trichlorophenol	1770	ND	1660	94	43 - 123
2-Chloronaphthalene	1770	ND	1600	90	41 - 120
2-Nitroaniline	1770	ND	1580	89	46 - 130
Dimethylphthalate	1770	ND	1710	96	48 - 124
Acenaphthylene	1770	ND	1560	88	44 - 116
3-Nitroaniline	1770	ND	1290	73	28 - 114
Acenaphthene	1770	ND	1580	89	45 - 116
2,4-Dinitrophenol	1770	ND	1500	85	22 - 120
4-Nitrophenol	1770	ND	1840	104	41 - 140
Dibenzofuran	1770	ND	1580	89	46 - 116
2,6-Dinitrotoluene	1770	ND	1670	94	47 - 122
2,4-Dinitrotoluene	1770	ND	1770	100	46 - 129
2,3,4,6-Tetrachlorophenol	1770	ND	1820	103	43 - 124
Diethyl phthalate	1770	ND	1680	95	49 - 121
4-Chlorophenyl-phenylether	1770	ND	1670	94	46 - 118
Fluorene	1770	ND	1610	91	47 - 117
4-Nitroaniline	1770	ND	1680	95	43 - 123
4,6-Dinitro-2-methylphenol	1770	ND	1780	100	43 - 126
Carbazole	1770	ND	1660	94	47 - 121
N-Nitrosodiphenylamine	1770	ND	1610	91	47 - 122
Azobenzene	1770	ND	1470	83	42 - 134
4-Bromophenyl-phenylether	1770	ND	1750	99	47 - 123
Hexachlorobenzene	1770	ND	1770	100	46 - 125
Pentachlorophenol	1770	ND	1870	106	31 - 132
Phenanthrene	1770	ND	1670	94	48 - 120
Anthracene	1770	ND	1640	93	48 - 120
Di-n-butyl phthalate	1770	ND	1650	93	49 - 123
Fluoranthene	1770	ND	1730	98	46 - 124



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MS1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyrene	1770	ND	1770	100	44 - 125
Butylbenzylphthalate	1770	ND	1680	95	46 - 125
Benzo[a]anthracene	1770	ND	1750	99	49 - 119
bis(2-ethylhexyl)phthalate	1770	ND	1660	94	46 - 127
Chrysene	1770	ND	1780	101	49 - 122
Di-n-octyl phthalate	1770	ND	1630	92	47 - 127
Benzo[b]fluoranthene	1770	ND	1730	98	48 - 124
Benzo[k]fluoranthene	1770	ND	1710	97	48 - 127
Benzo[a]pyrene	1770	ND	1750	99	51 - 123
Indeno(1,2,3-cd)pyrene	1770	ND	1880	106	43 - 131
Dibenzo(a,h)anthracene	1770	ND	1790	101	43 - 131
Benzo[ghi]perylene	1770	ND	1740	98	39 - 130

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MSD1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Pyridine	1770	997	56	8	38	28 - 95
N-Nitrosodimethylamine	1770	1140	65	10	32	33 - 108
Aniline	1770	1160	65	15	36	31 - 100
Phenol	1770	1290	73	12	30	42 - 110
bis(2-chloroethyl)ether	1770	1230	70	10	32	42 - 105
2-Chlorophenol	1770	1350	76	10	31	44 - 106
1,3-Dichlorobenzene	1770	1290	73	9	31	42 - 100
1,4-Dichlorobenzene	1770	1290	73	9	33	41 - 102
Benzyl alcohol	1770	1340	76	13	30	44 - 110
1,2-Dichlorobenzene	1770	1290	73	10	32	43 - 103
2-Methylphenol	1770	1300	73	12	31	44 - 109
bis(2-chloroisopropyl)ether	1770	1290	73	11	32	42 - 115
3 & 4-Methylphenol	1770	1340	76	14	29	45 - 110
N-Nitroso-di-n-propylamine	1770	1300	73	12	28	42 - 112
Hexachloroethane	1770	1310	74	9	35	44 - 106
Nitrobenzene	1770	1290	73	11	28	42 - 113
Isophorone	1770	1270	72	16	29	43 - 109
2-Nitrophenol	1770	1340	76	10	32	43 - 111
2,4-Dimethylphenol	1770	1320	74	13	30	44 - 109
bis(2-chloroethoxy)methane	1770	1260	71	11	30	43 - 109
2,4-Dichlorophenol	1770	1400	79	12	29	43 - 110
Naphthalene	1770	1310	74	12	27	45 - 107
4-Chloroaniline	1770	619	35	26	51	10 - 102
Hexachlorobutadiene	1770	1400	79	11	31	41 - 111
4-Chloro-3-methylphenol	1770	1380	78	15	25	43 - 116
2-Methylnaphthylene	1770	1290	73	14	26	44 - 109
Hexachlorocyclopentadiene	1770	1380	78	14	43	30 - 123
2,4,6-Trichlorophenol	1770	1420	80	17	25	42 - 122



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MSD1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
2,4,5-Trichlorophenol	1770	1430	81	15	23	43 - 123
2-Chloronaphthalene	1770	1380	78	15	25	41 - 120
2-Nitroaniline	1770	1330	75	17	23	46 - 130
Dimethylphthalate	1770	1450	82	16	30	48 - 124
Acenaphthylene	1770	1320	75	17	26	44 - 116
3-Nitroaniline	1770	1040	59	21	26	28 - 114
Acenaphthene	1770	1340	75	17	27	45 - 116
2,4-Dinitrophenol	1770	1270	72	17	37	22 - 120
4-Nitrophenol	1770	1540	87	18	27	41 - 140
Dibenzofuran	1770	1330	75	17	23	46 - 116
2,6-Dinitrotoluene	1770	1400	79	18	21	47 - 122
2,4-Dinitrotoluene	1770	1450	82	20	22	46 - 129
2,3,4,6-Tetrachlorophenol	1770	1510	86	18	31	43 - 124
Diethyl phthalate	1770	1410	80	18	21	49 - 121
4-Chlorophenyl-phenylether	1770	1400	79	18	26	46 - 118
Fluorene	1770	1360	77	17	26	47 - 117
4-Nitroaniline	1770	1380	78	20	25	43 - 123
4,6-Dinitro-2-methylphenol	1770	1510	86	16	39	43 - 126
Carbazole	1770	1410	80	16	23	47 - 121
N-Nitrosodiphenylamine	1770	1360	77	17	23	47 - 122
Azobenzene	1770	1270	72	15	26	42 - 134
4-Bromophenyl-phenylether	1770	1450	82	19	25	47 - 123
Hexachlorobenzene	1770	1460	83	19	23	46 - 125
Pentachlorophenol	1770	1580	89	17	34	31 - 132
Phenanthrene	1770	1390	78	18	29	48 - 120
Anthracene	1770	1390	78	17	26	48 - 120
Di-n-butyl phthalate	1770	1390	78	17	20	49 - 123
Fluoranthene	1770	1450	82	18	36	46 - 124



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MSD1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Pyrene	1770	1450	82	20	32	44 - 125
Butylbenzylphthalate	1770	1400	79	18	21	46 - 125
Benzo[a]anthracene	1770	1450	82	19	29	49 - 119
bis(2-ethylhexyl)phthalate	1770	1410	79	17	28	46 - 127
Chrysene	1770	1460	83	20	29	49 - 122
Di-n-octyl phthalate	1770	1360	77	18	21	47 - 127
Benzo[b]fluoranthene	1770	1440	82	18	35	48 - 124
Benzo[k]fluoranthene	1770	1410	80	19	26	48 - 127
Benzo[a]pyrene	1770	1440	81	20	27	51 - 123
Indeno(1,2,3-cd)pyrene	1770	1560	88	18	27	43 - 131
Dibenzo(a,h)anthracene	1770	1470	83	20	24	43 - 131
Benzo[ghi]perylene	1770	1440	82	19	27	39 - 130

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B8A1102	Lab Sample ID:	B8A1102-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1070	64	28 - 95
N-Nitrosodimethylamine	1670	1210	73	33 - 108
Aniline	1670	1260	76	31 - 100
Phenol	1670	1380	83	42 - 110
bis(2-chloroethyl)ether	1670	1300	78	42 - 105
2-Chlorophenol	1670	1440	86	44 - 106
1,3-Dichlorobenzene	1670	1360	82	42 - 100
1,4-Dichlorobenzene	1670	1370	82	41 - 102
Benzyl alcohol	1670	1440	86	44 - 110
1,2-Dichlorobenzene	1670	1380	83	43 - 103
2-Methylphenol	1670	1400	84	44 - 109
bis(2-chloroisopropyl)ether	1670	1360	82	42 - 115
3 & 4-Methylphenol	1670	1470	88	45 - 110
N-Nitroso-di-n-propylamine	1670	1370	82	42 - 112
Hexachloroethane	1670	1390	83	44 - 106
Nitrobenzene	1670	1380	83	42 - 113
Isophorone	1670	1380	83	43 - 109
2-Nitrophenol	1670	1410	84	43 - 111
2,4-Dimethylphenol	1670	1460	87	44 - 109
bis(2-chloroethoxy)methane	1670	1330	80	43 - 109
2,4-Dichlorophenol	1670	1540	92	43 - 110
Naphthalene	1670	1430	86	45 - 107
4-Chloroaniline	1670	821	49	10 - 102
Hexachlorobutadiene	1670	1540	92	41 - 111
4-Chloro-3-methylphenol	1670	1510	91	43 - 116
2-Methylnaphthylene	1670	1420	85	44 - 109
Hexachlorocyclopentadiene	1670	1530	92	30 - 123
2,4,6-Trichlorophenol	1670	1580	95	42 - 122



LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B8A1102	Lab Sample ID:	B8A1102-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,5-Trichlorophenol	1670	1560	94	43 - 123
2-Chloronaphthalene	1670	1510	90	41 - 120
2-Nitroaniline	1670	1480	89	46 - 130
Dimethylphthalate	1670	1630	98	48 - 124
Acenaphthylene	1670	1470	88	44 - 116
3-Nitroaniline	1670	1230	74	28 - 114
Acenaphthene	1670	1500	90	45 - 116
2,4-Dinitrophenol	1670	1500	90	22 - 120
4-Nitrophenol	1670	1760	105	41 - 140
Dibenzofuran	1670	1510	90	46 - 116
2,6-Dinitrotoluene	1670	1580	95	47 - 122
2,4-Dinitrotoluene	1670	1670	100	46 - 129
2,3,4,6-Tetrachlorophenol	1670	1730	104	43 - 124
Diethyl phthalate	1670	1610	97	49 - 121
4-Chlorophenyl-phenylether	1670	1610	96	46 - 118
Fluorene	1670	1540	92	47 - 117
4-Nitroaniline	1670	1540	92	43 - 123
4,6-Dinitro-2-methylphenol	1670	1730	104	43 - 126
Carbazole	1670	1590	95	47 - 121
N-Nitrosodiphenylamine	1670	1540	92	47 - 122
Azobenzene	1670	1560	94	42 - 134
4-Bromophenyl-phenylether	1670	1650	99	47 - 123
Hexachlorobenzene	1670	1680	101	46 - 125
Pentachlorophenol	1670	1820	109	31 - 132
Phenanthrene	1670	1570	94	48 - 120
Anthracene	1670	1560	94	48 - 120
Di-n-butyl phthalate	1670	1580	95	49 - 123
Fluoranthene	1670	1660	99	46 - 124



LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 3550B GCMS
Prep Batch: B8A1102	Lab Sample ID: B8A1102-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyrene	1670	1620	97	44 - 125
Butylbenzylphthalate	1670	1570	94	46 - 125
Benzo[a]anthracene	1670	1630	98	49 - 119
bis(2-ethylhexyl)phthalate	1670	1580	95	46 - 127
Chrysene	1670	1660	100	49 - 122
Di-n-octyl phthalate	1670	1550	93	47 - 127
Benzo[b]fluoranthene	1670	1650	99	48 - 124
Benzo[k]fluoranthene	1670	1680	101	48 - 127
Benzo[a]pyrene	1670	1640	98	51 - 123
Indeno(1,2,3-cd)pyrene	1670	1900	114	43 - 131
Dibenzo(a,h)anthracene	1670	1730	104	43 - 131
Benzo[ghi]perylene	1670	1700	102	39 - 130

* Values outside of QC limits

**METHOD BLANK SUMMARY**

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Blank ID:	B8A1102-BLK1	Batch:	B8A1102
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A1102-BS1	B6270.D	01/11/2018 17:41
Matrix Spike	B8A1102-MS1	B6274.D	01/11/2018 20:26
Matrix Spike Dup	B8A1102-MSD1	B6275.D	01/11/2018 21:08
S-1	1800020-01	B6286.D	01/12/2018 15:24



INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Lab File ID:	B6228.D	Injection Date:	12/21/17
Instrument ID:	GC/MS B	Injection Time:	09:43
Sequence:	S7L2115	Lab Sample ID:	S7L2115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	10 - 80% of 198	72.2	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.976	PASS
127	10 - 80% of 198	58.8	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.3	PASS
275	10 - 60% of 198	21.4	PASS
365	1 - 100% of 198	2.24	PASS
441	0.01 - 24% of 442	16.2	PASS
442	50 - 100% of 198	80	PASS
443	15 - 24% of 442	19.9	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	S7L2115-CAL5	B6229.D	12/21/2017	9:59:00
Cal Standard	S7L2115-CAL1	B6230.D	12/21/2017	10:50:00
Cal Standard	S7L2115-CAL7	B6231.D	12/21/2017	12:07:00
Cal Standard	S7L2115-CAL2	B6232.D	12/21/2017	12:55:00
Cal Standard	S7L2115-CAL6	B6233.D	12/21/2017	14:16:00
Cal Standard	S7L2115-CAL3	B6234.D	12/21/2017	15:03:00
Cal Standard	S7L2115-CAL4	B6235.D	12/21/2017	15:50:00



INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Lab File ID:	B6262.D	Injection Date:	01/11/18
Instrument ID:	GC/MS B	Injection Time:	11:51
Sequence:	S8A1107	Lab Sample ID:	S8A1107-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	10 - 80% of 198	67.8	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	1.03	PASS
127	10 - 80% of 198	56.7	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.76	PASS
275	10 - 60% of 198	21.7	PASS
365	1 - 100% of 198	2.52	PASS
441	0.01 - 24% of 442	15.6	PASS
442	50 - 100% of 198	91.4	PASS
443	15 - 24% of 442	20.6	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S8A1107-CCV1	B6264.D	01/11/2018	12:48:00
Blank	B8A1102-BLK1	B6269.D	01/11/2018	16:59:00
LCS	B8A1102-BS1	B6270.D	01/11/2018	17:41:00
Matrix Spike	B8A1102-MS1	B6274.D	01/11/2018	20:26:00
Matrix Spike Dup	B8A1102-MSD1	B6275.D	01/11/2018	21:08:00



INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Lab File ID:	B6281.D	Injection Date:	01/12/18
Instrument ID:	GC/MS B	Injection Time:	12:21
Sequence:	S8A1210	Lab Sample ID:	S8A1210-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	10 - 80% of 198	66	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	1.56	PASS
127	10 - 80% of 198	55.7	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.1	PASS
275	10 - 60% of 198	23.1	PASS
365	1 - 100% of 198	2.77	PASS
441	0.01 - 24% of 442	15.7	PASS
442	50 - 100% of 198	96.7	PASS
443	15 - 24% of 442	21	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S8A1210-CCV1	B6283.D	01/12/2018	13:17:00
S-1	1800020-01	B6286.D	01/12/2018	15:24:00



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston
Sequence: S8A1107

Instrument: GC/MS B
Calibration: 18A1204

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S8A1107-CCV1)			<i>Lab File ID: B6264.D</i>			<i>Analyzed: 01/11/18 12:48</i>			
1,4-Dichlorobenzene-d4	256007	10.28	279687	10.28	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	950586	13.23	1066690	13.23	89	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	517747	17.41	576939	17.41	90	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1068125	20.93	1150324	20.93	93	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1327398	27.26	1364948	27.25	97	50 - 200	0.0100	+/-0.50	
Perylene-d12	1466587	30.41	1584956	30.39	93	50 - 200	0.0200	+/-0.50	
Blank (B8A1102-BLK1)			<i>Lab File ID: B6269.D</i>			<i>Analyzed: 01/11/18 16:59</i>			
1,4-Dichlorobenzene-d4	265184	10.28	256007	10.28	104	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1000044	13.22	950586	13.23	105	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	567180	17.4	517747	17.41	110	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1160576	20.92	1068125	20.93	109	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1425979	27.24	1327398	27.26	107	50 - 200	-0.0200	+/-0.50	
Perylene-d12	1666830	30.39	1466587	30.41	114	50 - 200	-0.0200	+/-0.50	
LCS (B8A1102-BS1)			<i>Lab File ID: B6270.D</i>			<i>Analyzed: 01/11/18 17:41</i>			
1,4-Dichlorobenzene-d4	261345	10.28	256007	10.28	102	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1004729	13.24	950586	13.23	106	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	554227	17.42	517747	17.41	107	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1135109	20.94	1068125	20.93	106	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1389416	27.27	1327398	27.26	105	50 - 200	0.0100	+/-0.50	
Perylene-d12	1618476	30.42	1466587	30.41	110	50 - 200	0.0100	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston
Sequence: S8A1107

Instrument: GC/MS B
Calibration: 18A1204

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B8A1102-MS1)			<i>Lab File ID: B6274.D</i>			<i>Analyzed: 01/11/18 20:26</i>			
1,4-Dichlorobenzene-d4	289326	10.29	256007	10.28	113	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1119623	13.24	950586	13.23	118	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	601707	17.42	517747	17.41	116	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1234676	20.94	1068125	20.93	116	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1461473	27.27	1327398	27.26	110	50 - 200	0.0100	+/-0.50	
Perylene-d12	1697760	30.43	1466587	30.41	116	50 - 200	0.0200	+/-0.50	
Matrix Spike Dup (B8A1102-MSD1)			<i>Lab File ID: B6275.D</i>			<i>Analyzed: 01/11/18 21:08</i>			
1,4-Dichlorobenzene-d4	287916	10.29	256007	10.28	112	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1093149	13.24	950586	13.23	115	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	593194	17.42	517747	17.41	115	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1204449	20.94	1068125	20.93	113	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1443130	27.27	1327398	27.26	109	50 - 200	0.0100	+/-0.50	
Perylene-d12	1677321	30.42	1466587	30.41	114	50 - 200	0.0100	+/-0.50	

* Values outside of QC limits



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Sequence: S8A1210

Instrument: GC/MS B

Calibration: 18A1204

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S8A1210-CCV1)			<i>Lab File ID: B6283.D</i>			<i>Analyzed: 01/12/18 13:17</i>			
1,4-Dichlorobenzene-d4	323383	10.3	279687	10.28	116	50 - 200	0.0200	+/-0.50	
Naphthalene-d8	1209882	13.26	1066690	13.23	113	50 - 200	0.0300	+/-0.50	
Acenaphthene-d10	644044	17.43	576939	17.41	112	50 - 200	0.0200	+/-0.50	
Phenanthrene-d10	1308429	20.96	1150324	20.93	114	50 - 200	0.0300	+/-0.50	
Chrysene-d12	1586129	27.29	1364948	27.25	116	50 - 200	0.0400	+/-0.50	
Perylene-d12	1742082	30.43	1584956	30.39	110	50 - 200	0.0400	+/-0.50	
S-1 (1800020-01)			<i>Lab File ID: B6286.D</i>			<i>Analyzed: 01/12/18 15:24</i>			
1,4-Dichlorobenzene-d4	320533	10.3	323383	10.3	99	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1207173	13.24	1209882	13.26	100	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	643339	17.41	644044	17.43	100	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	1282641	20.94	1308429	20.96	98	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	1448146	27.26	1586129	27.29	91	50 - 200	-0.0300	+/-0.50	
Perylene-d12	1338216	30.4	1742082	30.43	77	50 - 200	-0.0300	+/-0.50	

* Values outside of QC limits



SEMIVOLATILES CALIBRATION DATA


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INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration: 18A1204				Instrument: GC/MS B				Calibration Date: 12/21/2017 2:32:41PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pyridine	2.5	1.550776	5	1.515176	10	1.496358	20	1.492479	50	1.494805	80	1.495462
N-Nitrosodimethylamine	2.5	0.9580989	5	0.976324	10	0.9889055	20	0.9603449	50	0.9304515	80	0.8965796
Benzaldehyde	2.5	0.228804	5	0.2091897	10	0.2159128	20	0.2126995	50	0.1847794	80	0.2564301
Aniline	2.5	2.296926	5	2.320955	10	2.315474	20	2.217129	50	2.058025	80	2.022763
Phenol	2.5	1.977598	5	1.931603	10	1.943959	20	1.854988	50	1.733439	80	1.639953
bis(2-chloroethyl)ether	2.5	1.731137	5	1.702717	10	1.717591	20	1.622279	50	1.463256	80	1.399247
2-Chlorophenol	2.5	1.574511	5	1.596026	10	1.59524	20	1.564846	50	1.444448	80	1.402059
1,3-Dichlorobenzene	2.5	1.758942	5	1.755058	10	1.791131	20	1.699194	50	1.563523	80	1.512606
1,4-Dichlorobenzene	2.5	1.791849	5	1.798814	10	1.775828	20	1.718537	50	1.547028	80	1.512606
Benzyl alcohol	2.5	1.497402	5	1.473171	10	1.48639	20	1.429652	50	1.357845	80	1.328723
1,2-Dichlorobenzene	2.5	1.714224	5	1.715982	10	1.686714	20	1.604525	50	1.459026	80	1.425018
2-Methylphenol	2.5	1.411751	5	1.465534	10	1.414453	20	1.367296	50	1.238089	80	1.186734
bis(2-chloroisopropyl)ether	2.5	0.5605727	5	0.5772098	10	0.5681351	20	0.5309051	50	0.4803826	80	0.4577993
Acetophenone	2.5	2.201644	5	2.195229	10	2.209413	20	2.067875	50	1.889948	80	1.84442
3 & 4-Methylphenol	2.5	1.529335	5	1.523703	10	1.545227	20	1.446697	50	1.320486	80	1.203631
N-Nitroso-di-n-propylamine	2.5	1.373913	5	1.329213	10	1.333119	20	1.265213	50	1.120985	80	1.102636
Hexachloroethane	2.5	0.8058305	5	0.7898161	10	0.8023112	20	0.7685301	50	0.7009152	80	0.6543137
Nitrobenzene	2.5	0.4822445	5	0.4838648	10	0.4851456	20	0.4803508	50	0.4409472	80	0.4269131
Isophorone	2.5	0.9720324	5	0.9658189	10	0.9557416	20	0.9426709	50	0.8983176	80	0.8774396
2-Nitrophenol	2.5	0.2394126	5	0.2428163	10	0.2499883	20	0.2490957	50	0.2310512	80	0.2279874
2,4-Dimethylphenol	2.5	0.4469564	5	0.4470189	10	0.4530163	20	0.4432138	50	0.4123327	80	0.4050532
Benzoic acid	2.5	0	5	0.1372885	10	0.1951795	20	0.2291282	50	0.2224324	80	0.2405255
bis(2-chloroethoxy)methane	2.5	0.5580694	5	0.5502147	10	0.5475705	20	0.5285024	50	0.469075	80	0.4558811
2,4-Dichlorophenol	2.5	0.3544398	5	0.3674517	10	0.379068	20	0.3728952	50	0.3450735	80	0.3422193
1,2,4-Trichlorobenzene	2.5	0.4127032	5	0.4132346	10	0.4187496	20	0.4138497	50	0.3735413	80	0.3744404

INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration: 18A1204				Instrument: GC/MS B				Calibration Date: 12/21/2017 2:32:41PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Naphthalene	2.5	1.182066	5	1.149868	10	1.147389	20	1.11002	50	0.972821	80	0.957297
4-Chloroaniline	2.5	0.5142781	5	0.5214104	10	0.5296647	20	0.5122555	50	0.4682014	80	0.4494816
Hexachlorobutadiene	2.5	0.2645476	5	0.2661667	10	0.2690116	20	0.2674191	50	0.2527866	80	0.2597184
Caprolactam	2.5	0.1633476	5	0.1574266	10	0.1589103	20	0.1558943	50	0.1365708	80	0.1432841
4-Chloro-3-methylphenol	2.5	0.3917974	5	0.3894781	10	0.3862041	20	0.3848809	50	0.3600449	80	0.3467191
2-Methylnaphthylene	2.5	0.8294407	5	0.8193377	10	0.8168746	20	0.7893788	50	0.688873	80	0.6754209
1,2,4,5-Tetrachlorobenzene	2.5	0.8240907	5	0.8162603	10	0.8357001	20	0.8203343	50	0.8186869	80	0.841049
1-Methylnaphthalene	2.5	0.7985468	5	0.7875094	10	0.7832116	20	0.7422077	50	0.6593835	80	0.6419523
Hexachlorocyclopentadiene	2.5	0.4996376	5	0.5316571	10	0.5825295	20	0.5990249	50	0.6428539	80	0.6491134
2,4,6-Trichlorophenol	2.5	0.5008612	5	0.5119431	10	0.5371868	20	0.5308665	50	0.5226702	80	0.5259531
2,4,5-Trichlorophenol	2.5	0.5452413	5	0.5516336	10	0.576255	20	0.5734715	50	0.56798	80	0.5623765
2-Chloronaphthalene	2.5	1.434234	5	1.41481	10	1.394144	20	1.342492	50	1.250683	80	1.255963
1,1-Biphenyl	2.5	1.763664	5	1.744795	10	1.703681	20	1.603307	50	1.483573	80	1.482799
2-Nitroaniline	2.5	0.541821	5	0.5356635	10	0.5563985	20	0.5465375	50	0.5285234	80	0.5127165
Dimethylphthalate	2.5	1.850255	5	1.821579	10	1.806361	20	1.759903	50	1.620725	80	1.625634
Acenaphthylene	2.5	2.303288	5	2.244567	10	2.264198	20	2.179609	50	1.996394	80	1.92772
3-Nitroaniline	2.5	0.4723589	5	0.4841058	10	0.4910814	20	0.4869049	50	0.4334378	80	0.4361371
Acenaphthene	2.5	1.434428	5	1.396408	10	1.394726	20	1.33417	50	1.254903	80	1.236949
2,4-Dinitrophenol	2.5	0	5	0.1272087	10	0.2007214	20	0.2430244	50	0.2961212	80	0.3102781
4-Nitrophenol	2.5	0.2501525	5	0.2825171	10	0.3004893	20	0.3298258	50	0.3168641	80	0.3169519
Dibenzofuran	2.5	2.138726	5	2.09933	10	2.09385	20	2.03205	50	1.840841	80	1.822118
2,6-Dinitrotoluene	2.5	0.4591783	5	0.4592388	10	0.4678762	20	0.4554974	50	0.4277234	80	0.4110043
2,4-Dinitrotoluene	2.5	0.580445	5	0.5986185	10	0.6147756	20	0.6076853	50	0.5819703	80	0.5781973
2,3,4,6-Tetrachlorophenol	2.5	0.4781428	5	0.5076328	10	0.5305379	20	0.5432824	50	0.5352109	80	0.5392672
Diethyl phthalate	2.5	1.941324	5	1.883097	10	1.871761	20	1.830139	50	1.710471	80	1.668441


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INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration: 18A1204				Instrument: GC/MS B				Calibration Date: 12/21/2017 2:32:41PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Chlorophenyl-phenylether	2.5	0.8813454	5	0.8723354	10	0.8652769	20	0.8494982	50	0.8008484	80	0.7977022
Fluorene	2.5	1.691421	5	1.673786	10	1.648833	20	1.597732	50	1.474289	80	1.430309
4-Nitroaniline	2.5	0.5070065	5	0.5025212	10	0.5231818	20	0.5003909	50	0.4711709	80	0.4472104
4,6-Dinitro-2-methylphenol	2.5	0.0989603	5	0.1304317	10	0.1625386	20	0.1717695	50	0.1832447	80	0.1837621
Carbazole	2.5	1.215334	5	1.199344	10	1.182453	20	1.100547	50	0.9612955	80	0.9401213
N-Nitrosodiphenylamine	2.5	0.7570504	5	0.739198	10	0.7314357	20	0.7005472	50	0.6388031	80	0.619406
1,2-Diphenylhydrazine	2.5	1.013061	5	0.9835863	10	0.9674422	20	0.9225933	50	0.821062	80	0.8798767
Azobenzene	2.5	1.013061	5	0.9835863	10	0.9674422	20	0.9225933	50	0.821062	80	0.8798767
4-Bromophenyl-phenylether	2.5	0.3005271	5	0.2957345	10	0.3037475	20	0.2968025	50	0.2854656	80	0.2913027
Atrazine	2.5	0.2430891	5	0.239772	10	0.2399846	20	0.2266745	50	0.2182371	80	0.2180961
Hexachlorobenzene	2.5	0.4142524	5	0.410403	10	0.4174094	20	0.4084436	50	0.3964719	80	0.4023232
Pentachlorophenol	2.5	0.184126	5	0.22206	10	0.2481318	20	0.2520724	50	0.2532559	80	0.2595344
Phenanthrene	2.5	1.22985	5	1.211617	10	1.195461	20	1.146737	50	1.050696	80	1.029446
Anthracene	2.5	1.262361	5	1.252231	10	1.237258	20	1.182004	50	1.088456	80	1.057784
Di-n-butyl phthalate	2.5	1.70136	5	1.680056	10	1.680984	20	1.600548	50	1.465988	80	1.433757
Fluoranthene	2.5	1.421573	5	1.402939	10	1.403848	20	1.361424	50	1.273824	80	1.27168
Benzidine	2.5	0.3796678	5	0.4275386	10	0.4554225	20	0.4881043	50	0.4873843	80	0.4875347
Pyrene	2.5	1.23303	5	1.209625	10	1.198399	20	1.165278	50	1.063456	80	1.040049
Butylbenzylphthalate	2.5	0.7009848	5	0.6854853	10	0.6810018	20	0.6556781	50	0.5814667	80	0.5684152
3,3'-Dichlorobenzidine	2.5	0.5255093	5	0.5044603	10	0.5037467	20	0.4719511	50	0.4665598	80	0.465047
Benzo[a]anthracene	2.5	1.292086	5	1.259164	10	1.261039	20	1.237165	50	1.143106	80	1.137266
bis(2-ethylhexyl)phthalate	2.5	0.9259478	5	0.9364444	10	0.9285834	20	0.88929	50	0.780906	80	0.7678213
Chrysene	2.5	1.156918	5	1.14724	10	1.145421	20	1.112119	50	1.037056	80	1.021537
Di-n-octyl phthalate	2.5	1.479196	5	1.44183	10	1.460942	20	1.40156	50	1.308649	80	1.308397
Benzo[b]fluoranthene	2.5	1.141093	5	1.153539	10	1.159616	20	1.154912	50	1.171441	80	1.138061



INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Benzo[k]fluoranthene	2.5	1.158685	5	1.14568	10	1.149738	20	1.130215	50	1.06613	80	1.117458
Benzo[a]pyrene	2.5	1.124795	5	1.117127	10	1.126298	20	1.11607	50	1.089968	80	1.104033
Indeno(1,2,3-cd)pyrene	2.5	1.036681	5	1.094505	10	1.137422	20	1.214607	50	1.293689	80	1.191641
Dibenzo(a,h)anthracene	2.5	1.065469	5	1.129539	10	1.173441	20	1.18516	50	1.163067	80	1.172498
Benzo[ghi]perylene	2.5	1.180447	5	1.200708	10	1.222035	20	1.22832	50	1.179799	80	1.173999
2-Fluorophenol	2.5	1.393004	5	1.404494	10	1.420617	20	1.401977	50	1.343174	80	1.329862
Phenol-d5	2.5	1.82854	5	1.837803	10	1.84542	20	1.774227	50	1.67795	80	1.620298
Nitrobenzene-d5	2.5	0.47962	5	0.48558	10	0.4952854	20	0.4879113	50	0.4535487	80	0.4473499
2-Fluorobiphenyl	2.5	1.69651	5	1.659032	10	1.69437	20	1.641362	50	1.536278	80	1.527041
2,4,6-Tribromophenol	2.5	0.5071734	5	0.537114	10	0.5560796	20	0.5658777	50	0.5766623	80	0.5980067
Terphenyl-d14	2.5	0.9407236	5	0.9469552	10	0.9391303	20	0.9216566	50	0.8708142	80	0.8595637



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Pyridine	120	1.331303										
N-Nitrosodimethylamine	120	0.9166635										
Benzaldehyde	120	0.2142896										
Aniline	120	2.06824										
Phenol	120	1.664435										
bis(2-chloroethyl)ether	120	1.382157										
2-Chlorophenol	120	1.427301										
1,3-Dichlorobenzene	120	1.473478										
1,4-Dichlorobenzene	120	1.473478										
Benzyl alcohol	120	1.408606										
1,2-Dichlorobenzene	120	1.423402										
2-Methylphenol	120	1.215972										
bis(2-chloroisopropyl)ether	120	0.4562692										
Acetophenone	120	1.893505										
3 & 4-Methylphenol	120	1.208834										
N-Nitroso-di-n-propylamine	120	1.132897										
Hexachloroethane	120	0.6341487										
Nitrobenzene	120	0.4271302										
Isophorone	120	0.8988282										
2-Nitrophenol	120	0.24101										
2,4-Dimethylphenol	120	0.4172952										
Benzoic acid	120	0.2526325										
bis(2-chloroethoxy)methane	120	0.4648814										
2,4-Dichlorophenol	120	0.348682										
1,2,4-Trichlorobenzene	120	0.3724573										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Naphthalene	120	0.9475433										
4-Chloroaniline	120	0.4563874										
Hexachlorobutadiene	120	0.262086										
Caprolactam	120	0.1343299										
4-Chloro-3-methylphenol	120	0.3595971										
2-Methylnaphthylene	120	0.6834624										
1,2,4,5-Tetrachlorobenzene	120	0.8310331										
1-Methylnaphthalene	120	0.6548295										
Hexachlorocyclopentadiene	120	0.6529706										
2,4,6-Trichlorophenol	120	0.5236639										
2,4,5-Trichlorophenol	120	0.556987										
2-Chloronaphthalene	120	1.249365										
1,1-Biphenyl	120	1.486186										
2-Nitroaniline	120	0.5125213										
Dimethylphthalate	120	1.612714										
Acenaphthylene	120	1.860402										
3-Nitroaniline	120	0.4351645										
Acenaphthene	120	1.213181										
2,4-Dinitrophenol	120	0.3245463										
4-Nitrophenol	120	0.3206139										
Dibenzofuran	120	1.801993										
2,6-Dinitrotoluene	120	0.4182252										
2,4-Dinitrotoluene	120	0.5638147										
2,3,4,6-Tetrachlorophenol	120	0.5470461										
Diethyl phthalate	120	1.626208										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4-Chlorophenyl-phenylether	120	0.7900333										
Fluorene	120	1.409134										
4-Nitroaniline	120	0.4268089										
4,6-Dinitro-2-methylphenol	120	0.1908122										
Carbazole	120	0.9472267										
N-Nitrosodiphenylamine	120	0.6101414										
1,2-Diphenylhydrazine	120	0.8579749										
Azobenzene	120	0.8579749										
4-Bromophenyl-phenylether	120	0.297372										
Atrazine	120	0.2242905										
Hexachlorobenzene	120	0.4114467										
Pentachlorophenol	120	0.2717032										
Phenanthrene	120	1.033408										
Anthracene	120	1.066954										
Di-n-butyl phthalate	120	1.430289										
Fluoranthene	120	1.287529										
Benzidine	120	0.4992045										
Pyrene	120	1.036208										
Butylbenzylphthalate	120	0.5536785										
3,3'-Dichlorobenzidine	120	0.4863651										
Benzo[a]anthracene	120	1.162623										
bis(2-ethylhexyl)phthalate	120	0.7404401										
Chrysene	120	1.017089										
Di-n-octyl phthalate	120	1.300015										
Benzo[b]fluoranthene	120	1.253232										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Benzo[k]fluoranthene	120	1.042409										
Benzo[a]pyrene	120	1.11741										
Indeno(1,2,3-cd)pyrene	120	1.167327										
Dibenzo(a,h)anthracene	120	1.16483										
Benzo[ghi]perylene	120	1.180025										
2-Fluorophenol	120	1.370647										
Phenol-d5	120	1.629229										
Nitrobenzene-d5	120	0.45241										
2-Fluorobiphenyl	120	1.473849										
2,4,6-Tribromophenol	120	0.5993046										
Terphenyl-d14	120	0.8564098										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Pyridine	A	1.482337	4.706251				
N-Nitrosodimethylamine	A	0.9467669	3.517207				
Benzaldehyde	A	0.2174436	9.968183				
Aniline	A	2.185645	6.056627				
Phenol	A	1.820854	7.701363			CCC (20)	
bis(2-chloroethyl)ether	A	1.574055	9.835755				
2-Chlorophenol	A	1.514919	5.681877				
1,3-Dichlorobenzene	A	1.650562	7.928637				
1,4-Dichlorobenzene	A	1.659734	8.618652			CCC (20)	
Benzyl alcohol	A	1.42597	4.562249				
1,2-Dichlorobenzene	A	1.575556	8.653601				
2-Methylphenol	A	1.328547	8.445492				
bis(2-chloroisopropyl)ether	A	0.5187534	10.21384				
Acetophenone	A	2.043148	8.038896				
3 & 4-Methylphenol	A	1.396845	10.80428				
N-Nitroso-di-n-propylamine	A	1.236854	9.314381			SPCC (0.05)	
Hexachloroethane	A	0.7365522	9.837764				
Nitrobenzene	A	0.4609423	6.034846				
Isophorone	A	0.9301213	4.072927				
2-Nitrophenol	A	0.2401945	3.466299			CCC (20)	
2,4-Dimethylphenol	A	0.4321266	4.57565				
Benzoic acid	A	0.2128644	19.62676				
bis(2-chloroethoxy)methane	A	0.5105992	8.874124				
2,4-Dichlorophenol	A	0.3585471	4.055441			CCC (20)	
1,2,4-Trichlorobenzene	A	0.3969966	5.565127				
Naphthalene	A	1.066715	9.651275				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
4-Chloroaniline	A	0.493097	6.839428				
Hexachlorobutadiene	A	0.2631051	2.104329			CCC (20)	
Caprolactam	A	0.1499662	7.787963				
4-Chloro-3-methylphenol	A	0.3741031	4.843597			CCC (20)	
2-Methylnaphthylene	A	0.7575412	9.406941				
1,2,4,5-Tetrachlorobenzene	A	0.8267363	1.132698				
1-Methylnaphthalene	A	0.7239487	9.623004				
Hexachlorocyclopentadiene	A	0.5939696	10.15968			SPCC (0.05)	
2,4,6-Trichlorophenol	A	0.5218778	2.3153			CCC (20)	
2,4,5-Trichlorophenol	A	0.5619921	2.034199				
2-Chloronaphthalene	A	1.334527	6.153276				
1,1-Biphenyl	A	1.609715	7.943321				
2-Nitroaniline	A	0.5334545	3.122776				
Dimethylphthalate	A	1.728167	6.075287				
Acenaphthylene	A	2.110883	8.485854				
3-Nitroaniline	A	0.4627415	5.760237				
Acenaphthene	A	1.323538	6.699487			CCC (20)	
2,4-Dinitrophenol	Q	0.2503167			0.9999173	SPCC (0.05)	
4-Nitrophenol	A	0.3024878	9.187066			SPCC (0.05)	
Dibenzofuran	A	1.975558	7.477863				
2,6-Dinitrotoluene	A	0.4426777	5.192878				
2,4-Dinitrotoluene	A	0.5893581	3.081317				
2,3,4,6-Tetrachlorophenol	A	0.5258743	4.690581				
Diethyl phthalate	A	1.790206	6.75687				
4-Chlorophenyl-phenylether	A	0.83672	4.686902				
Fluorene	A	1.560786	7.690939				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	A	0.4826129	7.302141				
4,6-Dinitro-2-methylphenol	Q	0.160217			0.9999153		
Carbazole	A	1.078046	11.65586				
N-Nitrosodiphenylamine	A	0.685226	8.950055			CCC (20)	
1,2-Diphenylhydrazine	A	0.9207995	7.705118				
Azobenzene	A	0.9207995	7.705118				
4-Bromophenyl-phenylether	A	0.2958503	2.02801				
Atrazine	A	0.2300206	4.662896				
Hexachlorobenzene	A	0.4086786	1.751422				
Pentachlorophenol	A	0.2415548	12.18867			CCC (20)	
Phenanthrene	A	1.128174	7.83702				
Anthracene	A	1.163864	7.808617				
Di-n-butyl phthalate	A	1.570426	7.864262				
Fluoranthene	A	1.346117	4.954611			CCC (20)	
Benzdine	A	0.4606938	9.444772				
Pyrene	A	1.135149	7.544706				
Butylbenzylphthalate	A	0.6323872	9.856522				
3,3'-Dichlorobenzidine	A	0.4890913	4.695397				
Benzo[a]anthracene	A	1.213207	5.260201				
bis(2-ethylhexyl)phthalate	A	0.8527761	10.09157				
Chrysene	A	1.091054	5.810452				
Di-n-octyl phthalate	A	1.385798	5.671197			CCC (20)	
Benzo[b]fluoranthene	A	1.167413	3.380587				
Benzo[k]fluoranthene	A	1.115759	3.999387				
Benzo[a]pyrene	A	1.113672	1.141404			CCC (20)	
Indeno(1,2,3-cd)pyrene	A	1.162267	7.188264				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Dibenzo(a,h)anthracene	A	1.150572	3.591301				
Benzo[ghi]perylene	A	1.195048	1.865378				
2-Fluorophenol	A	1.380539	2.448811				
Phenol-d5	A	1.744781	5.730351				
Nitrobenzene-d5	A	0.4716722	4.212714				
2-Fluorobiphenyl	A	1.604063	5.610601				
2,4,6-Tribromophenol	A	0.5628883	5.88007				
Terphenyl-d14	A	0.9050362	4.527247				

* Values outside of QC limits

Calibration Report

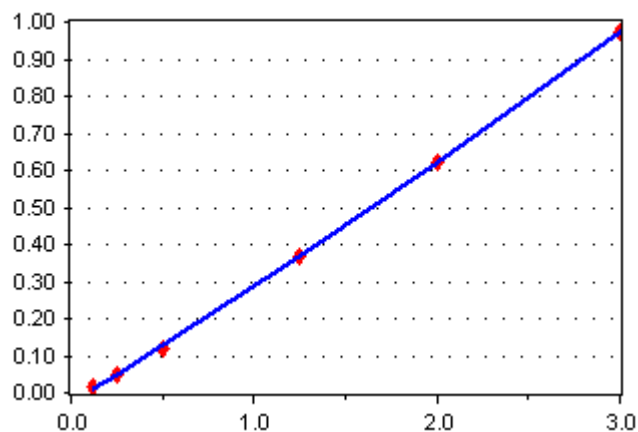
Printed: 01/12/2018 2:41 pm

Instrument: GC/MS B
Calibration ID: 18A1204

Calibration Date: 12/21/2017 14:32 By DSM
Last Edit Date: 01/12/2018 14:32 By DSM

2,4-Dinitrophenol

BN - 2,4-Dinitrophenol



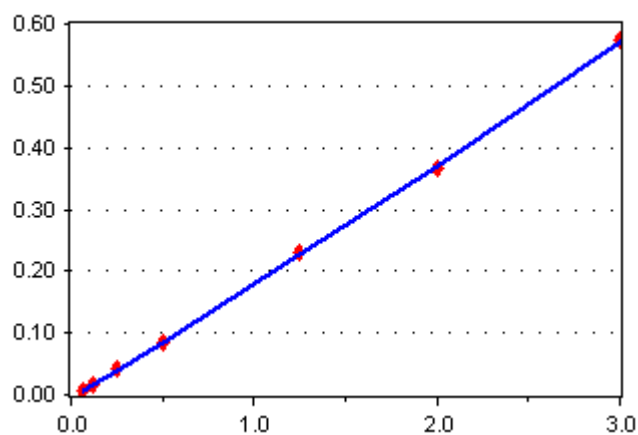
Quadratic Regression

COD: 0.9999173

$$[\text{Conc}] = -2.583395\text{E-}02 + 0.3018306 * [\text{Response}] + (1.050333\text{E-}02) * [\text{Response}]^2$$

4,6-Dinitro-2-methylphenol

BN - 4,6-Dinitro-2-methylphenol



Quadratic Regression

COD: 0.9999153

$$[\text{Conc}] = -5.004972\text{E-}03 + 0.1795192 * [\text{Response}] + (4.214003\text{E-}03) * [\text{Response}]^2$$



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	43.8	1.482337	1.297905		-12.4	
N-Nitrosodimethylamine	A	50.0	42.7	0.9467669	0.809331		-14.5	
Benzaldehyde	A	50.0	63.6	0.2174436	0.2766237		27.2	
Aniline	A	50.0	43.5	2.185645	1.899401		-13.1	
Phenol	A	50.0	44.6	1.820854	1.622778		-10.9	20
bis(2-chloroethyl)ether	A	50.0	43.1	1.574055	1.356925		-13.8	
2-Chlorophenol	A	50.0	46.6	1.514919	1.410605		-6.9	
1,3-Dichlorobenzene	A	50.0	47.2	1.650562	1.556929		-5.7	
1,4-Dichlorobenzene	A	50.0	47.1	1.659734	1.563214		-5.8	20
Benzyl alcohol	A	50.0	45.2	1.42597	1.287984		-9.7	
1,2-Dichlorobenzene	A	50.0	46.5	1.575556	1.464529		-7.0	
2-Methylphenol	A	50.0	45.1	1.328547	1.199102		-9.7	
bis(2-chloroisopropyl)ether	A	50.0	44.7	0.5187534	0.4635936		-10.6	
Acetophenone	A	50.0	46.6	2.043148	1.905579		-6.7	
3 & 4-Methylphenol	A	50.0	45.8	1.396845	1.279043		-8.4	
N-Nitroso-di-n-propylamine	A	50.0	43.1	1.236854	1.066355	0.05	-13.8	
Hexachloroethane	A	50.0	47.8	0.7365522	0.7042714		-4.4	
Nitrobenzene	A	50.0	45.8	0.4609423	0.4223685		-8.4	
Isophorone	A	50.0	44.9	0.9301213	0.8358002		-10.1	
2-Nitrophenol	A	50.0	46.8	0.2401945	0.2246993		-6.5	20
2,4-Dimethylphenol	A	50.0	46.4	0.4321266	0.4011673		-7.2	
bis(2-chloroethoxy)methane	A	50.0	42.8	0.5105992	0.4375019		-14.3	
2,4-Dichlorophenol	A	50.0	48.7	0.3585471	0.3490638		-2.6	20



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	50.0	48.7	0.3969966	0.3869891		-2.5	
Naphthalene	A	50.0	46.2	1.066715	0.9857128		-7.6	
4-Chloroaniline	A	50.0	46.0	0.493097	0.4539777		-7.9	
Hexachlorobutadiene	A	50.0	51.2	0.2631051	0.2692242		2.3	20
Caprolactam	A	50.0	43.6	0.1499662	0.1308145		-12.8	
4-Chloro-3-methylphenol	A	50.0	46.5	0.3741031	0.3481793		-6.9	20
2-Methylnaphthylene	A	50.0	45.5	0.7575412	0.6895561		-9.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	50.2	0.8267363	0.8293672		0.3	
Hexachlorocyclopentadiene	A	50.0	52.3	0.5939696	0.6213459	0.05	4.6	
2,4,6-Trichlorophenol	A	50.0	48.4	0.5218778	0.5053789		-3.2	20
2,4,5-Trichlorophenol	A	50.0	47.7	0.5619921	0.536112		-4.6	
2-Chloronaphthalene	A	50.0	45.6	1.334527	1.216484		-8.8	
1,1-Biphenyl	A	50.0	46.4	1.609715	1.493152		-7.2	
2-Nitroaniline	A	50.0	44.2	0.5334545	0.4719618		-11.5	
Dimethylphthalate	A	50.0	46.2	1.728167	1.596811		-7.6	
Acenaphthylene	A	50.0	45.2	2.110883	1.910204		-9.5	
3-Nitroaniline	A	50.0	44.4	0.4627415	0.4105264		-11.3	
Acenaphthene	A	50.0	45.5	1.323538	1.20408		-9.0	20
2,4-Dinitrophenol	Q	50.0	47.1	0.2503167	0.2750517	0.05	-5.9	
4-Nitrophenol	A	50.0	52.7	0.3024878	0.3187163	0.05	5.4	
Dibenzofuran	A	50.0	45.2	1.975558	1.785138		-9.6	
2,6-Dinitrotoluene	A	50.0	46.8	0.4426777	0.4142332		-6.4	
2,4-Dinitrotoluene	A	50.0	48.3	0.5893581	0.5688678		-3.5	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,3,4,6-Tetrachlorophenol	A	50.0	50.8	0.5258743	0.5340632		1.6	
Diethyl phthalate	A	50.0	46.3	1.790206	1.657999		-7.4	
4-Chlorophenyl-phenylether	A	50.0	46.8	0.83672	0.7823296		-6.5	
Fluorene	A	50.0	45.7	1.560786	1.426377		-8.6	
4-Nitroaniline	A	50.0	43.2	0.4826129	0.4173621		-13.5	
4,6-Dinitro-2-methylphenol	Q	50.0	48.9	0.160217	0.1765883		-2.2	
Carbazole	A	50.0	40.4	1.078046	0.8701049		-19.3	
N-Nitrosodiphenylamine	A	50.0	43.8	0.685226	0.600893		-12.3	20
1,2-Diphenylhydrazine	A	50.0	40.5	0.9207995	0.7452641		-19.1	
Azobenzene	A	50.0	40.5	0.9207995	0.7452641		-19.1	
4-Bromophenyl-phenylether	A	50.0	47.7	0.2958503	0.2823834		-4.6	
Atrazine	A	50.0	44.6	0.2300206	0.205337		-10.7	
Hexachlorobenzene	A	50.0	47.9	0.4086786	0.391525		-4.2	
Pentachlorophenol	A	50.0	52.3	0.2415548	0.2527764		4.6	20
Phenanthrene	A	50.0	45.0	1.128174	1.015577		-10.0	
Anthracene	A	50.0	45.1	1.163864	1.050873		-9.7	
Di-n-butyl phthalate	A	50.0	44.8	1.570426	1.406859		-10.4	
Fluoranthene	A	50.0	47.0	1.346117	1.264955		-6.0	20
Benidine	A	50.0	49.8	0.4606938	0.4586893		-0.4	
Pyrene	A	50.0	44.9	1.135149	1.018629		-10.3	
Butylbenzylphthalate	A	50.0	43.2	0.6323872	0.5458715		-13.7	
3,3'-Dichlorobenzidine	A	50.0	44.2	0.4890913	0.4323683		-11.6	
Benzo[a]anthracene	A	50.0	45.3	1.213207	1.09861		-9.4	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	43.5	0.8527761	0.7420936		-13.0	
Chrysene	A	50.0	45.7	1.091054	0.9969399		-8.6	
Di-n-octyl phthalate	A	50.0	44.4	1.385798	1.230297		-11.2	20
Benzo[b]fluoranthene	A	50.0	49.4	1.167413	1.154293		-1.1	
Benzo[k]fluoranthene	A	50.0	51.7	1.115759	1.154293		3.5	
Benzo[a]pyrene	A	50.0	47.2	1.113672	1.050804		-5.6	20
Indeno(1,2,3-cd)pyrene	A	50.0	53.6	1.162267	1.246899		7.3	
Dibenzo(a,h)anthracene	A	50.0	49.6	1.150572	1.142273		-0.7	
Benzo[ghi]perylene	A	50.0	48.5	1.195048	1.1597		-3.0	
2-Fluorophenol	A	50.0	46.2	1.380539	1.276181		-7.6	
Phenol-d5	A	50.0	45.6	1.744781	1.59265		-8.7	
Nitrobenzene-d5	A	50.0	47.4	0.4716722	0.4468292		-5.3	
2-Fluorobiphenyl	A	50.0	46.8	1.604063	1.500968		-6.4	
2,4,6-Tribromophenol	A	50.0	52.9	0.5628883	0.5959158		5.9	
Terphenyl-d14	A	50.0	46.5	0.9050362	0.841012		-7.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	44.7	1.482337	1.323783		-10.7	
N-Nitrosodimethylamine	A	50.0	43.5	0.9467669	0.8238306		-13.0	
Benzaldehyde	A	50.0	49.6	0.2174436	0.2156625		-0.8	
Aniline	A	50.0	46.1	2.185645	2.015309		-7.8	
Phenol	A	50.0	46.8	1.820854	1.703355		-6.5	20
bis(2-chloroethyl)ether	A	50.0	44.8	1.574055	1.410686		-10.4	
2-Chlorophenol	A	50.0	47.6	1.514919	1.441877		-4.8	
1,3-Dichlorobenzene	A	50.0	47.2	1.650562	1.55695		-5.7	
1,4-Dichlorobenzene	A	50.0	46.5	1.659734	1.543606		-7.0	20
Benzyl alcohol	A	50.0	47.3	1.42597	1.347974		-5.5	
1,2-Dichlorobenzene	A	50.0	46.6	1.575556	1.467192		-6.9	
2-Methylphenol	A	50.0	46.2	1.328547	1.228587		-7.5	
bis(2-chloroisopropyl)ether	A	50.0	44.6	0.5187534	0.4622086		-10.9	
Acetophenone	A	50.0	47.1	2.043148	1.926243		-5.7	
3 & 4-Methylphenol	A	50.0	46.4	1.396845	1.296011		-7.2	
N-Nitroso-di-n-propylamine	A	50.0	43.9	1.236854	1.086024	0.05	-12.2	
Hexachloroethane	A	50.0	46.8	0.7365522	0.6890554		-6.4	
Nitrobenzene	A	50.0	46.4	0.4609423	0.4274321		-7.3	
Isophorone	A	50.0	46.3	0.9301213	0.8609567		-7.4	
2-Nitrophenol	A	50.0	48.7	0.2401945	0.2338926		-2.6	20
2,4-Dimethylphenol	A	50.0	47.1	0.4321266	0.4073872		-5.7	
bis(2-chloroethoxy)methane	A	50.0	44.1	0.5105992	0.4498931		-11.9	
2,4-Dichlorophenol	A	50.0	48.4	0.3585471	0.3472848		-3.1	20



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	50.0	47.9	0.3969966	0.3799848		-4.3	
Naphthalene	A	50.0	46.0	1.066715	0.9812302		-8.0	
4-Chloroaniline	A	50.0	45.9	0.493097	0.4530267		-8.1	
Hexachlorobutadiene	A	50.0	49.3	0.2631051	0.259218		-1.5	20
Caprolactam	A	50.0	46.2	0.1499662	0.1385543		-7.6	
4-Chloro-3-methylphenol	A	50.0	47.2	0.3741031	0.3533204		-5.6	20
2-Methylnaphthylene	A	50.0	45.3	0.7575412	0.6861939		-9.4	
1,2,4,5-Tetrachlorobenzene	A	50.0	50.3	0.8267363	0.8310476		0.5	
Hexachlorocyclopentadiene	A	50.0	50.9	0.5939696	0.6043165	0.05	1.7	
2,4,6-Trichlorophenol	A	50.0	49.2	0.5218778	0.5139761		-1.5	20
2,4,5-Trichlorophenol	A	50.0	48.9	0.5619921	0.5497674		-2.2	
2-Chloronaphthalene	A	50.0	45.5	1.334527	1.214081		-9.0	
1,1-Biphenyl	A	50.0	46.5	1.609715	1.497349		-7.0	
2-Nitroaniline	A	50.0	46.1	0.5334545	0.4919453		-7.8	
Dimethylphthalate	A	50.0	45.7	1.728167	1.579347		-8.6	
Acenaphthylene	A	50.0	45.0	2.110883	1.899821		-10.0	
3-Nitroaniline	A	50.0	45.6	0.4627415	0.4221997		-8.8	
Acenaphthene	A	50.0	45.7	1.323538	1.210813		-8.5	20
2,4-Dinitrophenol	Q	50.0	47.1	0.2503167	0.2751452	0.05	-5.8	
4-Nitrophenol	A	50.0	53.2	0.3024878	0.3220886	0.05	6.5	
Dibenzofuran	A	50.0	45.4	1.975558	1.792367		-9.3	
2,6-Dinitrotoluene	A	50.0	46.7	0.4426777	0.4134873		-6.6	
2,4-Dinitrotoluene	A	50.0	48.8	0.5893581	0.5746725		-2.5	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,3,4,6-Tetrachlorophenol	A	50.0	51.6	0.5258743	0.5429542		3.2	
Diethyl phthalate	A	50.0	46.0	1.790206	1.64575		-8.1	
4-Chlorophenyl-phenylether	A	50.0	46.7	0.83672	0.7818037		-6.6	
Fluorene	A	50.0	45.5	1.560786	1.421007		-9.0	
4-Nitroaniline	A	50.0	47.0	0.4826129	0.4536783		-6.0	
4,6-Dinitro-2-methylphenol	Q	50.0	48.4	0.160217	0.1746125		-3.2	
Carbazole	A	50.0	44.6	1.078046	0.9621554		-10.8	
N-Nitrosodiphenylamine	A	50.0	44.7	0.685226	0.6127379		-10.6	20
1,2-Diphenylhydrazine	A	50.0	41.4	0.9207995	0.7631185		-17.1	
Azobenzene	A	50.0	41.4	0.9207995	0.7631185		-17.1	
4-Bromophenyl-phenylether	A	50.0	48.0	0.2958503	0.2842768		-3.9	
Atrazine	A	50.0	41.3	0.2300206	0.1901003		-17.4	
Hexachlorobenzene	A	50.0	48.4	0.4086786	0.3957607		-3.2	
Pentachlorophenol	A	50.0	52.9	0.2415548	0.2555926		5.8	20
Phenanthrene	A	50.0	45.0	1.128174	1.01463		-10.1	
Anthracene	A	50.0	44.8	1.163864	1.042341		-10.4	
Di-n-butyl phthalate	A	50.0	45.6	1.570426	1.430677		-8.9	
Fluoranthene	A	50.0	46.6	1.346117	1.254925		-6.8	20
Benidine	A	50.0	50.2	0.4606938	0.4628189		0.5	
Pyrene	A	50.0	45.6	1.135149	1.036217		-8.7	
Butylbenzylphthalate	A	50.0	45.0	0.6323872	0.5689847		-10.0	
3,3'-Dichlorobenzidine	A	50.0	50.6	0.4890913	0.4952404		1.3	
Benzo[a]anthracene	A	50.0	46.0	1.213207	1.115929		-8.0	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	44.8	0.8527761	0.7647958		-10.3	
Chrysene	A	50.0	45.9	1.091054	1.001679		-8.2	
Di-n-octyl phthalate	A	50.0	45.5	1.385798	1.260876		-9.0	20
Benzo[b]fluoranthene	A	50.0	50.3	1.167413	1.175437		0.7	
Benzo[k]fluoranthene	A	50.0	52.7	1.115759	1.175437		5.3	
Benzo[a]pyrene	A	50.0	46.8	1.113672	1.041602		-6.5	20
Indeno(1,2,3-cd)pyrene	A	50.0	53.0	1.162267	1.231989		6.0	
Dibenzo(a,h)anthracene	A	50.0	48.8	1.150572	1.124003		-2.3	
Benzo[ghi]perylene	A	50.0	47.4	1.195048	1.132391		-5.2	
2-Fluorophenol	A	50.0	47.5	1.380539	1.311003		-5.0	
Phenol-d5	A	50.0	47.5	1.744781	1.657		-5.0	
Nitrobenzene-d5	A	50.0	48.2	0.4716722	0.4547333		-3.6	
2-Fluorobiphenyl	A	50.0	46.7	1.604063	1.498467		-6.6	
2,4,6-Tribromophenol	A	50.0	52.5	0.5628883	0.5911609		5.0	
Terphenyl-d14	A	50.0	47.4	0.9050362	0.8586126		-5.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



VOLATILES SAMPLE DATA



VOLATILES SAMPLE DATA



ANALYSIS DATA SHEET

EPA 8260

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/10/18 16:44	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 5035A	File ID:	A15027.D
Prep Batch:	B8A1006	Sequence:	S8A1004	Analyzed:	01/10/18 16:44
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.36	10.6	U
107-13-1	Acrylonitrile	ND	2.12	10.6	U
67-64-1	Acetone	ND	1.06	2.12	U
75-71-8	Dichlorodifluoromethane	ND	1.06	2.12	U
74-87-3	Chloromethane	ND	1.06	2.12	U
75-01-4	Vinyl chloride	ND	1.06	2.12	U
74-83-9	Bromomethane	ND	1.06	2.12	U
75-00-3	Chloroethane	ND	1.06	2.12	U
75-69-4	Trichlorofluoromethane	ND	1.06	2.12	U
76-13-1	Freon 113	ND	1.06	2.12	U
75-35-4	1,1-Dichloroethene	ND	1.06	2.12	U
75-15-0	Carbon disulfide	ND	1.06	2.12	U
79-20-9	Methyl Acetate	ND	1.06	2.12	U
75-09-2	Methylene Chloride	1.54	1.06	2.12	J
156-60-5	trans-1,2-Dichloroethene	ND	1.06	2.12	U
75-34-3	1,1-Dichloroethane	ND	1.06	2.12	U
78-93-3	2-Butanone	ND	1.06	2.12	U
156-59-4	cis-1,2-Dichloroethene	ND	1.06	2.12	U
67-66-3	Chloroform	ND	1.06	2.12	U
74-97-5	Bromochloromethane	ND	1.06	2.12	U
110-82-7	Cyclohexane	ND	1.06	2.12	U
71-55-6	1,1,1-Trichloroethane	ND	1.06	2.12	U
75-65-0	t-Butyl alcohol	ND	5.30	21.2	U
56-23-5	Carbon Tetrachloride	ND	1.06	2.12	U



ANALYSIS DATA SHEET

EPA 8260

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Prep Date:	01/10/18 16:44	Matrix:	Soil
Percent Solids:	94.30	Prep Method:	EPA 5035A	File ID:	A15027.D
Prep Batch:	B8A1006	Sequence:	S8A1004	Analyzed:	01/10/18 16:44
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-06-2	1,2-Dichloroethane	ND	1.06	2.12	U
71-43-2	Benzene	ND	1.06	2.12	U
79-01-6	Trichloroethene	ND	1.06	2.12	U
108-87-2	Methylcyclohexane	ND	1.06	2.12	U
78-87-5	1,2-Dichloropropane	ND	1.06	2.12	U
75-27-4	Bromodichloromethane	ND	1.06	2.12	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.06	2.12	U
108-88-3	Toluene	ND	1.06	2.12	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.06	2.12	U
79-00-5	1,1,2-Trichloroethane	ND	1.06	2.12	U
108-10-1	4-Methyl-2-pentanone	ND	1.06	2.12	U
106-93-4	1,2-Dibromoethane	ND	1.06	2.12	U
591-78-6	2-Hexanone	ND	1.06	2.12	U
127-18-4	Tetrachloroethene	ND	1.06	2.12	U
124-48-1	Dibromochloromethane	ND	1.06	2.12	U
100-41-4	Ethylbenzene	ND	1.06	2.12	U
108-90-7	Chlorobenzene	ND	1.06	2.12	U
108-38-3/106-42	m,p-Xylenes	ND	2.12	4.24	U
95-47-6	o-Xylene	ND	2.12	4.24	U
100-42-5	Styrene	ND	1.06	4.24	U
75-25-2	Bromoform	ND	1.06	2.12	U
98-82-8	Isopropylbenzene	ND	1.06	2.12	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.06	2.12	U
541-73-1	1,3-Dichlorobenzene	ND	1.06	2.12	U



ANALYSIS DATA SHEET

EPA 8260

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled: 01/09/18 13:15	Prep Date: 01/10/18 16:44	Matrix: Soil
Percent Solids: 94.30	Prep Method: EPA 5035A	File ID: A15027.D
Prep Batch: B8A1006	Sequence: S8A1004	Analyzed: 01/10/18 16:44
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
106-46-7	1,4-Dichlorobenzene	ND	1.06	2.12	U
95-50-1	1,2-Dichlorobenzene	ND	1.06	2.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.06	2.12	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.06	2.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.06	2.12	U
1634-04-4	Methyl tert-Butyl Ether	ND	2.12	4.24	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	112%	74-146
Toluene-d8	101%	70-121
Bromofluorobenzene	96%	28-133

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\A\DATA18\JAN18\A0110\A15027.D

Acq On : 10 Jan 2018 4:44 pm

Sample : 1800020-01

Misc : SOIL

Vial: 11

Operator: SG

Inst : GC/MS A

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 11 9:32 2018

Quant Results File: VA8S0828.RES

Quant Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration

DataAcq Meth : VA8S0828

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.36	168	802614	50.00	ug/l	-0.06
27) 1,4-Difluorobenzene	7.06	114	1474754	50.00	ug/l	-0.07
48) Chlorobenzene-d5	11.16	117	1142854	50.00	ug/l	-0.08
60) 1,4-Dichlorobenzene-d4	16.64	152	473924	50.00	ug/l	-0.13

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.33	65	448685	55.81	ug/l	0.00
Spiked Amount 50.000	Range	74 - 146	Recovery	=	111.62%	
41) Toluene-d8	8.96	98	1728856	50.69	ug/l	-0.07
Spiked Amount 50.000	Range	70 - 121	Recovery	=	101.38%	
47) Bromofluorobenzene	13.37	95	599415	48.13	ug/l	-0.10
Spiked Amount 50.000	Range	28 - 133	Recovery	=	96.26%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
15) Methylene Chloride	3.12	49	63251	1.45	ug/l	# 55

Data File : D:\A\DATA18\JAN18\A0110\A15027.D

Acq On : 10 Jan 2018 4:44 pm

Sample : 1800020-01

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 11 9:32 2018

Vial: 11

Operator: SG

Inst : GC/MS A

Multiplr: 1.00

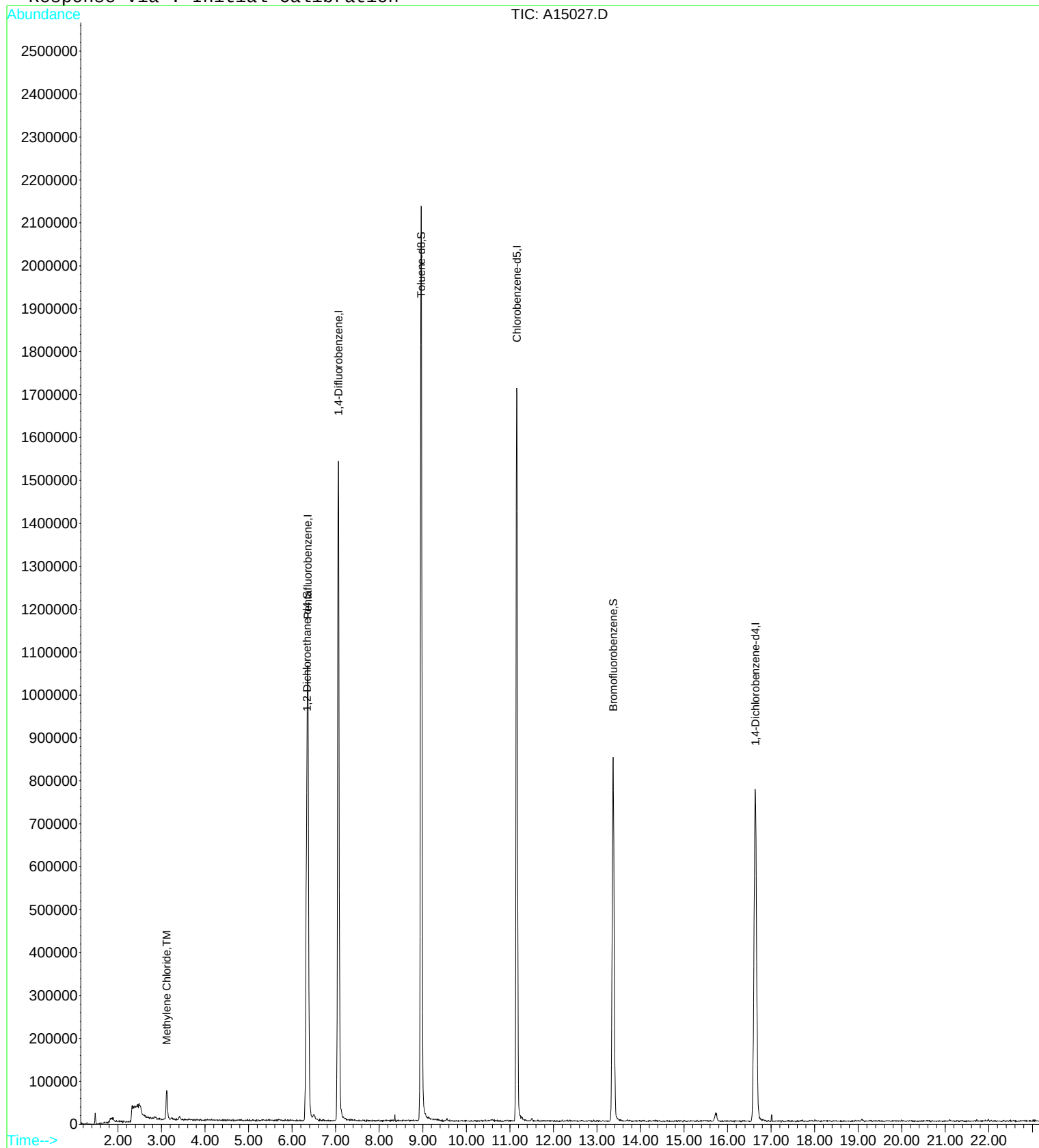
Quant Results File: VA8S0828.RES

Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration





VOLATILES QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1006-BLK1	File ID:	A15019.D
Batch:	B8A1006	Prepared:	01/10/18 12:20	Analyzed:	01/10/18 12:20
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S8A1004	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
76-13-1	Freon 113	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
79-20-9	Methyl Acetate	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
110-82-7	Cyclohexane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
75-65-0	t-Butyl alcohol	ND	5.00	20.0	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1006-BLK1	File ID:	A15019.D
Batch:	B8A1006	Prepared:	01/10/18 12:20	Analyzed:	01/10/18 12:20
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S8A1004	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
108-87-2	Methylcyclohexane	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Laboratory ID:	B8A1006-BLK1	File ID:	A15019.D
Batch:	B8A1006	Prepared:	01/10/18 12:20	Analyzed:	01/10/18 12:20
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S8A1004	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U
1634-04-4	Methyl tert-Butyl Ether	ND	2.00	4.00	U

Surrogate
% Recovery
Recovery Limits

1,2-Dichloroethane-d4
 Toluene-d8
 Bromofluorobenzene

102%
 95%
 90%

74-146
 70-121
 28-133

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\A\DATA18\JAN18\A0110\A15019.D

Vial: 3

Acq On : 10 Jan 2018 12:20 pm

Operator: SG

Sample : B8A1006-BLK1

Inst : GC/MS A

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 10 13:15 2018

Quant Results File: VA8S0828.RES

Quant Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration

DataAcq Meth : VA8S0828

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.36	168	998356	50.00	ug/l	-0.06
27) 1,4-Difluorobenzene	7.06	114	1660029	50.00	ug/l	-0.07
48) Chlorobenzene-d5	11.16	117	1258905	50.00	ug/l	-0.08
60) 1,4-Dichlorobenzene-d4	16.63	152	553269	50.00	ug/l	-0.14

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.33	65	463472	51.22	ug/l	0.00
Spiked Amount	50.000	Range	74 - 146	Recovery	=	102.44%
41) Toluene-d8	8.96	98	1825297	47.54	ug/l	-0.07
Spiked Amount	50.000	Range	70 - 121	Recovery	=	95.08%
47) Bromofluorobenzene	13.36	95	630463	44.98	ug/l	-0.11
Spiked Amount	50.000	Range	28 - 133	Recovery	=	89.96%

Target Compounds

Qvalue

Data File : D:\A\DATA18\JAN18\A0110\A15019.D

Acq On : 10 Jan 2018 12:20 pm

Sample : B8A1006-BLK1

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 10 13:15 2018

Vial: 3

Operator: SG

Inst : GC/MS A

Multiplr: 1.00

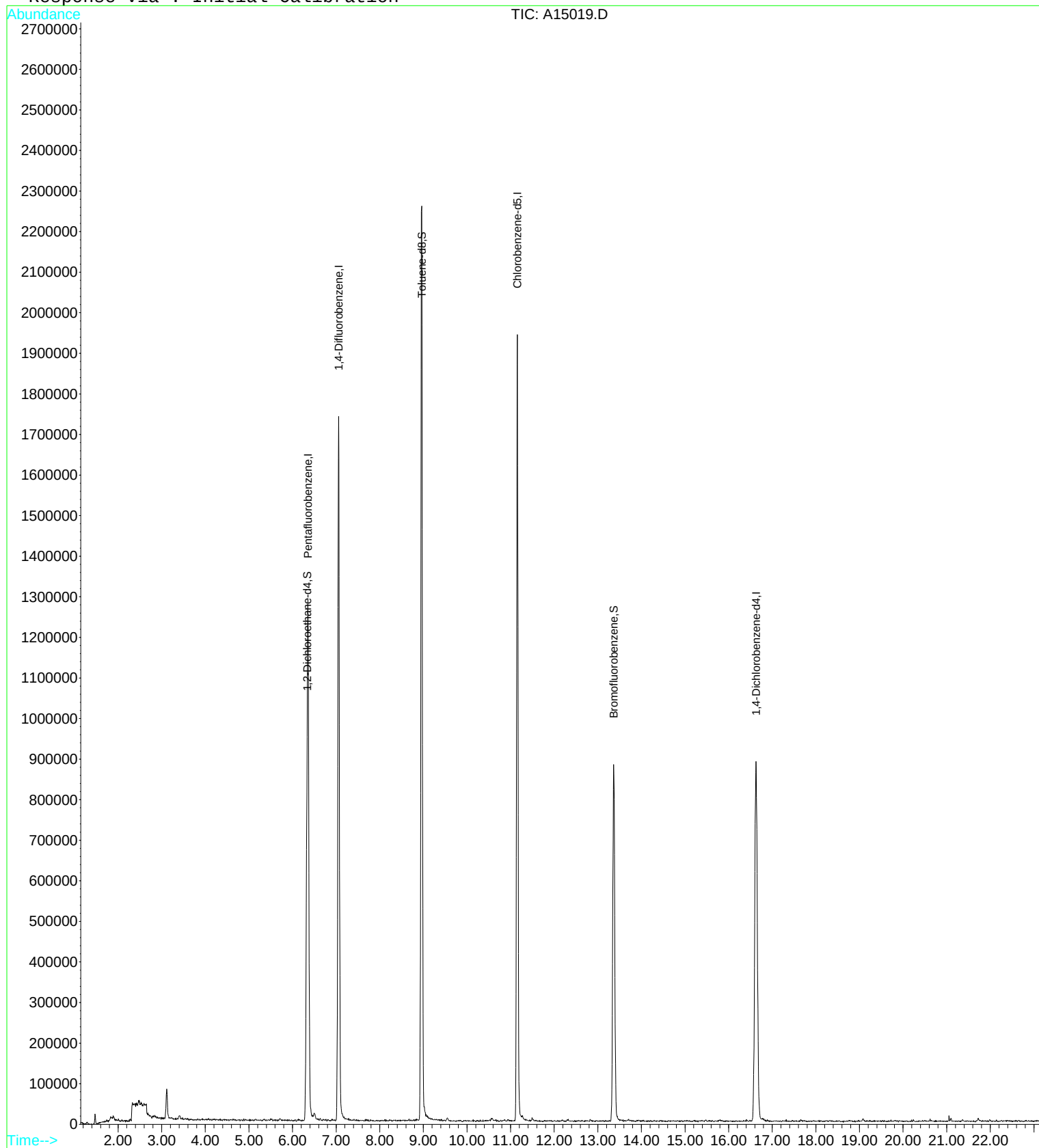
Quant Results File: VA8S0828.RES

Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration





VOLATILES QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**EPA 8260****Client: MADDOX MATERIALS**
Project: Trap Rock Industries Kingston
Work Order: 1800020**Matrix: Solid**
Instrument: GC/MS A

Lab Sample ID:	1,2-DCE-d4 (74% - 146%)	BFB (28% - 133%)	TOL-d8 (70% - 121%)
1800020-01	112	96	101
B8A1006-BLK1	102	90	95
B8A1006-BS1	105	95	102
B8A1006-MS1	110	98	101
B8A1006-MSD1	111	101	104



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MS1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Acrolein	277	ND	186	67	28 - 131
Acrylonitrile	277	ND	198	71	71 - 122
Acetone	55.5	ND	43.2	78	42 - 164
Dichlorodifluoromethane	55.5	ND	42.8	77	23 - 136
Chloromethane	55.5	ND	51.1	92	65 - 125
Vinyl chloride	55.5	ND	51.2	92	72 - 128
Bromomethane	55.5	ND	51.9	94	72 - 127
Chloroethane	55.5	ND	51.1	92	74 - 130
Trichlorofluoromethane	55.5	ND	52.6	95	70 - 138
Freon 113	55.5	ND	43.5	78	53 - 138
1,1-Dichloroethene	55.5	ND	46.4	84	56 - 127
Carbon disulfide	55.5	ND	36.9	66	34 - 129
Methyl Acetate	55.5	ND	48.2	87	64 - 123
Methylene Chloride	55.5	2.82	54.1	92	61 - 140
trans-1,2-Dichloroethene	55.5	ND	49.5	89	66 - 126
1,1-Dichloroethane	55.5	ND	50.2	90	73 - 123
2,2-Dichloropropane	55.5	ND	50.1	90	69 - 120
2-Butanone	55.5	ND	43.4	78	54 - 158
cis-1,2-Dichloroethene	55.5	ND	51.5	93	73 - 120
Chloroform	55.5	ND	51.0	92	72 - 119
Bromochloromethane	55.5	ND	45.8	83	74 - 117
Cyclohexane	55.5	ND	46.4	84	64 - 124
1,1,1-Trichloroethane	55.5	ND	47.2	85	72 - 120
t-Butyl alcohol	555	ND	529	95	74 - 134
1,1-Dichloropropene	55.5	ND	47.1	85	74 - 114
Carbon Tetrachloride	55.5	ND	45.8	82	71 - 116
1,2-Dichloroethane	55.5	ND	52.9	95	70 - 121
Benzene	55.5	ND	50.6	91	76 - 115



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MS1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Trichloroethene	55.5	ND	49.0	88	75 - 115
Methylcyclohexane	55.5	ND	44.9	81	72 - 117
1,2-Dichloropropane	55.5	ND	53.3	96	78 - 117
Bromodichloromethane	55.5	ND	50.7	91	74 - 119
Dibromomethane	55.5	ND	48.5	87	73 - 119
cis-1,3-Dichloropropene	55.5	ND	51.1	92	77 - 118
Toluene	55.5	ND	49.9	90	77 - 115
trans-1,3-Dichloropropene	55.5	ND	50.7	91	74 - 120
1,1,2-Trichloroethane	55.5	ND	49.5	89	77 - 118
4-Methyl-2-pentanone	55.5	ND	48.6	88	74 - 120
1,2-Dibromoethane	55.5	ND	49.5	89	76 - 118
2-Hexanone	55.5	ND	44.7	81	63 - 144
1,3-Dichloropropane	55.5	ND	51.5	93	77 - 114
Tetrachloroethene	55.5	ND	46.1	83	76 - 111
Dibromochloromethane	55.5	ND	50.2	90	75 - 119
Ethylbenzene	55.5	ND	51.1	92	78 - 116
Chlorobenzene	55.5	ND	50.1	90	80 - 112
1,1,1,2-Tetrachloroethane	55.5	ND	47.9	86	79 - 114
m,p-Xylenes	111	ND	104	93	79 - 113
o-Xylene	111	ND	102	92	83 - 111
Styrene	111	ND	98.1	88	82 - 112
Bromoform	55.5	ND	48.8	88	72 - 121
Isopropylbenzene	55.5	ND	49.7	90	78 - 115
1,1,2,2-Tetrachloroethane	55.5	ND	52.0	94	74 - 123
1,2,3-Trichloropropane	55.5	ND	51.3	92	73 - 122
n-Propyl Benzene	55.5	ND	50.9	92	78 - 116
Bromobenzene	55.5	ND	51.8	93	77 - 115
1,3,5-Trimethylbenzene	55.5	ND	49.8	90	78 - 116



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MS1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
2-Chlorotoluene	55.5	ND	50.8	91	77 - 115
4-Chlorotoluene	55.5	ND	51.9	94	77 - 116
tert-Butylbenzene	55.5	ND	48.6	87	79 - 116
1,2,4-Trimethylbenzene	55.5	ND	48.8	88	77 - 115
sec-Butylbenzene	55.5	ND	49.5	89	78 - 116
p-Isopropyltoluene	55.5	ND	49.0	88	79 - 117
1,3-Dichlorobenzene	55.5	ND	49.2	89	78 - 116
1,4-Dichlorobenzene	55.5	ND	49.3	89	78 - 115
n-Butyl Benzene	55.5	ND	51.9	93	78 - 120
1,2-Dichlorobenzene	55.5	ND	50.1	90	77 - 118
1,2-Dibromo-3-chloropropane	55.5	ND	48.5	87	64 - 125
1,2,4-Trichlorobenzene	55.5	ND	49.6	89	75 - 120
Hexachlorobutadiene	55.5	ND	48.5	87	74 - 125
Naphthalene	55.5	ND	49.7	90	67 - 122
1,2,3-Trichlorobenzene	55.5	ND	52.2	94	73 - 121
Methyl tert-Butyl Ether	111	ND	97.0	87	70 - 118

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MSD1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Acrolein	277	230	83	21	47	28 - 131
Acrylonitrile	277	226	81	13	21	71 - 122
Acetone	55.5	35.2	63	20	32	42 - 164
Dichlorodifluoromethane	55.5	43.1	78	0.8	21	23 - 136
Chloromethane	55.5	53.7	97	5	16	65 - 125
Vinyl chloride	55.5	54.8	99	7	15	72 - 128
Bromomethane	55.5	55.7	100	7	18	72 - 127
Chloroethane	55.5	56.1	101	9	16	74 - 130
Trichlorofluoromethane	55.5	54.3	98	3	20	70 - 138
Freon 113	55.5	49.8	90	14	22	53 - 138
1,1-Dichloroethene	55.5	52.1	94	12	18	56 - 127
Carbon disulfide	55.5	41.4	75	11	20	34 - 129
Methyl Acetate	55.5	56.7	102	16	39	64 - 123
Methylene Chloride	55.5	62.0	107	14	23	61 - 140
trans-1,2-Dichloroethene	55.5	55.7	100	12	18	66 - 126
1,1-Dichloroethane	55.5	58.4	105	15	18	73 - 123
2,2-Dichloropropane	55.5	56.6	102	12	18	69 - 120
2-Butanone	55.5	42.6	77	2	27	54 - 158
cis-1,2-Dichloroethene	55.5	59.4	107	14	19	73 - 120
Chloroform	55.5	58.9	106	14	18	72 - 119
Bromochloromethane	55.5	55.2	99	19	19	74 - 117
Cyclohexane	55.5	52.9	95	13	19	64 - 124
1,1,1-Trichloroethane	55.5	54.2	98	14	17	72 - 120
t-Butyl alcohol	55.5	61.8	111	16	25	74 - 134
1,1-Dichloropropene	55.5	52.0	94	10	18	74 - 114
Carbon Tetrachloride	55.5	50.0	90	9	18	71 - 116
1,2-Dichloroethane	55.5	59.3	107	11	19	70 - 121
Benzene	55.5	57.5	104	13	16	76 - 115



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MSD1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Trichloroethene	55.5	55.3	100	12	19	75 - 115
Methylcyclohexane	55.5	50.3	91	11	22	72 - 117
1,2-Dichloropropane	55.5	60.1	108	12	18	78 - 117
Bromodichloromethane	55.5	58.2	105	14	18	74 - 119
Dibromomethane	55.5	57.2	103	16	19	73 - 119
cis-1,3-Dichloropropene	55.5	58.8	106	14	18	77 - 118
Toluene	55.5	57.5	104	14	17	77 - 115
trans-1,3-Dichloropropene	55.5	58.8	106	15	18	74 - 120
1,1,2-Trichloroethane	55.5	57.1	103	14	21	77 - 118
4-Methyl-2-pentanone	55.5	56.3	101	15	22	74 - 120
1,2-Dibromoethane	55.5	55.9	101	12	20	76 - 118
2-Hexanone	55.5	46.8	84	5	27	63 - 144
1,3-Dichloropropane	55.5	58.5	105	13	20	77 - 114
Tetrachloroethene	55.5	50.4	91	9	17	76 - 111
Dibromochloromethane	55.5	56.5	102	12	19	75 - 119
Ethylbenzene	55.5	56.8	102	11	20	78 - 116
Chlorobenzene	55.5	57.3	103	14	16	80 - 112
1,1,1,2-Tetrachloroethane	55.5	55.4	100	15	18	79 - 114
m,p-Xylenes	111	116	104	11	16	79 - 113
o-Xylene	111	116	104	13	17	83 - 111
Styrene	111	111	100	12	17	82 - 112
Bromoform	55.5	54.2	98	11	20	72 - 121
Isopropylbenzene	55.5	56.4	102	13	20	78 - 115
1,1,2,2-Tetrachloroethane	55.5	58.9	106	12	29	74 - 123
1,2,3-Trichloropropane	55.5	60.0	108	16	30	73 - 122
n-Propyl Benzene	55.5	57.6	104	12	19	78 - 116
Bromobenzene	55.5	59.4	107	14	20	77 - 115
1,3,5-Trimethylbenzene	55.5	56.1	101	12	18	78 - 116



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MSD1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
2-Chlorotoluene	55.5	57.7	104	13	18	77 - 115
4-Chlorotoluene	55.5	58.6	106	12	17	77 - 116
tert-Butylbenzene	55.5	56.3	101	15	19	79 - 116
1,2,4-Trimethylbenzene	55.5	55.5	100	13	21	77 - 115
sec-Butylbenzene	55.5	56.3	102	13	19	78 - 116
p-Isopropyltoluene	55.5	55.4	100	12	19	79 - 117
1,3-Dichlorobenzene	55.5	56.5	102	14	17	78 - 116
1,4-Dichlorobenzene	55.5	56.5	102	14	17	78 - 115
n-Butyl Benzene	55.5	58.8	106	12	21	78 - 120
1,2-Dichlorobenzene	55.5	58.0	105	15	18	77 - 118
1,2-Dibromo-3-chloropropane	55.5	56.6	102	15	32	64 - 125
1,2,4-Trichlorobenzene	55.5	58.7	106	17	24	75 - 120
Hexachlorobutadiene	55.5	56.1	101	15	29	74 - 125
Naphthalene	55.5	57.1	103	14	23	67 - 122
1,2,3-Trichlorobenzene	55.5	60.3	109	14	24	73 - 121
Methyl tert-Butyl Ether	111	106	96	9	32	70 - 118

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 5035A
Prep Batch: B8A1006	Lab Sample ID: B8A1006-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	187	75	28 - 131
Acrylonitrile	250	196	78	71 - 122
Acetone	50.0	62.2	124	42 - 164
Dichlorodifluoromethane	50.0	44.4	89	23 - 136
Chloromethane	50.0	50.5	101	65 - 125
Vinyl chloride	50.0	52.2	104	72 - 128
Bromomethane	50.0	50.9	102	72 - 127
Chloroethane	50.0	49.6	99	74 - 130
Trichlorofluoromethane	50.0	50.2	100	70 - 138
Freon 113	50.0	45.2	90	53 - 138
1,1-Dichloroethene	50.0	49.1	98	56 - 127
Carbon disulfide	50.0	39.1	78	34 - 129
Methyl Acetate	50.0	50.8	102	64 - 123
Methylene Chloride	50.0	54.7	109	61 - 140
trans-1,2-Dichloroethene	50.0	51.3	103	66 - 126
1,1-Dichloroethane	50.0	51.7	103	73 - 123
2,2-Dichloropropane	50.0	50.4	101	69 - 120
2-Butanone	50.0	57.2	114	54 - 158
cis-1,2-Dichloroethene	50.0	52.9	106	73 - 120
Chloroform	50.0	51.6	103	72 - 119
Bromochloromethane	50.0	46.7	93	74 - 117
Cyclohexane	50.0	48.0	96	64 - 124
1,1,1-Trichloroethane	50.0	48.6	97	72 - 120
t-Butyl alcohol	500	560	112	74 - 134
1,1-Dichloropropene	50.0	47.4	95	74 - 114
Carbon Tetrachloride	50.0	47.3	95	71 - 116
1,2-Dichloroethane	50.0	50.2	100	70 - 121
Benzene	50.0	51.2	102	76 - 115



LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 5035A
Prep Batch: B8A1006	Lab Sample ID: B8A1006-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	49.1	98	75 - 115
Methylcyclohexane	50.0	46.3	93	72 - 117
1,2-Dichloropropane	50.0	51.8	104	78 - 117
Bromodichloromethane	50.0	50.9	102	74 - 119
Dibromomethane	50.0	46.5	93	73 - 119
cis-1,3-Dichloropropene	50.0	51.3	103	77 - 118
Toluene	50.0	50.3	101	77 - 115
trans-1,3-Dichloropropene	50.0	50.3	101	74 - 120
1,1,2-Trichloroethane	50.0	49.0	98	77 - 118
4-Methyl-2-pentanone	50.0	49.7	99	74 - 120
1,2-Dibromoethane	50.0	50.0	100	76 - 118
2-Hexanone	50.0	57.0	114	63 - 144
1,3-Dichloropropane	50.0	52.0	104	77 - 114
Tetrachloroethene	50.0	48.3	97	76 - 111
Dibromochloromethane	50.0	50.7	101	75 - 119
Ethylbenzene	50.0	53.6	107	78 - 116
Chlorobenzene	50.0	51.7	103	80 - 112
1,1,1,2-Tetrachloroethane	50.0	50.3	101	79 - 114
m,p-Xylenes	100	107	107	79 - 113
o-Xylene	100	104	104	83 - 111
Styrene	100	101	101	82 - 112
Bromoform	50.0	49.3	99	72 - 121
Isopropylbenzene	50.0	52.5	105	78 - 115
1,1,1,2-Tetrachloroethane	50.0	53.2	106	74 - 123
1,2,3-Trichloropropane	50.0	52.9	106	73 - 122
n-Propyl Benzene	50.0	53.2	106	78 - 116
Bromobenzene	50.0	53.4	107	77 - 115
1,3,5-Trimethylbenzene	50.0	52.0	104	78 - 116



LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 5035A
Prep Batch: B8A1006	Lab Sample ID: B8A1006-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2-Chlorotoluene	50.0	52.8	106	77 - 115
4-Chlorotoluene	50.0	53.6	107	77 - 116
tert-Butylbenzene	50.0	51.5	103	79 - 116
1,2,4-Trimethylbenzene	50.0	50.1	100	77 - 115
sec-Butylbenzene	50.0	52.9	106	78 - 116
p-Isopropyltoluene	50.0	51.6	103	79 - 117
1,3-Dichlorobenzene	50.0	50.3	101	78 - 116
1,4-Dichlorobenzene	50.0	50.2	100	78 - 115
n-Butyl Benzene	50.0	54.8	110	78 - 120
1,2-Dichlorobenzene	50.0	51.2	102	77 - 118
1,2-Dibromo-3-chloropropane	50.0	49.2	98	64 - 125
1,2,4-Trichlorobenzene	50.0	51.0	102	75 - 120
Hexachlorobutadiene	50.0	51.2	102	74 - 125
Naphthalene	50.0	50.4	101	67 - 122
1,2,3-Trichlorobenzene	50.0	52.0	104	73 - 121
Methyl tert-Butyl Ether	100	99.4	99	70 - 118

* Values outside of QC limits

**METHOD BLANK SUMMARY**

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Blank ID:	B8A1006-BLK1	Batch:	B8A1006
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A1006-BS1	A15020.D	01/10/2018 13:04
Matrix Spike	B8A1006-MS1	A15021.D	01/10/2018 13:44
Matrix Spike Dup	B8A1006-MSD1	A15022.D	01/10/2018 14:14
S-1	1800020-01	A15027.D	01/10/2018 16:44



INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Lab File ID:	A13550.D	Injection Date:	08/28/17
Instrument ID:	GC/MS A	Injection Time:	11:15
Sequence:	S7H2813	Lab Sample ID:	S7H2813-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	22.9	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.55	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	68.8	PASS
175	5 - 9% of 174	7.07	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	6.99	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
10 ppb 8260	S7H2813-CAL2	A13552.D	08/28/2017	12:04:00
20 ppb 8260	S7H2813-CAL3	A13553.D	08/28/2017	12:38:00
50 ppb 8260	S7H2813-CAL4	A13554.D	08/28/2017	13:17:00
100 ppb 8260	S7H2813-CAL5	A13555.D	08/28/2017	13:55:00
200 ppb 8260	S7H2813-CAL6	A13556.D	08/28/2017	14:27:00
2 ppb 8260	S7H2813-CAL1	A13558.D	08/28/2017	15:55:00



INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Lab File ID:	A15016.D	Injection Date:	01/10/18
Instrument ID:	GC/MS A	Injection Time:	10:54
Sequence:	S8A1004	Lab Sample ID:	S8A1004-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	22.9	PASS
75	30 - 60% of 95	43.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.93	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	66.7	PASS
175	5 - 9% of 174	7.92	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	6.65	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S8A1004-CCV1	A15017.D	01/10/2018	11:08:00
Blank	B8A1006-BLK1	A15019.D	01/10/2018	12:20:00
LCS	B8A1006-BS1	A15020.D	01/10/2018	13:04:00
Matrix Spike	B8A1006-MS1	A15021.D	01/10/2018	13:44:00
Matrix Spike Dup	B8A1006-MSD1	A15022.D	01/10/2018	14:14:00
S-1	1800020-01	A15027.D	01/10/2018	16:44:00



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston
Sequence: S8A1004

Instrument: GC/MS A
Calibration: 17H2802

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S8A1004-CCV1)			<i>Lab File ID: A15017.D</i>			<i>Analyzed: 01/10/18 11:08</i>			
Pentafluorobenzene	952765	6.35	1216779	6.37	78	50 - 200	-0.0200	+/-0.50	
1,4-Difluorobenzene	1627774	7.05	2031781	7.07	80	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	1274682	11.15	1601807	11.17	80	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	543196	16.63	700132	16.66	78	50 - 200	-0.0300	+/-0.50	
Blank (B8A1006-BLK1)			<i>Lab File ID: A15019.D</i>			<i>Analyzed: 01/10/18 12:20</i>			
Pentafluorobenzene	998356	6.36	952765	6.35	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1660029	7.06	1627774	7.05	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1258905	11.16	1274682	11.15	99	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	553269	16.63	543196	16.63	102	50 - 200	0.0000	+/-0.50	
LCS (B8A1006-BS1)			<i>Lab File ID: A15020.D</i>			<i>Analyzed: 01/10/18 13:04</i>			
Pentafluorobenzene	920651	6.35	952765	6.35	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1553977	7.05	1627774	7.05	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1172455	11.16	1274682	11.15	92	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	515174	16.63	543196	16.63	95	50 - 200	0.0000	+/-0.50	
Matrix Spike (B8A1006-MS1)			<i>Lab File ID: A15021.D</i>			<i>Analyzed: 01/10/18 13:44</i>			
Pentafluorobenzene	893129	6.35	952765	6.35	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1483521	7.05	1627774	7.05	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1150341	11.15	1274682	11.15	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	510408	16.63	543196	16.63	94	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B8A1006-MSD1)			<i>Lab File ID: A15022.D</i>			<i>Analyzed: 01/10/18 14:14</i>			
Pentafluorobenzene	791220	6.36	952765	6.35	83	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1344813	7.06	1627774	7.05	83	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1071870	11.16	1274682	11.15	84	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	468314	16.64	543196	16.63	86	50 - 200	0.0100	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston
Sequence: S8A1004

Instrument: GC/MS A
Calibration: 17H2802

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
S-1 (1800020-01)			<i>Lab File ID: A15027.D</i>			<i>Analyzed: 01/10/18 16:44</i>			
Pentafluorobenzene	802614	6.36	952765	6.35	84	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1474754	7.06	1627774	7.05	91	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1142854	11.16	1274682	11.15	90	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	473924	16.64	543196	16.63	87	50 - 200	0.0100	+/-0.50	

* Values outside of QC limits



VOLATILES CALIBRATION DATA

INITIAL CALIBRATION DATA

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 17H2802				Instrument: GC/MS A				Calibration Date: 8/28/2017 5:38:33PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acrolein	10	9.620158E-02	50	9.432861E-02	100	9.756044E-02	250	9.315562E-02	500	9.179113E-02	1000	0.0915263
Acrylonitrile	10	0.1934302	50	0.1865131	100	0.1958408	250	0.180463	500	0.1782551	1000	0.1787609
Acetone	2	0.3729263	10	0.2746268	20	0.2445802	50	0.2241088	100	0.2259281	200	0.214414
Dichlorodifluoromethane	2	0.4294328	10	0.5884355	20	0.5687742	50	0.5437193	100	0.4938995	200	0.4580362
Chloromethane	2	1.467212	10	1.51112	20	1.456614	50	1.376509	100	1.303123	200	1.174722
Vinyl chloride	2	1.168214	10	1.237942	20	1.179937	50	1.15347	100	1.087096	200	0.9843386
Bromomethane	2	0.7057092	10	0.6609966	20	0.6062543	50	0.5938177	100	0.5703627	200	0.5447824
Chloroethane	2	0.498349	10	0.4341814	20	0.4461965	50	0.4083069	100	0.3996862	200	0.3744227
Trichlorofluoromethane	2	0.8332104	10	0.8219627	20	0.792044	50	0.7356757	100	0.7231707	200	0.5524092
Freon 113	2	0.6801152	10	0.7019768	20	0.7133834	50	0.6943358	100	0.6449059	200	0.6468949
1,1-Dichloroethene	2	1.126054	10	1.193736	20	1.133918	50	1.09425	100	1.020154	200	0.9910786
Carbon disulfide	2	2.886027	10	2.988981	20	2.836655	50	2.70511	100	2.477541	200	2.254553
Methyl Acetate	2	0.5476011	10	0.4848326	20	0.4883487	50	0.4746727	100	0.4651592	200	0.4532008
Methylene Chloride	2	1.927333	10	1.366381	20	1.311892	50	1.191728	100	1.124206	200	1.064279
trans-1,2-Dichloroethene	2	1.086155	10	1.145204	20	1.14189	50	1.095545	100	1.053348	200	1.004315
1,1-Dichloroethane	2	1.347372	10	1.405592	20	1.379949	50	1.356504	100	1.282858	200	1.257398
Vinyl acetate	2	1.685046	10	1.774599	20	1.816986	50	1.727459	100	1.648069	200	1.585474
2,2-Dichloropropane	2	0.8573372	10	0.8807046	20	0.8755062	50	0.8735643	100	0.8297556	200	0.7918855
2-Butanone	2	0.3771852	10	0.3923082	20	0.3693214	50	0.3465679	100	0.3213479	200	0.3078201
cis-1,2-Dichloroethene	2	1.024758	10	1.048914	20	1.067969	50	1.011305	100	0.9610655	200	0.937103
Chloroform	2	0.9601207	10	0.971941	20	0.9770036	50	0.9421224	100	0.9118192	200	0.9109017
Bromochloromethane	2	0.3145451	10	0.2939523	20	0.2988073	50	0.2907015	100	0.2879937	200	0.2935871
Cyclohexane	2	1.799322	10	1.827666	20	1.772105	50	1.740415	100	1.62426	200	1.596658
1,1,1-Trichloroethane	2	0.7324443	10	0.7280226	20	0.7236873	50	0.7133555	100	0.6799517	200	0.6779715
t-Butyl alcohol	20	3.036636E-02	100	4.033207E-02	200	3.843447E-02	500	3.626904E-02	1000	3.549286E-02	2000	3.477442E-02

INITIAL CALIBRATION DATA

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 17H2802				Instrument: GC/MS A				Calibration Date: 8/28/2017 5:38:33PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,1-Dichloropropene	2	0.148034	10	0.169974	20	0.1701057	50	0.167259	100	0.1662501	200	0.1662543
Carbon Tetrachloride	2	0.3254077	10	0.3304711	20	0.3214298	50	0.3247904	100	0.3103665	200	0.3107867
1,2-Dichloroethane	2	0.3186658	10	0.3100916	20	0.3302423	50	0.3182596	100	0.3051901	200	0.302268
Benzene	2	1.587986	10	1.567144	20	1.563129	50	1.536752	100	1.452611	200	1.377731
Trichloroethene	2	0.3416257	10	0.3410734	20	0.347359	50	0.336673	100	0.3279245	200	0.3237029
Methylcyclohexane	2	0.8142309	10	0.7636989	20	0.7706896	50	0.7560513	100	0.7202266	200	0.7043224
1,2-Dichloropropane	2	0.4696963	10	0.4444234	20	0.4516604	50	0.4369562	100	0.4227378	200	0.406027
1,4-Dioxane	80	1.572479E-03	160	1.705361E-03	320	1.872357E-03	640	2.02203E-03	2000	2.179293E-03	5000	0
Bromodichloromethane	2	0.3729005	10	0.3995216	20	0.4026295	50	0.3972257	100	0.3807883	200	0.375783
Dibromomethane	2	0.1394319	10	0.1570842	20	0.1545836	50	0.1534498	100	0.1498939	200	0.1491041
2-Chloroethyl vinyl ether	2	0.1980488	10	0.1989613	20	0.2044266	50	0.1985321	100	0.1925673	200	0.1879883
cis-1,3-Dichloropropene	2	0.5561546	10	0.5831861	20	0.586435	50	0.5805499	100	0.5510375	200	0.5386781
Toluene	2	1.503113	10	1.415938	20	1.391122	50	1.336836	100	1.259617	200	1.153678
trans-1,3-Dichloropropene	2	0.4047621	10	0.4390575	20	0.4558365	50	0.4305982	100	0.4214546	200	0.4143951
1,1,2-Trichloroethane	2	0.2089731	10	0.2221848	20	0.219283	50	0.218006	100	0.2087253	200	0.2053214
4-Methyl-2-pentanone	2	0.3881945	10	0.3729292	20	0.3837126	50	0.3552844	100	0.3333058	200	0.3162054
1,2-Dibromoethane	2	0.2017693	10	0.2112676	20	0.2174902	50	0.2118391	100	0.2014951	200	0.1996885
2-Hexanone	2	0.3896083	10	0.4182886	20	0.4001294	50	0.3713345	100	0.3425272	200	0.3245245
1,3-Dichloropropane	2	0.6042473	10	0.601579	20	0.5870682	50	0.558811	100	0.5390325	200	0.5264592
Tetrachloroethene	2	0.4261365	10	0.4076298	20	0.4251183	50	0.4018094	100	0.3899473	200	0.3864269
Dibromochloromethane	2	0.2578604	10	0.2788475	20	0.2730697	50	0.2823182	100	0.27062	200	0.269729
Ethylbenzene	2	2.057816	10	2.031719	20	1.931592	50	1.878369	100	1.72747	200	1.618522
Chlorobenzene	2	1.050668	10	0.9869672	20	0.9586283	50	0.9583445	100	0.8985291	200	0.8822454
1,1,1,2-Tetrachloroethane	2	0.2735672	10	0.3209246	20	0.3016718	50	0.299323	100	0.2857821	200	0.2859354
m,p-Xylenes	4	1.588568	20	1.497614	40	1.423972	100	1.351841	200	1.218115	400	1.139121



INITIAL CALIBRATION DATA

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration: 17H2802				Instrument: GC/MS A				Calibration Date: 8/28/2017 5:38:33PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
o-Xylene	4	1.556018	20	1.509594	40	1.479024	100	1.430161	200	1.291528	400	1.198393
Styrene	4	1.178675	20	1.135645	40	1.110831	100	1.069181	200	1.024292	400	0.9626793
Bromoform	2	0.1394198	10	0.1684438	20	0.1623198	50	0.1617755	100	0.1594378	200	0.1603253
Isopropylbenzene	2	4.343262	10	4.144085	20	4.016164	50	3.953871	100	3.746998	200	3.617904
1,1,2,2-Tetrachloroethane	2	0.7860834	10	0.8188927	20	0.7887298	50	0.7687012	100	0.7350627	200	0.7270524
1,2,3-Trichloropropane	2	0.5174546	10	0.5969352	20	0.5607693	50	0.5377616	100	0.5276764	200	0.5157268
n-Propyl Benzene	2	6.033584	10	5.570193	20	5.345156	50	5.233387	100	4.958391	200	4.708405
Bromobenzene	2	1.746455	10	1.728248	20	1.670574	50	1.620875	100	1.552623	200	1.537506
1,3,5-Trimethylbenzene	2	3.308169	10	3.133387	20	3.083426	50	3.057839	100	2.913172	200	2.841547
2-Chlorotoluene	2	3.139254	10	2.923714	20	2.848838	50	2.747701	100	2.676183	200	2.640502
4-Chlorotoluene	2	3.18313	10	3.088594	20	2.949505	50	2.84136	100	2.759953	200	2.696174
tert-Butylbenzene	2	2.697404	10	2.612508	20	2.546541	50	2.513467	100	2.418057	200	2.421812
1,2,4-Trimethylbenzene	2	3.392276	10	3.167892	20	3.109442	50	3.022522	100	2.897799	200	2.854233
sec-Butylbenzene	2	4.553144	10	4.3522	20	4.245271	50	4.173432	100	3.98223	200	3.908217
p-Isopropyltoluene	2	3.368166	10	3.344808	20	3.269883	50	3.211549	100	3.111587	200	3.057879
1,3-Dichlorobenzene	2	1.684543	10	1.630388	20	1.543248	50	1.485793	100	1.509543	200	1.479768
1,4-Dichlorobenzene	2	1.614313	10	1.623181	20	1.541291	50	1.485793	100	1.450926	200	1.423127
n-Butyl Benzene	2	3.954379	10	3.784546	20	3.740438	50	3.613941	100	3.436004	200	3.271076
1,2-Dichlorobenzene	2	1.346346	10	1.345296	20	1.352927	50	1.311984	100	1.263282	200	1.244784
1,2-Dibromo-3-chloropropane	2	8.333456E-02	10	0.1030402	20	0.1080475	50	9.869054E-02	100	0.1010617	200	9.960194E-02
1,2,4-Trichlorobenzene	2	1.029609	10	0.9383149	20	0.9268181	50	0.8896814	100	0.8689809	200	0.855602
Hexachlorobutadiene	2	0.5573551	10	0.514645	20	0.5291395	50	0.5198222	100	0.4963479	200	0.4891389
Naphthalene	2	1.847127	10	1.487494	20	1.446563	50	1.348374	100	1.331165	200	1.346885
1,2,3-Trichlorobenzene	2	0.8099722	10	0.7349343	20	0.7509977	50	0.7298837	100	0.700038	200	0.6952175
Methyl tert-Butyl Ether	4	2.248579	20	2.239886	40	2.239771	100	2.130768	200	2.050503	400	1.953945


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INITIAL CALIBRATION DATA

EPA 8260

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration: 17H2802					Instrument: GC/MS A							
Calibration Date: 8/28/2017 5:38:33PM												
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,2-Dichloroethane-d4	2	0.2995264	10	0.2789437	20	0.2770242	50	0.2668134	100	0.2598492	200	0.2531828
Toluene-d8	2	1.291481	10	1.212092	20	1.192114	50	1.155849	100	1.071064	200	1.015675
Bromofluorobenzene	2	0.4870628	10	0.430374	20	0.4201056	50	0.4067737	100	0.3937719	200	0.3951471



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Calibration:	17H2802	Instrument:	GC/MS A
		Calibration Date:	8/28/2017 5:38:33PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Acrolein	A	9.409395E-02	2.572227				
Acrylonitrile	A	0.1855439	4.133535				
Acetone	Q	0.2594307			0.9998586		
Dichlorodifluoromethane	A	0.5137163	12.34556				
Chloromethane	A	1.38155	9.081903			SPCC (0.1)	
Vinyl chloride	A	1.135166	7.785566			CCC (20)	
Bromomethane	A	0.6136538	9.717885				
Chloroethane	A	0.4268571	10.14177				
Trichlorofluoromethane	A	0.7430788	13.92707				
Freon 113	A	0.6802687	4.224862				
1,1-Dichloroethene	A	1.093198	6.919554			CCC (20)	
Carbon disulfide	A	2.691478	10.30041				
Methyl Acetate	A	0.4856359	6.791599				
Methylene Chloride	Q	1.33097			0.9999328		
trans-1,2-Dichloroethene	A	1.087743	4.940554				
1,1-Dichloroethane	A	1.338279	4.265828			SPCC (0.1)	
Vinyl acetate	A	1.706272	4.959524				
2,2-Dichloropropane	A	0.8514589	4.060552				
2-Butanone	A	0.3524251	9.392814				
cis-1,2-Dichloroethene	A	1.008519	5.014873				
Chloroform	A	0.9456514	3.082341			CCC (20)	
Bromochloromethane	A	0.2965978	3.205082				
Cyclohexane	A	1.726738	5.501571				
1,1,1-Trichloroethane	A	0.7092388	3.426211				
t-Butyl alcohol	A	3.594487E-02	9.495249				
1,1-Dichloropropene	A	0.1646462	5.053491				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration:	17H2802	Instrument:	GC/MS A
		Calibration Date:	8/28/2017 5:38:33PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Carbon Tetrachloride	A	0.320542	2.571847				
1,2-Dichloroethane	A	0.3141196	3.290497				
Benzene	A	1.514225	5.411025				
Trichloroethene	A	0.3363931	2.666745				
Methylcyclohexane	A	0.7548699	5.167656				
1,2-Dichloropropane	A	0.4385835	5.084881			CCC (20)	
1,4-Dioxane	A	1.870304E-03	12.94319				
Bromodichloromethane	A	0.3881414	3.380906				
Dibromomethane	A	0.1505912	4.13099				
2-Chloroethyl vinyl ether	A	0.1967541	2.901477				
cis-1,3-Dichloropropene	A	0.5660069	3.526409				
Toluene	A	1.343384	9.183748			CCC (20)	
trans-1,3-Dichloropropene	A	0.427684	4.274743				
1,1,2-Trichloroethane	A	0.2137489	3.234388				
4-Methyl-2-pentanone	A	0.358272	8.050246				
1,2-Dibromoethane	A	0.2072583	3.49525				
2-Hexanone	A	0.3744021	9.505151				
1,3-Dichloropropane	A	0.5695329	5.791625				
Tetrachloroethene	A	0.406178	4.166212				
Dibromochloromethane	A	0.2720741	3.125035				
Ethylbenzene	A	1.874248	9.202392			CCC (20)	
Chlorobenzene	A	0.9558971	6.393604			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	A	0.294534	5.600477				
m,p-Xylenes	A	1.369872	12.3744				
o-Xylene	A	1.410786	9.781807				
Styrene	A	1.080217	7.261956				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: **MADDOX MATERIALS**
 Work Order: **1800020**
 Project: **Trap Rock Industries Kingston**

Calibration:	17H2802	Instrument:	GC/MS A
		Calibration Date:	8/28/2017 5:38:33PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Bromoform	A	0.1586203	6.256129			SPCC (0.1)	
Isopropylbenzene	A	3.970381	6.62285				
1,1,2,2-Tetrachloroethane	A	0.7707537	4.518111			SPCC (0.3)	
1,2,3-Trichloropropane	A	0.5427207	5.758112				
n-Propyl Benzene	A	5.308186	8.771307				
Bromobenzene	A	1.642713	5.342892				
1,3,5-Trimethylbenzene	A	3.056257	5.410602				
2-Chlorotoluene	A	2.829365	6.538382				
4-Chlorotoluene	A	2.919786	6.506037				
tert-Butylbenzene	A	2.534965	4.302089				
1,2,4-Trimethylbenzene	A	3.074027	6.397311				
sec-Butylbenzene	A	4.202416	5.662762				
p-Isopropyltoluene	A	3.227312	3.865259				
1,3-Dichlorobenzene	A	1.555547	5.387545				
1,4-Dichlorobenzene	A	1.523105	5.513665				
n-Butyl Benzene	A	3.633397	6.830347				
1,2-Dichlorobenzene	A	1.31077	3.553178				
1,2-Dibromo-3-chloropropane	A	9.896274E-02	8.433569				
1,2,4-Trichlorobenzene	A	0.9181677	6.896007				
Hexachlorobutadiene	A	0.5177414	4.722309				
Naphthalene	A	1.467935	13.35904				
1,2,3-Trichlorobenzene	A	0.7368406	5.657083				
Methyl tert-Butyl Ether	A	2.143909	5.687486				
1,2-Dichloroethane-d4	A	0.2725566	6.046405				
Toluene-d8	A	1.156379	8.622568				
Bromofluorobenzene	A	0.4222058	8.24323				



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Calibration Report

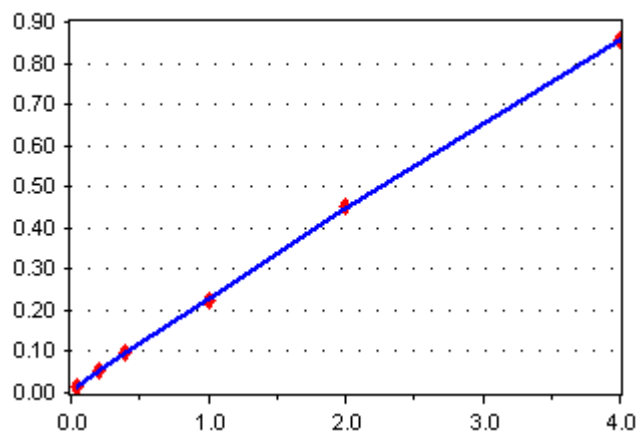
Printed: 08/28/2017 5:47 pm

Instrument: GC/MS A
Calibration ID: 17H2802

Calibration Date: 08/28/2017 17:38 By DSM
Last Edit Date: 08/28/2017 17:38 By DSM

Acetone

BTEX [8260] - Acetone



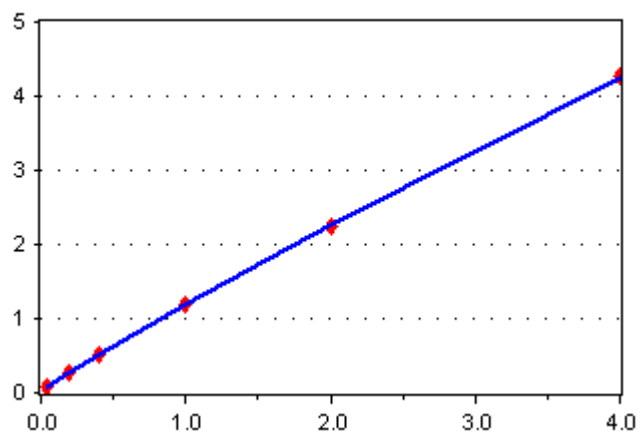
Quadratic Regression

COD: 0.9998586

$$[\text{Conc}] = 6.405767\text{E-}03 + 0.2282466 * [\text{Response}] + (-3.817761\text{E-}03) * [\text{Response}]^2$$

Methylene Chloride

BTEX [8260] - Methylene Chloride



Quadratic Regression

COD: 0.9999328

$$[\text{Conc}] = 4.514399\text{E-}02 + 1.164093 * [\text{Response}] + (-2.792973\text{E-}02) * [\text{Response}]^2$$



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	202	9.409395E-02	7.609431E-02		-19.1	20
Acrylonitrile	A	250	209	0.1855439	0.1551766		-16.4	20
Acetone	Q	50.0	50.7	0.2594307	0.2339727		1.4	20
Dichlorodifluoromethane	A	50.0	46.2	0.5137163	0.4742691		-7.7	20
Chloromethane	A	50.0	51.0	1.38155	1.409275	0.1	2.0	20
Vinyl chloride	A	50.0	52.8	1.135166	1.198197		5.6	20
Bromomethane	A	50.0	49.7	0.6136538	0.6100707		-0.6	20
Chloroethane	A	50.0	50.3	0.4268571	0.4295235		0.6	20
Trichlorofluoromethane	A	50.0	48.9	0.7430788	0.7272517		-2.1	20
Freon 113	A	50.0	50.3	0.6802687	0.6842474		0.6	20
1,1-Dichloroethene	A	50.0	57.8	1.093198	1.264556		15.7	20
Carbon disulfide	A	50.0	50.0	2.691478	2.689948		-0.06	20
Methyl Acetate	A	50.0	50.4	0.4856359	0.4893211		0.8	20
Methylene Chloride	Q	50.0	59.5	1.33097	1.390134		18.9	20
trans-1,2-Dichloroethene	A	50.0	58.1	1.087743	1.263138		16.1	20
1,1-Dichloroethane	A	50.0	58.4	1.338279	1.562224	0.1	16.7	20
Vinyl acetate	A	50.0	51.2	1.706272	1.74824		2.5	20
2,2-Dichloropropane	A	50.0	58.9	0.8514589	1.0036		17.9	20
2-Butanone	A	50.0	46.8	0.3524251	0.3295094		-6.5	20
cis-1,2-Dichloroethene	A	50.0	58.6	1.008519	1.182824		17.3	20
Chloroform	A	50.0	57.6	0.9456514	1.090179		15.3	20
Bromochloromethane	A	50.0	52.5	0.2965978	0.3115931		5.1	20
Cyclohexane	A	50.0	53.9	1.726738	1.86103		7.8	20



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	56.6	0.7092388	0.8029462		13.2	20
t-Butyl alcohol	A	500	483	3.594487E-02	3.474057E-02		-3.4	20
1,1-Dichloropropene	A	50.0	54.2	0.1646462	0.1783411		8.3	20
Carbon Tetrachloride	A	50.0	52.6	0.320542	0.3372575		5.2	20
1,2-Dichloroethane	A	50.0	56.1	0.3141196	0.3525029		12.2	20
Benzene	A	50.0	56.9	1.514225	1.724307		13.9	20
Trichloroethene	A	50.0	54.4	0.3363931	0.3657848		8.7	20
Methylcyclohexane	A	50.0	49.2	0.7548699	0.7435584		-1.5	20
1,2-Dichloropropane	A	50.0	57.2	0.4385835	0.5012766		14.3	20
Bromodichloromethane	A	50.0	56.0	0.3881414	0.4343318		11.9	20
Dibromomethane	A	50.0	51.1	0.1505912	0.1539618		2.2	20
cis-1,3-Dichloropropene	A	50.0	55.5	0.5660069	0.6281247		11.0	20
Toluene	A	50.0	55.6	1.343384	1.492831		11.1	20
trans-1,3-Dichloropropene	A	50.0	55.3	0.427684	0.4732844		10.7	20
1,1,2-Trichloroethane	A	50.0	52.5	0.2137489	0.2244704		5.0	20
4-Methyl-2-pentanone	A	50.0	47.6	0.358272	0.3413514		-4.7	20
1,2-Dibromoethane	A	50.0	51.2	0.2072583	0.2124582		2.5	20
2-Hexanone	A	50.0	46.5	0.3744021	0.3479566		-7.1	20
1,3-Dichloropropane	A	50.0	54.0	0.5695329	0.615155		8.0	20
Tetrachloroethene	A	50.0	51.9	0.406178	0.421928		3.9	20
Dibromochloromethane	A	50.0	52.3	0.2720741	0.2845408		4.6	20
Ethylbenzene	A	50.0	56.4	1.874248	2.113297		12.8	20
Chlorobenzene	A	50.0	54.5	0.9558971	1.042	0.3	9.0	20



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	52.5	0.294534	0.3093987		5.0	20
m,p-Xylenes	A	100	111	1.369872	1.525461		11.4	20
o-Xylene	A	100	107	1.410786	1.512624		7.2	20
Styrene	A	100	102	1.080217	1.101175		1.9	20
Bromoform	A	50.0	48.4	0.1586203	0.1536611	0.1	-3.1	20
Isopropylbenzene	A	50.0	56.8	3.970381	4.506824		13.5	20
1,1,2,2-Tetrachloroethane	A	50.0	53.0	0.7707537	0.8176441	0.3	6.1	20
1,2,3-Trichloropropane	A	50.0	53.6	0.5427207	0.5816814		7.2	20
n-Propyl Benzene	A	50.0	57.0	5.308186	6.051863		14.0	20
Bromobenzene	A	50.0	57.0	1.642713	1.871774		13.9	20
1,3,5-Trimethylbenzene	A	50.0	55.4	3.056257	3.383624		10.7	20
2-Chlorotoluene	A	50.0	57.0	2.829365	3.2284		14.1	20
4-Chlorotoluene	A	50.0	56.6	2.919786	3.30677		13.3	20
tert-Butylbenzene	A	50.0	55.1	2.534965	2.792257		10.1	20
1,2,4-Trimethylbenzene	A	50.0	54.2	3.074027	3.329977		8.3	20
sec-Butylbenzene	A	50.0	56.3	4.202416	4.734085		12.7	20
p-Isopropyltoluene	A	50.0	55.2	3.227312	3.564833		10.5	20
1,3-Dichlorobenzene	A	50.0	54.0	1.555547	1.681251		8.1	20
1,4-Dichlorobenzene	A	50.0	53.1	1.523105	1.6177		6.2	20
n-Butyl Benzene	A	50.0	58.3	3.633397	4.238551		16.7	20
1,2-Dichlorobenzene	A	50.0	52.8	1.31077	1.383534		5.6	20
1,2-Dibromo-3-chloropropane	A	50.0	49.6	9.896274E-02	9.814873E-02		-0.8	20
1,2,4-Trichlorobenzene	A	50.0	53.0	0.9181677	0.9727133		5.9	20



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Hexachlorobutadiene	A	50.0	54.2	0.5177414	0.5607792		8.3	20
Naphthalene	A	50.0	50.1	1.467935	1.470267		0.2	20
1,2,3-Trichlorobenzene	A	50.0	54.1	0.7368406	0.7967824		8.1	20
Methyl tert-Butyl Ether	A	100	103	2.143909	2.212263		3.2	20
1,2-Dichloroethane-d4	A	50.0	50.2	0.2725566	0.2738415		0.5	20
Toluene-d8	A	50.0	49.0	1.156379	1.133191		-2.0	20
Bromofluorobenzene	A	50.0	45.7	0.4222058	0.386193		-8.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



METALS



METALS SAMPLE DATA



ANALYSIS DATA SHEET

Inorganics

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled: 01/09/18 13:15	Matrix: Soil
Percent Solids: 94.30	File ID: 011118B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9480	11.5	11.5	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0757	0.0757	1	U	01/11/18 07:13	EPA 7471A	01/11/18 14:53 LIT	EPA 7471
7440-36-0	Antimony	ND	2.31	2.31	1	U	01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-38-2	Arsenic	0.584	0.577	0.577	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-39-3	Barium	13.1	11.5	11.5	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.288	0.288	1	U	01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-43-9	Cadmium	0.346	0.288	0.288	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-70-2	Calcium	5740	14.4	14.4	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-47-3	Chromium	31.8	1.15	1.15	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-48-4	Cobalt	8.71	2.88	2.88	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-50-8	Copper	62.6	1.73	1.73	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7439-89-6	Iron	11600	14.4	14.4	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7439-92-1	Lead	2.07	0.577	0.577	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7439-95-4	Magnesium	6360	28.8	28.8	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7439-96-5	Manganese	112	1.15	1.15	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-02-0	Nickel	27.7	2.31	2.31	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-09-7	Potassium	882	28.8	28.8	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7782-49-2	Selenium	ND	2.31	2.31	1	U	01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-22-4	Silver	ND	0.288	0.288	1	U	01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-23-5	Sodium	1280	28.8	28.8	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-28-0	Thallium	ND	0.865	1.73	1	U	01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-62-2	Vanadium	55.3	2.88	2.88	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010
7440-66-6	Zinc	16.5	3.46	3.46	1		01/11/18 07:06	EPA 3050B	01/11/18 15:58 LIT	EPA 6010

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected at the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



METALS QC SUMMARY



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B8A1104	Preparation:	EPA 3050B
% Solids:	92.00	Laboratory ID:	B8A1104-MS1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.	
Aluminum	136	4710	5660	*	696	75 - 125
Antimony	136	ND	127		93.6	75 - 125
Arsenic	136	3.85	139		99.8	75 - 125
Barium	136	16.6	152		99.7	75 - 125
Beryllium	136	0.367	124		90.7	75 - 125
Cadmium	136	0.460	115		84.3	75 - 125
Calcium	136	37800	41400	*	2620	75 - 125
Chromium	136	8.41	133		91.4	75 - 125
Cobalt	136	3.61	113		80.4	75 - 125
Copper	136	10.6	124		83.1	75 - 125
Lead	136	6.44	111		77.0	75 - 125
Magnesium	136	21600	24600	*	2270	75 - 125
Manganese	136	267	423		115	75 - 125
Nickel	136	8.04	116		79.1	75 - 125
Potassium	136	723	1280	*	413	75 - 125
Selenium	136	ND	122		89.7	75 - 125
Silver	13.6	ND	12.2		90.1	75 - 125
Sodium	136	66.0	218		112	75 - 125
Thallium	136	ND	94.4	*	69.5	75 - 125
Vanadium	136	13.1	147		98.6	75 - 125
Zinc	136	27.6	139		81.9	75 - 125



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B8A1104	Preparation:	EPA 3050B
% Solids:	92.00	Laboratory ID:	B8A1104-MSD1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
Aluminum	136	5610	662 *	0.819	20	75 - 125
Antimony	136	127	93.3	0.385	20	75 - 125
Arsenic	136	138	98.9	0.861	20	75 - 125
Barium	136	152	99.3	0.340	20	75 - 125
Beryllium	136	124	91.2	0.548	20	75 - 125
Cadmium	136	115	84.6	0.377	20	75 - 125
Calcium	136	36500	-940 *	12.4	20	75 - 125
Chromium	136	134	92.5	1.12	20	75 - 125
Cobalt	136	114	81.1	0.767	20	75 - 125
Copper	136	124	83.2	0.0220	20	75 - 125
Lead	136	111	77.3	0.367	20	75 - 125
Magnesium	136	20400	-882 *	19.0	20	75 - 125
Manganese	136	384	86.2	9.83	20	75 - 125
Nickel	136	116	79.6	0.563	20	75 - 125
Potassium	136	1150	314 *	11.1	20	75 - 125
Selenium	136	122	89.7	0.00	20	75 - 125
Silver	13.6	12.1	89.2	0.959	20	75 - 125
Sodium	136	207	104	5.25	20	75 - 125
Thallium	136	96.1	70.7 *	1.71	20	75 - 125
Vanadium	136	147	98.4	0.167	20	75 - 125
Zinc	136	137	80.6	1.32	20	75 - 125



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B8A1104	Preparation:	EPA 3050B
% Solids:	92.00	Laboratory ID:	B8A1104-MS2
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Iron	136	14900	14300 *	-450 *	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Iron	136	14600	-245 *	1.93	20	75 - 125

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
 Work Order: 1800020
 Project: Trap Rock Industries Kingston

Matrix:	Solid	Analysis:	EPA 7471
Batch:	B8A1105	Preparation:	EPA 7471A
% Solids:	92.00	Laboratory ID:	B8A1105-MS1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Mercury	2.17	ND	2.20	101	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Mercury	2.17	2.19	101	0.519	20	75 - 125

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix: Solid	Prep Method: EPA 3050B
Prep Batch: B8A1104	Lab Sample ID: B8A1104-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Aluminum	250	255	102	85 - 115
Antimony	250	256	103	85 - 115
Arsenic	250	259	103	85 - 115
Barium	250	266	107	85 - 115
Beryllium	250	265	106	85 - 115
Cadmium	250	261	105	85 - 115
Calcium	250	259	103	85 - 115
Chromium	250	257	103	85 - 115
Cobalt	250	260	104	85 - 115
Copper	250	257	103	85 - 115
Iron	250	264	106	85 - 115
Lead	250	262	105	85 - 115
Magnesium	250	255	102	85 - 115
Manganese	250	265	106	85 - 115
Nickel	250	259	103	85 - 115
Potassium	250	260	104	85 - 115
Selenium	250	251	101	85 - 115
Silver	25.0	23.4	93.7	85 - 115
Sodium	250	258	103	85 - 115
Thallium	250	264	106	85 - 115
Vanadium	250	259	104	85 - 115
Zinc	250	256	102	85 - 115

* Values outside of QC limits

**LCS / LCS DUPLICATE RECOVERY**

EPA 7471

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Prep Method:	EPA 7471A
Prep Batch:	B8A1105	Lab Sample ID:	B8A1105-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	2.00	1.98	99.1	85 - 115

* Values outside of QC limits



POST DIGEST SPIKE SAMPLE RECOVERY

1800019-01

Laboratory: Accredited Analytical Resources LLC	Work Order: 1800020
Client: MADDOX MATERIALS	Project: Trap Rock Industries Kingston
Matrix: Solid	Laboratory ID: B8A1104-PS1
Batch: B8A1104	Analysis: EPA 6010
Preparation: EPA 3050B	Initial/Final: 0.4 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Aluminum	169000	174000	5000	-94.0	80 - 120
Antimony	4590	ND	5000	91.6	80 - 120
Arsenic	5010	142	5000	97.3	80 - 120
Barium	5290	611	5000	93.6	80 - 120
Beryllium	4420	13.5	5000	88.2	80 - 120
Cadmium	4160	16.9	5000	82.8	80 - 120
Calcium	1310000	1390000	5000	-1600	80 - 120
Chromium	4730	310	5000	88.5	80 - 120
Cobalt	4100	133	5000	79.3	80 - 120
Copper	4500	388	5000	82.2	80 - 120
Lead	4070	237	5000	76.6	80 - 120
Magnesium	750000	794000	5000	-862	80 - 120
Manganese	13400	9810	5000	72.6	80 - 120
Nickel	4180	296	5000	77.6	80 - 120
Potassium	30700	26600	5000	82.8	80 - 120
Selenium	4410	ND	5000	88.1	80 - 120
Silver	433	ND	500	86.6	80 - 120
Sodium	7370	2430	5000	98.7	80 - 120
Thallium	3480	ND	5000	69.5	80 - 120
Vanadium	5210	480	5000	94.5	80 - 120
Zinc	5060	1020	5000	80.8	80 - 120


Accredited Analytical Resources, LLC.

20 Pershing Ave
 Carteret, New Jersey 07008
 Phone: 732-969-6112
 Fax: 732-541-1383
WWW.Accreditedanalytical.com

POST DIGEST SPIKE SAMPLE RECOVERY

1800019-01

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Matrix:	Solid	Laboratory ID:	B8A1104-PS2
Batch:	B8A1104	Analysis:	EPA 6010
Preparation:	EPA 3050B	Initial/Final:	0.4 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Iron	499000	548000	5000	-975	80 - 120

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
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SAMPLE EXTRACTION DATA

Prep Method: EPA 3050B-EPA 6010

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1800020-01 [S-1]	B8A1104	1.00/50.00	1.84	50.0	1.00	94.30		1/11/2018

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
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SAMPLE EXTRACTION DATA

Prep Method: EPA 7471A-EPA 7471

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1800020-01 [S-1]	B8A1105	0.10/25.00	0.105	25.0	1.00	94.30		1/11/2018



METALS CALIBRATION DATA

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
Carteret, New Jersey 07008
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METHOD DETECTION AND REPORTING LIMITS

EPA 7471

Client: MADDOX MATERIALS

Work Order: 1800020

Matrix: Solid

Instrument: Cetac

Analyte	MDL	MRL	Units	Method
Mercury	0.0750	0.0750	mg/kg	EPA 7471



METHOD DETECTION AND REPORTING LIMITS

EPA 6010

Client: MADDOX MATERIALS

Work Order: 1800020

Matrix: Solid

Instrument: Thermo iTEVA

Analyte	MDL	MRL	Units	Method
Aluminum	20.0	20.0	mg/kg	EPA 6010
Antimony	4.00	4.00	mg/kg	EPA 6010
Arsenic	1.00	1.00	mg/kg	EPA 6010
Barium	20.0	20.0	mg/kg	EPA 6010
Beryllium	0.500	0.500	mg/kg	EPA 6010
Cadmium	0.500	0.500	mg/kg	EPA 6010
Calcium	25.0	25.0	mg/kg	EPA 6010
Chromium	2.00	2.00	mg/kg	EPA 6010
Cobalt	5.00	5.00	mg/kg	EPA 6010
Copper	3.00	3.00	mg/kg	EPA 6010
Iron	25.0	25.0	mg/kg	EPA 6010
Lead	1.00	1.00	mg/kg	EPA 6010
Magnesium	50.0	50.0	mg/kg	EPA 6010
Manganese	2.00	2.00	mg/kg	EPA 6010
Nickel	4.00	4.00	mg/kg	EPA 6010
Potassium	50.0	50.0	mg/kg	EPA 6010
Selenium	4.00	4.00	mg/kg	EPA 6010
Silver	0.500	0.500	mg/kg	EPA 6010
Sodium	50.0	50.0	mg/kg	EPA 6010
Thallium	1.50	3.00	mg/kg	EPA 6010
Vanadium	5.00	5.00	mg/kg	EPA 6010
Zinc	6.00	6.00	mg/kg	EPA 6010



ANALYSIS SEQUENCE SUMMARY

EPA 7471

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A1105	Instrument:	Cetac
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	S8A1105-CAL1	Hg011118S-002	01/11/18 14:19
Cal Standard	S8A1105-CAL2	Hg011118S-003	01/11/18 14:21
Cal Standard	S8A1105-CAL3	Hg011118S-004	01/11/18 14:23
Cal Standard	S8A1105-CAL4	Hg011118S-005	01/11/18 14:25
Cal Standard	S8A1105-CAL5	Hg011118S-006	01/11/18 14:27
Cal Standard	S8A1105-CAL6	Hg011118S-007	01/11/18 14:29
Initial Cal Check	S8A1105-ICV1	Hg011118S-008	01/11/18 14:32
Initial Cal Blank	S8A1105-ICB1	Hg011118S-009	01/11/18 14:34
Instrument RL Check	S8A1105-CRL1	Hg011118S-010	01/11/18 14:36
Blank	B8A1105-BLK1	Hg011118S-011	01/11/18 14:38
LCS	B8A1105-BS1	Hg011118S-012	01/11/18 14:40
Matrix Spike	B8A1105-MS1	Hg011118S-014	01/11/18 14:44
Matrix Spike Dup	B8A1105-MSD1	Hg011118S-015	01/11/18 14:46
S-1	1800020-01	Hg011118S-018	01/11/18 14:53
Calibration Check	S8A1105-CCV1	Hg011118S-021	01/11/18 14:59
Calibration Blank	S8A1105-CCB1	Hg011118S-022	01/11/18 15:01
Instrument RL Check	S8A1105-CRL2	Hg011118S-027	01/11/18 15:12
Calibration Check	S8A1105-CCV2	Hg011118S-028	01/11/18 15:14
Calibration Blank	S8A1105-CCB2	Hg011118S-029	01/11/18 15:16



ANALYSIS SEQUENCE SUMMARY

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A1106	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S8A1106-ICV1	011118B-005	01/11/18 14:44
Initial Cal Blank	S8A1106-ICB1	011118B-006	01/11/18 14:49
Instrument RL Check	S8A1106-CRL1	011118B-007	01/11/18 14:54
Interference Check A	S8A1106-IFA1	011118B-008	01/11/18 15:00
Interference Check B	S8A1106-IFB1	011118B-009	01/11/18 15:05
Blank	B8A1104-BLK1	011118B-010	01/11/18 15:10
LCS	B8A1104-BS1	011118B-011	01/11/18 15:15
Serial Dilution	S8A1106-SRD1	011118B-013	01/11/18 15:26
Matrix Spike	B8A1104-MS1	011118B-014	01/11/18 15:31
Matrix Spike Dup	B8A1104-MSD1	011118B-015	01/11/18 15:36
Post Spike	B8A1104-PS1	011118B-016	01/11/18 15:42
S-1	1800020-01	011118B-019	01/11/18 15:58
Calibration Check	S8A1106-CCV1	011118B-020	01/11/18 16:03
Calibration Blank	S8A1106-CCB1	011118B-021	01/11/18 16:08
Serial Dilution	S8A1106-SRD2	011118B-029	01/11/18 16:49
Matrix Spike	B8A1104-MS2	011118B-030	01/11/18 16:54
Matrix Spike Dup	B8A1104-MSD2	011118B-031	01/11/18 16:59
Calibration Check	S8A1106-CCV2	011118B-032	01/11/18 17:04
Calibration Blank	S8A1106-CCB2	011118B-033	01/11/18 17:09
Post Spike	B8A1104-PS2	011118B-034	01/11/18 17:14
Calibration Check	S8A1106-CCV3	011118B-039	01/11/18 17:40
Calibration Blank	S8A1106-CCB3	011118B-040	01/11/18 17:45
Instrument RL Check	S8A1106-CRL2	011118B-041	01/11/18 17:50

**ANALYSIS SEQUENCE SUMMARY**

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston

Sequence:	S8A1106	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Interference Check A	S8A1106-IFA2	011118B-042	01/11/18 17:55
Interference Check B	S8A1106-IFB2	011118B-043	01/11/18 18:01

**INITIAL AND CONTINUING CALIBRATION CHECK**

EPA 7471

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1105
Instrument: Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1105-ICV1	Mercury	5.00	5.05	101	ug/L	+/- 10.00%
S8A1105-CCV1	Mercury	5.00	4.81	96.3	ug/L	+/- 10.00%
S8A1105-CCV2	Mercury	5.00	4.89	97.7	ug/L	+/- 10.00%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-ICV1	Aluminum	8000	8130	102	ug/L	+/- 10.00%
	Antimony	7500	7500	100	ug/L	+/- 10.00%
	Arsenic	7500	7500	100	ug/L	+/- 10.00%
	Barium	7500	7630	102	ug/L	+/- 10.00%
	Beryllium	7500	7490	99.8	ug/L	+/- 10.00%
	Cadmium	7500	7560	101	ug/L	+/- 10.00%
	Calcium	7500	7570	101	ug/L	+/- 10.00%
	Chromium	7500	7310	97.5	ug/L	+/- 10.00%
	Cobalt	7500	7570	101	ug/L	+/- 10.00%
	Copper	7500	7140	95.3	ug/L	+/- 10.00%
	Iron	7500	7530	100	ug/L	+/- 10.00%
	Lead	7500	7480	99.8	ug/L	+/- 10.00%
	Magnesium	7500	7630	102	ug/L	+/- 10.00%
	Manganese	7500	7610	101	ug/L	+/- 10.00%
	Nickel	7500	7400	98.6	ug/L	+/- 10.00%
	Potassium	7500	7360	98.2	ug/L	+/- 10.00%
	Selenium	7500	7470	99.5	ug/L	+/- 10.00%
	Silver	750	741	98.8	ug/L	+/- 10.00%
	Sodium	7500	7600	101	ug/L	+/- 10.00%
	Thallium	7500	7740	103	ug/L	+/- 10.00%
	Vanadium	7500	7440	99.3	ug/L	+/- 10.00%
	Zinc	7500	7340	97.9	ug/L	+/- 10.00%
S8A1106-CCV1	Aluminum	5000	4880	97.5	ug/L	+/- 10.00%
	Antimony	5000	4780	95.7	ug/L	+/- 10.00%
	Arsenic	5000	4890	97.8	ug/L	+/- 10.00%
	Barium	5000	4980	99.6	ug/L	+/- 10.00%
	Beryllium	5000	4890	97.8	ug/L	+/- 10.00%
	Cadmium	5000	4960	99.2	ug/L	+/- 10.00%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-CCV1	Calcium	5000	4990	99.8	ug/L	+/- 10.00%
	Chromium	5000	4850	97.1	ug/L	+/- 10.00%
	Cobalt	5000	4900	98.0	ug/L	+/- 10.00%
	Copper	5000	4870	97.4	ug/L	+/- 10.00%
	Iron	5000	5070	101	ug/L	+/- 10.00%
	Lead	5000	4930	98.5	ug/L	+/- 10.00%
	Magnesium	5000	5020	100	ug/L	+/- 10.00%
	Manganese	5000	4890	97.9	ug/L	+/- 10.00%
	Nickel	5000	4920	98.3	ug/L	+/- 10.00%
	Potassium	5000	4980	99.7	ug/L	+/- 10.00%
	Selenium	5000	4890	97.7	ug/L	+/- 10.00%
	Silver	500	476	95.2	ug/L	+/- 10.00%
	Sodium	5000	4920	98.5	ug/L	+/- 10.00%
	Thallium	5000	4920	98.5	ug/L	+/- 10.00%
	Vanadium	5000	4750	95.1	ug/L	+/- 10.00%
	Zinc	5000	5050	101	ug/L	+/- 10.00%
S8A1106-CCV2	Aluminum	5000	4880	97.6	ug/L	+/- 10.00%
	Antimony	5000	4880	97.6	ug/L	+/- 10.00%
	Arsenic	5000	4930	98.6	ug/L	+/- 10.00%
	Barium	5000	5030	101	ug/L	+/- 10.00%
	Beryllium	5000	4890	97.8	ug/L	+/- 10.00%
	Cadmium	5000	4940	98.9	ug/L	+/- 10.00%
	Calcium	5000	4930	98.7	ug/L	+/- 10.00%
	Chromium	5000	4920	98.4	ug/L	+/- 10.00%
	Cobalt	5000	4910	98.2	ug/L	+/- 10.00%
	Copper	5000	4890	97.8	ug/L	+/- 10.00%
	Iron	5000	4980	99.5	ug/L	+/- 10.00%
	Lead	5000	4940	98.9	ug/L	+/- 10.00%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-CCV2	Magnesium	5000	4900	98.1	ug/L	+/- 10.00%
	Manganese	5000	4950	98.9	ug/L	+/- 10.00%
	Nickel	5000	4930	98.5	ug/L	+/- 10.00%
	Potassium	5000	4960	99.1	ug/L	+/- 10.00%
	Selenium	5000	4960	99.2	ug/L	+/- 10.00%
	Silver	500	490	97.9	ug/L	+/- 10.00%
	Sodium	5000	4930	98.6	ug/L	+/- 10.00%
	Thallium	5000	4980	99.7	ug/L	+/- 10.00%
	Vanadium	5000	4880	97.5	ug/L	+/- 10.00%
	Zinc	5000	4960	99.3	ug/L	+/- 10.00%
S8A1106-CCV3	Aluminum	5000	4820	96.4	ug/L	+/- 10.00%
	Antimony	5000	4820	96.5	ug/L	+/- 10.00%
	Arsenic	5000	4870	97.3	ug/L	+/- 10.00%
	Barium	5000	5000	100	ug/L	+/- 10.00%
	Beryllium	5000	4850	97.0	ug/L	+/- 10.00%
	Cadmium	5000	4890	97.8	ug/L	+/- 10.00%
	Calcium	5000	4860	97.3	ug/L	+/- 10.00%
	Chromium	5000	4860	97.3	ug/L	+/- 10.00%
	Cobalt	5000	4850	97.1	ug/L	+/- 10.00%
	Copper	5000	4850	97.1	ug/L	+/- 10.00%
	Iron	5000	4910	98.2	ug/L	+/- 10.00%
	Lead	5000	4890	97.8	ug/L	+/- 10.00%
	Magnesium	5000	4900	98.0	ug/L	+/- 10.00%
	Manganese	5000	4870	97.4	ug/L	+/- 10.00%
	Nickel	5000	4880	97.5	ug/L	+/- 10.00%
	Potassium	5000	4930	98.7	ug/L	+/- 10.00%
	Selenium	5000	4900	97.9	ug/L	+/- 10.00%
	Silver	500	485	97.1	ug/L	+/- 10.00%

**INITIAL AND CONTINUING CALIBRATION CHECK**

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-CCV3	Sodium	5000	4860	97.2	ug/L	+/- 10.00%
	Thallium	5000	4940	98.8	ug/L	+/- 10.00%
	Vanadium	5000	4790	95.9	ug/L	+/- 10.00%
	Zinc	5000	4910	98.2	ug/L	+/- 10.00%

**BLANKS**

EPA 7471

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1105
Instrument Cetac

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1105-ICB1	Mercury	0.0790	ug/L	0.300	U
B8A1105-BLK1	Mercury	ND	mg/kg wet	0.0750	U
S8A1105-CCB1	Mercury	0.0690	ug/L	0.300	U
S8A1105-CCB2	Mercury	0.0830	ug/L	0.300	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-ICB1	Aluminum	1.63	ug/L	400	U
	Antimony	2.80	ug/L	80.0	U
	Arsenic	0.870	ug/L	20.0	U
	Barium	0.171	ug/L	400	U
	Beryllium	0.113	ug/L	10.0	U
	Cadmium	0.306	ug/L	10.0	U
	Calcium	6.20	ug/L	500	U
	Chromium	0.00520	ug/L	40.0	U
	Cobalt	0.255	ug/L	100	U
	Copper	0.199	ug/L	60.0	U
	Iron	-0.261	ug/L	500	U
	Lead	1.25	ug/L	20.0	U
	Magnesium	-4.17	ug/L	1000	U
	Manganese	0.183	ug/L	40.0	U
	Nickel	0.244	ug/L	80.0	U
	Potassium	-4.80	ug/L	1000	U
	Selenium	2.05	ug/L	80.0	U
	Silver	0.258	ug/L	10.0	U
	Sodium	-2.44	ug/L	1000	U
	Thallium	2.83	ug/L	60.0	U
	Vanadium	0.0912	ug/L	100	U
	Zinc	-0.104	ug/L	120	U
B8A1104-BLK1	Aluminum	ND	mg/kg wet	10.0	U
	Antimony	ND	mg/kg wet	2.00	U
	Arsenic	ND	mg/kg wet	0.500	U
	Barium	ND	mg/kg wet	10.0	U
	Beryllium	ND	mg/kg wet	0.250	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
B8A1104-BLK1	Cadmium	ND	mg/kg wet	0.250	U
	Calcium	ND	mg/kg wet	12.5	U
	Chromium	ND	mg/kg wet	1.00	U
	Cobalt	ND	mg/kg wet	2.50	U
	Copper	ND	mg/kg wet	1.50	U
	Iron	ND	mg/kg wet	12.5	U
	Lead	ND	mg/kg wet	0.500	U
	Magnesium	ND	mg/kg wet	25.0	U
	Manganese	ND	mg/kg wet	1.00	U
	Nickel	ND	mg/kg wet	2.00	U
	Potassium	ND	mg/kg wet	25.0	U
	Selenium	ND	mg/kg wet	2.00	U
	Silver	ND	mg/kg wet	0.250	U
	Sodium	ND	mg/kg wet	25.0	U
	Thallium	ND	mg/kg wet	1.50	U
	Vanadium	ND	mg/kg wet	2.50	U
	Zinc	ND	mg/kg wet	3.00	U
S8A1106-CCB1	Aluminum	-1.54	ug/L	400	U
	Antimony	2.00	ug/L	80.0	U
	Arsenic	0.821	ug/L	20.0	U
	Barium	-0.277	ug/L	400	U
	Beryllium	-0.156	ug/L	10.0	U
	Cadmium	-0.198	ug/L	10.0	U
	Calcium	1.60	ug/L	500	U
	Chromium	-0.328	ug/L	40.0	U
	Cobalt	-0.218	ug/L	100	U
	Copper	-0.171	ug/L	60.0	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-CCB1	Iron	4.17	ug/L	500	U
	Lead	0.758	ug/L	20.0	U
	Magnesium	-9.57	ug/L	1000	U
	Manganese	-0.318	ug/L	40.0	U
	Nickel	-0.428	ug/L	80.0	U
	Potassium	31.4	ug/L	1000	U
	Selenium	0.964	ug/L	80.0	U
	Silver	0.268	ug/L	10.0	U
	Sodium	47.4	ug/L	1000	U
	Thallium	-0.496	ug/L	60.0	U
	Vanadium	-0.0893	ug/L	100	U
	Zinc	-0.547	ug/L	120	U
S8A1106-CCB2	Aluminum	-0.756	ug/L	400	U
	Antimony	0.183	ug/L	80.0	U
	Arsenic	1.09	ug/L	20.0	U
	Barium	-0.211	ug/L	400	U
	Beryllium	-0.201	ug/L	10.0	U
	Cadmium	-0.174	ug/L	10.0	U
	Calcium	2.77	ug/L	500	U
	Chromium	-0.256	ug/L	40.0	U
	Cobalt	-0.130	ug/L	100	U
	Copper	-0.402	ug/L	60.0	U
	Iron	2.17	ug/L	500	U
	Lead	1.57	ug/L	20.0	U
	Magnesium	-11.9	ug/L	1000	U
	Manganese	-0.0388	ug/L	40.0	U
	Nickel	-0.440	ug/L	80.0	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-CCB2	Potassium	15.0	ug/L	1000	U
	Selenium	1.95	ug/L	80.0	U
	Silver	0.779	ug/L	10.0	U
	Sodium	27.5	ug/L	1000	U
	Thallium	0.639	ug/L	60.0	U
	Vanadium	-0.249	ug/L	100	U
	Zinc	-0.478	ug/L	120	U
S8A1106-CCB3	Aluminum	-3.66	ug/L	400	U
	Antimony	0.00480	ug/L	80.0	U
	Arsenic	-0.226	ug/L	20.0	U
	Barium	-0.244	ug/L	400	U
	Beryllium	-0.154	ug/L	10.0	U
	Cadmium	-0.132	ug/L	10.0	U
	Calcium	3.47	ug/L	500	U
	Chromium	-0.193	ug/L	40.0	U
	Cobalt	-0.165	ug/L	100	U
	Copper	0.0328	ug/L	60.0	U
	Iron	1.29	ug/L	500	U
	Lead	1.01	ug/L	20.0	U
	Magnesium	-12.7	ug/L	1000	U
	Manganese	-0.261	ug/L	40.0	U
	Nickel	-0.470	ug/L	80.0	U
	Potassium	9.20	ug/L	1000	U
	Selenium	2.36	ug/L	80.0	U
	Silver	0.387	ug/L	10.0	U
	Sodium	21.1	ug/L	1000	U
	Thallium	-0.246	ug/L	60.0	U

**Accredited Analytical Resources, LLC.**

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BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-CCB3	Vanadium	-0.820	ug/L	100	U
	Zinc	-0.396	ug/L	120	U

**Accredited Analytical Resources, LLC.**

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CRDL STANDARD**EPA 7471**

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Calibration: UNASSIGNED
Sequence: S8A1105
Instrument: Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S8A1105-CRL1	Mercury	0.300	0.316	105	ug/L	70 - 130
S8A1105-CRL2	Mercury	0.300	0.319	106	ug/L	70 - 130



CRDL STANDARD

EPA 6010

Client:	MADDOX MATERIALS	Calibration:	UNASSIGNED
Project:	Trap Rock Industries Kingston	Sequence:	S8A1106
Work Order:	1800020	Instrument	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S8A1106-CRL1	Aluminum	400	405	101	ug/L	70 - 130
	Antimony	80.0	83.0	104	ug/L	70 - 130
	Arsenic	20.0	20.3	101	ug/L	70 - 130
	Barium	400	412	103	ug/L	70 - 130
	Beryllium	10.0	10.2	102	ug/L	70 - 130
	Cadmium	10.0	10.4	104	ug/L	70 - 130
	Calcium	1000	1040	104	ug/L	70 - 130
	Chromium	40.0	40.8	102	ug/L	70 - 130
	Cobalt	100	104	104	ug/L	70 - 130
	Copper	60.0	62.6	104	ug/L	70 - 130
	Iron	500	511	102	ug/L	70 - 130
	Lead	20.0	21.0	105	ug/L	70 - 130
	Magnesium	1000	993	99.3	ug/L	70 - 130
	Manganese	40.0	43.6	109	ug/L	70 - 130
	Nickel	80.0	86.0	107	ug/L	70 - 130
	Potassium	1000	992	99.2	ug/L	70 - 130
	Selenium	80.0	87.1	109	ug/L	70 - 130
	Silver	10.0	11.0	110	ug/L	70 - 130
	Sodium	1000	1010	101	ug/L	70 - 130
	Thallium	30.0	33.8	113	ug/L	70 - 130
	Vanadium	100	100	100	ug/L	70 - 130
	Zinc	120	127	106	ug/L	70 - 130
S8A1106-CRL2	Aluminum	400	387	96.7	ug/L	70 - 130
	Antimony	80.0	82.3	103	ug/L	70 - 130
	Arsenic	20.0	20.1	101	ug/L	70 - 130
	Barium	400	412	103	ug/L	70 - 130



CRDL STANDARD

EPA 6010

Client:	MADDOX MATERIALS	Calibration:	UNASSIGNED
Project:	Trap Rock Industries Kingston	Sequence:	S8A1106
Work Order:	1800020	Instrument	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
S8A1106-CRL2	Beryllium	10.0	9.82	98.2	ug/L	70 - 130
	Cadmium	10.0	10.2	102	ug/L	70 - 130
	Calcium	1000	999	99.9	ug/L	70 - 130
	Chromium	40.0	42.8	107	ug/L	70 - 130
	Cobalt	100	102	102	ug/L	70 - 130
	Copper	60.0	62.2	104	ug/L	70 - 130
	Iron	500	513	103	ug/L	70 - 130
	Lead	20.0	21.2	106	ug/L	70 - 130
	Magnesium	1000	982	98.2	ug/L	70 - 130
	Manganese	40.0	42.8	107	ug/L	70 - 130
	Nickel	80.0	85.0	106	ug/L	70 - 130
	Potassium	1000	991	99.1	ug/L	70 - 130
	Selenium	80.0	84.0	105	ug/L	70 - 130
	Silver	10.0	10.9	109	ug/L	70 - 130
	Sodium	1000	1000	100	ug/L	70 - 130
	Thallium	30.0	33.1	110	ug/L	70 - 130
	Vanadium	100	97.9	97.9	ug/L	70 - 130
	Zinc	120	124	103	ug/L	70 - 130



SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Matrix:	Solid	Laboratory ID:	S8A1106-SRD1
Sequence:	S8A1106	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Magnesium	21600	21800	0.878		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	3.85	3.67	4.70		10.00
Barium	16.6	ND	N/A		10.00
Beryllium	0.367	ND	N/A		10.00
Cadmium	0.460	ND	N/A		10.00
Calcium	37800	42500	11.6	*	10.00
Chromium	8.41	8.41	0.0162		10.00
Cobalt	3.61	ND	N/A		10.00
Aluminum	4710	4540	3.67		10.00
Lead	6.44	7.38	13.6	*	10.00
Manganese	267	281	5.10		10.00
Nickel	8.04	ND	N/A		10.00
Potassium	723	693	4.17		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	66.0	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	13.1	ND	N/A		10.00
Zinc	27.6	30.8	10.7	*	10.00
Copper	10.6	11.1	5.25		10.00

* Values outside of QC limits

**SERIAL DILUTION****EPA 6010**

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800020
Client:	MADDOX MATERIALS	Project:	Trap Rock Industries Kingston
Matrix:	Solid	Laboratory ID:	S8A1106-SRD2
Sequence:	S8A1106	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Iron	14900	14800	0.274		10.00

* Values outside of QC limits



INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFA1	Aluminum	20.00	250000	261,900.00	105	ug/L
	Antimony	4.00		0.79		ug/L
	Arsenic	1.00		-1.69		ug/L
	Barium	20.00		0.32		ug/L
	Beryllium	0.50		0.12		ug/L
	Cadmium	0.50		0.07		ug/L
	Calcium	25.00	250000	242,800.00	97.1	ug/L
	Chromium	2.00		0.42		ug/L
	Cobalt	5.00		1.48		ug/L
	Copper	3.00		-0.83		ug/L
	Iron	25.00	100000	99,270.00	99.3	ug/L
	Lead	1.00		3.49		ug/L
	Magnesium	50.00	250000	256,500.00	103	ug/L
	Manganese	2.00		0.58		ug/L
	Nickel	4.00		-1.33		ug/L
	Potassium	50.00		48.03		ug/L
	Selenium	4.00		2.70		ug/L
	Silver	0.50		-0.32		ug/L
	Sodium	50.00		48.87		ug/L
	Thallium	3.00		0.16		ug/L
	Vanadium	5.00		2.17		ug/L
	Zinc	6.00		0.84		ug/L
S8A1106-IFB1	Aluminum	20.00	250000	255,900.00	102	ug/L
	Antimony	4.00	250	256.60	103	ug/L
	Arsenic	1.00	250	265.40	106	ug/L
	Barium	20.00	250	268.50	107	ug/L
	Beryllium	0.50	250	264.00	106	ug/L
	Cadmium	0.50	250	255.20	102	ug/L



INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFB1	Calcium	25.00	250000	233,300.00	93.3	ug/L
	Chromium	2.00	250	261.70	105	ug/L
	Cobalt	5.00	250	247.60	99.0	ug/L
	Copper	3.00	250	245.90	98.4	ug/L
	Iron	25.00	100000	97,260.00	97.3	ug/L
	Lead	1.00	250	244.90	98.0	ug/L
	Magnesium	50.00	250000	252,500.00	101	ug/L
	Manganese	2.00	250	266.20	106	ug/L
	Nickel	4.00	250	242.30	96.9	ug/L
	Potassium	50.00	1000	1,065.00	106	ug/L
	Selenium	4.00	250	243.00	97.2	ug/L
	Silver	0.50	250	259.80	104	ug/L
	Sodium	50.00	1000	1,021.00	102	ug/L
	Thallium	3.00	250	232.00	92.8	ug/L
	Vanadium	5.00	250	268.10	107	ug/L
	Zinc	6.00	250	254.00	102	ug/L
S8A1106-IFA2	Aluminum	20.00	250000	256,700.00	103	ug/L
	Antimony	4.00		1.49		ug/L
	Arsenic	1.00		-0.42		ug/L
	Barium	20.00		0.30		ug/L
	Beryllium	0.50		0.14		ug/L
	Cadmium	0.50		-0.33		ug/L
	Calcium	25.00	250000	232,800.00	93.1	ug/L
	Chromium	2.00		-0.18		ug/L
	Cobalt	5.00		1.57		ug/L
	Copper	3.00		-1.09		ug/L
	Iron	25.00	100000	97,410.00	97.4	ug/L
	Lead	1.00		3.32		ug/L



INTERFERENCE CHECK SAMPLE

EPA 6010

Client:	MADDOX MATERIALS	Calibration:	UNASSIGNED
Project:	Trap Rock Industries Kingston	Sequence:	S8A1106
Work Order:	1800020	Instrument	Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFA2	Magnesium	50.00	250000	250,300.00	100	ug/L
	Manganese	2.00		0.55		ug/L
	Nickel	4.00		-1.22		ug/L
	Potassium	50.00		-16.12		ug/L
	Selenium	4.00		6.04		ug/L
	Silver	0.50		-0.68		ug/L
	Sodium	50.00		74.58		ug/L
	Thallium	3.00		0.60		ug/L
	Vanadium	5.00		2.12		ug/L
	Zinc	6.00		1.42		ug/L
S8A1106-IFB2	Aluminum	20.00	250000	256,500.00	103	ug/L
	Antimony	4.00	250	254.90	102	ug/L
	Arsenic	1.00	250	267.60	107	ug/L
	Barium	20.00	250	274.30	110	ug/L
	Beryllium	0.50	250	263.10	105	ug/L
	Cadmium	0.50	250	254.50	102	ug/L
	Calcium	25.00	250000	233,600.00	93.4	ug/L
	Chromium	2.00	250	264.10	106	ug/L
	Cobalt	5.00	250	247.40	99.0	ug/L
	Copper	3.00	250	247.70	99.1	ug/L
	Iron	25.00	100000	97,850.00	97.8	ug/L
	Lead	1.00	250	245.50	98.2	ug/L
	Magnesium	50.00	250000	252,700.00	101	ug/L
	Manganese	2.00	250	266.00	106	ug/L
	Nickel	4.00	250	242.60	97.0	ug/L
	Potassium	50.00	1000	1,025.00	102	ug/L
	Selenium	4.00	250	244.50	97.8	ug/L
	Silver	0.50	250	263.90	106	ug/L

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
Carteret, New Jersey 07008
Phone: 732-969-6112
Fax: 732-541-1383
WWW.Accreditedanalytical.com

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFB2	Sodium	50.00	1000	1,052.00	105	ug/L
	Thallium	3.00	250	230.40	92.2	ug/L
	Vanadium	5.00	250	267.30	107	ug/L
	Zinc	6.00	250	254.60	102	ug/L



WET CHEMISTRY



WET CHEMISTRY SAMPLE DATA



ANALYSIS DATA SHEET

Inorganics

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800020-01
Project: Trap Rock Industries Kingston
Work Order: 1800020

Date Sampled:	01/09/18 13:15	Matrix:	Soil
Percent Solids:	94.30	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.06	1.06	1	U	01/11/18 11:00	EPA 9010C	01/12/18 13:50 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	94.3	0.100	0.100	1		01/12/18 08:43	Percent Solids	01/12/18 13:56 KMC	SM 2540 G

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected at the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



WET CHEMISTRY QC DATA

**INITIAL AND CONTINUING CALIBRATION CHECK**

EPA 9014

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1209
Instrument: DR4000

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1209-CCV1	Cyanide (total)	0.200	0.205	103	mg/L	+/- 10.00%
S8A1209-CCV2	Cyanide (total)	0.200	0.200	99.9	mg/L	+/- 10.00%
S8A1209-ICV1	Cyanide (total)	0.100	0.106	106	mg/L	+/- 10.00%

**Accredited Analytical Resources, LLC.**

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Carteret, New Jersey 07008
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WWW.Accreditedanalytical.com

CRDL STANDARD**EPA 9014**

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Calibration: 18A1203
Sequence: S8A1209
Instrument DR4000

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S8A1209-CRL1	Cyanide (total)	0.0100	0.00947	94.7	mg/L	0 - 200

**BLANKS**

EPA 9014

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Sequence: S8A1209
Instrument DR4000

Lab Sample ID	Analyte	Found	Units	RL	Q
B8A1111-BLK1	Cyanide (total)	ND	mg/kg wet	1.00	U
S8A1209-CCB1	Cyanide (total)	-0.00107	mg/L	0.00500	U
S8A1209-CCB2	Cyanide (total)	-0.000859	mg/L	0.00500	U
S8A1209-ICB1	Cyanide (total)	-0.00107	mg/L	0.00500	U



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Work Order: 1800020
Project: Trap Rock Industries Kingston

Matrix:	Solid	Analysis:	EPA 9014
Batch:	B8A1111	Preparation:	EPA 9010C
% Solids:	92.00	Laboratory ID:	B8A1111-MS1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Cyanide (total)	43.5	ND	45.7	105	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Cyanide (total)	43.5	43.9	101	4.09	20	75 - 125

* Values outside of QC limits

**DUPLICATES**

Duplicate

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Laboratory ID:	B8A1208-DUP1
Prep Batch:	B8A1208	Initial/Final:	10 g / 10 g
Prep Method:	Percent Solids	Analysis:	SM 2540 G
% Solids:	89.10		

ANALYTE	SAMPLE CONCENTRATION (%)	DUPLICATE CONCENTRATION (%)	RPD %	Q	CONTROL LIMIT
Percent Solids	89.1	90.0	1.01		20

**LCS / LCS DUPLICATE RECOVERY**

EPA 9014

Client: MADDOX MATERIALS
Project: Trap Rock Industries Kingston
Work Order: 1800020

Matrix:	Solid	Prep Method:	EPA 9010C
Prep Batch:	B8A1111	Lab Sample ID:	B8A1111-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Cyanide (total)	40.0	41.2	103	85 - 115

* Values outside of QC limits



September 5, 2018

AWT Environmental
PO Box 128
Sayreville, NJ 08871

Attn: Jim Vagra
Phone: 732-613-1660
Fax: 732-613-1536

Project: Fort Monmouth, NJ

To whom it may concern:

Please be advised the bank run sand Maddox Materials proposes to deliver the above reference project is clean virgin material from a State of New Jersey registered mine, permit # 004500. Rosano sand and gravel pit is located on Schoolhouse Rd., Block 930, Lot 1, Township of Wall, Monmouth County NJ.

The site was historically a wooded lot and is now being used as a mining operation. To the best of my knowledge the mine is not suspected of being contaminated and has not been affected by any hazardous material or discharge of a regulated substance.

If you need any additional information, please contact me at 732-251-0054.

Respectfully Submitted,

William Maddox
Member



State of New Jersey
Department of Labor and Workforce Development

Certificate No. 004500
Expiration Date 3/31/2019

MINE REGISTRATION CERTIFICATE

ISSUED TO: Rosano Trucking Inc
LOCATION: School House Road
Wall Twsp, NJ

BLK NO(S): 930
LOT NO(S): 1
COUNTY: MONMOUTH

Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

Robert Asaro-Angelo

Acting Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

ES-148 (R-1-05)





Analytical Report

Prepared for

MADDOX MATERIALS

323 Main Street
Spotswood, NJ 08884

Report Information

Project Name: Rosano Trucking / Fred McDowell

AAR Work Order: **1800021**

Client Sample ID

S-1

Laboratory Sample Number

1800021-01



New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799
CT Certification Number: PH-0219

This data has been reviewed and accepted by:

Daniel Miguel
Technical Director

1/29/2018

Table of Contents

Case Narrative	4
Methodology Summaries	5
Internal Chain of Custody	6
Condition of Samples	7
Chain of Custody	8
Analytical Report for Samples	9
Data Qualifiers	9
PETROLEUM HYDROCARBONS	10
PETROLEUM HYDROCARBONS SAMPLE DATA	11
PETROLEUM HYDROCARBONS QC DATA	15
PETROLEUM HYDROCARBONS QC SUMMARY	19
PETROLEUM HYDROCARBONS CALIBRATION DATA	28
PEST/PCB	33
PEST/PCB SAMPLE DATA	34
PEST/PCB QC DATA	39
PEST/PCB QC SUMMARY	48
PEST/PCB CALIBRATION DATA	66
SEMIVOLATILES	96
SEMIVOLATILES SAMPLE DATA	97
SEMIVOLATILES QC DATA	104
SEMIVOLATILES QC SUMMARY	111
SEMIVOLATILES CALIBRATION DATA	129
VOLATILES SAMPLE DATA	151
VOLATILES SAMPLE DATA	152
VOLATILES QC DATA	158

Table of Contents (continued)

VOLATILES QC SUMMARY	164
VOLATILES CALIBRATION DATA	180
METALS	194
METALS SAMPLE DATA	195
METALS QC SUMMARY	197
METALS CALIBRATION DATA	208
WET CHEMISTRY	234
WET CHEMISTRY SAMPLE DATA	235
WET CHEMISTRY QC DATA	237



Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order: 1800021

Accredited Analytical Resources, LLC received 1 sample(s) from MADDOX MATERIALS (Project: Rosano Trucking / Fred McDowell) on 01/09/2018 15:15.

The container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW 846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW 846-5035A requirements.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Metals analysis, B8A1104-MS1/MSD1 had analytes recovered outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director



Methodology Summary

EPA Method SW846 8081/8082

NJ 8081A/8082
NY 8081B/8082A

Extractable Petroleum Hydrocarbons by NJ EPH

NJDEP EPH

Semivolatile Organic Compounds EPA Method SW846 8270

NJ 8270C
NY 8270D

Total Mercury by SW846 7471

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260

NJ 8260B
NY 8260C

Wet Chemistry

Percent Solids by SM 2540 G
Total Cyanide by EPA 9010C & EPA 9014


Accredited Analytical Resources, LLC.

20 Pershing Ave
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Internal Chain of Custody

<u>Lab Sample Number</u>	<u>Container</u>	<u>Time Checked Out</u>	<u>Initials</u>	<u>Time Checked In</u>	<u>Initials</u>
1800021-01	A	1/9/18 15:31	MJS	1/9/18 15:35	KMC
		1/11/18 5:33	ECS	1/11/18 7:11	KMC
		1/11/18 7:14	LIT	1/11/18 7:25	LIT
		1/11/18 7:25	LIT	1/11/18 11:12	NNM
		1/11/18 11:12	NNM	1/11/18 17:03	KMC
		1/12/18 8:45	KMC	1/12/18 9:12	KMC
1800021-01	B	1/10/18 8:30	SG	1/10/18 17:00	SG



Condition of Samples on Receipt

Client Name:	MADDOX MATERIALS
Project Name:	Rosano Trucking / Fred McDowell
AAR Work Order Number:	1800021

Temperature of Cooler:	5°C
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes



Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008

Tel. 732-969-6112 FAX 732-541-1383

WEB: WWW.ACCREDITEDANALYTICAL.COM

CLIENT NAME:

Maddox Materials LLC

ADDRESS:

323 Main Street

CITY:

Spotswood

STATE:

NJ

ZIP:

08884

CHAIN OF CUSTODY FORM

STATE AGENCY
(CIRCLE ONE)

NJ

NY

PA

PROJECT NAME:

Rosano Trucking / Fred Mc Dowell

CONTACT:

B. H. Maddox

OFFICE PHONE #

732-251-0054

OFFICE FAX #

INITIAL RESULTS TO:

sr.madd@verizon.net

EMAIL FOR INVOICE:

AAR QUOTE #

AAR WORK ORDER #

P.O. #

1800021

ANALYSIS

PRES. CODE →

CONT. CODE →

TCL / TPL / G / G
E / AH

COLLECTION INFORMATION

CUSTOMER
SAMPLE # / IDDATE / TIME
SAMPLED

MATRIX CODE

DEPTH

OF CONTAINERS

GRAB (G)
COMP (C)AAR
SAMPLE #

S-1

1-18 / 11:05

S

2

XX

-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO₃ 3 = H₂SO₄ 4 = NaOH 5 = OTHERTURNAROUND TIME:
(CIRCLE ONE)

STANDARD

5 DAY

72 HRS.

48 HRS.

24 HRS.

OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE:

RESULTS ONLY

REDUCED

FULL

EDD

EXCEL SPREADSHEET

COMMENTS:

* SRS / NI SCL

COOLER TEMP: 5°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING:

PRINT:

William Maddox

SIGN:

[Signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Print Name:	William Maddox	Print Name:	K. Muniz	Print Name:		Print Name:	
Signature:	[Signature]	Signature:	[Signature]	Signature:		Signature:	
Agent of:	Maddox Materials	Agent of:	AAR	Agent of:		Agent of:	
Date Received:	1-18	Time:	1515	Date Received:	/ /	Time:	/ /
RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Print Name:		Print Name:		Print Name:		Print Name:	
Signature:		Signature:		Signature:		Signature:	
Agent of:		Agent of:		Agent of:		Agent of:	
Date Received:	/ /	Time:		Date Received:	/ /	Time:	



Analytical Report for Samples

Client Name:	MADDOX MATERIALS
Project Name:	Rosano Trucking / Fred McDowell

Client Field ID	AAR Laboratory Number	Matrix	Date/Time Sampled	Date/Time Received
S-1	1800021-01	Soil	01/09/2018 11:05	01/09/2018 15:15

Data Qualifiers

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



PETROLEUM HYDROCARBONS



PETROLEUM HYDROCARBONS SAMPLE DATA



ANALYSIS DATA SHEET

NJDEP EPH

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/09/18 15:31	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3545A	File ID:	K21544.D
Prep Batch:	B8A0901	Sequence:	S8A1101	Analyzed:	01/10/18 15:41
Dilution:	1			Analyst:	MS

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NA	Extractable Petroleum Hydrocarbons (EPH)	ND	17.8	17.8	U
	<u>Surrogate</u>	<u>% Recovery</u>		<u>Recovery Limits</u>	
	o-Terphenyl	71.1%		40-140	
	1-Chlorooctadecane	92.9%		40-140	

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\K\DATA\JAN18\K0110\K21544.D Vial: 5
Acq On : 10 Jan 2018 15:41 Operator: MS
Sample : 1800021-01 Inst : GC-FID-K
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jan 10 16:14 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC
Last Update : Tue Dec 05 08:34:25 2017
Response via : Initial Calibration
DataAcq Meth : DR0.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

7) S Ortho-Terphenyl	14.73	30141	17.786 ug/Kg
Spiked Amount 25.000	Recovery	=	71.14%
9) S 1-Chlorooctadecane	15.93	24904	23.213 ug/L
Spiked Amount 25.000	Recovery	=	92.85%

Target Compounds

Data File : D:\K\DATA\JAN18\K0110\K21544.D

Vial: 5

Acq On : 10 Jan 2018 15:41

Operator: MS

Sample : 1800021-01

Inst : GCFID-K

Misc :

Multiplr: 1.00

IntFile : rteint.p

Quant Time: Jan 10 16:14 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)

Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC

Last Update : Tue Dec 05 08:34:25 2017

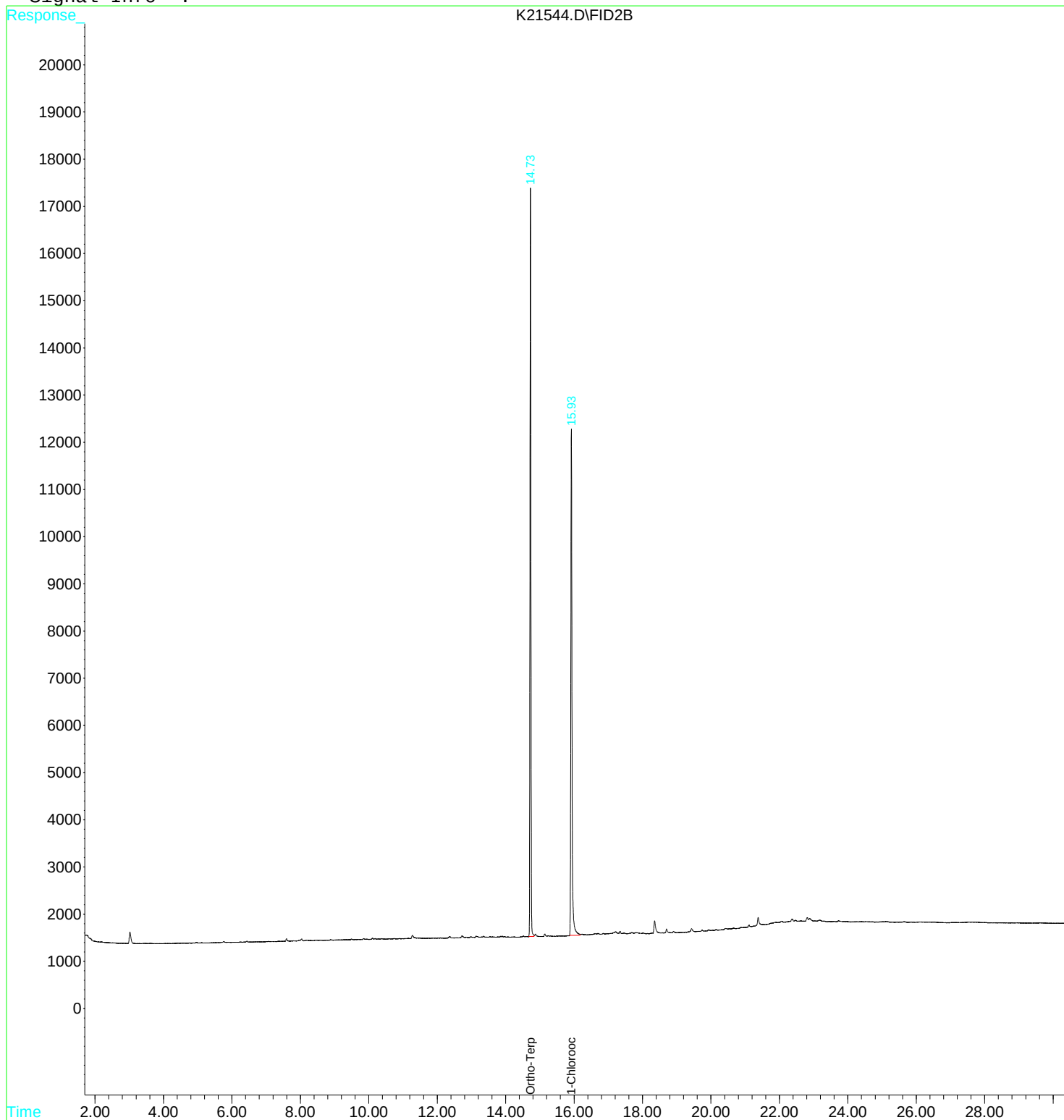
Response via : Multiple Level Calibration

DataAcq Meth : DR0.M

Volume Inj. :

Signal Phase :

Signal Info :





PETROLEUM HYDROCARBONS QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A0901-BLK1	File ID:	K21505.D
Batch:	B8A0901	Prepared:	01/09/18 08:04	Analyzed:	01/09/18 09:52
Column:	1	Preparation:	EPA 3545A	Dilution:	
		Sequence:	S8A0902	Instrument:	GCFID-K

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
NA	Extractable Petroleum Hydrocarbons (EPH)	ND	16.0	16.0	U

Surrogate

o-Terphenyl

1-Chlorooctadecane

% Recovery

80.4%

100%

Recovery Limits

40-140

40-140

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\K\DATA\JAN18\K0109\K21505.D Vial: 3
 Acq On : 9 Jan 2018 9:52 Operator: MS
 Sample : B8A0901-BLK1 Inst : GCFID-K
 Misc : SOIL Multiplr: 1.00
 IntFile : rteint.p
 Quant Time: Jan 9 10:38 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)
 Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC
 Last Update : Tue Dec 05 08:34:25 2017
 Response via : Initial Calibration
 DataAcq Meth : DR0.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

7) S Ortho-Terphenyl	14.73	34074	20.107 ug/Kg
Spiked Amount 25.000	Range 40 - 140	Recovery =	80.43%
9) S 1-Chlorooctadecane	15.93	26822	25.001 ug/L
Spiked Amount 25.000	Range 40 - 140	Recovery =	100.00%

Target Compounds

Data File : D:\K\DATA\JAN18\K0109\K21505.D

Vial: 3

Acq On : 9 Jan 2018 9:52

Operator: MS

Sample : B8A0901-BLK1

Inst : GCFID-K

Misc : SOIL

Multiplr: 1.00

IntFile : rteint.p

Quant Time: Jan 9 10:38 2018 Quant Results File: EPHK1204.RES

Quant Method : D:\K\METHODS\EPHK1204.M (RTE Integrator)

Title : ACCREDITED ANALYTICAL RES EPH W/O FRAC

Last Update : Tue Dec 05 08:34:25 2017

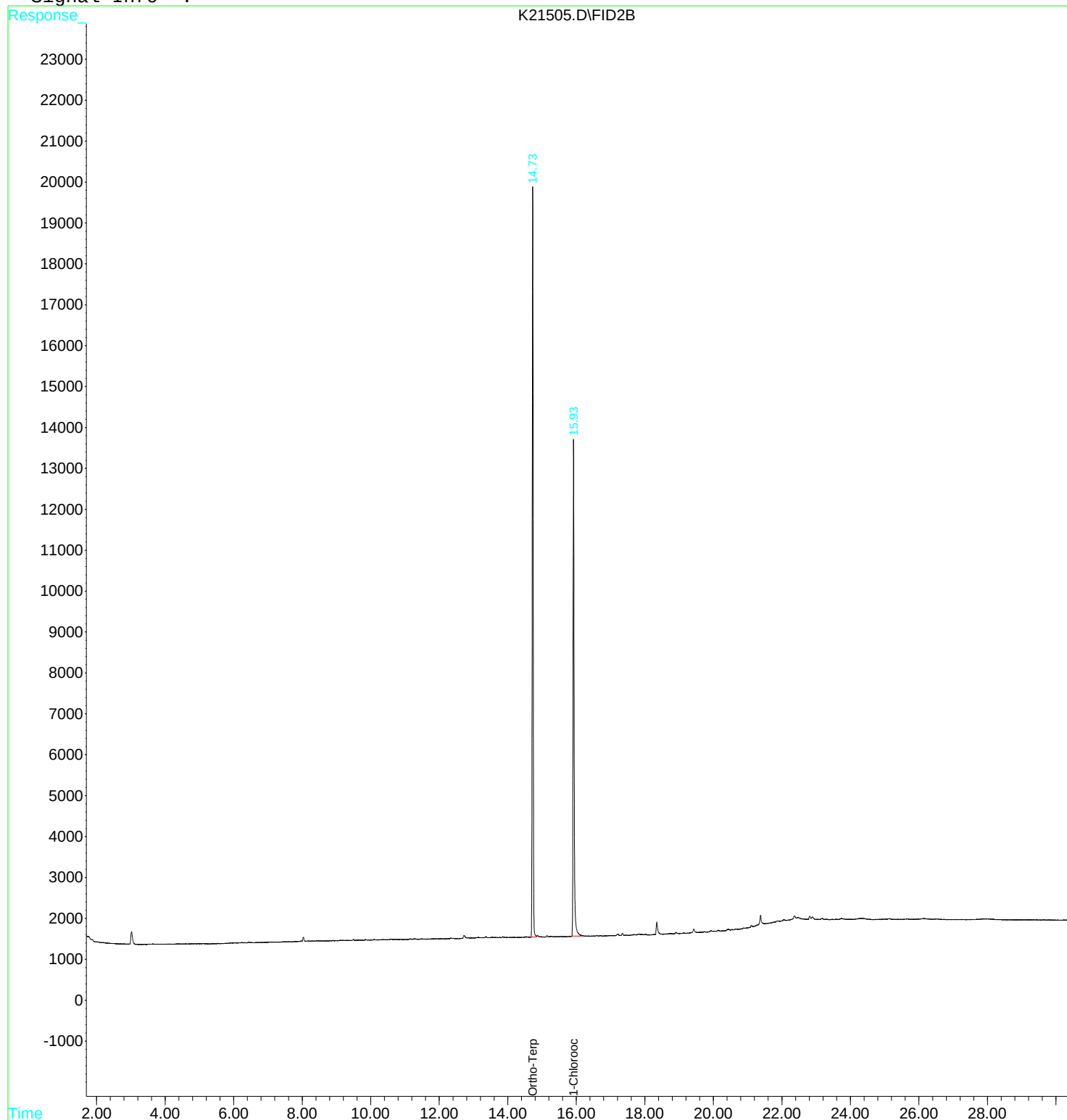
Response via : Multiple Level Calibration

DataAcq Meth : DR0.M

Volume Inj. :

Signal Phase :

Signal Info :





PETROLEUM HYDROCARBONS QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**NJDEP EPH**

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid
Instrument: GCFID-K

Lab Sample ID:	1-COD (40% - 140%)	O-TPL (40% - 140%)
1800021-01	92.9	71.1
B8A0901-BLK1	100	80.4
B8A0901-BS1	88.8	72.6
B8A0901-BSD1	87.2	70.6
B8A0901-DUP1	92.0	72.9
B8A0901-MS1	100	80.6
B8A0901-MSD1	97.9	79.2

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY****Matrix Spike**

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	NJDEP EPH
Prep Batch:	B8A0901	Prep Method:	EPA 3545A
Percent Solids:	94.10	Laboratory ID:	B8A0901-MS1
		Client Sample ID:	1800010-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Extractable Petroleum Hydrocarbons (EPH)	142	ND	127	89.9	40 - 140

* Values outside of QC limits


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Fax: 732-541-1383
WWW.Accreditedanalytical.com

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	NJDEP EPH
Prep Batch:	B8A0901	Prep Method:	EPA 3545A
Percent Solids:	94.10	Laboratory ID:	B8A0901-MSD1
		Client Sample ID:	1800010-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Extractable Petroleum Hydrocarbons (EPH)	142	139	98.1	8.72	25	40 - 140

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

NJDEP EPH

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 3545A
Prep Batch:	B8A0901	Lab Sample ID:	B8A0901-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Extractable Petroleum Hydrocarbons (EPH)	133	118	88.6	40 - 140

ANALYTE	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Extractable Petroleum Hydrocarbons (EPH)	133	115	86.2	2.74	25	40 - 140

* Values outside of QC limits

**METHOD BLANK SUMMARY**

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Blank ID:	B8A0901-BLK1	Batch:	B8A0901
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A0901-BS1	K21509.D	01/09/2018 12:31
LCS Dup	B8A0901-BSD1	K21510.D	01/09/2018 13:10
Matrix Spike	B8A0901-MS1	K21519.D	01/09/2018 18:59
Matrix Spike Dup	B8A0901-MSD1	K21520.D	01/09/2018 19:38
Duplicate	B8A0901-DUP1	K21521.D	01/09/2018 20:16
S-1	1800021-01	K21544.D	01/10/2018 15:41

**ANALYSIS SEQUENCE SUMMARY****NJDEP EPH**

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S7L0507	Instrument:	GCFID-K
Calibration:	17L0601		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	S7L0507-CAL1	K21288.D	12/04/17 14:47
Cal Standard	S7L0507-CAL2	K21289.D	12/04/17 15:26
Cal Standard	S7L0507-CAL3	K21290.D	12/04/17 16:04
Cal Standard	S7L0507-CAL4	K21291.D	12/04/17 16:43
Cal Standard	S7L0507-CAL5	K21292.D	12/04/17 17:22

**ANALYSIS SEQUENCE SUMMARY**

NJDEP EPH

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A0902	Instrument:	GCFID-K
Calibration:	17L0601		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	S8A0902-CCV1	K21504.D	01/09/18 09:13
Blank	B8A0901-BLK1	K21505.D	01/09/18 09:52
LCS	B8A0901-BS1	K21509.D	01/09/18 12:31
LCS Dup	B8A0901-BSD1	K21510.D	01/09/18 13:10
Matrix Spike	B8A0901-MS1	K21519.D	01/09/18 18:59
Matrix Spike Dup	B8A0901-MSD1	K21520.D	01/09/18 19:38
Duplicate	B8A0901-DUP1	K21521.D	01/09/18 20:16

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ANALYSIS SEQUENCE SUMMARY

NJDEP EPH

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A1101	Instrument:	GCFID-K
Calibration:	17L0601		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	S8A1101-CCV1	K21542.D	01/10/18 13:04
S-1	1800021-01	K21544.D	01/10/18 15:41



PETROLEUM HYDROCARBONS CALIBRATION DATA



INITIAL CALIBRATION DATA

NJDEP EPH

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 17L0601				Instrument: GCFID-K				Calibration Date: 12/4/2017 1:51:17PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
n-Nonane	10	971.7	20	951.3	50	951.58	100	925.45	200	934.27		
n-Decane	10	1022.3	20	1051.85	50	957.02	100	982.13	200	1043.88		
n-Dodecane	10	1027.3	20	1053.85	50	963.72	100	994.04	200	1058.47		
n-Tetradecane	10	1050.4	20	1075.2	50	980.7	100	1011.67	200	1077.455		
n-Hexadecane	10	1060.1	20	1080.65	50	984.22	100	1016.07	200	1082.88		
n-Octadecane	10	1059.8	20	1085.25	50	992.34	100	1023.48	200	1091.855		
o-Terphenyl	10	1753.9	20	1617.95	50	1804.86	100	1680.05	200	1616.46		
n-Eicosane	10	1074.2	20	1098.15	50	1003.44	100	1033.97	200	1103.675		
1-Chlorooctadecane	10	1045.6	20	1045	50	1203.72	100	1007.29	200	1062.52		
n-Heneicosane	10	1073.4	20	1383.8	50	1062.3	100	1034.84	200	1350.83		
n-Docosane	10	1087.5	20	1108.95	50	1014.24	100	1043.56	200	1117.42		
n-Tetracosane	10	1084.8	20	1107.85	50	1015.46	100	1044.16	200	1117.48		
n-Hexacosane	10	1071	20	1095.3	50	1007.32	100	1033.07	200	1109.095		
n-Octacosane	10	1073.8	20	1095.15	50	1011.18	100	1034.27	200	1109.185		
Extractable Petroleum Hydrocar	120	1497.875	240	1372.554	600	1343.582	1200	1213.058	2400	1209.577		



INITIAL CALIBRATION DATA SHEET (Continued)

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration:	17L0601	Instrument:	GCFID-K
		Calibration Date:	12/4/2017 1:51:17PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
n-Nonane	A	946.86	1.886231			CCC (25)	
n-Decane	A	1011.436	4.023348			CCC (25)	
n-Dodecane	A	1019.476	3.959906			CCC (25)	
n-Tetradecane	A	1039.085	4.044586			CCC (25)	
n-Hexadecane	A	1044.784	4.134767			CCC (25)	
n-Octadecane	A	1050.545	4.015153			CCC (25)	
o-Terphenyl	A	1694.644	4.925303			CCC (25)	
n-Eicosane	A	1062.687	4.048825			CCC (25)	
1-Chlorooctadecane	A	1072.826	7.075804			CCC (25)	
n-Heneicosane	A	1181.034	14.48108			CCC (25)	
n-Docosane	A	1074.334	4.106742			CCC (25)	
n-Tetracosane	A	1073.95	4.023977			CCC (25)	
n-Hexacosane	A	1063.157	3.998353			CCC (25)	
n-Octacosane	A	1064.717	3.866591			CCC (25)	
Extractable Petroleum Hydrocarbons (EPH)	A	1327.329	9.09694			CCC (25)	

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCFID-K	Calibration: 17L0601
Lab File ID: K21504.D	Calibration Date: 12/04/17 13:51
Sequence: S8A0902	Injection Date: 01/09/18
Lab Sample ID: S8A0902-CCV1	Injection Time: 09:13

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
n-Nonane	A	50.0	50.3	946.86	952.14		0.6	30
n-Decane	A	50.0	58.8	1011.436	1188.8		17.5	30
n-Dodecane	A	50.0	52.8	1019.476	1076.24		5.6	30
n-Tetradecane	A	50.0	53.1	1039.085	1102.58		6.1	30
n-Hexadecane	A	50.0	53.1	1044.784	1109.9		6.2	30
n-Octadecane	A	50.0	53.5	1050.545	1124.94		7.1	30
n-Eicosane	A	50.0	54.0	1062.687	1147.44		8.0	30
n-Heneicosane	A	50.0	54.2	1181.034	1280.48		8.4	30
n-Docosane	A	50.0	54.3	1074.334	1167.58		8.7	30
n-Tetracosane	A	50.0	54.5	1073.95	1170.74		9.0	30
n-Hexacosane	A	50.0	55.3	1063.157	1175.4		10.6	30
n-Octacosane	A	50.0	55.7	1064.717	1187.04		11.5	30
Extractable Petroleum Hydrocarbons (EPH)	A	600	642	1327.329	1420.327		7.0	25
o-Terphenyl	A	50.0	49.7	1694.644	1684.62		-0.6	30
1-Chlorooctadecane	A	50.0	53.8	1072.826	1154.76		7.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

NJDEP EPH

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCFID-K	Calibration: 17L0601
Lab File ID: K21542.D	Calibration Date: 12/04/17 13:51
Sequence: S8A1101	Injection Date: 01/10/18
Lab Sample ID: S8A1101-CCV1	Injection Time: 13:04

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
n-Nonane	A	50.0	44.3	946.86	839.18		-11.4	30
n-Decane	A	50.0	54.2	1011.436	1095.92		8.4	30
n-Dodecane	A	50.0	48.4	1019.476	986.1		-3.3	30
n-Tetradecane	A	50.0	48.6	1039.085	1010.54		-2.7	30
n-Hexadecane	A	50.0	48.5	1044.784	1013.82		-3.0	30
n-Octadecane	A	50.0	48.7	1050.545	1023.62		-2.6	30
n-Eicosane	A	50.0	48.8	1062.687	1037.88		-2.3	30
n-Heneicosane	A	50.0	49.4	1181.034	1166		-1.3	30
n-Docosane	A	50.0	48.9	1074.334	1050.82		-2.2	30
n-Tetracosane	A	50.0	48.9	1073.95	1050		-2.2	30
n-Hexacosane	A	50.0	49.5	1063.157	1051.74		-1.1	30
n-Octacosane	A	50.0	49.6	1064.717	1055.92		-0.8	30
Extractable Petroleum Hydrocarbons (EPH)	A	600	617	1327.329	1366.04		2.9	25
o-Terphenyl	A	50.0	45.1	1694.644	1529.28		-9.8	30
1-Chlorooctadecane	A	50.0	48.1	1072.826	1032.26		-3.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



PEST/PCB



PEST/PCB SAMPLE DATA



ANALYSIS DATA SHEET

EPA 8081/8082

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/11/18 05:30	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3550B	File ID:	G22027.D
Prep Batch:	B8A1103	Sequence:	S8A1102	Analyzed:	01/11/18 15:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.733	0.733	U
319-85-7	beta-BHC	ND	0.733	0.733	U
319-86-8	delta-BHC	ND	0.733	0.733	U
58-89-9	gamma-BHC [Lindane]	ND	0.733	0.733	U
76-44-8	Heptachlor	ND	0.733	0.733	U
309-00-2	Aldrin	ND	0.733	0.733	U
1024-57-3	Heptachlor Epoxide	ND	0.733	0.733	U
959-98-8	Endosulfan I	ND	0.733	0.733	U
60-57-1	Dieldrin	ND	1.48	1.48	U
72-55-9	4,4'-DDE	ND	1.48	1.48	U
72-20-8	Endrin	ND	1.48	1.48	U
33213-65-9	Endosulfan II	ND	1.48	1.48	U
72-54-8	4,4'-DDD	ND	1.48	1.48	U
1031-07-8	Endosulfan sulfate	ND	1.48	1.48	U
50-29-3	4,4'-DDT	ND	1.48	1.48	U
72-43-5	Methoxychlor	ND	2.22	7.39	U
53494-70-5	Endrin ketone	ND	1.48	1.48	U
7421-93-4	Endrin aldehyde	ND	1.48	1.48	U
5103-71-9	alpha-Chlordane	ND	0.733	0.733	U
5566-34-7	gamma-Chlordane	ND	0.733	0.733	U
8001-35-2	Toxaphene	ND	37.0	37.0	U
12674-11-2	Aroclor-1016	ND	18.4	37.0	U



ANALYSIS DATA SHEET

EPA 8081/8082

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/11/18 05:30	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3550B	File ID:	G22027.D
Prep Batch:	B8A1103	Sequence:	S8A1102	Analyzed:	01/11/18 15:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	18.4	37.0	U
11141-16-5	Aroclor-1232	ND	18.4	37.0	U
53469-21-9	Aroclor-1242	ND	18.4	37.0	U
12672-29-6	Aroclor-1248	ND	18.4	37.0	U
11097-69-1	Aroclor-1254	ND	18.4	37.0	U
11096-82-5	Aroclor-1260	ND	18.4	37.0	U
37324-23-5	Aroclor-1262	ND	18.4	37.0	U
11100-14-4	Aroclor-1268	ND	18.4	37.0	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	76.0%	27-137
Tetrachloro-m-xylene [2C]	78.1%	39-138
Decachlorobiphenyl	72.3%	21-150
Decachlorobiphenyl [2C]	82.8%	24-171

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\JAN18\G0111\G22027.D\ECD1A.CH Vial: 16
 Signal #2 : D:\G\DATA\JAN18\G0111\G22027.D\ECD2B.CH
 Acq On : 11 Jan 2018 15:16 Operator: JAM
 Sample : 1800021-01 Inst : GCECD_GH
 Misc : SOILK 01/11/18 Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jan 11 15:43 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
 Title : 8081 Pesticides
 Last Update : Wed Jan 03 08:53:02 2018
 Response via : Initial Calibration
 DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

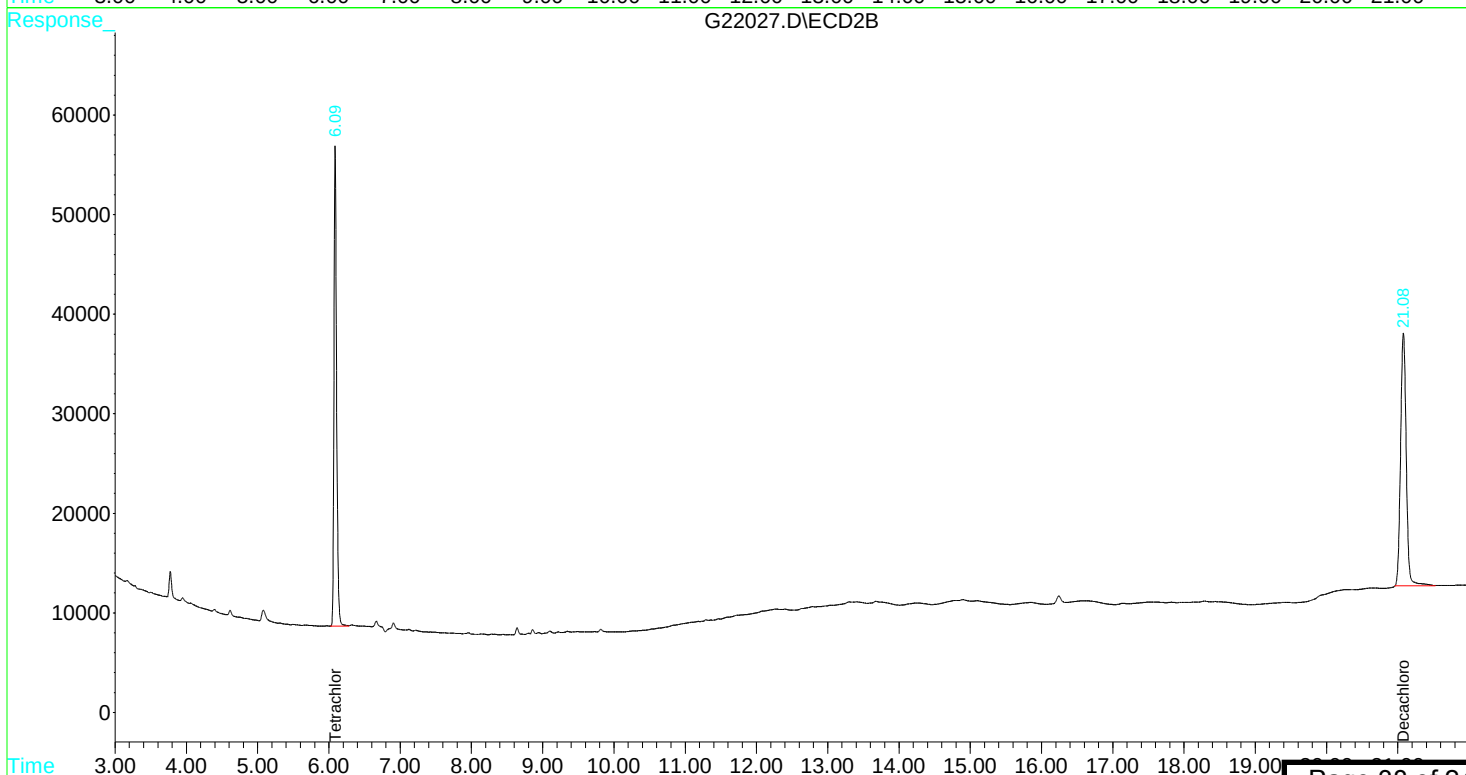
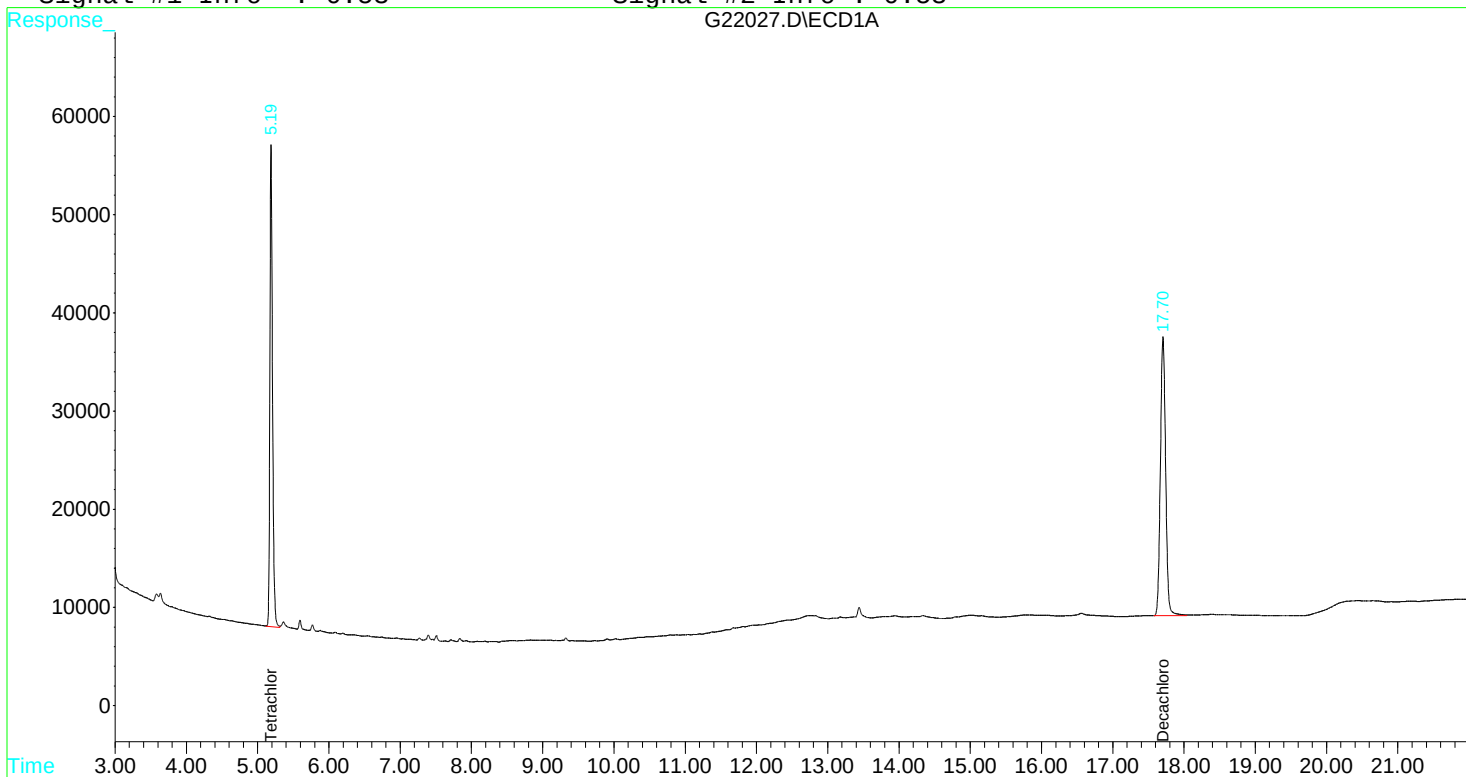
1) AS Tetrachloro-m-xy	5.19	6.09	1248526	1235984	0.760	0.781
Spiked Amount	10.000	Range	39 - 138	Recovery	=	7.60%#
22) AS Decachlorobiphen	17.70	21.08	1454306	1407286	0.723	0.828
Spiked Amount	10.000	Range	24 - 171	Recovery	=	7.23%#

Target Compounds

Signal #1 : D:\G\DATA\JAN18\G0111\G22027.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\JAN18\G0111\G22027.D\ECD2B.CH
Acq On : 11 Jan 2018 15:16 Operator: JAM
Sample : 1800021-01 Inst : GCECD_GH
Misc : SOILK 01/11/18 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 11 15:43 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Wed Jan 03 08:53:02 2018
Response via : Multiple Level Calibration
DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





PEST/PCB QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.660	0.660	U
319-85-7	beta-BHC	ND	0.660	0.660	U
319-86-8	delta-BHC	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane]	ND	0.660	0.660	U
76-44-8	Heptachlor	ND	0.660	0.660	U
309-00-2	Aldrin	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide	ND	0.660	0.660	U
959-98-8	Endosulfan I	ND	0.660	0.660	U
60-57-1	Dieldrin	ND	1.33	1.33	U
72-55-9	4,4'-DDE	ND	1.33	1.33	U
72-20-8	Endrin	ND	1.33	1.33	U
33213-65-9	Endosulfan II	ND	1.33	1.33	U
72-54-8	4,4'-DDD	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate	ND	1.33	1.33	U
50-29-3	4,4'-DDT	ND	1.33	1.33	U
72-43-5	Methoxychlor	ND	2.00	6.66	U
53494-70-5	Endrin ketone	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane	ND	0.660	0.660	U
8001-35-2	Toxaphene	ND	33.3	33.3	U
12674-11-2	Aroclor-1016	ND	16.6	33.3	U
11104-28-2	Aroclor-1221	ND	16.6	33.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
11141-16-5	Aroclor-1232	ND	16.6	33.3	U
53469-21-9	Aroclor-1242	ND	16.6	33.3	U
12672-29-6	Aroclor-1248	ND	16.6	33.3	U
11097-69-1	Aroclor-1254	ND	16.6	33.3	U
11096-82-5	Aroclor-1260	ND	16.6	33.3	U
37324-23-5	Aroclor-1262	ND	16.6	33.3	U
11100-14-4	Aroclor-1268	ND	16.6	33.3	U

Surrogate

Tetrachloro-m-xylene
 Decachlorobiphenyl

% Recovery

77.3%
 83.3%

Recovery Limits

27-137
 21-150

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
 Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
 Acq On : 11 Jan 2018 10:45 Operator: JAM
 Sample : B8A1103-BLK1 Inst : GCECD_GH
 Misc : SOILK 01/11/18 Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
 Title : 8081 Pesticides
 Last Update : Wed Jan 03 08:53:02 2018
 Response via : Initial Calibration
 DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

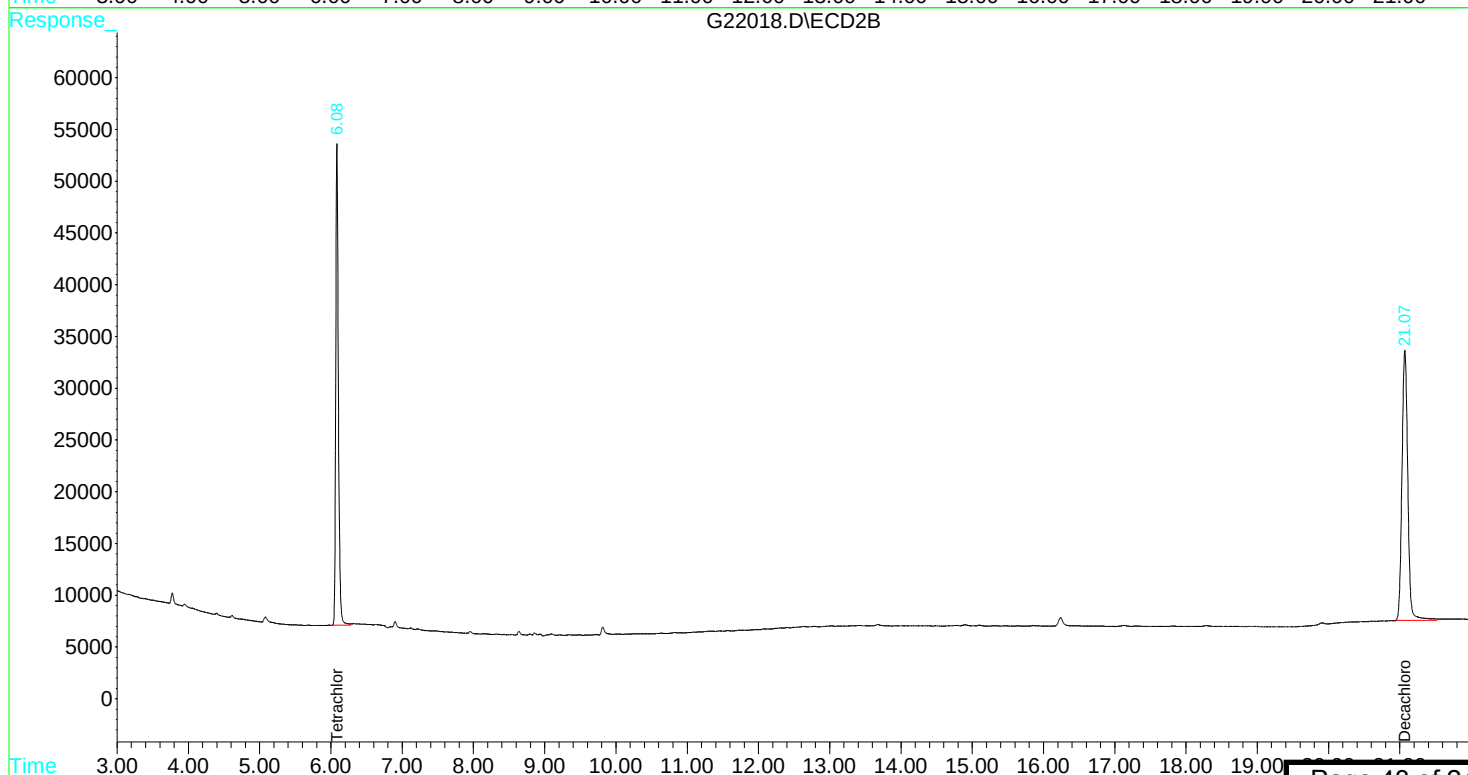
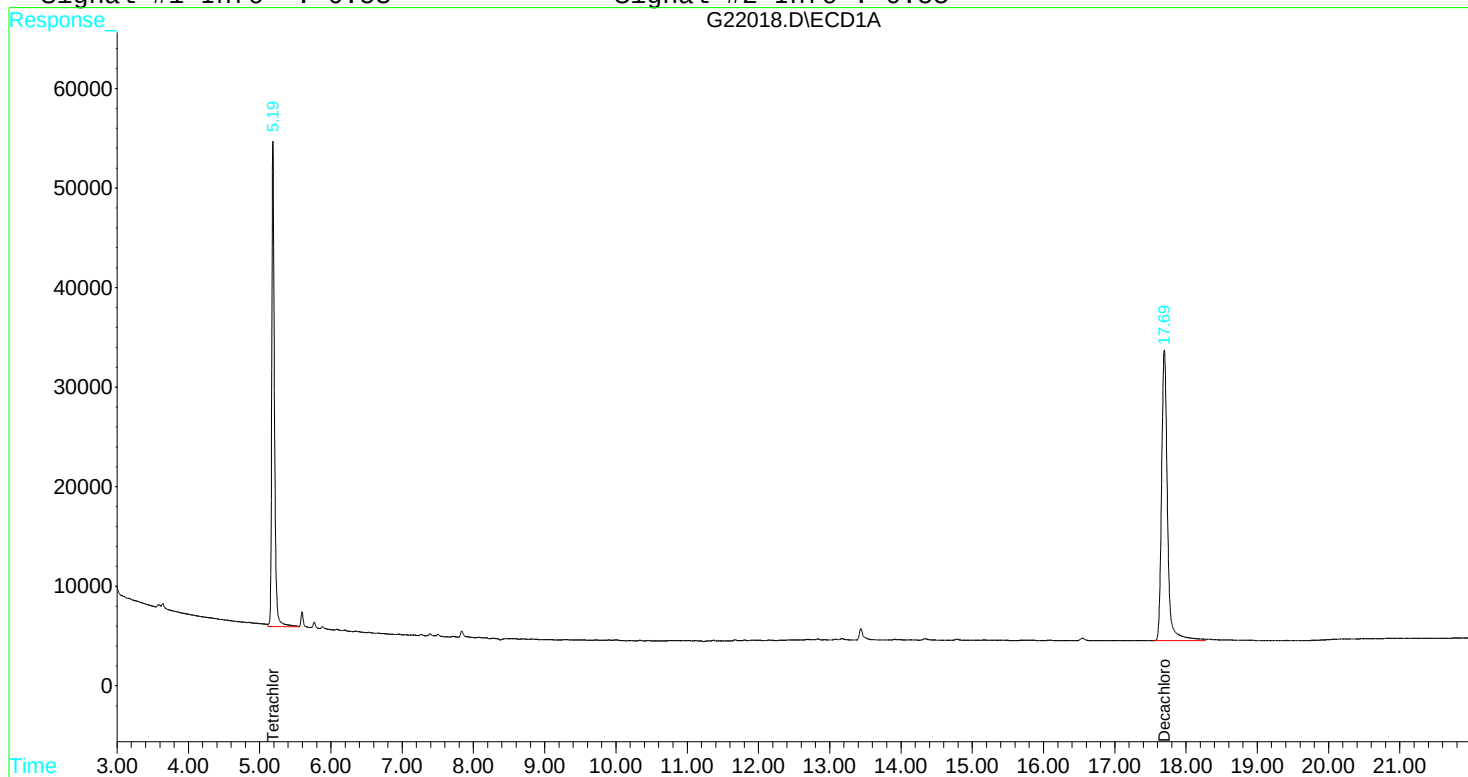
1) AS Tetrachloro-m-xy	5.19	6.08	1270332	1194666	0.773	0.755
Spiked Amount	10.000	Range	39 - 138	Recovery	=	7.73%#
2) AS Decachlorobiphen	17.69	21.07	1676344	1484916	0.833	0.874
Spiked Amount	10.000	Range	24 - 171	Recovery	=	8.33%#

Target Compounds

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
Acq On : 11 Jan 2018 10:45 Operator: JAM
Sample : B8A1103-BLK1 Inst : GCECD_GH
Misc : SOILK 01/11/18 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Wed Jan 03 08:53:02 2018
Response via : Multiple Level Calibration
DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC [2C]	ND	0.660	0.660	U
319-85-7	beta-BHC [2C]	ND	0.660	0.660	U
319-86-8	delta-BHC [2C]	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane] [2C]	ND	0.660	0.660	U
76-44-8	Heptachlor [2C]	ND	0.660	0.660	U
309-00-2	Aldrin [2C]	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide [2C]	ND	0.660	0.660	U
959-98-8	Endosulfan I [2C]	ND	0.660	0.660	U
60-57-1	Dieldrin [2C]	ND	1.33	1.33	U
72-55-9	4,4'-DDE [2C]	ND	1.33	1.33	U
72-20-8	Endrin [2C]	ND	1.33	1.33	U
33213-65-9	Endosulfan II [2C]	ND	1.33	1.33	U
72-54-8	4,4'-DDD [2C]	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate [2C]	ND	1.33	1.33	U
50-29-3	4,4'-DDT [2C]	ND	1.33	1.33	U
72-43-5	Methoxychlor [2C]	ND	2.00	6.66	U
53494-70-5	Endrin ketone [2C]	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde [2C]	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane [2C]	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane [2C]	ND	0.660	0.660	U
8001-35-2	Toxaphene [2C]	ND	33.3	33.3	U
12674-11-2	Aroclor-1016 [2C]	ND	16.6	33.3	U
11104-28-2	Aroclor-1221 [2C]	ND	16.6	33.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1103-BLK1	File ID:	G22018.D
Batch:	B8A1103	Prepared:	01/11/18 05:30	Analyzed:	01/11/18 10:45
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S8A1102	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
11141-16-5	Aroclor-1232 [2C]	ND	16.6	33.3	U
53469-21-9	Aroclor-1242 [2C]	ND	16.6	33.3	U
12672-29-6	Aroclor-1248 [2C]	ND	16.6	33.3	U
11097-69-1	Aroclor-1254 [2C]	ND	16.6	33.3	U
11096-82-5	Aroclor-1260 [2C]	ND	16.6	33.3	U
37324-23-5	Aroclor-1262 [2C]	ND	16.6	33.3	U
11100-14-4	Aroclor-1268 [2C]	ND	16.6	33.3	U

Surrogate

% Recovery

Recovery Limits

Tetrachloro-m-xylene [2C]
 Decachlorobiphenyl [2C]

75.5%
 87.4%

39-138
 24-171

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
 Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
 Acq On : 11 Jan 2018 10:45 Operator: JAM
 Sample : B8A1103-BLK1 Inst : GCECD_GH
 Misc : SOILK 01/11/18 Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
 Title : 8081 Pesticides
 Last Update : Wed Jan 03 08:53:02 2018
 Response via : Initial Calibration
 DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

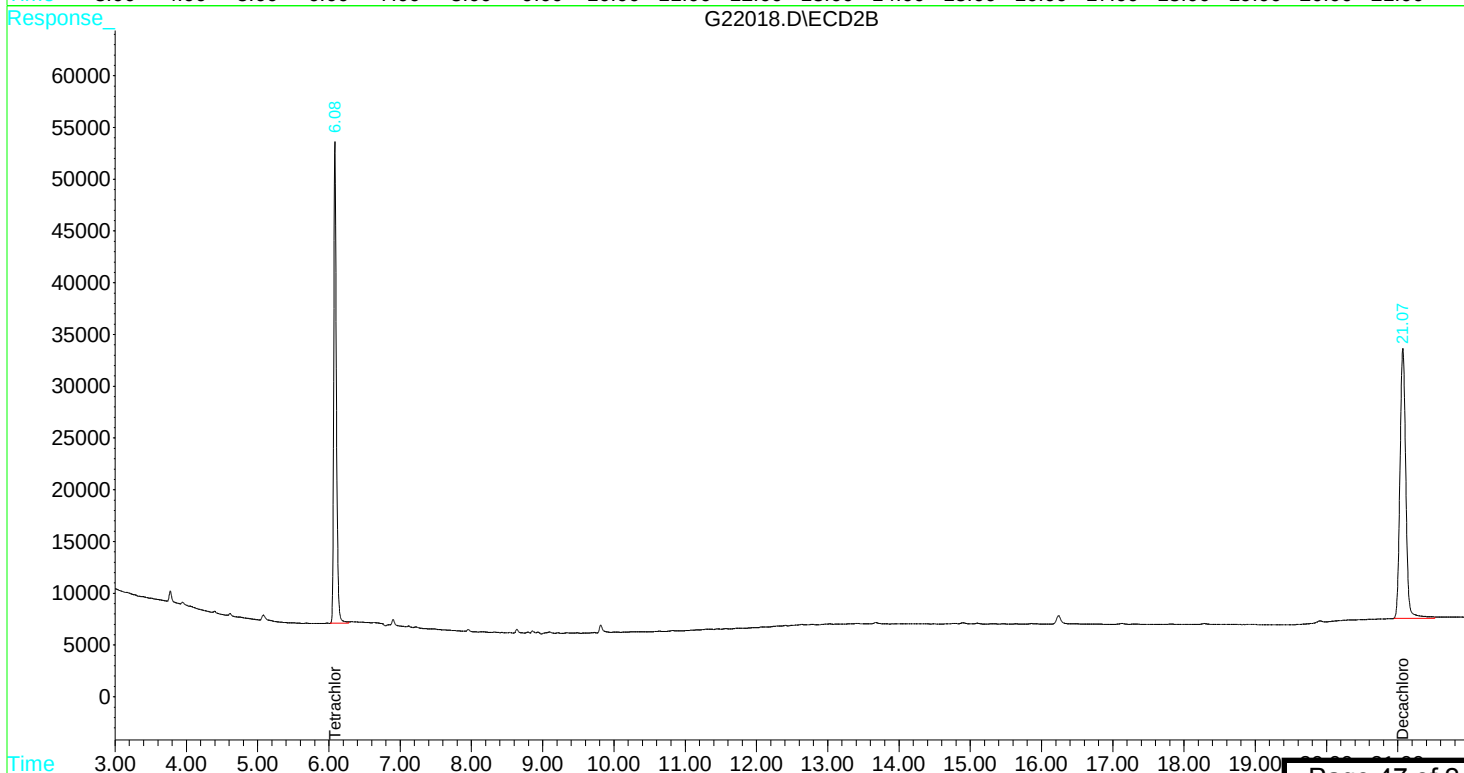
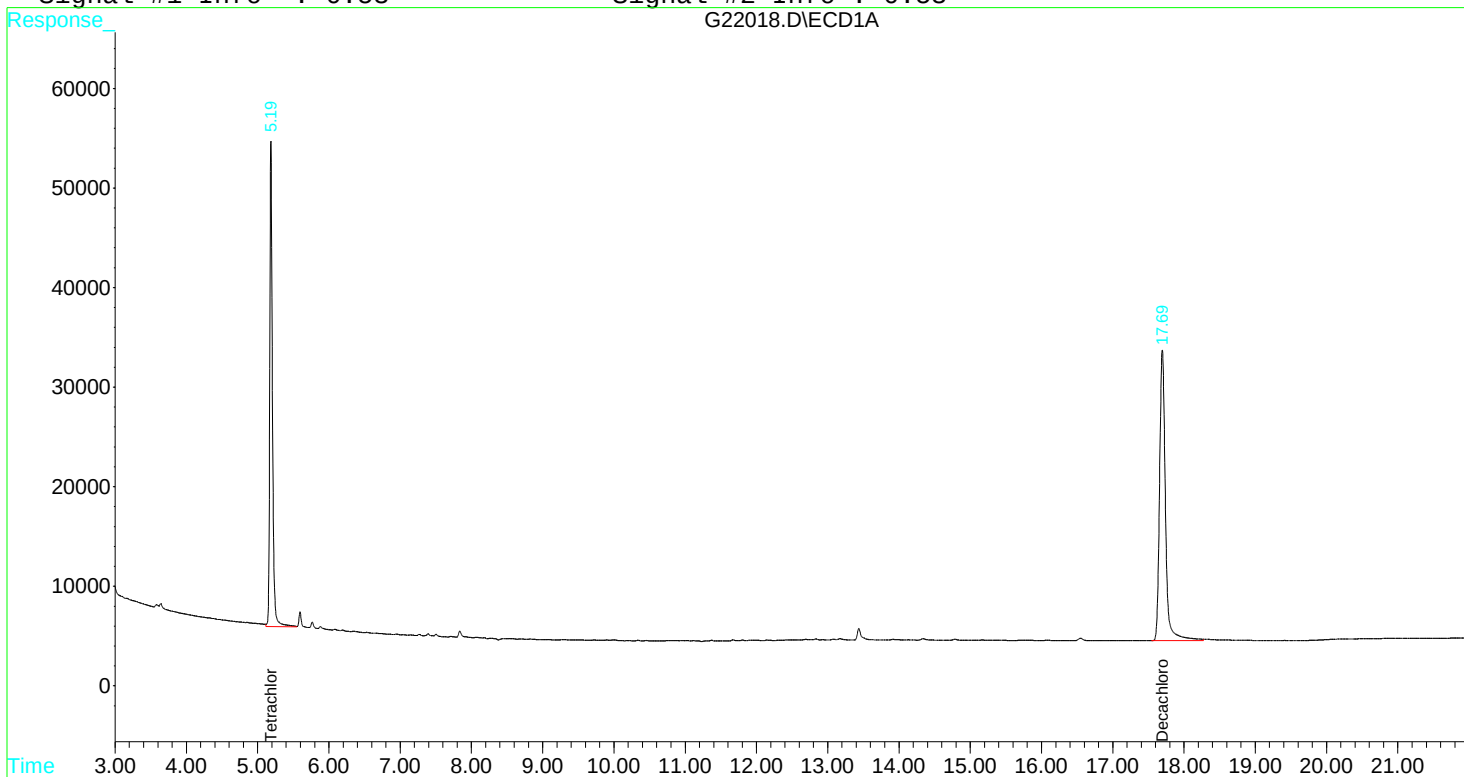
1) AS Tetrachloro-m-xy	5.19	6.08	1270332	1194666	0.773	0.755
Spiked Amount	10.000	Range	39 - 138	Recovery	=	7.73%#
2) AS Decachlorobiphen	17.69	21.07	1676344	1484916	0.833	0.874
Spiked Amount	10.000	Range	24 - 171	Recovery	=	8.33%#

Target Compounds

Signal #1 : D:\G\DATA\JAN18\G0111\G22018.D\ECD1A.CH Vial: 7
Signal #2 : D:\G\DATA\JAN18\G0111\G22018.D\ECD2B.CH
Acq On : 11 Jan 2018 10:45 Operator: JAM
Sample : B8A1103-BLK1 Inst : GCECD_GH
Misc : SOILK 01/11/18 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 11 11:35 2018 Quant Results File: PG80102.RES

Quant Method : D:\G\METHODS\PG80102.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Wed Jan 03 08:53:02 2018
Response via : Multiple Level Calibration
DataAcq Meth : PG80102.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





PEST/PCB QC SUMMARY

**SYSTEM MONITORING COMPOUND SUMMARY**

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid
Instrument: GCECD_GHF

Lab Sample ID:	DCB (21% - 150%)	DCB[2C] (24% - 171%)	TCMX (27% - 137%)	TCMX[2C] (39% - 138%)
1800021-01	72.3	82.8	76.0	78.1
B8A1103-BLK1	83.3	87.4	77.3	75.5
B8A1103-BS1	77.5	78.7	79.0	76.7
B8A1103-BS2	71.5	75.3	80.4	81.5
B8A1103-MS1	81.2	90.7	83.8	85.9
B8A1103-MS2	67.0	72.5	76.1	78.3
B8A1103-MSD1	80.4	88.8	81.8	83.0
B8A1103-MSD2	67.9	73.0	76.8	79.2



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MS1
Column:	1	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC	10.9	ND	15.7	144	41 - 161
beta-BHC	10.9	ND	12.6	116	37 - 144
delta-BHC	10.9	ND	15.8	146	40 - 167
gamma-BHC [Lindane]	10.9	ND	15.7	145	40 - 166
Heptachlor	10.9	ND	15.5	143	42 - 157
Aldrin	10.9	ND	14.1	129	42 - 154
Heptachlor Epoxide	10.9	ND	12.8	118	42 - 155
Endosulfan I	10.9	ND	12.0	111	37 - 147
Dieldrin	10.9	ND	14.6	134	41 - 167
4,4'-DDE	10.9	ND	13.3	122	36 - 142
Endrin	10.9	ND	15.6	144	53 - 175
Endosulfan II	10.9	ND	12.8	118	47 - 157
4,4'-DDD	10.9	ND	16.0	147	45 - 167
Endosulfan sulfate	10.9	ND	12.7	117	47 - 153
4,4'-DDT	10.9	ND	14.0	129	42 - 156
Methoxychlor	10.9	ND	14.0	129	49 - 180
Endrin ketone	10.9	ND	15.7	144	45 - 160
Endrin aldehyde	10.9	ND	14.1	130	49 - 161
alpha-Chlordane	10.9	ND	15.4	142	43 - 167
gamma-Chlordane	10.9	ND	12.8	118	42 - 149

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDUX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MSD1
Column:	1	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
alpha-BHC	10.9	15.1	139	4.00	17	41 - 161
beta-BHC	10.9	12.2	112	3.50	15	37 - 144
delta-BHC	10.9	15.2	140	4.21	13	40 - 167
gamma-BHC [Lindane]	10.9	16.0	147	1.60	15	40 - 166
Heptachlor	10.9	14.9	137	3.81	19	42 - 157
Aldrin	10.9	13.3	123	5.29	18	42 - 154
Heptachlor Epoxide	10.9	12.8	117	0.567	20	42 - 155
Endosulfan I	10.9	11.8	109	1.82	16	37 - 147
Dieldrin	10.9	14.0	129	4.05	14	41 - 167
4,4'-DDE	10.9	12.7	117	4.47	13	36 - 142
Endrin	10.9	15.1	139	3.54	20	53 - 175
Endosulfan II	10.9	12.4	114	3.46	15	47 - 157
4,4'-DDD	10.9	15.4	142	3.46	22	45 - 167
Endosulfan sulfate	10.9	12.9	118	1.42	26	47 - 153
4,4'-DDT	10.9	13.6	125	2.62	19	42 - 156
Methoxychlor	10.9	13.6	125	2.88	25	49 - 180
Endrin ketone	10.9	15.0	138	4.26	18	45 - 160
Endrin aldehyde	10.9	13.8	127	2.60	22	49 - 161
alpha-Chlordane	10.9	14.6	134	5.56	21	43 - 167
gamma-Chlordane	10.9	12.5	115	2.58	17	42 - 149

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MS2
Column:	1	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	358	ND	308	85.9	42 - 121
Aroclor-1016 (1)	358	0.00	300	83.7	42 - 121
Aroclor-1016 (2)	358	0.00	318	88.9	42 - 121
Aroclor-1016 (3)	358	0.00	305	85.2	42 - 121
Aroclor-1260	358	ND	317	88.6	45 - 129
Aroclor-1260 (1)	358	0.00	311	86.8	45 - 129
Aroclor-1260 (2)	358	0.00	330	92.2	45 - 129
Aroclor-1260 (3)	358	0.00	311	86.8	45 - 129

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MSD2
Column:	1	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	358	314	87.8	2.11	16	42 - 121
Aroclor-1016 (1)	358	306	85.5	2.16	16	42 - 121
Aroclor-1016 (2)	358	324	90.4	1.71	16	42 - 121
Aroclor-1016 (3)	358	313	87.4	2.48	16	42 - 121
Aroclor-1260	358	320	89.3	0.738	22	45 - 129
Aroclor-1260 (1)	358	318	88.9	2.36	22	45 - 129
Aroclor-1260 (2)	358	334	93.2	1.08	22	45 - 129
Aroclor-1260 (3)	358	307	85.8	1.27	22	45 - 129

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDUX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MS1
Column:	2	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.9	ND	15.3	141	45 - 164
beta-BHC [2C]	10.9	ND	13.0	120	45 - 150
delta-BHC [2C]	10.9	ND	14.2	131	34 - 170
gamma-BHC [Lindane] [2C]	10.9	ND	14.5	134	43 - 159
Heptachlor [2C]	10.9	ND	14.3	132	37 - 167
Aldrin [2C]	10.9	ND	12.8	117	43 - 153
Heptachlor Epoxide [2C]	10.9	ND	12.7	117	44 - 152
Endosulfan I [2C]	10.9	ND	13.6	125	46 - 159
Dieldrin [2C]	10.9	ND	13.3	122	43 - 153
4,4'-DDE [2C]	10.9	ND	12.5	115	45 - 149
Endrin [2C]	10.9	ND	14.9	137	47 - 175
Endosulfan II [2C]	10.9	ND	13.3	122	45 - 158
4,4'-DDD [2C]	10.9	ND	14.6	134	42 - 162
Endosulfan sulfate [2C]	10.9	ND	14.4	133	45 - 157
4,4'-DDT [2C]	10.9	ND	12.5	115	27 - 162
Methoxychlor [2C]	10.9	ND	14.3	132	25 - 189
Endrin ketone [2C]	10.9	ND	16.0	147	44 - 162
Endrin aldehyde [2C]	10.9	ND	14.6	134	48 - 163
alpha-Chlordane [2C]	10.9	ND	12.4	114	44 - 149
gamma-Chlordane [2C]	10.9	ND	12.9	119	46 - 151

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	92.00	Laboratory ID:	B8A1103-MSD1
Column:	2	Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
alpha-BHC [2C]	10.9	14.5	133	5.59	16	45 - 164
beta-BHC [2C]	10.9	12.6	116	3.39	22	45 - 150
delta-BHC [2C]	10.9	13.7	126	4.16	12	34 - 170
gamma-BHC [Lindane] [2C]	10.9	14.0	129	3.81	14	43 - 159
Heptachlor [2C]	10.9	13.7	126	4.13	17	37 - 167
Aldrin [2C]	10.9	12.3	113	3.76	18	43 - 153
Heptachlor Epoxide [2C]	10.9	12.1	111	4.98	19	44 - 152
Endosulfan I [2C]	10.9	13.3	123	1.62	16	46 - 159
Dieldrin [2C]	10.9	12.8	117	4.17	15	43 - 153
4,4'-DDE [2C]	10.9	12.1	112	2.65	15	45 - 149
Endrin [2C]	10.9	14.3	132	3.73	17	47 - 175
Endosulfan II [2C]	10.9	13.2	121	0.823	23	45 - 158
4,4'-DDD [2C]	10.9	15.3	141	5.09	17	42 - 162
Endosulfan sulfate [2C]	10.9	13.6	125	5.68	17	45 - 157
4,4'-DDT [2C]	10.9	11.8	108	5.97	28	27 - 162
Methoxychlor [2C]	10.9	13.7	126	4.13	27	25 - 189
Endrin ketone [2C]	10.9	15.6	144	2.29	25	44 - 162
Endrin aldehyde [2C]	10.9	14.2	130	2.77	18	48 - 163
alpha-Chlordane [2C]	10.9	12.1	111	2.07	13	44 - 149
gamma-Chlordane [2C]	10.9	12.5	115	3.14	18	46 - 151

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MS2
Column:	2	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	358	ND	300	83.8	46 - 122
Aroclor-1016 (1) [2C]	358	0.00	293	81.8	46 - 122
Aroclor-1016 (2) [2C]	358	0.00	303	84.5	46 - 122
Aroclor-1016 (3) [2C]	358	0.00	304	84.9	46 - 122
Aroclor-1260 [2C]	358	ND	320	89.5	51 - 125
Aroclor-1260 (1) [2C]	358	0.00	321	89.7	51 - 125
Aroclor-1260 (2) [2C]	358	0.00	321	89.6	51 - 125
Aroclor-1260 (3) [2C]	358	0.00	320	89.2	51 - 125

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B8A1103	Prep Method:	EPA 3550B
Percent Solids:	93.10	Laboratory ID:	B8A1103-MSD2
Column:	2	Client Sample ID:	1800019-03

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016 [2C]	358	306	85.3	1.88	18	46 - 122
Aroclor-1016 (1) [2C]	358	301	83.9	2.55	18	46 - 122
Aroclor-1016 (2) [2C]	358	304	84.9	0.543	18	46 - 122
Aroclor-1016 (3) [2C]	358	312	87.1	2.57	18	46 - 122
Aroclor-1260 [2C]	358	329	91.9	2.64	29	51 - 125
Aroclor-1260 (1) [2C]	358	333	93.0	3.68	29	51 - 125
Aroclor-1260 (2) [2C]	358	326	91.2	1.73	29	51 - 125
Aroclor-1260 (3) [2C]	358	328	91.5	2.51	29	51 - 125

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B8A1103	Lab Sample ID:	B8A1103-BS1
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC	10.0	12.5	125	41 - 161
beta-BHC	10.0	10.0	100	37 - 144
delta-BHC	10.0	12.1	121	40 - 167
gamma-BHC [Lindane]	10.0	12.0	120	40 - 166
Heptachlor	10.0	11.9	119	42 - 157
Aldrin	10.0	11.6	116	42 - 154
Heptachlor Epoxide	10.0	10.8	108	42 - 155
Endosulfan I	10.0	9.07	90.7	37 - 147
Dieldrin	10.0	11.1	111	41 - 167
4,4'-DDE	10.0	10.4	104	36 - 142
Endrin	10.0	11.5	115	53 - 175
Endosulfan II	10.0	9.67	96.7	47 - 157
4,4'-DDD	10.0	12.2	122	45 - 167
Endosulfan sulfate	10.0	11.6	116	47 - 153
4,4'-DDT	10.0	10.7	107	42 - 156
Methoxychlor	10.0	10.6	106	49 - 180
Endrin ketone	10.0	12.7	127	45 - 160
Endrin aldehyde	10.0	11.6	116	49 - 161
alpha-Chlordane	10.0	12.1	121	43 - 167
gamma-Chlordane	10.0	9.93	99.3	42 - 149



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid	Prep Method: EPA 3550B
Prep Batch: B8A1103	Lab Sample ID: B8A1103-BS2
Column: 1	

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	333	293	87.8	42 - 121
Aroclor-1016 (1)	333	285	85.6	42 - 121
Aroclor-1016 (2)	333	302	90.7	42 - 121
Aroclor-1016 (3)	333	290	87.1	42 - 121
Aroclor-1260	333	301	90.4	45 - 129
Aroclor-1260 (1)	333	299	89.6	45 - 129
Aroclor-1260 (2)	333	311	93.4	45 - 129
Aroclor-1260 (3)	333	294	88.2	45 - 129

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid	Prep Method: EPA 3550B
Prep Batch: B8A1103	Lab Sample ID: B8A1103-BS1
Column: 2	

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.0	12.0	120	45 - 164
beta-BHC [2C]	10.0	10.0	100	45 - 150
delta-BHC [2C]	10.0	11.4	114	34 - 170
gamma-BHC [Lindane] [2C]	10.0	11.4	114	43 - 159
Heptachlor [2C]	10.0	11.6	116	37 - 167
Aldrin [2C]	10.0	12.4	124	43 - 153
Heptachlor Epoxide [2C]	10.0	12.6	126	44 - 152
Endosulfan I [2C]	10.0	11.3	113	46 - 159
Dieldrin [2C]	10.0	11.3	113	43 - 153
4,4'-DDE [2C]	10.0	10.6	106	45 - 149
Endrin [2C]	10.0	12.7	127	47 - 175
Endosulfan II [2C]	10.0	12.0	120	45 - 158
4,4'-DDD [2C]	10.0	13.1	131	42 - 162
Endosulfan sulfate [2C]	10.0	11.7	117	45 - 157
4,4'-DDT [2C]	10.0	11.8	118	27 - 162
Methoxychlor [2C]	10.0	13.0	130	25 - 189
Endrin ketone [2C]	10.0	13.0	130	44 - 162
Endrin aldehyde [2C]	10.0	12.5	125	48 - 163
alpha-Chlordane [2C]	10.0	10.2	102	44 - 149
gamma-Chlordane [2C]	10.0	10.3	103	46 - 151



LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B8A1103	Lab Sample ID:	B8A1103-BS2
Column:	2		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	333	287	86.0	46 - 122
Aroclor-1016 (1) [2C]	333	292	87.6	46 - 122
Aroclor-1016 (2) [2C]	333	288	86.3	46 - 122
Aroclor-1016 (3) [2C]	333	281	84.2	46 - 122
Aroclor-1260 [2C]	333	297	89.1	51 - 125
Aroclor-1260 (1) [2C]	333	288	86.4	51 - 125
Aroclor-1260 (2) [2C]	333	295	88.6	51 - 125
Aroclor-1260 (3) [2C]	333	308	92.5	51 - 125

* Values outside of QC limits

**METHOD BLANK SUMMARY**

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Blank ID: B8A1103-BLK1

Batch: B8A1103

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A1103-BS1	G22022.D	01/11/2018 12:48
S-1	1800021-01	G22027.D	01/11/2018 15:16
Matrix Spike	B8A1103-MS1	G22028.D	01/11/2018 15:45
Matrix Spike Dup	B8A1103-MSD1	G22029.D	01/11/2018 16:13
Matrix Spike	B8A1103-MS2	G22030.D	01/11/2018 16:42
Matrix Spike Dup	B8A1103-MSD2	G22031.D	01/11/2018 17:11
LCS	B8A1103-BS2	G22032.D	01/11/2018 17:39



ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A0204	Instrument:	GCECD_GHF
Calibration:	18A1201		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S8A0204-PEM1	G21924.D	01/02/18 11:01
Cal Standard	S8A0204-CAL1	G21925.D	01/02/18 11:29
Cal Standard	S8A0204-CAL2	G21926.D	01/02/18 11:58
Cal Standard	S8A0204-CAL3	G21927.D	01/02/18 12:27
Cal Standard	S8A0204-CAL5	G21929.D	01/02/18 13:25
Cal Standard	S8A0204-CAL4	G21928.D	01/02/18 14:36
Cal Standard	S8A0204-CAL6	G21930.D	01/02/18 15:18
Cal Standard	S8A0204-CAL7	G21931.D	01/02/18 15:46
Cal Standard	S8A0204-CAL8	G21932.D	01/02/18 16:15
Cal Standard	S8A0204-CAL9	G21933.D	01/02/18 16:44
Cal Standard	S8A0204-CALA	G21934.D	01/02/18 17:13
Cal Standard	S8A0204-CALB	G21935.D	01/02/18 17:41
Cal Standard	S8A0204-CALC	G21936.D	01/02/18 18:10
Cal Standard	S8A0204-CALD	G21937.D	01/02/18 18:39
Cal Standard	S8A0204-CALE	G21938.D	01/02/18 19:07
Cal Standard	S8A0204-CALF	G21939.D	01/02/18 19:36
Cal Standard	S8A0204-CALG	G21940.D	01/02/18 20:05
Cal Standard	S8A0204-CALH	G21941.D	01/02/18 20:34
Cal Standard	S8A0204-CALI	G21942.D	01/02/18 21:02
Cal Standard	S8A0204-CALJ	G21943.D	01/02/18 21:31
Cal Standard	S8A0204-CALK	G21944.D	01/02/18 22:00
Aroclor Reference	S8A0204-ARC1	G21945.D	01/02/18 22:28
Aroclor Reference	S8A0204-ARC2	G21946.D	01/02/18 22:57

**ANALYSIS SEQUENCE SUMMARY**

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A0204	Instrument:	GCECD_GHF
Calibration:	18A1201		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Aroclor Reference	S8A0204-ARC3	G21947.D	01/02/18 23:26
Aroclor Reference	S8A0204-ARC4	G21948.D	01/02/18 23:54



ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A1102	Instrument:	GCECD_GHF
Calibration:	18A1201		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S8A1102-PEM1	G22013.D	01/11/18 08:20
Calibration Check	S8A1102-CCV1	G22014.D	01/11/18 08:49
Calibration Check	S8A1102-CCV2	G22015.D	01/11/18 09:18
Calibration Check	S8A1102-CCV3	G22016.D	01/11/18 09:47
Calibration Check	S8A1102-CCV4	G22017.D	01/11/18 10:15
Blank	B8A1103-BLK1	G22018.D	01/11/18 10:45
LCS	B8A1103-BS1	G22022.D	01/11/18 12:48
S-1	1800021-01	G22027.D	01/11/18 15:16
Matrix Spike	B8A1103-MS1	G22028.D	01/11/18 15:45
Matrix Spike Dup	B8A1103-MSD1	G22029.D	01/11/18 16:13
Matrix Spike	B8A1103-MS2	G22030.D	01/11/18 16:42
Matrix Spike Dup	B8A1103-MSD2	G22031.D	01/11/18 17:11
LCS	B8A1103-BS2	G22032.D	01/11/18 17:39



PEST/PCB CALIBRATION DATA


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INITIAL CALIBRATION DATA

EPA 8081/8082

Client: **MADDOX MATERIALS**
Work Order: **1800021**
Project: **Rosano Trucking / Fred McDowell**

Calibration:	18A1201				Instrument:	GCECD_GHF				Calibration Date:	1/2/2018 12:23:48PM	
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
alpha-BHC	0.08	2.333798E+07	0.04	2.25765E+07	0.02	1.99479E+07	0.01	1.9605E+07	0.002	1.6965E+07		
alpha-BHC [2C]	0.08	2.28337E+07	0.04	2.17844E+07	0.02	1.86884E+07	0.01	1.84282E+07	0.002	1.5539E+07		
beta-BHC											0.08	1.10153E+07
beta-BHC [2C]											0.08	1.012578E+07
delta-BHC											0.08	2.137395E+07
delta-BHC [2C]											0.08	2.0064E+07
gamma-BHC [Lindane]	0.08	2.151872E+07	0.04	2.11945E+07	0.02	1.92241E+07	0.01	1.8844E+07	0.002	1.7213E+07		
gamma-BHC [Lindane] [2C]	0.08	2.079912E+07	0.04	2.02235E+07	0.02	1.78208E+07	0.01	1.72714E+07	0.002	1.5692E+07		
Heptachlor	0.08	1.7485E+07	0.04	1.75943E+07	0.02	1.66429E+07	0.01	1.73934E+07	0.002	1.8206E+07		
Heptachlor [2C]	0.08	1.828378E+07	0.04	1.7881E+07	0.02	1.62948E+07	0.01	1.67624E+07	0.002	1.6146E+07		
Aldrin											0.08	2.14932E+07
Aldrin [2C]											0.08	1.988365E+07
Heptachlor Epoxide											0.08	1.871642E+07
Heptachlor Epoxide [2C]											0.08	1.737692E+07
Endosulfan I	0.08	1.673163E+07	0.04	1.650645E+07	0.02	1.5502E+07	0.01	1.63512E+07	0.002	1.6755E+07		
Endosulfan I [2C]	0.08	1.530085E+07	0.04	1.49779E+07	0.02	1.37041E+07	0.01	1.4171E+07	0.002	1.366E+07		
Dieldrin	0.16	1.674746E+07	0.08	1.683942E+07	0.04	1.56913E+07	0.02	1.61221E+07	0.004	1.5543E+07		
Dieldrin [2C]	0.16	1.644914E+07	0.08	1.617365E+07	0.04	1.464065E+07	0.02	1.44932E+07	0.004	1.38545E+07		
4,4'-DDE											0.16	1.837385E+07
4,4'-DDE [2C]											0.16	1.703921E+07
Endrin	0.16	1.28085E+07	0.08	1.309893E+07	0.04	1.25204E+07	0.02	1.29781E+07	0.004	1.45255E+07		
Endrin [2C]	0.16	1.196648E+07	0.08	1.1883E+07	0.04	1.091905E+07	0.02	1.08145E+07	0.004	1.14125E+07		
Endosulfan II											0.16	1.544686E+07
Endosulfan II [2C]											0.16	1.45029E+07
4,4'-DDD	0.16	1.18782E+07	0.08	1.202295E+07	0.04	1.121565E+07	0.02	1.16139E+07	0.004	1.1254E+07		


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INITIAL CALIBRATION DATA

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration:	18A1201						Instrument:	GCECD_GHF				
							Calibration Date:	1/2/2018 12:23:48PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]	0.16	1.173385E+07	0.08	1.159118E+07	0.04	1.05303E+07	0.02	1.03574E+07	0.004	9950500		
Endosulfan sulfate											0.16	1.410815E+07
Endosulfan sulfate [2C]											0.16	1.321891E+07
4,4'-DDT	0.16	1.232684E+07	0.08	1.246385E+07	0.04	1.18647E+07	0.02	1.26622E+07	0.004	1.2723E+07		
4,4'-DDT [2C]	0.16	1.20596E+07	0.08	1.20013E+07	0.04	1.11338E+07	0.02	1.14383E+07	0.004	1.0745E+07		
Methoxychlor	0.8	5329400	0.4	5720315	0.2	5865320	0.1	6559860	0.02	7169500		
Methoxychlor [2C]	0.8	5754995	0.4	6117765	0.2	6146980	0.1	6741180	0.02	6519100		
Endrin ketone											0.16	1.456931E+07
Endrin ketone [2C]											0.16	1.465515E+07
Endrin aldehyde											0.16	1.204271E+07
Endrin aldehyde [2C]											0.16	1.147046E+07
alpha-Chlordane											0.08	1.949805E+07
alpha-Chlordane [2C]											0.08	1.746728E+07
gamma-Chlordane											0.08	1.989968E+07
gamma-Chlordane [2C]											0.08	1.786565E+07
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												


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INITIAL CALIBRATION DATA

EPA 8081/8082

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 18A1201				Instrument: GCECD_GHF								
				Calibration Date: 1/2/2018 12:23:48PM								
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene	0.08	1.589408E+07	0.04	1.649485E+07	0.02	1.61416E+07	0.01	1.6431E+07	0.002	1.7231E+07		
Tetrachloro-m-xylene [2C]	0.08	1.512323E+07	0.04	1.57655E+07	0.02	1.52693E+07	0.01	1.61542E+07	0.002	1.677E+07		
Decachlorobiphenyl	0.16	1.840815E+07	0.08	1.910515E+07	0.04	1.921645E+07	0.02	2.13278E+07	0.004	2.25145E+07		
Decachlorobiphenyl [2C]	0.16	1.628346E+07	0.08	1.703548E+07	0.04	1.685535E+07	0.02	1.81535E+07	0.004	1.6604E+07		



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC	0.04	1.146515E+07	0.02	1.12415E+07	0.01	1.14024E+07	0.002	1.2897E+07				
beta-BHC [2C]	0.04	1.051315E+07	0.02	1.02736E+07	0.01	1.04012E+07	0.002	1.096E+07				
delta-BHC	0.04	2.086515E+07	0.02	1.87597E+07	0.01	1.70758E+07	0.002	1.6964E+07				
delta-BHC [2C]	0.04	1.921785E+07	0.02	1.68879E+07	0.01	1.53956E+07	0.002	1.5248E+07				
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin	0.04	2.106775E+07	0.02	1.92468E+07	0.01	1.85444E+07	0.002	1.9304E+07				
Aldrin [2C]	0.04	1.924355E+07	0.02	1.76155E+07	0.01	1.67298E+07	0.002	1.675E+07				
Heptachlor Epoxide	0.04	1.87254E+07	0.02	1.7417E+07	0.01	1.73844E+07	0.002	1.9308E+07				
Heptachlor Epoxide [2C]	0.04	1.71842E+07	0.02	1.60916E+07	0.01	1.60734E+07	0.002	1.7022E+07				
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE	0.08	1.86426E+07	0.04	1.779755E+07	0.02	1.76381E+07	0.004	1.82715E+07				
4,4'-DDE [2C]	0.08	1.705515E+07	0.04	1.60218E+07	0.02	1.57356E+07	0.004	1.62275E+07				
Endrin												
Endrin [2C]												
Endosulfan II	0.08	1.576115E+07	0.04	1.534895E+07	0.02	1.558E+07	0.004	1.7257E+07				
Endosulfan II [2C]	0.08	1.44917E+07	0.04	1.369895E+07	0.02	1.35354E+07	0.004	1.34335E+07				
4,4'-DDD												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate	0.08	1.40406E+07	0.04	1.35146E+07	0.02	1.35336E+07	0.004	1.42755E+07				
Endosulfan sulfate [2C]	0.08	1.28262E+07	0.04	1.19951E+07	0.02	1.15257E+07	0.004	1.0989E+07				
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone	0.08	1.465523E+07	0.04	1.42567E+07	0.02	1.39235E+07	0.004	1.4714E+07				
Endrin ketone [2C]	0.08	1.41002E+07	0.04	1.29012E+07	0.02	1.23057E+07	0.004	1.18325E+07				
Endrin aldehyde	0.08	1.232345E+07	0.04	1.23252E+07	0.02	1.28711E+07	0.004	1.5173E+07				
Endrin aldehyde [2C]	0.08	1.148138E+07	0.04	1.10433E+07	0.02	1.09324E+07	0.004	1.1186E+07				
alpha-Chlordane	0.04	1.96729E+07	0.02	1.87552E+07	0.01	1.89296E+07	0.002	2.0951E+07				
alpha-Chlordane [2C]	0.04	1.72834E+07	0.02	1.63713E+07	0.01	1.65E+07	0.002	1.7683E+07				
gamma-Chlordane	0.04	1.987715E+07	0.02	1.88599E+07	0.01	1.91482E+07	0.002	2.1134E+07				
gamma-Chlordane [2C]	0.04	1.760795E+07	0.02	1.65827E+07	0.01	1.6758E+07	0.002	1.7698E+07				
Toxaphene									10	241501.1	5	251076.2
Toxaphene (1)									10	198361.8	5	207512
Toxaphene (2)									10	344107.2	5	353730.4
Toxaphene (3)									10	241455.8	5	245892.4
Toxaphene (4)									10	182079.4	5	197169.6
Toxaphene [2C]									10	378826.8	5	390073.8
Toxaphene (1) [2C]									10	210050	5	220908
Toxaphene (2) [2C]									10	653193.6	5	673484
Toxaphene (3) [2C]									10	299978.8	5	302863.6
Toxaphene (4) [2C]									10	352084.8	5	363039.6


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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: **MADDOX MATERIALS**
Work Order: **1800021**
Project: **Rosano Trucking / Fred McDowell**

 Calibration: 18A1201

 Instrument: GCECD GHF

 Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene	2.5	261155.8	1	280387.5	0.1	314880						
Toxaphene (1)	2.5	216436	1	232080	0.1	277000						
Toxaphene (2)	2.5	364937.6	1	381120	0.1	417220						
Toxaphene (3)	2.5	249286.4	1	268278	0.1	284960						
Toxaphene (4)	2.5	213963.2	1	240072	0.1	280340						
Toxaphene [2C]	2.5	394098.2	1	392566.5	0.1	402385						
Toxaphene (1) [2C]	2.5	232360	1	234040	0.1	267020						
Toxaphene (2) [2C]	2.5	686044.8	1	698256	0.1	702080						
Toxaphene (3) [2C]	2.5	298411.2	1	280192	0.1	284440						
Toxaphene (4) [2C]	2.5	359576.8	1	357778	0.1	356000						



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1016							2	66877.5	1.5	70048.2	1	75719.33
Aroclor-1016 (1)							2	38954	1.5	40464	1	44341
Aroclor-1016 (2)							2	111960.5	1.5	117288	1	126779
Aroclor-1016 (3)							2	49718	1.5	52392.67	1	56038
Aroclor-1016 [2C]							2	69709.85	1.5	70588.47	1	77147.67
Aroclor-1016 (1) [2C]							2	51268	1.5	53877.33	1	59228
Aroclor-1016 (2) [2C]							2	110038	1.5	108000.7	1	120929
Aroclor-1016 (3) [2C]							2	47823.5	1.5	49887.33	1	51286
Aroclor-1260							2	115569	1.5	121216	1	127063
Aroclor-1260 (1)							2	73713.5	1.5	77881.34	1	81941
Aroclor-1260 (2)							2	109341.5	1.5	115352	1	121624
Aroclor-1260 (3)							2	163652	1.5	170414.7	1	177624
Aroclor-1260 [2C]							2	108056.5	1.5	110563.8	1	116944.7
Aroclor-1260 (1) [2C]							2	84455.5	1.5	87322.66	1	94784
Aroclor-1260 (2) [2C]							2	67149	1.5	68805.34	1	72663
Aroclor-1260 (3) [2C]							2	172565	1.5	175563.3	1	183387
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1201

Instrument: GCECD GHF

Calibration Date: 1/2/2018 12:23:48PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1016	0.5	83592	0.1	104376.7								
Aroclor-1016 (1)	0.5	48860	0.1	59470								
Aroclor-1016 (2)	0.5	140674	0.1	178410								
Aroclor-1016 (3)	0.5	61242	0.1	75250								
Aroclor-1016 [2C]	0.5	84011.34	0.1	104036.7								
Aroclor-1016 (1) [2C]	0.5	65116	0.1	78950								
Aroclor-1016 (2) [2C]	0.5	131112	0.1	165560								
Aroclor-1016 (3) [2C]	0.5	55806	0.1	67600								
Aroclor-1260	0.5	137362	0.1	166893.3								
Aroclor-1260 (1)	0.5	89100	0.1	115230								
Aroclor-1260 (2)	0.5	133036	0.1	161070								
Aroclor-1260 (3)	0.5	189950	0.1	224380								
Aroclor-1260 [2C]	0.5	122725.3	0.1	139666.7								
Aroclor-1260 (1) [2C]	0.5	103574	0.1	129240								
Aroclor-1260 (2) [2C]	0.5	76626	0.1	85950								
Aroclor-1260 (3) [2C]	0.5	187976	0.1	203810								
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	A	2.048648E+07	12.43697			CCC (20)	
alpha-BHC [2C]	A	1.945474E+07	14.94595			CCC (20)	
beta-BHC	A	1.160427E+07	6.40506			CCC (20)	
beta-BHC [2C]	A	1.045475E+07	3.034526			CCC (20)	
delta-BHC	A	1.900772E+07	10.85216			CCC (20)	
delta-BHC [2C]	A	1.736267E+07	12.65301			CCC (20)	
gamma-BHC [Lindane]	A	1.959887E+07	9.068148			CCC (20)	
gamma-BHC [Lindane] [2C]	A	1.836137E+07	11.55829			CCC (20)	
Heptachlor	A	1.746432E+07	3.197286			CCC (20)	
Heptachlor [2C]	A	1.70736E+07	5.618012			CCC (20)	
Aldrin	A	1.993123E+07	6.403922			CCC (20)	
Aldrin [2C]	A	1.80445E+07	8.034926			CCC (20)	
Heptachlor Epoxide	A	1.831025E+07	4.720203			CCC (20)	
Heptachlor Epoxide [2C]	A	1.674963E+07	3.712663			CCC (20)	
Endosulfan I	A	1.636926E+07	3.132009			CCC (20)	
Endosulfan I [2C]	A	1.436277E+07	5.190276			CCC (20)	
Dieldrin	A	1.618866E+07	3.660236			CCC (20)	
Dieldrin [2C]	A	1.512223E+07	7.467544			CCC (20)	
4,4'-DDE	A	1.814472E+07	2.295037			CCC (20)	
4,4'-DDE [2C]	A	1.641585E+07	3.668655			CCC (20)	
Endrin	A	1.318629E+07	5.91158			CCC (20)	
Endrin [2C]	A	1.139911E+07	4.659527			CCC (20)	
Endosulfan II	A	1.587879E+07	4.948682			CCC (20)	
Endosulfan II [2C]	A	1.393249E+07	3.762691			CCC (20)	
4,4'-DDD	A	1.159694E+07	3.1206			CCC (20)	
4,4'-DDD [2C]	A	1.083265E+07	7.273151			CCC (20)	



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Endosulfan sulfate	A	1.389449E+07	2.510553			CCC (20)	
Endosulfan sulfate [2C]	A	1.211098E+07	7.560736			CCC (20)	
4,4'-DDT	A	1.240812E+07	2.758815			CCC (20)	
4,4'-DDT [2C]	A	1.14756E+07	4.909031			CCC (20)	
Methoxychlor	A	6128879	11.94595			CCC (20)	
Methoxychlor [2C]	A	6256004	6.121417			CCC (20)	
Endrin ketone	A	1.442375E+07	2.292012			CCC (20)	
Endrin ketone [2C]	A	1.315895E+07	9.054528			CCC (20)	
Endrin aldehyde	A	1.294709E+07	9.88671			CCC (20)	
Endrin aldehyde [2C]	A	1.122271E+07	2.210202			CCC (20)	
alpha-Chlordane	A	1.956135E+07	4.424691			CCC (20)	
alpha-Chlordane [2C]	A	1.7061E+07	3.457449			CCC (20)	
gamma-Chlordane	A	1.978379E+07	4.451789			CCC (20)	
gamma-Chlordane [2C]	A	1.730246E+07	3.396485			CCC (20)	
Toxaphene	A	269800.1	10.75897			CCC (20)	
Toxaphene (1)	A	226278	13.68343			CCC (20)	
Toxaphene (2)	A	372223	7.704202			CCC (20)	
Toxaphene (3)	A	257974.5	7.06493			CCC (20)	
Toxaphene (4)	A	222724.8	17.39246			CCC (20)	
Toxaphene [2C]	A	391590.1	2.170542			CCC (20)	
Toxaphene (1) [2C]	A	232875.6	9.189088			CCC (20)	
Toxaphene (2) [2C]	A	682611.7	2.915499			CCC (20)	
Toxaphene (3) [2C]	A	293177.1	3.463528			CCC (20)	
Toxaphene (4) [2C]	A	357695.8	1.139559			CCC (20)	
Aroclor-1016	A	80122.75	18.68602			CCC (20)	
Aroclor-1016 (1)	A	46417.8	17.75844			CCC (20)	



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration:	18A1201	Instrument:	GCECD_GHF
		Calibration Date:	1/2/2018 12:23:48PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016 (2)	A	135022.3	19.69522			CCC (20)	
Aroclor-1016 (3)	A	58928.13	17.13131			CCC (20)	
Aroclor-1016 [2C]	A	81098.81	17.33339			CCC (20)	
Aroclor-1016 (1) [2C]	A	61687.87	17.85678			CCC (20)	
Aroclor-1016 (2) [2C]	A	127127.9	18.40246			CCC (20)	
Aroclor-1016 (3) [2C]	A	54480.57	14.4964			CCC (20)	
Aroclor-1260	A	133620.7	15.17126			CCC (20)	
Aroclor-1260 (1)	A	87573.17	18.80653			CCC (20)	
Aroclor-1260 (2)	A	128084.7	15.94167			CCC (20)	
Aroclor-1260 (3)	A	185204.1	12.94166			CCC (20)	
Aroclor-1260 [2C]	A	119591.4	10.53053			CCC (20)	
Aroclor-1260 (1) [2C]	A	99875.23	18.03101			CCC (20)	
Aroclor-1260 (2) [2C]	A	74238.67	10.10529			CCC (20)	
Aroclor-1260 (3) [2C]	A	184660.3	6.678562			CCC (20)	
Tetrachloro-m-xylene	A	1.643851E+07	3.065627			CCC (20)	
Tetrachloro-m-xylene [2C]	A	1.581645E+07	4.248184			CCC (20)	
Decachlorobiphenyl	A	2.011441E+07	8.599868			CCC (20)	
Decachlorobiphenyl [2C]	A	1.698636E+07	4.185682			CCC (20)	

* Values outside of QC limits



AROCLOL INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	05.57	05.52	05.62	22333
		2	05.76	05.71	05.81	16190
		3	05.87	05.82	05.92	54877
		4				
		5				
Aroclor 1254	1.000	1	09.81	09.76	09.86	79272
		2	10.96	10.91	11.01	113970
		3	11.88	11.83	11.93	102901
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	06.69	06.64	06.74	20331
		2	06.99	06.94	07.04	14381
		3	07.12	07.07	07.17	49562
		4				
		5				
Aroclor 1254	1.000	1	11.12	11.07	11.17	56910
		2	12.38	12.33	12.43	82518
		3	13.41	13.36	13.46	98263
		4				
		5				



AROCOR INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	05.87	05.82	05.92	44520
		2	07.54	07.49	07.59	61489
		3	07.73	07.68	07.78	26878
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	07.12	07.07	07.17	40202
		2	08.85	08.80	08.90	37371
		3	09.11	09.06	09.16	25578
		4				
		5				



AROCOR INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	07.03	06.98	07.08	34821
		2	07.54	07.49	07.59	99545
		3	08.82	08.77	08.87	39790
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	07.94	07.89	07.99	46428
		2	08.85	08.80	08.90	60645
		3	09.11	09.06	09.16	39960
		4				
		5				



AROCOR INITIAL CALIBRATION (SINGLE POINT)

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC4

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1248	1.000	1	07.54	07.49	07.59	70180
		2	07.73	07.68	07.78	27996
		3	08.82	08.77	08.87	60793
		4				
		5				

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 01/02/2018

Lab Number: S8A0204-ARC4

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1248	1.000	1	08.85	08.80	08.90	37030
		2	09.11	09.06	09.16	24076
		3	11.22	11.17	11.27	57496
		4				
		5				



Breakdown Report

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Lab Sample ID: S8A0204-PEM1 Analyzed: 01/02/2018

Column Number: 1

Analyte	% Breakdown
Endrin	0.86
4,4'-DDT	1.50

Column Number: 2

Analyte	% Breakdown
Endrin	0.00
4,4'-DDT	0.75

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
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Breakdown Report

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Lab Sample ID: S8A1102-PEM1 Analyzed: 01/11/2018

Column Number: 1

Analyte	% Breakdown
Endrin	7.01
4,4'-DDT	0.83

Column Number: 2

Analyte	% Breakdown
Endrin	8.62
4,4'-DDT	0.19



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22014.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV1	Injection Time: 08:49

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.0200	0.0222	2.048648E+07	2.27027E+07		10.8	20
alpha-BHC [2C]	A	0.0200	0.0216	1.945474E+07	2.0973E+07		7.8	20
gamma-BHC [Lindane]	A	0.0200	0.0222	1.959887E+07	2.17094E+07		10.8	20
gamma-BHC [Lindane] [2C]	A	0.0200	0.0215	1.836137E+07	1.97652E+07		7.6	20
Heptachlor	A	0.0200	0.0210	1.746432E+07	1.83636E+07		5.1	20
Heptachlor [2C]	A	0.0200	0.0202	1.70736E+07	1.72529E+07		1.1	20
Endosulfan I	A	0.0200	0.0219	1.636926E+07	1.79381E+07		9.6	20
Endosulfan I [2C]	A	0.0200	0.0210	1.436277E+07	1.50627E+07		4.9	20
Dieldrin	A	0.0400	0.0437	1.618866E+07	1.7669E+07		9.1	20
Dieldrin [2C]	A	0.0400	0.0417	1.512223E+07	1.57533E+07		4.2	20
Endrin	A	0.0400	0.0368	1.318629E+07	1.2144E+07		-7.9	20
Endrin [2C]	A	0.0400	0.0360	1.139911E+07	1.024845E+07		-10.1	20
4,4'-DDD	A	0.0400	0.0425	1.159694E+07	1.23253E+07		6.3	20
4,4'-DDD [2C]	A	0.0400	0.0413	1.083265E+07	1.11887E+07		3.3	20
4,4'-DDT	A	0.0400	0.0440	1.240812E+07	1.36444E+07		10.0	20
4,4'-DDT [2C]	A	0.0400	0.0423	1.14756E+07	1.21454E+07		5.8	20
Methoxychlor	A	0.200	0.196	6128879	5998370		-2.1	20
Methoxychlor [2C]	A	0.200	0.195	6256004	6086970		-2.7	20
Tetrachloro-m-xylene	A	0.0200	0.0218	1.643851E+07	1.79176E+07		9.0	20
Tetrachloro-m-xylene [2C]	A	0.0200	0.0213	1.581645E+07	1.68532E+07		6.6	20
Decachlorobiphenyl	A	0.0400	0.0441	2.011441E+07	2.215875E+07		10.2	20
Decachlorobiphenyl [2C]	A	0.0400	0.0445	1.698636E+07	1.89066E+07		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22015.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV2	Injection Time: 09:18

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
beta-BHC	A	0.0200	0.0210	1.160427E+07	1.21749E+07		4.9	20
beta-BHC [2C]	A	0.0200	0.0210	1.045475E+07	1.09715E+07		4.9	20
delta-BHC	A	0.0200	0.0208	1.900772E+07	1.97289E+07		3.8	20
delta-BHC [2C]	A	0.0200	0.0207	1.736267E+07	1.79786E+07		3.5	20
Aldrin	A	0.0200	0.0209	1.993123E+07	2.08483E+07		4.6	20
Aldrin [2C]	A	0.0200	0.0203	1.80445E+07	1.83104E+07		1.5	20
Heptachlor Epoxide	A	0.0200	0.0208	1.831025E+07	1.90821E+07		4.2	20
Heptachlor Epoxide [2C]	A	0.0200	0.0202	1.674963E+07	1.69461E+07		1.2	20
4,4'-DDE	A	0.0400	0.0414	1.814472E+07	1.87909E+07		3.6	20
4,4'-DDE [2C]	A	0.0400	0.0405	1.641585E+07	1.6604E+07		1.1	20
Endosulfan II	A	0.0400	0.0408	1.587879E+07	1.621615E+07		2.1	20
Endosulfan II [2C]	A	0.0400	0.0407	1.393249E+07	1.416905E+07		1.7	20
Endosulfan sulfate	A	0.0400	0.0407	1.389449E+07	1.413445E+07		1.7	20
Endosulfan sulfate [2C]	A	0.0400	0.0409	1.211098E+07	1.237945E+07		2.2	20
Endrin ketone	A	0.0400	0.0460	1.442375E+07	1.658435E+07		15.0	20
Endrin ketone [2C]	A	0.0400	0.0468	1.315895E+07	1.53981E+07		17.0	20
Endrin aldehyde	A	0.0400	0.0396	1.294709E+07	1.282385E+07		-1.0	20
Endrin aldehyde [2C]	A	0.0400	0.0408	1.122271E+07	1.14583E+07		2.1	20
alpha-Chlordane	A	0.0200	0.0209	1.956135E+07	2.04547E+07		4.6	20
alpha-Chlordane [2C]	A	0.0200	0.0201	1.7061E+07	1.7179E+07		0.7	20
gamma-Chlordane	A	0.0200	0.0206	1.978379E+07	2.03972E+07		3.1	20
gamma-Chlordane [2C]	A	0.0200	0.0202	1.730246E+07	1.74826E+07		1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22016.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV3	Injection Time: 09:47

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	2.50	2.58	269800.1	278307.2		3.2	20
Toxaphene (1)	A	2.50	2.58	226278	233880		3.4	20
Toxaphene (2)	A	2.50	2.58	372223	384790.4		3.4	20
Toxaphene (3)	A	2.50	2.64	257974.5	272260		5.5	20
Toxaphene (4)	A	2.50	2.50	222724.8	222298.4		-0.2	20
Toxaphene [2C]	A	2.50	2.72	391590.1	425487.2		8.7	20
Toxaphene (1) [2C]	A	2.50	2.67	232875.6	248711.2		6.8	20
Toxaphene (2) [2C]	A	2.50	2.70	682611.7	736495.2		7.9	20
Toxaphene (3) [2C]	A	2.50	2.72	293177.1	318644.8		8.7	20
Toxaphene (4) [2C]	A	2.50	2.78	357695.8	398097.6		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GCECD_GHF	Calibration: 18A1201
Lab File ID: G22017.D	Calibration Date: 01/02/18 12:23
Sequence: S8A1102	Injection Date: 01/11/18
Lab Sample ID: S8A1102-CCV4	Injection Time: 10:15

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	1.00	0.978	80122.75	77873.67		-2.8	20
Aroclor-1016 (1)	A	1.00	0.982	46417.8	45570		-1.8	20
Aroclor-1016 (2)	A	1.00	0.960	135022.3	129577		-4.0	20
Aroclor-1016 (3)	A	1.00	0.992	58928.13	58474		-0.8	20
Aroclor-1016 [2C]	A	1.00	0.988	81098.81	79564.33		-1.9	20
Aroclor-1016 (1) [2C]	A	1.00	0.989	61687.87	60996		-1.1	20
Aroclor-1016 (2) [2C]	A	1.00	0.964	127127.9	122588		-3.6	20
Aroclor-1016 (3) [2C]	A	1.00	1.01	54480.57	55109		1.2	20
Aroclor-1260	A	1.00	0.986	133620.7	131850.3		-1.3	20
Aroclor-1260 (1)	A	1.00	0.978	87573.17	85614		-2.2	20
Aroclor-1260 (2)	A	1.00	0.991	128084.7	126960		-0.9	20
Aroclor-1260 (3)	A	1.00	0.988	185204.1	182977		-1.2	20
Aroclor-1260 [2C]	A	1.00	0.981	119591.4	117517		-1.7	20
Aroclor-1260 (1) [2C]	A	1.00	0.957	99875.23	95550		-4.3	20
Aroclor-1260 (2) [2C]	A	1.00	0.997	74238.67	73985		-0.3	20
Aroclor-1260 (3) [2C]	A	1.00	0.991	184660.3	183016		-0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits


Accredited Analytical Resources, LLC.

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CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV1(1) Date Analyzed: 01/11/2018 0849

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	05.92	05.87	05.97	20486480	22702700	10.8
gamma-BHC [Lindane]	06.53	06.48	06.58	19598870	21709400	10.8
Heptachlor	07.87	07.82	07.92	17464320	18363600	5.1
Endosulfan I	09.97	09.92	10.02	16369260	17938100	9.6
Dieldrin	10.45	10.40	10.50	16188660	17669000	9.1
Endrin	10.87	10.82	10.92	13186290	12144000	-7.9
4,4'-DDD	11.11	11.06	11.16	11596940	12325300	6.3
4,4'-DDT	11.80	11.75	11.85	12408120	13644400	10.0
Methoxychlor	12.81	12.76	12.86	6128879	5998370	-2.1
Tetrachloro-m-xylene	05.18	05.13	05.23	16438510	17917600	9.0
Decachlorobiphenyl	17.70	17.65	17.75	20114410	22158750	10.2

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV1(2) Date Analyzed: 01/11/2018 0849

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	07.42	07.37	07.47	19454740	20973000	7.8
gamma-BHC [Lindane]	08.17	08.12	08.22	18361370	19765200	7.6
Heptachlor	09.08	09.03	09.13	17073600	17252900	1.1
Endosulfan I	11.56	11.51	11.61	14362770	15062700	4.9
Dieldrin	12.06	12.01	12.11	15122230	15753300	4.2
Endrin	12.63	12.58	12.68	11399110	10248450	-10.1
4,4'-DDD	12.78	12.73	12.83	10832650	11188700	3.3
4,4'-DDT	13.40	13.35	13.45	11475600	12145400	5.8
Methoxychlor	15.06	15.01	15.11	6256004	6086970	-2.7
Tetrachloro-m-xylene	06.08	06.03	06.13	15816450	16853200	6.6
Decachlorobiphenyl	21.07	21.02	21.12	16986360	18906600	11.3



CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV2(1) Date Analyzed: 01/11/2018 0918

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	06.40	06.35	06.45	11604270	12174900	4.9
delta-BHC	06.96	06.91	07.01	19007720	19728900	3.8
Aldrin	08.54	08.49	08.59	19931230	20848300	4.6
Heptachlor Epoxide	09.28	09.23	09.33	18310250	19082100	4.2
4,4'-DDE	10.34	10.29	10.39	18144720	18790900	3.6
Endosulfan II	11.03	10.98	11.08	15878790	16216150	2.1
Endosulfan sulfate	11.80	11.75	11.85	13894490	14134450	1.7
Endrin ketone	12.69	12.64	12.74	14423750	16584350	15.0
Endrin aldehyde	11.37	11.32	11.42	12947090	12823850	-1.0
alpha-Chlordane	10.00	09.95	10.05	19561350	20454700	4.6
gamma-Chlordane	09.72	09.67	09.77	19783790	20397200	3.1

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV2(2) Date Analyzed: 01/11/2018 0918

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	08.33	08.28	08.38	10454750	10971500	4.9
delta-BHC	08.93	08.88	08.98	17362670	17978600	3.5
Aldrin	09.72	09.67	09.77	18044500	18310400	1.5
Heptachlor Epoxide	10.82	10.77	10.87	16749630	16946100	1.2
4,4'-DDE	11.72	11.67	11.77	16415850	16604000	1.1
Endosulfan II	13.03	12.98	13.08	13932490	14169050	1.7
Endosulfan sulfate	14.38	14.33	14.43	12110980	12379450	2.2
Endrin ketone	15.92	15.87	15.97	13158950	15398100	17.0
Endrin aldehyde	13.73	13.68	13.78	11222710	11458300	2.1
alpha-Chlordane	11.44	11.39	11.49	17061000	17179000	0.7
gamma-Chlordane	11.17	11.12	11.22	17302460	17482600	1.0



CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV3(1) Date Analyzed: 01/11/2018 0947

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	12.62	12.57	12.67	269800	278307	3.2
Toxaphene (1)	10.37	10.32	10.42	226278	233880	3.4
Toxaphene (2)	10.84	10.79	10.89	372223	384790	3.4
Toxaphene (3)	12.25	12.20	12.30	257975	272260	5.5
Toxaphene (4)	12.62	12.57	12.67	222725	222298	-0.2

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV3(2) Date Analyzed: 01/11/2018 0947

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	15.03	14.98	15.08	391590	425487	8.7
Toxaphene (1)	12.02	11.97	12.07	232876	248711	6.8
Toxaphene (2)	13.19	13.14	13.24	682612	736495	7.9
Toxaphene (3)	13.73	13.68	13.78	293177	318645	8.7
Toxaphene (4)	15.03	14.98	15.08	357696	398098	11.3


Accredited Analytical Resources, LLC.

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 Carteret, New Jersey 07008
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CALIBRATION VERIFICATION SUMMARY

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV4(1) Date Analyzed: 01/11/2018 1015

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aroclor-1016	07.74	07.69	07.79	80123	77874	-2.8
Aroclor-1016 (1)	07.04	06.99	07.09	46418	45570	-1.8
Aroclor-1016 (2)	07.55	07.50	07.60	135022	129577	-4.0
Aroclor-1016 (3)	07.74	07.69	07.79	58928	58474	-0.8
Aroclor-1260	13.12	13.07	13.17	133621	131850	-1.3
Aroclor-1260 (1)	10.95	10.90	11.00	87573	85614	-2.2
Aroclor-1260 (2)	11.89	11.84	11.94	128085	126960	-0.9
Aroclor-1260 (3)	13.12	13.07	13.17	185204	182977	-1.2

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Client Sample No. (Calib##): Calibration Check Init. Calib. Date(s): 01/02/2018
 Lab Sample ID (Calib): S8A1102-CCV4(2) Date Analyzed: 01/11/2018 1015

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aroclor-1016	09.12	09.07	09.17	81099	79564	-1.9
Aroclor-1016 (1)	07.95	07.90	08.00	61688	60996	-1.1
Aroclor-1016 (2)	08.86	08.81	08.91	127128	122588	-3.6
Aroclor-1016 (3)	09.12	09.07	09.17	54481	55109	1.2
Aroclor-1260	14.93	14.88	14.98	119591	117517	-1.7
Aroclor-1260 (1)	12.70	12.65	12.75	99875	95550	-4.3
Aroclor-1260 (2)	14.30	14.25	14.35	74239	73985	-0.3
Aroclor-1260 (3)	14.93	14.88	14.98	184660	183016	-0.9



SEMIVOLATILES



SEMIVOLATILES SAMPLE DATA



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3550B GCMS	File ID:	B6285.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 14:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	37.0	92.5	U
100-52-7	Benzaldehyde	ND	37.0	92.5	U
108-95-2	Phenol	ND	37.0	92.5	U
111-44-4	bis(2-chloroethyl)ether	ND	37.0	92.5	U
95-57-8	2-Chlorophenol	ND	37.0	92.5	U
95-48-7	2-Methylphenol	ND	37.0	92.5	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	37.0	92.5	U
98-86-2	Acetophenone	ND	37.0	92.5	U
106-44-5	3 & 4-Methylphenol	ND	37.0	92.5	U
621-64-7	N-Nitroso-di-n-propylamine	ND	37.0	92.5	U
67-72-1	Hexachloroethane	ND	37.0	92.5	U
98-95-3	Nitrobenzene	ND	37.0	92.5	U
78-59-1	Isophorone	ND	37.0	92.5	U
88-75-5	2-Nitrophenol	ND	37.0	92.5	U
105-67-9	2,4-Dimethylphenol	ND	37.0	92.5	U
111-91-1	bis(2-chloroethoxy)methane	ND	37.0	92.5	U
120-83-2	2,4-Dichlorophenol	ND	37.0	92.5	U
91-20-3	Naphthalene	ND	37.0	92.5	U
106-47-8	4-Chloroaniline	ND	37.0	92.5	U
87-68-3	Hexachlorobutadiene	ND	37.0	92.5	U
105-60-2	Caprolactam	ND	37.0	92.5	U
59-50-7	4-Chloro-3-methylphenol	ND	37.0	92.5	U
91-57-6	2-Methylnaphthylene	ND	37.0	92.5	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	37.0	92.5	U



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3550B GCMS	File ID:	B6285.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 14:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	37.0	92.5	U
88-06-2	2,4,6-Trichlorophenol	ND	37.0	92.5	U
95-95-4	2,4,5-Trichlorophenol	ND	37.0	92.5	U
91-58-7	2-Chloronaphthalene	ND	37.0	92.5	U
92-52-4	1,1-Biphenyl	ND	37.0	92.5	U
88-74-4	2-Nitroaniline	ND	37.0	92.5	U
131-11-3	Dimethylphthalate	ND	37.0	92.5	U
208-96-8	Acenaphthylene	ND	37.0	92.5	U
99-09-2	3-Nitroaniline	ND	37.0	92.5	U
83-32-9	Acenaphthene	ND	37.0	92.5	U
51-28-5	2,4-Dinitrophenol	ND	37.0	185	U
100-02-7	4-Nitrophenol	ND	37.0	92.5	U
132-64-9	Dibenzofuran	ND	37.0	92.5	U
606-20-2	2,6-Dinitrotoluene	ND	37.0	92.5	U
121-14-2	2,4-Dinitrotoluene	ND	37.0	92.5	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	37.0	92.5	U
84-66-2	Diethyl phthalate	ND	37.0	92.5	U
7005-72-3	4-Chlorophenyl-phenylether	ND	37.0	92.5	U
86-73-7	Fluorene	ND	37.0	92.5	U
100-01-6	4-Nitroaniline	ND	37.0	92.5	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	37.0	92.5	U
86-74-8	Carbazole	ND	37.0	92.5	U
86-30-6	N-Nitrosodiphenylamine	ND	37.0	92.5	U
122-66-7	1,2-Diphenylhydrazine	ND	37.0	92.5	U



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3550B GCMS	File ID:	B6285.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 14:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-33-3	Azobenzene	ND	37.0	92.5	U
101-55-3	4-Bromophenyl-phenylether	ND	37.0	92.5	U
1912-24-9	Atrazine	ND	37.0	92.5	U
118-74-1	Hexachlorobenzene	ND	37.0	92.5	U
87-86-5	Pentachlorophenol	ND	37.0	92.5	U
85-01-8	Phenanthrene	ND	37.0	92.5	U
120-12-7	Anthracene	ND	37.0	92.5	U
84-74-2	Di-n-butyl phthalate	ND	37.0	92.5	U
206-44-0	Fluoranthene	ND	37.0	92.5	U
92-87-5	Benzidine	ND	92.1	92.5	U
129-00-0	Pyrene	ND	37.0	92.5	U
85-68-7	Butylbenzylphthalate	ND	37.0	92.5	U
91-94-1	3,3'-Dichlorobenzidine	ND	92.1	92.5	U
56-55-3	Benzo[a]anthracene	ND	37.0	92.5	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	37.0	92.5	U
218-01-9	Chrysene	ND	37.0	92.5	U
117-84-0	Di-n-octyl phthalate	ND	37.0	92.5	U
205-99-2	Benzo[b]fluoranthene	ND	37.0	92.5	U
207-08-9	Benzo[k]fluoranthene	ND	37.0	92.5	U
50-32-8	Benzo[a]pyrene	ND	37.0	92.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37.0	92.5	U
53-70-3	Dibenzo(a,h)anthracene	ND	37.0	92.5	U
191-24-2	Benzo[ghi]perylene	ND	37.0	92.5	U

Surrogate% RecoveryRecovery Limits



ANALYSIS DATA SHEET

EPA 8270

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/11/18 05:28	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 3550B GCMS	File ID:	B6285.D
Prep Batch:	B8A1102	Sequence:	S8A1210	Analyzed:	01/12/18 14:41
Dilution:	1			Analyst:	DSM

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	75%	41-102
Phenol-d5	82%	47-113
Nitrobenzene-d5	72%	38-100
2-Fluorobiphenyl	65%	38-88
2,4,6-Tribromophenol	95%	40-129
Terphenyl-d14	82%	31-145

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\B\DATA18\JAN18\B0112\B6285.D

Vial: 2

Acq On : 12 Jan 2018 14:41

Operator: DSM

Sample : 1800021-01

Inst : GC/MS B

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 12 15:28 2018

Quant Results File: SVB81221.RES

Quant Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Wed Jan 03 09:59:51 2018

Response via : Initial Calibration

DataAcq Meth : SVB81221

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.30	152	304406	40.000	ul/l	-0.05
21) Naphthalene-d8	13.24	136	1140979	40.000	ul/l	-0.07
38) Acenaphthene-d10	17.41	164	608680	40.000	ul/l	-0.07
62) Phenanthrene-d10	20.94	188	1206918	40.000	ul/l	-0.05
76) Chrysene-d12	27.25	240	1346952	40.000	ul/l	-0.07
85) Perylene-d12	30.39	264	1249350	40.000	ul/l	-0.06

System Monitoring Compounds

4) 2-Fluorophenol	7.44	112	941627	89.627	ul/l	0.00
Spiked Amount 120.000	Range 41 - 102		Recovery =	74.69%		
7) Phenol-d5	9.63	99	1310927	98.729	ul/l	-0.04
Spiked Amount 120.000	Range 47 - 113		Recovery =	82.27%		
22) Nitrobenzene-d5	11.60	82	970830	72.158	ul/l	-0.05
Spiked Amount 100.000	Range 38 - 100		Recovery =	72.16%		
43) 2-Fluorobiphenyl	15.88	172	1593799	65.295	ul/l	-0.06
Spiked Amount 100.000	Range 38 - 88		Recovery =	65.30%		
61) 2,4,6-Tribromophenol	19.31	330	972641	113.554	ul/l	-0.06
Spiked Amount 120.000	Range 40 - 129		Recovery =	94.62%		
79) Terphenyl-d14	24.87	244	2496587	81.920	ul/l	-0.02
Spiked Amount 100.000	Range 31 - 145		Recovery =	81.92%		

Target Compounds

Qvalue

Data File : D:\B\DATA18\JAN18\B0112\B6285.D

Acq On : 12 Jan 2018 14:41

Sample : 1800021-01

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 12 15:28 2018

Vial: 2

Operator: DSM

Inst : GC/MS B

Multiplr: 1.00

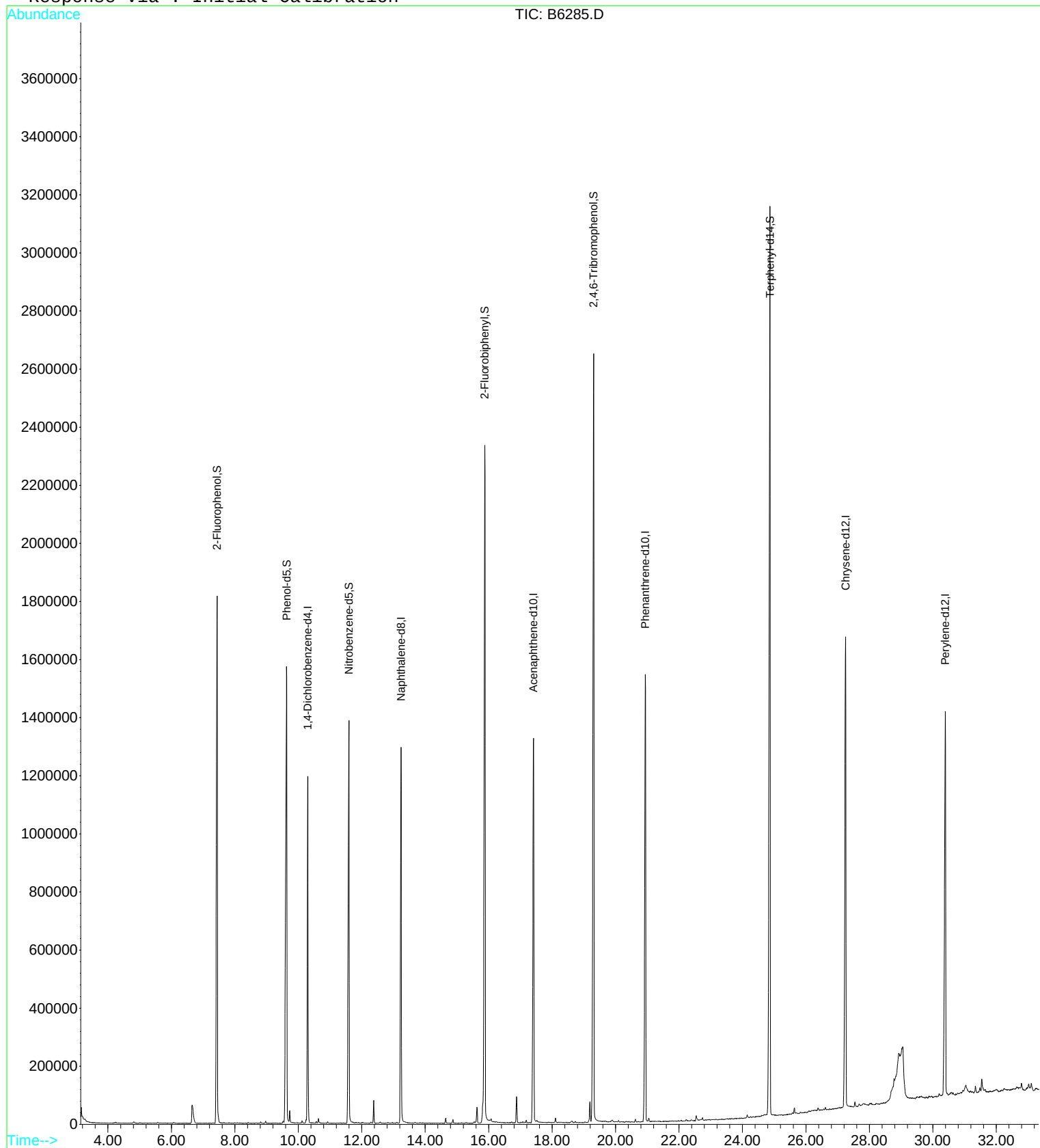
Quant Results File: SVB81221.RES

Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Fri Jan 12 13:06:23 2018

Response via : Initial Calibration





SEMIVOLATILES QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	33.3	83.3	U
100-52-7	Benzaldehyde	ND	33.3	83.3	U
108-95-2	Phenol	ND	33.3	83.3	U
111-44-4	bis(2-chloroethyl)ether	ND	33.3	83.3	U
95-57-8	2-Chlorophenol	ND	33.3	83.3	U
95-48-7	2-Methylphenol	ND	33.3	83.3	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	33.3	83.3	U
98-86-2	Acetophenone	ND	33.3	83.3	U
106-44-5	3 & 4-Methylphenol	ND	33.3	83.3	U
621-64-7	N-Nitroso-di-n-propylamine	ND	33.3	83.3	U
67-72-1	Hexachloroethane	ND	33.3	83.3	U
98-95-3	Nitrobenzene	ND	33.3	83.3	U
78-59-1	Isophorone	ND	33.3	83.3	U
88-75-5	2-Nitrophenol	ND	33.3	83.3	U
105-67-9	2,4-Dimethylphenol	ND	33.3	83.3	U
111-91-1	bis(2-chloroethoxy)methane	ND	33.3	83.3	U
120-83-2	2,4-Dichlorophenol	ND	33.3	83.3	U
91-20-3	Naphthalene	ND	33.3	83.3	U
106-47-8	4-Chloroaniline	ND	33.3	83.3	U
87-68-3	Hexachlorobutadiene	ND	33.3	83.3	U
105-60-2	Caprolactam	ND	33.3	83.3	U
59-50-7	4-Chloro-3-methylphenol	ND	33.3	83.3	U
91-57-6	2-Methylnaphthylene	ND	33.3	83.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	33.3	83.3	U
77-47-4	Hexachlorocyclopentadiene	ND	33.3	83.3	U
88-06-2	2,4,6-Trichlorophenol	ND	33.3	83.3	U
95-95-4	2,4,5-Trichlorophenol	ND	33.3	83.3	U
91-58-7	2-Chloronaphthalene	ND	33.3	83.3	U
92-52-4	1,1-Biphenyl	ND	33.3	83.3	U
88-74-4	2-Nitroaniline	ND	33.3	83.3	U
131-11-3	Dimethylphthalate	ND	33.3	83.3	U
208-96-8	Acenaphthylene	ND	33.3	83.3	U
99-09-2	3-Nitroaniline	ND	33.3	83.3	U
83-32-9	Acenaphthene	ND	33.3	83.3	U
51-28-5	2,4-Dinitrophenol	ND	33.3	167	U
100-02-7	4-Nitrophenol	ND	33.3	83.3	U
132-64-9	Dibenzofuran	ND	33.3	83.3	U
606-20-2	2,6-Dinitrotoluene	ND	33.3	83.3	U
121-14-2	2,4-Dinitrotoluene	ND	33.3	83.3	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	33.3	83.3	U
84-66-2	Diethyl phthalate	ND	33.3	83.3	U
7005-72-3	4-Chlorophenyl-phenylether	ND	33.3	83.3	U
86-73-7	Fluorene	ND	33.3	83.3	U
100-01-6	4-Nitroaniline	ND	33.3	83.3	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	33.3	83.3	U
86-74-8	Carbazole	ND	33.3	83.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine	ND	33.3	83.3	U
122-66-7	1,2-Diphenylhydrazine	ND	33.3	83.3	U
103-33-3	Azobenzene	ND	33.3	83.3	U
101-55-3	4-Bromophenyl-phenylether	ND	33.3	83.3	U
1912-24-9	Atrazine	ND	33.3	83.3	U
118-74-1	Hexachlorobenzene	ND	33.3	83.3	U
87-86-5	Pentachlorophenol	ND	33.3	83.3	U
85-01-8	Phenanthrene	ND	33.3	83.3	U
120-12-7	Anthracene	ND	33.3	83.3	U
84-74-2	Di-n-butyl phthalate	ND	33.3	83.3	U
206-44-0	Fluoranthene	ND	33.3	83.3	U
92-87-5	Benzidine	ND	83.0	83.3	U
129-00-0	Pyrene	ND	33.3	83.3	U
85-68-7	Butylbenzylphthalate	ND	33.3	83.3	U
91-94-1	3,3'-Dichlorobenzidine	ND	83.0	83.3	U
56-55-3	Benzo[a]anthracene	ND	33.3	83.3	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	33.3	83.3	U
218-01-9	Chrysene	ND	33.3	83.3	U
117-84-0	Di-n-octyl phthalate	ND	33.3	83.3	U
205-99-2	Benzo[b]fluoranthene	ND	33.3	83.3	U
207-08-9	Benzo[k]fluoranthene	ND	33.3	83.3	U
50-32-8	Benzo[a]pyrene	ND	33.3	83.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.3	83.3	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1102-BLK1	File ID:	B6269.D
Batch:	B8A1102	Prepared:	01/11/18 05:28	Analyzed:	01/11/18 16:59
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S8A1107	Instrument:	GC/MS B

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
53-70-3	Dibenzo(a,h)anthracene	ND	33.3	83.3	U
191-24-2	Benzo[ghi]perylene	ND	33.3	83.3	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	72%	41-102
Phenol-d5	78%	47-113
Nitrobenzene-d5	68%	38-100
2-Fluorobiphenyl	62%	38-88
2,4,6-Tribromophenol	94%	40-129
Terphenyl-d14	77%	31-145

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\B\DATA18\JAN18\B0111\B6269.D

Acq On : 11 Jan 2018 16:59

Sample : B8A1102-BLK1

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 12 8:49 2018

Vial: 5

Operator: DSM

Inst : GC/MS B

Multiplr: 1.00

Quant Results File: SVB81221.RES

Quant Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Wed Jan 03 09:59:51 2018

Response via : Initial Calibration

DataAcq Meth : SVB81221

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.28	152	265184	40.000	ul/l	-0.07
21) Naphthalene-d8	13.22	136	1000044	40.000	ul/l	-0.08
38) Acenaphthene-d10	17.40	164	567180	40.000	ul/l	-0.08
62) Phenanthrene-d10	20.92	188	1160576	40.000	ul/l	-0.07
76) Chrysene-d12	27.24	240	1425979	40.000	ul/l	-0.09
85) Perylene-d12	30.39	264	1666830	40.000	ul/l	-0.06

System Monitoring Compounds

4) 2-Fluorophenol	7.41	112	794024	86.756	ul/l	-0.03
Spiked Amount 120.000	Range 41 - 102		Recovery =	72.30%		
7) Phenol-d5	9.61	99	1083401	93.661	ul/l	-0.06
Spiked Amount 120.000	Range 47 - 113		Recovery =	78.05%		
22) Nitrobenzene-d5	11.58	82	802534	68.056	ul/l	-0.07
Spiked Amount 100.000	Range 38 - 100		Recovery =	68.06%		
43) 2-Fluorobiphenyl	15.87	172	1400708	61.584	ul/l	-0.07
Spiked Amount 100.000	Range 38 - 88		Recovery =	61.58%		
61) 2,4,6-Tribromophenol	19.30	330	899284	112.671	ul/l	-0.07
Spiked Amount 120.000	Range 40 - 129		Recovery =	93.89%		
79) Terphenyl-d14	24.86	244	2482777	76.952	ul/l	-0.04
Spiked Amount 100.000	Range 31 - 145		Recovery =	76.95%		

Target Compounds

Qvalue

Data File : D:\B\DATA18\JAN18\B0111\B6269.D

Acq On : 11 Jan 2018 16:59

Sample : B8A1102-BLK1

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 12 8:49 2018

Vial: 5

Operator: DSM

Inst : GC/MS B

Multiplr: 1.00

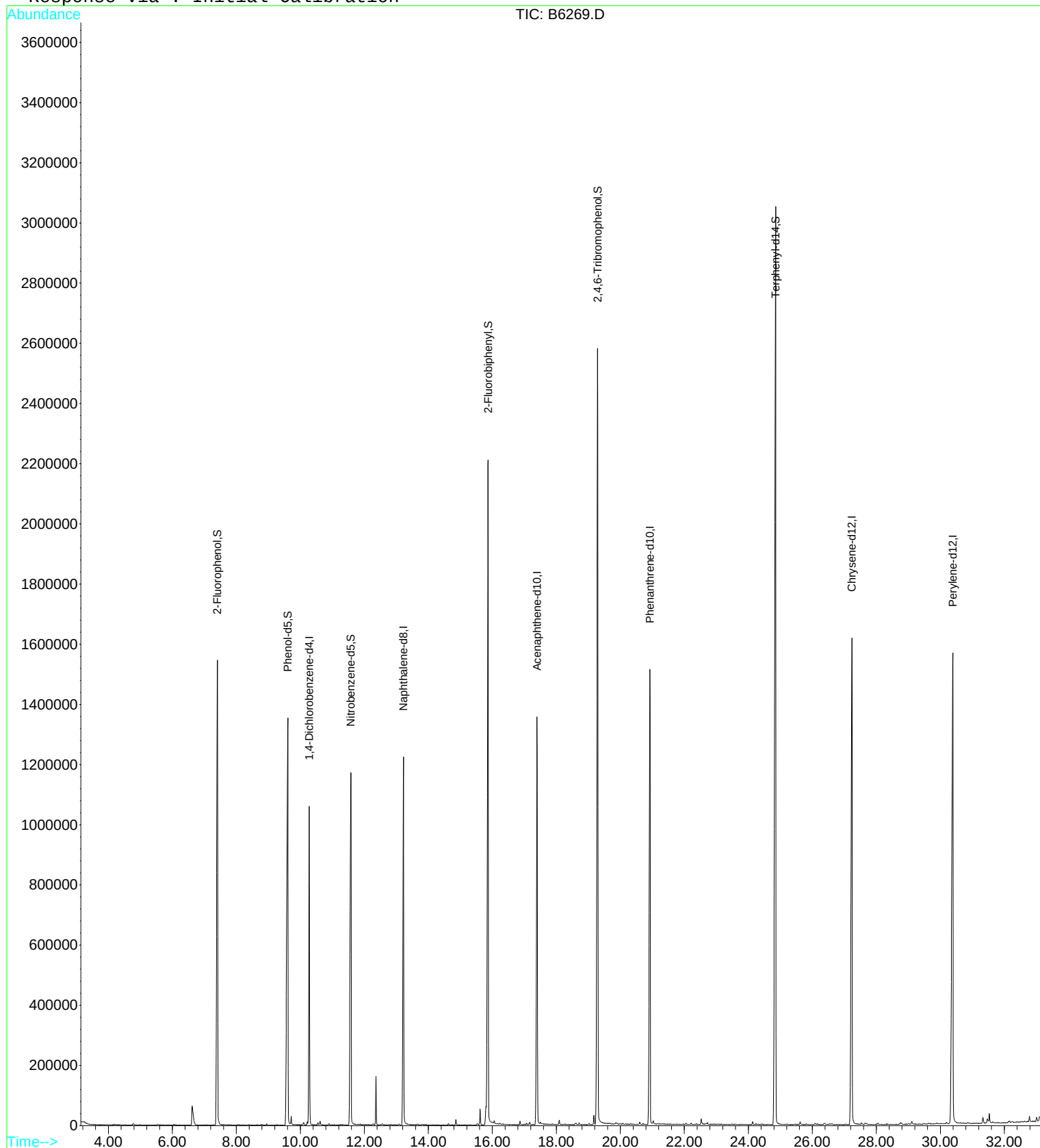
Quant Results File: SVB81221.RES

Method : D:\B\METHODS\SVB81221.M (RTE Integrator)

Title : SEMI-VOA TCL 8270 HP5972

Last Update : Thu Jan 11 16:41:08 2018

Response via : Initial Calibration





SEMIVOLATILES QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**EPA 8270**

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid
Instrument: GC/MS B

Lab Sample ID:	2FP (41% - 102%)	FBP (38% - 88%)	NBZ (38% - 100%)	PHL (47% - 113%)	TBP (40% - 129%)	TPH (31% - 145%)
1800021-01	75	65	72	82	95	82
B8A1102-BLK1	72	62	68	78	94	77
B8A1102-BS1	71	62	66	76	97	77
B8A1102-MS1	68	62	66	75	96	78
B8A1102-MSD1	73	63	70	79	96	77



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MS1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyridine	1770	ND	1080	61	28 - 95
N-Nitrosodimethylamine	1770	ND	1270	71	33 - 108
Aniline	1770	ND	1340	75	31 - 100
Phenol	1770	ND	1450	82	42 - 110
bis(2-chloroethyl)ether	1770	ND	1370	77	42 - 105
2-Chlorophenol	1770	ND	1500	85	44 - 106
1,3-Dichlorobenzene	1770	ND	1410	80	42 - 100
1,4-Dichlorobenzene	1770	ND	1420	80	41 - 102
Benzyl alcohol	1770	ND	1530	87	44 - 110
1,2-Dichlorobenzene	1770	ND	1420	80	43 - 103
2-Methylphenol	1770	ND	1470	83	44 - 109
bis(2-chloroisopropyl)ether	1770	ND	1440	81	42 - 115
3 & 4-Methylphenol	1770	ND	1550	87	45 - 110
N-Nitroso-di-n-propylamine	1770	ND	1460	82	42 - 112
Hexachloroethane	1770	ND	1430	80	44 - 106
Nitrobenzene	1770	ND	1440	81	42 - 113
Isophorone	1770	ND	1490	84	43 - 109
2-Nitrophenol	1770	ND	1480	84	43 - 111
2,4-Dimethylphenol	1770	ND	1510	85	44 - 109
bis(2-chloroethoxy)methane	1770	ND	1410	79	43 - 109
2,4-Dichlorophenol	1770	ND	1580	89	43 - 110
Naphthalene	1770	ND	1480	83	45 - 107
4-Chloroaniline	1770	ND	805	45	10 - 102
Hexachlorobutadiene	1770	ND	1570	88	41 - 111
4-Chloro-3-methylphenol	1770	ND	1600	90	43 - 116
2-Methylnaphthylene	1770	ND	1480	84	44 - 109
Hexachlorocyclopentadiene	1770	ND	1580	89	30 - 123
2,4,6-Trichlorophenol	1770	ND	1680	95	42 - 122



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MS1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
2,4,5-Trichlorophenol	1770	ND	1660	94	43 - 123
2-Chloronaphthalene	1770	ND	1600	90	41 - 120
2-Nitroaniline	1770	ND	1580	89	46 - 130
Dimethylphthalate	1770	ND	1710	96	48 - 124
Acenaphthylene	1770	ND	1560	88	44 - 116
3-Nitroaniline	1770	ND	1290	73	28 - 114
Acenaphthene	1770	ND	1580	89	45 - 116
2,4-Dinitrophenol	1770	ND	1500	85	22 - 120
4-Nitrophenol	1770	ND	1840	104	41 - 140
Dibenzofuran	1770	ND	1580	89	46 - 116
2,6-Dinitrotoluene	1770	ND	1670	94	47 - 122
2,4-Dinitrotoluene	1770	ND	1770	100	46 - 129
2,3,4,6-Tetrachlorophenol	1770	ND	1820	103	43 - 124
Diethyl phthalate	1770	ND	1680	95	49 - 121
4-Chlorophenyl-phenylether	1770	ND	1670	94	46 - 118
Fluorene	1770	ND	1610	91	47 - 117
4-Nitroaniline	1770	ND	1680	95	43 - 123
4,6-Dinitro-2-methylphenol	1770	ND	1780	100	43 - 126
Carbazole	1770	ND	1660	94	47 - 121
N-Nitrosodiphenylamine	1770	ND	1610	91	47 - 122
Azobenzene	1770	ND	1470	83	42 - 134
4-Bromophenyl-phenylether	1770	ND	1750	99	47 - 123
Hexachlorobenzene	1770	ND	1770	100	46 - 125
Pentachlorophenol	1770	ND	1870	106	31 - 132
Phenanthrene	1770	ND	1670	94	48 - 120
Anthracene	1770	ND	1640	93	48 - 120
Di-n-butyl phthalate	1770	ND	1650	93	49 - 123
Fluoranthene	1770	ND	1730	98	46 - 124



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MS1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyrene	1770	ND	1770	100	44 - 125
Butylbenzylphthalate	1770	ND	1680	95	46 - 125
Benzo[a]anthracene	1770	ND	1750	99	49 - 119
bis(2-ethylhexyl)phthalate	1770	ND	1660	94	46 - 127
Chrysene	1770	ND	1780	101	49 - 122
Di-n-octyl phthalate	1770	ND	1630	92	47 - 127
Benzo[b]fluoranthene	1770	ND	1730	98	48 - 124
Benzo[k]fluoranthene	1770	ND	1710	97	48 - 127
Benzo[a]pyrene	1770	ND	1750	99	51 - 123
Indeno(1,2,3-cd)pyrene	1770	ND	1880	106	43 - 131
Dibenzo(a,h)anthracene	1770	ND	1790	101	43 - 131
Benzo[ghi]perylene	1770	ND	1740	98	39 - 130

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MSD1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Pyridine	1770	997	56	8	38	28 - 95
N-Nitrosodimethylamine	1770	1140	65	10	32	33 - 108
Aniline	1770	1160	65	15	36	31 - 100
Phenol	1770	1290	73	12	30	42 - 110
bis(2-chloroethyl)ether	1770	1230	70	10	32	42 - 105
2-Chlorophenol	1770	1350	76	10	31	44 - 106
1,3-Dichlorobenzene	1770	1290	73	9	31	42 - 100
1,4-Dichlorobenzene	1770	1290	73	9	33	41 - 102
Benzyl alcohol	1770	1340	76	13	30	44 - 110
1,2-Dichlorobenzene	1770	1290	73	10	32	43 - 103
2-Methylphenol	1770	1300	73	12	31	44 - 109
bis(2-chloroisopropyl)ether	1770	1290	73	11	32	42 - 115
3 & 4-Methylphenol	1770	1340	76	14	29	45 - 110
N-Nitroso-di-n-propylamine	1770	1300	73	12	28	42 - 112
Hexachloroethane	1770	1310	74	9	35	44 - 106
Nitrobenzene	1770	1290	73	11	28	42 - 113
Isophorone	1770	1270	72	16	29	43 - 109
2-Nitrophenol	1770	1340	76	10	32	43 - 111
2,4-Dimethylphenol	1770	1320	74	13	30	44 - 109
bis(2-chloroethoxy)methane	1770	1260	71	11	30	43 - 109
2,4-Dichlorophenol	1770	1400	79	12	29	43 - 110
Naphthalene	1770	1310	74	12	27	45 - 107
4-Chloroaniline	1770	619	35	26	51	10 - 102
Hexachlorobutadiene	1770	1400	79	11	31	41 - 111
4-Chloro-3-methylphenol	1770	1380	78	15	25	43 - 116
2-Methylnaphthylene	1770	1290	73	14	26	44 - 109
Hexachlorocyclopentadiene	1770	1380	78	14	43	30 - 123
2,4,6-Trichlorophenol	1770	1420	80	17	25	42 - 122



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MSD1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
2,4,5-Trichlorophenol	1770	1430	81	15	23	43 - 123
2-Chloronaphthalene	1770	1380	78	15	25	41 - 120
2-Nitroaniline	1770	1330	75	17	23	46 - 130
Dimethylphthalate	1770	1450	82	16	30	48 - 124
Acenaphthylene	1770	1320	75	17	26	44 - 116
3-Nitroaniline	1770	1040	59	21	26	28 - 114
Acenaphthene	1770	1340	75	17	27	45 - 116
2,4-Dinitrophenol	1770	1270	72	17	37	22 - 120
4-Nitrophenol	1770	1540	87	18	27	41 - 140
Dibenzofuran	1770	1330	75	17	23	46 - 116
2,6-Dinitrotoluene	1770	1400	79	18	21	47 - 122
2,4-Dinitrotoluene	1770	1450	82	20	22	46 - 129
2,3,4,6-Tetrachlorophenol	1770	1510	86	18	31	43 - 124
Diethyl phthalate	1770	1410	80	18	21	49 - 121
4-Chlorophenyl-phenylether	1770	1400	79	18	26	46 - 118
Fluorene	1770	1360	77	17	26	47 - 117
4-Nitroaniline	1770	1380	78	20	25	43 - 123
4,6-Dinitro-2-methylphenol	1770	1510	86	16	39	43 - 126
Carbazole	1770	1410	80	16	23	47 - 121
N-Nitrosodiphenylamine	1770	1360	77	17	23	47 - 122
Azobenzene	1770	1270	72	15	26	42 - 134
4-Bromophenyl-phenylether	1770	1450	82	19	25	47 - 123
Hexachlorobenzene	1770	1460	83	19	23	46 - 125
Pentachlorophenol	1770	1580	89	17	34	31 - 132
Phenanthrene	1770	1390	78	18	29	48 - 120
Anthracene	1770	1390	78	17	26	48 - 120
Di-n-butyl phthalate	1770	1390	78	17	20	49 - 123
Fluoranthene	1770	1450	82	18	36	46 - 124



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B8A1102	Prep Method:	EPA 3550B GCMS
Percent Solids:	94.10	Laboratory ID:	B8A1102-MSD1
		Client Sample ID:	1800019-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Pyrene	1770	1450	82	20	32	44 - 125
Butylbenzylphthalate	1770	1400	79	18	21	46 - 125
Benzo[a]anthracene	1770	1450	82	19	29	49 - 119
bis(2-ethylhexyl)phthalate	1770	1410	79	17	28	46 - 127
Chrysene	1770	1460	83	20	29	49 - 122
Di-n-octyl phthalate	1770	1360	77	18	21	47 - 127
Benzo[b]fluoranthene	1770	1440	82	18	35	48 - 124
Benzo[k]fluoranthene	1770	1410	80	19	26	48 - 127
Benzo[a]pyrene	1770	1440	81	20	27	51 - 123
Indeno(1,2,3-cd)pyrene	1770	1560	88	18	27	43 - 131
Dibenzo(a,h)anthracene	1770	1470	83	20	24	43 - 131
Benzo[ghi]perylene	1770	1440	82	19	27	39 - 130

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid	Prep Method: EPA 3550B GCMS
Prep Batch: B8A1102	Lab Sample ID: B8A1102-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1070	64	28 - 95
N-Nitrosodimethylamine	1670	1210	73	33 - 108
Aniline	1670	1260	76	31 - 100
Phenol	1670	1380	83	42 - 110
bis(2-chloroethyl)ether	1670	1300	78	42 - 105
2-Chlorophenol	1670	1440	86	44 - 106
1,3-Dichlorobenzene	1670	1360	82	42 - 100
1,4-Dichlorobenzene	1670	1370	82	41 - 102
Benzyl alcohol	1670	1440	86	44 - 110
1,2-Dichlorobenzene	1670	1380	83	43 - 103
2-Methylphenol	1670	1400	84	44 - 109
bis(2-chloroisopropyl)ether	1670	1360	82	42 - 115
3 & 4-Methylphenol	1670	1470	88	45 - 110
N-Nitroso-di-n-propylamine	1670	1370	82	42 - 112
Hexachloroethane	1670	1390	83	44 - 106
Nitrobenzene	1670	1380	83	42 - 113
Isophorone	1670	1380	83	43 - 109
2-Nitrophenol	1670	1410	84	43 - 111
2,4-Dimethylphenol	1670	1460	87	44 - 109
bis(2-chloroethoxy)methane	1670	1330	80	43 - 109
2,4-Dichlorophenol	1670	1540	92	43 - 110
Naphthalene	1670	1430	86	45 - 107
4-Chloroaniline	1670	821	49	10 - 102
Hexachlorobutadiene	1670	1540	92	41 - 111
4-Chloro-3-methylphenol	1670	1510	91	43 - 116
2-Methylnaphthylene	1670	1420	85	44 - 109
Hexachlorocyclopentadiene	1670	1530	92	30 - 123
2,4,6-Trichlorophenol	1670	1580	95	42 - 122



LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B8A1102	Lab Sample ID:	B8A1102-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,5-Trichlorophenol	1670	1560	94	43 - 123
2-Chloronaphthalene	1670	1510	90	41 - 120
2-Nitroaniline	1670	1480	89	46 - 130
Dimethylphthalate	1670	1630	98	48 - 124
Acenaphthylene	1670	1470	88	44 - 116
3-Nitroaniline	1670	1230	74	28 - 114
Acenaphthene	1670	1500	90	45 - 116
2,4-Dinitrophenol	1670	1500	90	22 - 120
4-Nitrophenol	1670	1760	105	41 - 140
Dibenzofuran	1670	1510	90	46 - 116
2,6-Dinitrotoluene	1670	1580	95	47 - 122
2,4-Dinitrotoluene	1670	1670	100	46 - 129
2,3,4,6-Tetrachlorophenol	1670	1730	104	43 - 124
Diethyl phthalate	1670	1610	97	49 - 121
4-Chlorophenyl-phenylether	1670	1610	96	46 - 118
Fluorene	1670	1540	92	47 - 117
4-Nitroaniline	1670	1540	92	43 - 123
4,6-Dinitro-2-methylphenol	1670	1730	104	43 - 126
Carbazole	1670	1590	95	47 - 121
N-Nitrosodiphenylamine	1670	1540	92	47 - 122
Azobenzene	1670	1560	94	42 - 134
4-Bromophenyl-phenylether	1670	1650	99	47 - 123
Hexachlorobenzene	1670	1680	101	46 - 125
Pentachlorophenol	1670	1820	109	31 - 132
Phenanthrene	1670	1570	94	48 - 120
Anthracene	1670	1560	94	48 - 120
Di-n-butyl phthalate	1670	1580	95	49 - 123
Fluoranthene	1670	1660	99	46 - 124



LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B8A1102	Lab Sample ID:	B8A1102-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyrene	1670	1620	97	44 - 125
Butylbenzylphthalate	1670	1570	94	46 - 125
Benzo[a]anthracene	1670	1630	98	49 - 119
bis(2-ethylhexyl)phthalate	1670	1580	95	46 - 127
Chrysene	1670	1660	100	49 - 122
Di-n-octyl phthalate	1670	1550	93	47 - 127
Benzo[b]fluoranthene	1670	1650	99	48 - 124
Benzo[k]fluoranthene	1670	1680	101	48 - 127
Benzo[a]pyrene	1670	1640	98	51 - 123
Indeno(1,2,3-cd)pyrene	1670	1900	114	43 - 131
Dibenzo(a,h)anthracene	1670	1730	104	43 - 131
Benzo[ghi]perylene	1670	1700	102	39 - 130

* Values outside of QC limits

**METHOD BLANK SUMMARY**

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Blank ID:	B8A1102-BLK1	Batch:	B8A1102
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A1102-BS1	B6270.D	01/11/2018 17:41
Matrix Spike	B8A1102-MS1	B6274.D	01/11/2018 20:26
Matrix Spike Dup	B8A1102-MSD1	B6275.D	01/11/2018 21:08
S-1	1800021-01	B6285.D	01/12/2018 14:41



INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Lab File ID:	B6228.D	Injection Date:	12/21/17
Instrument ID:	GC/MS B	Injection Time:	09:43
Sequence:	S7L2115	Lab Sample ID:	S7L2115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	10 - 80% of 198	72.2	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.976	PASS
127	10 - 80% of 198	58.8	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.3	PASS
275	10 - 60% of 198	21.4	PASS
365	1 - 100% of 198	2.24	PASS
441	0.01 - 24% of 442	16.2	PASS
442	50 - 100% of 198	80	PASS
443	15 - 24% of 442	19.9	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	S7L2115-CAL5	B6229.D	12/21/2017	9:59:00
Cal Standard	S7L2115-CAL1	B6230.D	12/21/2017	10:50:00
Cal Standard	S7L2115-CAL7	B6231.D	12/21/2017	12:07:00
Cal Standard	S7L2115-CAL2	B6232.D	12/21/2017	12:55:00
Cal Standard	S7L2115-CAL6	B6233.D	12/21/2017	14:16:00
Cal Standard	S7L2115-CAL3	B6234.D	12/21/2017	15:03:00
Cal Standard	S7L2115-CAL4	B6235.D	12/21/2017	15:50:00



INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Lab File ID:	B6262.D	Injection Date:	01/11/18
Instrument ID:	GC/MS B	Injection Time:	11:51
Sequence:	S8A1107	Lab Sample ID:	S8A1107-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	10 - 80% of 198	67.8	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	1.03	PASS
127	10 - 80% of 198	56.7	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.76	PASS
275	10 - 60% of 198	21.7	PASS
365	1 - 100% of 198	2.52	PASS
441	0.01 - 24% of 442	15.6	PASS
442	50 - 100% of 198	91.4	PASS
443	15 - 24% of 442	20.6	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S8A1107-CCV1	B6264.D	01/11/2018	12:48:00
Blank	B8A1102-BLK1	B6269.D	01/11/2018	16:59:00
LCS	B8A1102-BS1	B6270.D	01/11/2018	17:41:00
Matrix Spike	B8A1102-MS1	B6274.D	01/11/2018	20:26:00
Matrix Spike Dup	B8A1102-MSD1	B6275.D	01/11/2018	21:08:00



INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Lab File ID:	B6281.D	Injection Date:	01/12/18
Instrument ID:	GC/MS B	Injection Time:	12:21
Sequence:	S8A1210	Lab Sample ID:	S8A1210-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	10 - 80% of 198	66	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	1.56	PASS
127	10 - 80% of 198	55.7	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.1	PASS
275	10 - 60% of 198	23.1	PASS
365	1 - 100% of 198	2.77	PASS
441	0.01 - 24% of 442	15.7	PASS
442	50 - 100% of 198	96.7	PASS
443	15 - 24% of 442	21	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S8A1210-CCV1	B6283.D	01/12/2018	13:17:00
S-1	1800021-01	B6285.D	01/12/2018	14:41:00



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Sequence: S8A1107

Instrument: GC/MS B

Calibration: 18A1204

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S8A1107-CCV1)			<i>Lab File ID: B6264.D</i>			<i>Analyzed: 01/11/18 12:48</i>			
1,4-Dichlorobenzene-d4	256007	10.28	279687	10.28	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	950586	13.23	1066690	13.23	89	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	517747	17.41	576939	17.41	90	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1068125	20.93	1150324	20.93	93	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1327398	27.26	1364948	27.25	97	50 - 200	0.0100	+/-0.50	
Perylene-d12	1466587	30.41	1584956	30.39	93	50 - 200	0.0200	+/-0.50	
Blank (B8A1102-BLK1)			<i>Lab File ID: B6269.D</i>			<i>Analyzed: 01/11/18 16:59</i>			
1,4-Dichlorobenzene-d4	265184	10.28	256007	10.28	104	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1000044	13.22	950586	13.23	105	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	567180	17.4	517747	17.41	110	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1160576	20.92	1068125	20.93	109	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1425979	27.24	1327398	27.26	107	50 - 200	-0.0200	+/-0.50	
Perylene-d12	1666830	30.39	1466587	30.41	114	50 - 200	-0.0200	+/-0.50	
LCS (B8A1102-BS1)			<i>Lab File ID: B6270.D</i>			<i>Analyzed: 01/11/18 17:41</i>			
1,4-Dichlorobenzene-d4	261345	10.28	256007	10.28	102	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1004729	13.24	950586	13.23	106	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	554227	17.42	517747	17.41	107	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1135109	20.94	1068125	20.93	106	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1389416	27.27	1327398	27.26	105	50 - 200	0.0100	+/-0.50	
Perylene-d12	1618476	30.42	1466587	30.41	110	50 - 200	0.0100	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Sequence: S8A1107

Instrument: GC/MS B

Calibration: 18A1204

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B8A1102-MS1)			<i>Lab File ID: B6274.D</i>			<i>Analyzed: 01/11/18 20:26</i>			
1,4-Dichlorobenzene-d4	289326	10.29	256007	10.28	113	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1119623	13.24	950586	13.23	118	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	601707	17.42	517747	17.41	116	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1234676	20.94	1068125	20.93	116	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1461473	27.27	1327398	27.26	110	50 - 200	0.0100	+/-0.50	
Perylene-d12	1697760	30.43	1466587	30.41	116	50 - 200	0.0200	+/-0.50	
Matrix Spike Dup (B8A1102-MSD1)			<i>Lab File ID: B6275.D</i>			<i>Analyzed: 01/11/18 21:08</i>			
1,4-Dichlorobenzene-d4	287916	10.29	256007	10.28	112	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1093149	13.24	950586	13.23	115	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	593194	17.42	517747	17.41	115	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1204449	20.94	1068125	20.93	113	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1443130	27.27	1327398	27.26	109	50 - 200	0.0100	+/-0.50	
Perylene-d12	1677321	30.42	1466587	30.41	114	50 - 200	0.0100	+/-0.50	

* Values outside of QC limits



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Sequence: S8A1210

Instrument: GC/MS B

Calibration: 18A1204

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S8A1210-CCV1)			<i>Lab File ID: B6283.D</i>			<i>Analyzed: 01/12/18 13:17</i>			
1,4-Dichlorobenzene-d4	323383	10.3	279687	10.28	116	50 - 200	0.0200	+/-0.50	
Naphthalene-d8	1209882	13.26	1066690	13.23	113	50 - 200	0.0300	+/-0.50	
Acenaphthene-d10	644044	17.43	576939	17.41	112	50 - 200	0.0200	+/-0.50	
Phenanthrene-d10	1308429	20.96	1150324	20.93	114	50 - 200	0.0300	+/-0.50	
Chrysene-d12	1586129	27.29	1364948	27.25	116	50 - 200	0.0400	+/-0.50	
Perylene-d12	1742082	30.43	1584956	30.39	110	50 - 200	0.0400	+/-0.50	
S-1 (1800021-01)			<i>Lab File ID: B6285.D</i>			<i>Analyzed: 01/12/18 14:41</i>			
1,4-Dichlorobenzene-d4	304406	10.3	323383	10.3	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1140979	13.24	1209882	13.26	94	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	608680	17.41	644044	17.43	95	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	1206918	20.94	1308429	20.96	92	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	1346952	27.25	1586129	27.29	85	50 - 200	-0.0400	+/-0.50	
Perylene-d12	1249350	30.39	1742082	30.43	72	50 - 200	-0.0400	+/-0.50	

* Values outside of QC limits



SEMIVOLATILES CALIBRATION DATA


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INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 18A1204				Instrument: GC/MS B				Calibration Date: 12/21/2017 2:32:41PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pyridine	2.5	1.550776	5	1.515176	10	1.496358	20	1.492479	50	1.494805	80	1.495462
N-Nitrosodimethylamine	2.5	0.9580989	5	0.976324	10	0.9889055	20	0.9603449	50	0.9304515	80	0.8965796
Benzaldehyde	2.5	0.228804	5	0.2091897	10	0.2159128	20	0.2126995	50	0.1847794	80	0.2564301
Aniline	2.5	2.296926	5	2.320955	10	2.315474	20	2.217129	50	2.058025	80	2.022763
Phenol	2.5	1.977598	5	1.931603	10	1.943959	20	1.854988	50	1.733439	80	1.639953
bis(2-chloroethyl)ether	2.5	1.731137	5	1.702717	10	1.717591	20	1.622279	50	1.463256	80	1.399247
2-Chlorophenol	2.5	1.574511	5	1.596026	10	1.59524	20	1.564846	50	1.444448	80	1.402059
1,3-Dichlorobenzene	2.5	1.758942	5	1.755058	10	1.791131	20	1.699194	50	1.563523	80	1.512606
1,4-Dichlorobenzene	2.5	1.791849	5	1.798814	10	1.775828	20	1.718537	50	1.547028	80	1.512606
Benzyl alcohol	2.5	1.497402	5	1.473171	10	1.48639	20	1.429652	50	1.357845	80	1.328723
1,2-Dichlorobenzene	2.5	1.714224	5	1.715982	10	1.686714	20	1.604525	50	1.459026	80	1.425018
2-Methylphenol	2.5	1.411751	5	1.465534	10	1.414453	20	1.367296	50	1.238089	80	1.186734
bis(2-chloroisopropyl)ether	2.5	0.5605727	5	0.5772098	10	0.5681351	20	0.5309051	50	0.4803826	80	0.4577993
Acetophenone	2.5	2.201644	5	2.195229	10	2.209413	20	2.067875	50	1.889948	80	1.84442
3 & 4-Methylphenol	2.5	1.529335	5	1.523703	10	1.545227	20	1.446697	50	1.320486	80	1.203631
N-Nitroso-di-n-propylamine	2.5	1.373913	5	1.329213	10	1.333119	20	1.265213	50	1.120985	80	1.102636
Hexachloroethane	2.5	0.8058305	5	0.7898161	10	0.8023112	20	0.7685301	50	0.7009152	80	0.6543137
Nitrobenzene	2.5	0.4822445	5	0.4838648	10	0.4851456	20	0.4803508	50	0.4409472	80	0.4269131
Isophorone	2.5	0.9720324	5	0.9658189	10	0.9557416	20	0.9426709	50	0.8983176	80	0.8774396
2-Nitrophenol	2.5	0.2394126	5	0.2428163	10	0.2499883	20	0.2490957	50	0.2310512	80	0.2279874
2,4-Dimethylphenol	2.5	0.4469564	5	0.4470189	10	0.4530163	20	0.4432138	50	0.4123327	80	0.4050532
Benzoic acid	2.5	0	5	0.1372885	10	0.1951795	20	0.2291282	50	0.2224324	80	0.2405255
bis(2-chloroethoxy)methane	2.5	0.5580694	5	0.5502147	10	0.5475705	20	0.5285024	50	0.469075	80	0.4558811
2,4-Dichlorophenol	2.5	0.3544398	5	0.3674517	10	0.379068	20	0.3728952	50	0.3450735	80	0.3422193
1,2,4-Trichlorobenzene	2.5	0.4127032	5	0.4132346	10	0.4187496	20	0.4138497	50	0.3735413	80	0.3744404

INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 18A1204				Instrument: GC/MS B				Calibration Date: 12/21/2017 2:32:41PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Naphthalene	2.5	1.182066	5	1.149868	10	1.147389	20	1.11002	50	0.972821	80	0.957297
4-Chloroaniline	2.5	0.5142781	5	0.5214104	10	0.5296647	20	0.5122555	50	0.4682014	80	0.4494816
Hexachlorobutadiene	2.5	0.2645476	5	0.2661667	10	0.2690116	20	0.2674191	50	0.2527866	80	0.2597184
Caprolactam	2.5	0.1633476	5	0.1574266	10	0.1589103	20	0.1558943	50	0.1365708	80	0.1432841
4-Chloro-3-methylphenol	2.5	0.3917974	5	0.3894781	10	0.3862041	20	0.3848809	50	0.3600449	80	0.3467191
2-Methylnaphthylene	2.5	0.8294407	5	0.8193377	10	0.8168746	20	0.7893788	50	0.688873	80	0.6754209
1,2,4,5-Tetrachlorobenzene	2.5	0.8240907	5	0.8162603	10	0.8357001	20	0.8203343	50	0.8186869	80	0.841049
1-Methylnaphthalene	2.5	0.7985468	5	0.7875094	10	0.7832116	20	0.7422077	50	0.6593835	80	0.6419523
Hexachlorocyclopentadiene	2.5	0.4996376	5	0.5316571	10	0.5825295	20	0.5990249	50	0.6428539	80	0.6491134
2,4,6-Trichlorophenol	2.5	0.5008612	5	0.5119431	10	0.5371868	20	0.5308665	50	0.5226702	80	0.5259531
2,4,5-Trichlorophenol	2.5	0.5452413	5	0.5516336	10	0.576255	20	0.5734715	50	0.56798	80	0.5623765
2-Chloronaphthalene	2.5	1.434234	5	1.41481	10	1.394144	20	1.342492	50	1.250683	80	1.255963
1,1-Biphenyl	2.5	1.763664	5	1.744795	10	1.703681	20	1.603307	50	1.483573	80	1.482799
2-Nitroaniline	2.5	0.541821	5	0.5356635	10	0.5563985	20	0.5465375	50	0.5285234	80	0.5127165
Dimethylphthalate	2.5	1.850255	5	1.821579	10	1.806361	20	1.759903	50	1.620725	80	1.625634
Acenaphthylene	2.5	2.303288	5	2.244567	10	2.264198	20	2.179609	50	1.996394	80	1.92772
3-Nitroaniline	2.5	0.4723589	5	0.4841058	10	0.4910814	20	0.4869049	50	0.4334378	80	0.4361371
Acenaphthene	2.5	1.434428	5	1.396408	10	1.394726	20	1.33417	50	1.254903	80	1.236949
2,4-Dinitrophenol	2.5	0	5	0.1272087	10	0.2007214	20	0.2430244	50	0.2961212	80	0.3102781
4-Nitrophenol	2.5	0.2501525	5	0.2825171	10	0.3004893	20	0.3298258	50	0.3168641	80	0.3169519
Dibenzofuran	2.5	2.138726	5	2.09933	10	2.09385	20	2.03205	50	1.840841	80	1.822118
2,6-Dinitrotoluene	2.5	0.4591783	5	0.4592388	10	0.4678762	20	0.4554974	50	0.4277234	80	0.4110043
2,4-Dinitrotoluene	2.5	0.580445	5	0.5986185	10	0.6147756	20	0.6076853	50	0.5819703	80	0.5781973
2,3,4,6-Tetrachlorophenol	2.5	0.4781428	5	0.5076328	10	0.5305379	20	0.5432824	50	0.5352109	80	0.5392672
Diethyl phthalate	2.5	1.941324	5	1.883097	10	1.871761	20	1.830139	50	1.710471	80	1.668441


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INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 18A1204				Instrument: GC/MS B				Calibration Date: 12/21/2017 2:32:41PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Chlorophenyl-phenylether	2.5	0.8813454	5	0.8723354	10	0.8652769	20	0.8494982	50	0.8008484	80	0.7977022
Fluorene	2.5	1.691421	5	1.673786	10	1.648833	20	1.597732	50	1.474289	80	1.430309
4-Nitroaniline	2.5	0.5070065	5	0.5025212	10	0.5231818	20	0.5003909	50	0.4711709	80	0.4472104
4,6-Dinitro-2-methylphenol	2.5	0.0989603	5	0.1304317	10	0.1625386	20	0.1717695	50	0.1832447	80	0.1837621
Carbazole	2.5	1.215334	5	1.199344	10	1.182453	20	1.100547	50	0.9612955	80	0.9401213
N-Nitrosodiphenylamine	2.5	0.7570504	5	0.739198	10	0.7314357	20	0.7005472	50	0.6388031	80	0.619406
1,2-Diphenylhydrazine	2.5	1.013061	5	0.9835863	10	0.9674422	20	0.9225933	50	0.821062	80	0.8798767
Azobenzene	2.5	1.013061	5	0.9835863	10	0.9674422	20	0.9225933	50	0.821062	80	0.8798767
4-Bromophenyl-phenylether	2.5	0.3005271	5	0.2957345	10	0.3037475	20	0.2968025	50	0.2854656	80	0.2913027
Atrazine	2.5	0.2430891	5	0.239772	10	0.2399846	20	0.2266745	50	0.2182371	80	0.2180961
Hexachlorobenzene	2.5	0.4142524	5	0.410403	10	0.4174094	20	0.4084436	50	0.3964719	80	0.4023232
Pentachlorophenol	2.5	0.184126	5	0.22206	10	0.2481318	20	0.2520724	50	0.2532559	80	0.2595344
Phenanthrene	2.5	1.22985	5	1.211617	10	1.195461	20	1.146737	50	1.050696	80	1.029446
Anthracene	2.5	1.262361	5	1.252231	10	1.237258	20	1.182004	50	1.088456	80	1.057784
Di-n-butyl phthalate	2.5	1.70136	5	1.680056	10	1.680984	20	1.600548	50	1.465988	80	1.433757
Fluoranthene	2.5	1.421573	5	1.402939	10	1.403848	20	1.361424	50	1.273824	80	1.27168
Benzidine	2.5	0.3796678	5	0.4275386	10	0.4554225	20	0.4881043	50	0.4873843	80	0.4875347
Pyrene	2.5	1.23303	5	1.209625	10	1.198399	20	1.165278	50	1.063456	80	1.040049
Butylbenzylphthalate	2.5	0.7009848	5	0.6854853	10	0.6810018	20	0.6556781	50	0.5814667	80	0.5684152
3,3'-Dichlorobenzidine	2.5	0.5255093	5	0.5044603	10	0.5037467	20	0.4719511	50	0.4665598	80	0.465047
Benzo[a]anthracene	2.5	1.292086	5	1.259164	10	1.261039	20	1.237165	50	1.143106	80	1.137266
bis(2-ethylhexyl)phthalate	2.5	0.9259478	5	0.9364444	10	0.9285834	20	0.88929	50	0.780906	80	0.7678213
Chrysene	2.5	1.156918	5	1.14724	10	1.145421	20	1.112119	50	1.037056	80	1.021537
Di-n-octyl phthalate	2.5	1.479196	5	1.44183	10	1.460942	20	1.40156	50	1.308649	80	1.308397
Benzo[b]fluoranthene	2.5	1.141093	5	1.153539	10	1.159616	20	1.154912	50	1.171441	80	1.138061



INITIAL CALIBRATION DATA

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 18A1204					Instrument: GC/MS B							
Calibration Date: 12/21/2017 2:32:41PM												
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Benzo[k]fluoranthene	2.5	1.158685	5	1.14568	10	1.149738	20	1.130215	50	1.06613	80	1.117458
Benzo[a]pyrene	2.5	1.124795	5	1.117127	10	1.126298	20	1.11607	50	1.089968	80	1.104033
Indeno(1,2,3-cd)pyrene	2.5	1.036681	5	1.094505	10	1.137422	20	1.214607	50	1.293689	80	1.191641
Dibenzo(a,h)anthracene	2.5	1.065469	5	1.129539	10	1.173441	20	1.18516	50	1.163067	80	1.172498
Benzo[ghi]perylene	2.5	1.180447	5	1.200708	10	1.222035	20	1.22832	50	1.179799	80	1.173999
2-Fluorophenol	2.5	1.393004	5	1.404494	10	1.420617	20	1.401977	50	1.343174	80	1.329862
Phenol-d5	2.5	1.82854	5	1.837803	10	1.84542	20	1.774227	50	1.67795	80	1.620298
Nitrobenzene-d5	2.5	0.47962	5	0.48558	10	0.4952854	20	0.4879113	50	0.4535487	80	0.4473499
2-Fluorobiphenyl	2.5	1.69651	5	1.659032	10	1.69437	20	1.641362	50	1.536278	80	1.527041
2,4,6-Tribromophenol	2.5	0.5071734	5	0.537114	10	0.5560796	20	0.5658777	50	0.5766623	80	0.5980067
Terphenyl-d14	2.5	0.9407236	5	0.9469552	10	0.9391303	20	0.9216566	50	0.8708142	80	0.8595637



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Pyridine	120	1.331303										
N-Nitrosodimethylamine	120	0.9166635										
Benzaldehyde	120	0.2142896										
Aniline	120	2.06824										
Phenol	120	1.664435										
bis(2-chloroethyl)ether	120	1.382157										
2-Chlorophenol	120	1.427301										
1,3-Dichlorobenzene	120	1.473478										
1,4-Dichlorobenzene	120	1.473478										
Benzyl alcohol	120	1.408606										
1,2-Dichlorobenzene	120	1.423402										
2-Methylphenol	120	1.215972										
bis(2-chloroisopropyl)ether	120	0.4562692										
Acetophenone	120	1.893505										
3 & 4-Methylphenol	120	1.208834										
N-Nitroso-di-n-propylamine	120	1.132897										
Hexachloroethane	120	0.6341487										
Nitrobenzene	120	0.4271302										
Isophorone	120	0.8988282										
2-Nitrophenol	120	0.24101										
2,4-Dimethylphenol	120	0.4172952										
Benzoic acid	120	0.2526325										
bis(2-chloroethoxy)methane	120	0.4648814										
2,4-Dichlorophenol	120	0.348682										
1,2,4-Trichlorobenzene	120	0.3724573										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Naphthalene	120	0.9475433										
4-Chloroaniline	120	0.4563874										
Hexachlorobutadiene	120	0.262086										
Caprolactam	120	0.1343299										
4-Chloro-3-methylphenol	120	0.3595971										
2-Methylnaphthylene	120	0.6834624										
1,2,4,5-Tetrachlorobenzene	120	0.8310331										
1-Methylnaphthalene	120	0.6548295										
Hexachlorocyclopentadiene	120	0.6529706										
2,4,6-Trichlorophenol	120	0.5236639										
2,4,5-Trichlorophenol	120	0.556987										
2-Chloronaphthalene	120	1.249365										
1,1-Biphenyl	120	1.486186										
2-Nitroaniline	120	0.5125213										
Dimethylphthalate	120	1.612714										
Acenaphthylene	120	1.860402										
3-Nitroaniline	120	0.4351645										
Acenaphthene	120	1.213181										
2,4-Dinitrophenol	120	0.3245463										
4-Nitrophenol	120	0.3206139										
Dibenzofuran	120	1.801993										
2,6-Dinitrotoluene	120	0.4182252										
2,4-Dinitrotoluene	120	0.5638147										
2,3,4,6-Tetrachlorophenol	120	0.5470461										
Diethyl phthalate	120	1.626208										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4-Chlorophenyl-phenylether	120	0.7900333										
Fluorene	120	1.409134										
4-Nitroaniline	120	0.4268089										
4,6-Dinitro-2-methylphenol	120	0.1908122										
Carbazole	120	0.9472267										
N-Nitrosodiphenylamine	120	0.6101414										
1,2-Diphenylhydrazine	120	0.8579749										
Azobenzene	120	0.8579749										
4-Bromophenyl-phenylether	120	0.297372										
Atrazine	120	0.2242905										
Hexachlorobenzene	120	0.4114467										
Pentachlorophenol	120	0.2717032										
Phenanthrene	120	1.033408										
Anthracene	120	1.066954										
Di-n-butyl phthalate	120	1.430289										
Fluoranthene	120	1.287529										
Benzidine	120	0.4992045										
Pyrene	120	1.036208										
Butylbenzylphthalate	120	0.5536785										
3,3'-Dichlorobenzidine	120	0.4863651										
Benzo[a]anthracene	120	1.162623										
bis(2-ethylhexyl)phthalate	120	0.7404401										
Chrysene	120	1.017089										
Di-n-octyl phthalate	120	1.300015										
Benzo[b]fluoranthene	120	1.253232										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 18A1204

Instrument: GC/MS B

Calibration Date: 12/21/2017 2:32:41PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Benzo[k]fluoranthene	120	1.042409										
Benzo[a]pyrene	120	1.11741										
Indeno(1,2,3-cd)pyrene	120	1.167327										
Dibenzo(a,h)anthracene	120	1.16483										
Benzo[ghi]perylene	120	1.180025										
2-Fluorophenol	120	1.370647										
Phenol-d5	120	1.629229										
Nitrobenzene-d5	120	0.45241										
2-Fluorobiphenyl	120	1.473849										
2,4,6-Tribromophenol	120	0.5993046										
Terphenyl-d14	120	0.8564098										



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Pyridine	A	1.482337	4.706251				
N-Nitrosodimethylamine	A	0.9467669	3.517207				
Benzaldehyde	A	0.2174436	9.968183				
Aniline	A	2.185645	6.056627				
Phenol	A	1.820854	7.701363			CCC (20)	
bis(2-chloroethyl)ether	A	1.574055	9.835755				
2-Chlorophenol	A	1.514919	5.681877				
1,3-Dichlorobenzene	A	1.650562	7.928637				
1,4-Dichlorobenzene	A	1.659734	8.618652			CCC (20)	
Benzyl alcohol	A	1.42597	4.562249				
1,2-Dichlorobenzene	A	1.575556	8.653601				
2-Methylphenol	A	1.328547	8.445492				
bis(2-chloroisopropyl)ether	A	0.5187534	10.21384				
Acetophenone	A	2.043148	8.038896				
3 & 4-Methylphenol	A	1.396845	10.80428				
N-Nitroso-di-n-propylamine	A	1.236854	9.314381			SPCC (0.05)	
Hexachloroethane	A	0.7365522	9.837764				
Nitrobenzene	A	0.4609423	6.034846				
Isophorone	A	0.9301213	4.072927				
2-Nitrophenol	A	0.2401945	3.466299			CCC (20)	
2,4-Dimethylphenol	A	0.4321266	4.57565				
Benzoic acid	A	0.2128644	19.62676				
bis(2-chloroethoxy)methane	A	0.5105992	8.874124				
2,4-Dichlorophenol	A	0.3585471	4.055441			CCC (20)	
1,2,4-Trichlorobenzene	A	0.3969966	5.565127				
Naphthalene	A	1.066715	9.651275				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
4-Chloroaniline	A	0.493097	6.839428				
Hexachlorobutadiene	A	0.2631051	2.104329			CCC (20)	
Caprolactam	A	0.1499662	7.787963				
4-Chloro-3-methylphenol	A	0.3741031	4.843597			CCC (20)	
2-Methylnaphthylene	A	0.7575412	9.406941				
1,2,4,5-Tetrachlorobenzene	A	0.8267363	1.132698				
1-Methylnaphthalene	A	0.7239487	9.623004				
Hexachlorocyclopentadiene	A	0.5939696	10.15968			SPCC (0.05)	
2,4,6-Trichlorophenol	A	0.5218778	2.3153			CCC (20)	
2,4,5-Trichlorophenol	A	0.5619921	2.034199				
2-Chloronaphthalene	A	1.334527	6.153276				
1,1-Biphenyl	A	1.609715	7.943321				
2-Nitroaniline	A	0.5334545	3.122776				
Dimethylphthalate	A	1.728167	6.075287				
Acenaphthylene	A	2.110883	8.485854				
3-Nitroaniline	A	0.4627415	5.760237				
Acenaphthene	A	1.323538	6.699487			CCC (20)	
2,4-Dinitrophenol	Q	0.2503167			0.9999173	SPCC (0.05)	
4-Nitrophenol	A	0.3024878	9.187066			SPCC (0.05)	
Dibenzofuran	A	1.975558	7.477863				
2,6-Dinitrotoluene	A	0.4426777	5.192878				
2,4-Dinitrotoluene	A	0.5893581	3.081317				
2,3,4,6-Tetrachlorophenol	A	0.5258743	4.690581				
Diethyl phthalate	A	1.790206	6.75687				
4-Chlorophenyl-phenylether	A	0.83672	4.686902				
Fluorene	A	1.560786	7.690939				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	A	0.4826129	7.302141				
4,6-Dinitro-2-methylphenol	Q	0.160217			0.9999153		
Carbazole	A	1.078046	11.65586				
N-Nitrosodiphenylamine	A	0.685226	8.950055			CCC (20)	
1,2-Diphenylhydrazine	A	0.9207995	7.705118				
Azobenzene	A	0.9207995	7.705118				
4-Bromophenyl-phenylether	A	0.2958503	2.02801				
Atrazine	A	0.2300206	4.662896				
Hexachlorobenzene	A	0.4086786	1.751422				
Pentachlorophenol	A	0.2415548	12.18867			CCC (20)	
Phenanthrene	A	1.128174	7.83702				
Anthracene	A	1.163864	7.808617				
Di-n-butyl phthalate	A	1.570426	7.864262				
Fluoranthene	A	1.346117	4.954611			CCC (20)	
Benzdine	A	0.4606938	9.444772				
Pyrene	A	1.135149	7.544706				
Butylbenzylphthalate	A	0.6323872	9.856522				
3,3'-Dichlorobenzidine	A	0.4890913	4.695397				
Benzo[a]anthracene	A	1.213207	5.260201				
bis(2-ethylhexyl)phthalate	A	0.8527761	10.09157				
Chrysene	A	1.091054	5.810452				
Di-n-octyl phthalate	A	1.385798	5.671197			CCC (20)	
Benzo[b]fluoranthene	A	1.167413	3.380587				
Benzo[k]fluoranthene	A	1.115759	3.999387				
Benzo[a]pyrene	A	1.113672	1.141404			CCC (20)	
Indeno(1,2,3-cd)pyrene	A	1.162267	7.188264				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration:	18A1204	Instrument:	GC/MS B
		Calibration Date:	12/21/2017 2:32:41PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Dibenzo(a,h)anthracene	A	1.150572	3.591301				
Benzo[ghi]perylene	A	1.195048	1.865378				
2-Fluorophenol	A	1.380539	2.448811				
Phenol-d5	A	1.744781	5.730351				
Nitrobenzene-d5	A	0.4716722	4.212714				
2-Fluorobiphenyl	A	1.604063	5.610601				
2,4,6-Tribromophenol	A	0.5628883	5.88007				
Terphenyl-d14	A	0.9050362	4.527247				

* Values outside of QC limits

Calibration Report

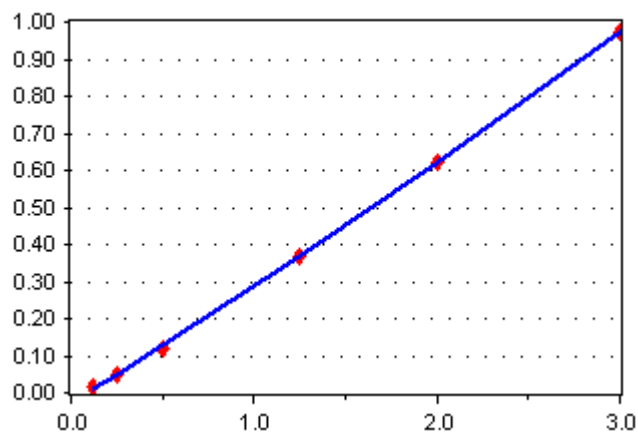
Printed: 01/12/2018 2:41 pm

Instrument: GC/MS B
Calibration ID: 18A1204

Calibration Date: 12/21/2017 14:32 By DSM
Last Edit Date: 01/12/2018 14:32 By DSM

2,4-Dinitrophenol

BN - 2,4-Dinitrophenol



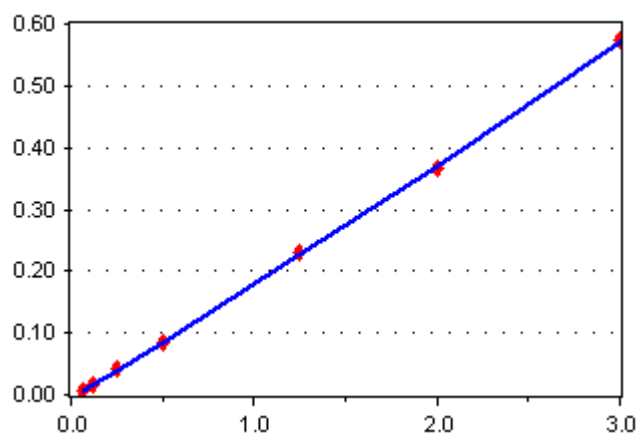
Quadratic Regression

COD: 0.9999173

$$[\text{Conc}] = -2.583395\text{E-}02 + 0.3018306 * [\text{Response}] + (1.050333\text{E-}02) * [\text{Response}]^2$$

4,6-Dinitro-2-methylphenol

BN - 4,6-Dinitro-2-methylphenol



Quadratic Regression

COD: 0.9999153

$$[\text{Conc}] = -5.004972\text{E-}03 + 0.1795192 * [\text{Response}] + (4.214003\text{E-}03) * [\text{Response}]^2$$



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	43.8	1.482337	1.297905		-12.4	
N-Nitrosodimethylamine	A	50.0	42.7	0.9467669	0.809331		-14.5	
Benzaldehyde	A	50.0	63.6	0.2174436	0.2766237		27.2	
Aniline	A	50.0	43.5	2.185645	1.899401		-13.1	
Phenol	A	50.0	44.6	1.820854	1.622778		-10.9	20
bis(2-chloroethyl)ether	A	50.0	43.1	1.574055	1.356925		-13.8	
2-Chlorophenol	A	50.0	46.6	1.514919	1.410605		-6.9	
1,3-Dichlorobenzene	A	50.0	47.2	1.650562	1.556929		-5.7	
1,4-Dichlorobenzene	A	50.0	47.1	1.659734	1.563214		-5.8	20
Benzyl alcohol	A	50.0	45.2	1.42597	1.287984		-9.7	
1,2-Dichlorobenzene	A	50.0	46.5	1.575556	1.464529		-7.0	
2-Methylphenol	A	50.0	45.1	1.328547	1.199102		-9.7	
bis(2-chloroisopropyl)ether	A	50.0	44.7	0.5187534	0.4635936		-10.6	
Acetophenone	A	50.0	46.6	2.043148	1.905579		-6.7	
3 & 4-Methylphenol	A	50.0	45.8	1.396845	1.279043		-8.4	
N-Nitroso-di-n-propylamine	A	50.0	43.1	1.236854	1.066355	0.05	-13.8	
Hexachloroethane	A	50.0	47.8	0.7365522	0.7042714		-4.4	
Nitrobenzene	A	50.0	45.8	0.4609423	0.4223685		-8.4	
Isophorone	A	50.0	44.9	0.9301213	0.8358002		-10.1	
2-Nitrophenol	A	50.0	46.8	0.2401945	0.2246993		-6.5	20
2,4-Dimethylphenol	A	50.0	46.4	0.4321266	0.4011673		-7.2	
bis(2-chloroethoxy)methane	A	50.0	42.8	0.5105992	0.4375019		-14.3	
2,4-Dichlorophenol	A	50.0	48.7	0.3585471	0.3490638		-2.6	20



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	50.0	48.7	0.3969966	0.3869891		-2.5	
Naphthalene	A	50.0	46.2	1.066715	0.9857128		-7.6	
4-Chloroaniline	A	50.0	46.0	0.493097	0.4539777		-7.9	
Hexachlorobutadiene	A	50.0	51.2	0.2631051	0.2692242		2.3	20
Caprolactam	A	50.0	43.6	0.1499662	0.1308145		-12.8	
4-Chloro-3-methylphenol	A	50.0	46.5	0.3741031	0.3481793		-6.9	20
2-Methylnaphthylene	A	50.0	45.5	0.7575412	0.6895561		-9.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	50.2	0.8267363	0.8293672		0.3	
Hexachlorocyclopentadiene	A	50.0	52.3	0.5939696	0.6213459	0.05	4.6	
2,4,6-Trichlorophenol	A	50.0	48.4	0.5218778	0.5053789		-3.2	20
2,4,5-Trichlorophenol	A	50.0	47.7	0.5619921	0.536112		-4.6	
2-Chloronaphthalene	A	50.0	45.6	1.334527	1.216484		-8.8	
1,1-Biphenyl	A	50.0	46.4	1.609715	1.493152		-7.2	
2-Nitroaniline	A	50.0	44.2	0.5334545	0.4719618		-11.5	
Dimethylphthalate	A	50.0	46.2	1.728167	1.596811		-7.6	
Acenaphthylene	A	50.0	45.2	2.110883	1.910204		-9.5	
3-Nitroaniline	A	50.0	44.4	0.4627415	0.4105264		-11.3	
Acenaphthene	A	50.0	45.5	1.323538	1.20408		-9.0	20
2,4-Dinitrophenol	Q	50.0	47.1	0.2503167	0.2750517	0.05	-5.9	
4-Nitrophenol	A	50.0	52.7	0.3024878	0.3187163	0.05	5.4	
Dibenzofuran	A	50.0	45.2	1.975558	1.785138		-9.6	
2,6-Dinitrotoluene	A	50.0	46.8	0.4426777	0.4142332		-6.4	
2,4-Dinitrotoluene	A	50.0	48.3	0.5893581	0.5688678		-3.5	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,3,4,6-Tetrachlorophenol	A	50.0	50.8	0.5258743	0.5340632		1.6	
Diethyl phthalate	A	50.0	46.3	1.790206	1.657999		-7.4	
4-Chlorophenyl-phenylether	A	50.0	46.8	0.83672	0.7823296		-6.5	
Fluorene	A	50.0	45.7	1.560786	1.426377		-8.6	
4-Nitroaniline	A	50.0	43.2	0.4826129	0.4173621		-13.5	
4,6-Dinitro-2-methylphenol	Q	50.0	48.9	0.160217	0.1765883		-2.2	
Carbazole	A	50.0	40.4	1.078046	0.8701049		-19.3	
N-Nitrosodiphenylamine	A	50.0	43.8	0.685226	0.600893		-12.3	20
1,2-Diphenylhydrazine	A	50.0	40.5	0.9207995	0.7452641		-19.1	
Azobenzene	A	50.0	40.5	0.9207995	0.7452641		-19.1	
4-Bromophenyl-phenylether	A	50.0	47.7	0.2958503	0.2823834		-4.6	
Atrazine	A	50.0	44.6	0.2300206	0.205337		-10.7	
Hexachlorobenzene	A	50.0	47.9	0.4086786	0.391525		-4.2	
Pentachlorophenol	A	50.0	52.3	0.2415548	0.2527764		4.6	20
Phenanthrene	A	50.0	45.0	1.128174	1.015577		-10.0	
Anthracene	A	50.0	45.1	1.163864	1.050873		-9.7	
Di-n-butyl phthalate	A	50.0	44.8	1.570426	1.406859		-10.4	
Fluoranthene	A	50.0	47.0	1.346117	1.264955		-6.0	20
Benidine	A	50.0	49.8	0.4606938	0.4586893		-0.4	
Pyrene	A	50.0	44.9	1.135149	1.018629		-10.3	
Butylbenzylphthalate	A	50.0	43.2	0.6323872	0.5458715		-13.7	
3,3'-Dichlorobenzidine	A	50.0	44.2	0.4890913	0.4323683		-11.6	
Benzo[a]anthracene	A	50.0	45.3	1.213207	1.09861		-9.4	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6264.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1107	Injection Date: 01/11/18
Lab Sample ID: S8A1107-CCV1	Injection Time: 12:48

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	43.5	0.8527761	0.7420936		-13.0	
Chrysene	A	50.0	45.7	1.091054	0.9969399		-8.6	
Di-n-octyl phthalate	A	50.0	44.4	1.385798	1.230297		-11.2	20
Benzo[b]fluoranthene	A	50.0	49.4	1.167413	1.154293		-1.1	
Benzo[k]fluoranthene	A	50.0	51.7	1.115759	1.154293		3.5	
Benzo[a]pyrene	A	50.0	47.2	1.113672	1.050804		-5.6	20
Indeno(1,2,3-cd)pyrene	A	50.0	53.6	1.162267	1.246899		7.3	
Dibenzo(a,h)anthracene	A	50.0	49.6	1.150572	1.142273		-0.7	
Benzo[ghi]perylene	A	50.0	48.5	1.195048	1.1597		-3.0	
2-Fluorophenol	A	50.0	46.2	1.380539	1.276181		-7.6	
Phenol-d5	A	50.0	45.6	1.744781	1.59265		-8.7	
Nitrobenzene-d5	A	50.0	47.4	0.4716722	0.4468292		-5.3	
2-Fluorobiphenyl	A	50.0	46.8	1.604063	1.500968		-6.4	
2,4,6-Tribromophenol	A	50.0	52.9	0.5628883	0.5959158		5.9	
Terphenyl-d14	A	50.0	46.5	0.9050362	0.841012		-7.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	44.7	1.482337	1.323783		-10.7	
N-Nitrosodimethylamine	A	50.0	43.5	0.9467669	0.8238306		-13.0	
Benzaldehyde	A	50.0	49.6	0.2174436	0.2156625		-0.8	
Aniline	A	50.0	46.1	2.185645	2.015309		-7.8	
Phenol	A	50.0	46.8	1.820854	1.703355		-6.5	20
bis(2-chloroethyl)ether	A	50.0	44.8	1.574055	1.410686		-10.4	
2-Chlorophenol	A	50.0	47.6	1.514919	1.441877		-4.8	
1,3-Dichlorobenzene	A	50.0	47.2	1.650562	1.55695		-5.7	
1,4-Dichlorobenzene	A	50.0	46.5	1.659734	1.543606		-7.0	20
Benzyl alcohol	A	50.0	47.3	1.42597	1.347974		-5.5	
1,2-Dichlorobenzene	A	50.0	46.6	1.575556	1.467192		-6.9	
2-Methylphenol	A	50.0	46.2	1.328547	1.228587		-7.5	
bis(2-chloroisopropyl)ether	A	50.0	44.6	0.5187534	0.4622086		-10.9	
Acetophenone	A	50.0	47.1	2.043148	1.926243		-5.7	
3 & 4-Methylphenol	A	50.0	46.4	1.396845	1.296011		-7.2	
N-Nitroso-di-n-propylamine	A	50.0	43.9	1.236854	1.086024	0.05	-12.2	
Hexachloroethane	A	50.0	46.8	0.7365522	0.6890554		-6.4	
Nitrobenzene	A	50.0	46.4	0.4609423	0.4274321		-7.3	
Isophorone	A	50.0	46.3	0.9301213	0.8609567		-7.4	
2-Nitrophenol	A	50.0	48.7	0.2401945	0.2338926		-2.6	20
2,4-Dimethylphenol	A	50.0	47.1	0.4321266	0.4073872		-5.7	
bis(2-chloroethoxy)methane	A	50.0	44.1	0.5105992	0.4498931		-11.9	
2,4-Dichlorophenol	A	50.0	48.4	0.3585471	0.3472848		-3.1	20



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	50.0	47.9	0.3969966	0.3799848		-4.3	
Naphthalene	A	50.0	46.0	1.066715	0.9812302		-8.0	
4-Chloroaniline	A	50.0	45.9	0.493097	0.4530267		-8.1	
Hexachlorobutadiene	A	50.0	49.3	0.2631051	0.259218		-1.5	20
Caprolactam	A	50.0	46.2	0.1499662	0.1385543		-7.6	
4-Chloro-3-methylphenol	A	50.0	47.2	0.3741031	0.3533204		-5.6	20
2-Methylnaphthylene	A	50.0	45.3	0.7575412	0.6861939		-9.4	
1,2,4,5-Tetrachlorobenzene	A	50.0	50.3	0.8267363	0.8310476		0.5	
Hexachlorocyclopentadiene	A	50.0	50.9	0.5939696	0.6043165	0.05	1.7	
2,4,6-Trichlorophenol	A	50.0	49.2	0.5218778	0.5139761		-1.5	20
2,4,5-Trichlorophenol	A	50.0	48.9	0.5619921	0.5497674		-2.2	
2-Chloronaphthalene	A	50.0	45.5	1.334527	1.214081		-9.0	
1,1-Biphenyl	A	50.0	46.5	1.609715	1.497349		-7.0	
2-Nitroaniline	A	50.0	46.1	0.5334545	0.4919453		-7.8	
Dimethylphthalate	A	50.0	45.7	1.728167	1.579347		-8.6	
Acenaphthylene	A	50.0	45.0	2.110883	1.899821		-10.0	
3-Nitroaniline	A	50.0	45.6	0.4627415	0.4221997		-8.8	
Acenaphthene	A	50.0	45.7	1.323538	1.210813		-8.5	20
2,4-Dinitrophenol	Q	50.0	47.1	0.2503167	0.2751452	0.05	-5.8	
4-Nitrophenol	A	50.0	53.2	0.3024878	0.3220886	0.05	6.5	
Dibenzofuran	A	50.0	45.4	1.975558	1.792367		-9.3	
2,6-Dinitrotoluene	A	50.0	46.7	0.4426777	0.4134873		-6.6	
2,4-Dinitrotoluene	A	50.0	48.8	0.5893581	0.5746725		-2.5	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,3,4,6-Tetrachlorophenol	A	50.0	51.6	0.5258743	0.5429542		3.2	
Diethyl phthalate	A	50.0	46.0	1.790206	1.64575		-8.1	
4-Chlorophenyl-phenylether	A	50.0	46.7	0.83672	0.7818037		-6.6	
Fluorene	A	50.0	45.5	1.560786	1.421007		-9.0	
4-Nitroaniline	A	50.0	47.0	0.4826129	0.4536783		-6.0	
4,6-Dinitro-2-methylphenol	Q	50.0	48.4	0.160217	0.1746125		-3.2	
Carbazole	A	50.0	44.6	1.078046	0.9621554		-10.8	
N-Nitrosodiphenylamine	A	50.0	44.7	0.685226	0.6127379		-10.6	20
1,2-Diphenylhydrazine	A	50.0	41.4	0.9207995	0.7631185		-17.1	
Azobenzene	A	50.0	41.4	0.9207995	0.7631185		-17.1	
4-Bromophenyl-phenylether	A	50.0	48.0	0.2958503	0.2842768		-3.9	
Atrazine	A	50.0	41.3	0.2300206	0.1901003		-17.4	
Hexachlorobenzene	A	50.0	48.4	0.4086786	0.3957607		-3.2	
Pentachlorophenol	A	50.0	52.9	0.2415548	0.2555926		5.8	20
Phenanthrene	A	50.0	45.0	1.128174	1.01463		-10.1	
Anthracene	A	50.0	44.8	1.163864	1.042341		-10.4	
Di-n-butyl phthalate	A	50.0	45.6	1.570426	1.430677		-8.9	
Fluoranthene	A	50.0	46.6	1.346117	1.254925		-6.8	20
Benidine	A	50.0	50.2	0.4606938	0.4628189		0.5	
Pyrene	A	50.0	45.6	1.135149	1.036217		-8.7	
Butylbenzylphthalate	A	50.0	45.0	0.6323872	0.5689847		-10.0	
3,3'-Dichlorobenzidine	A	50.0	50.6	0.4890913	0.4952404		1.3	
Benzo[a]anthracene	A	50.0	46.0	1.213207	1.115929		-8.0	



CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS B	Calibration: 18A1204
Lab File ID: B6283.D	Calibration Date: 12/21/17 14:32
Sequence: S8A1210	Injection Date: 01/12/18
Lab Sample ID: S8A1210-CCV1	Injection Time: 13:17

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	44.8	0.8527761	0.7647958		-10.3	
Chrysene	A	50.0	45.9	1.091054	1.001679		-8.2	
Di-n-octyl phthalate	A	50.0	45.5	1.385798	1.260876		-9.0	20
Benzo[b]fluoranthene	A	50.0	50.3	1.167413	1.175437		0.7	
Benzo[k]fluoranthene	A	50.0	52.7	1.115759	1.175437		5.3	
Benzo[a]pyrene	A	50.0	46.8	1.113672	1.041602		-6.5	20
Indeno(1,2,3-cd)pyrene	A	50.0	53.0	1.162267	1.231989		6.0	
Dibenzo(a,h)anthracene	A	50.0	48.8	1.150572	1.124003		-2.3	
Benzo[ghi]perylene	A	50.0	47.4	1.195048	1.132391		-5.2	
2-Fluorophenol	A	50.0	47.5	1.380539	1.311003		-5.0	
Phenol-d5	A	50.0	47.5	1.744781	1.657		-5.0	
Nitrobenzene-d5	A	50.0	48.2	0.4716722	0.4547333		-3.6	
2-Fluorobiphenyl	A	50.0	46.7	1.604063	1.498467		-6.6	
2,4,6-Tribromophenol	A	50.0	52.5	0.5628883	0.5911609		5.0	
Terphenyl-d14	A	50.0	47.4	0.9050362	0.8586126		-5.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



VOLATILES SAMPLE DATA



VOLATILES SAMPLE DATA



ANALYSIS DATA SHEET

EPA 8260

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/10/18 15:16	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 5035A	File ID:	A15024.D
Prep Batch:	B8A1006	Sequence:	S8A1004	Analyzed:	01/10/18 15:16
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.66	11.1	U
107-13-1	Acrylonitrile	ND	2.22	11.1	U
67-64-1	Acetone	ND	1.11	2.22	U
75-71-8	Dichlorodifluoromethane	ND	1.11	2.22	U
74-87-3	Chloromethane	ND	1.11	2.22	U
75-01-4	Vinyl chloride	ND	1.11	2.22	U
74-83-9	Bromomethane	ND	1.11	2.22	U
75-00-3	Chloroethane	ND	1.11	2.22	U
75-69-4	Trichlorofluoromethane	ND	1.11	2.22	U
76-13-1	Freon 113	ND	1.11	2.22	U
75-35-4	1,1-Dichloroethene	ND	1.11	2.22	U
75-15-0	Carbon disulfide	ND	1.11	2.22	U
79-20-9	Methyl Acetate	ND	1.11	2.22	U
75-09-2	Methylene Chloride	2.82	1.11	2.22	
156-60-5	trans-1,2-Dichloroethene	ND	1.11	2.22	U
75-34-3	1,1-Dichloroethane	ND	1.11	2.22	U
78-93-3	2-Butanone	ND	1.11	2.22	U
156-59-4	cis-1,2-Dichloroethene	ND	1.11	2.22	U
67-66-3	Chloroform	ND	1.11	2.22	U
74-97-5	Bromochloromethane	ND	1.11	2.22	U
110-82-7	Cyclohexane	ND	1.11	2.22	U
71-55-6	1,1,1-Trichloroethane	ND	1.11	2.22	U
75-65-0	t-Butyl alcohol	ND	5.55	22.2	U
56-23-5	Carbon Tetrachloride	ND	1.11	2.22	U



ANALYSIS DATA SHEET

EPA 8260

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled:	01/09/18 11:05	Prep Date:	01/10/18 15:16	Matrix:	Soil
Percent Solids:	90.10	Prep Method:	EPA 5035A	File ID:	A15024.D
Prep Batch:	B8A1006	Sequence:	S8A1004	Analyzed:	01/10/18 15:16
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-06-2	1,2-Dichloroethane	ND	1.11	2.22	U
71-43-2	Benzene	ND	1.11	2.22	U
79-01-6	Trichloroethene	ND	1.11	2.22	U
108-87-2	Methylcyclohexane	ND	1.11	2.22	U
78-87-5	1,2-Dichloropropane	ND	1.11	2.22	U
75-27-4	Bromodichloromethane	ND	1.11	2.22	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.11	2.22	U
108-88-3	Toluene	ND	1.11	2.22	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.11	2.22	U
79-00-5	1,1,2-Trichloroethane	ND	1.11	2.22	U
108-10-1	4-Methyl-2-pentanone	ND	1.11	2.22	U
106-93-4	1,2-Dibromoethane	ND	1.11	2.22	U
591-78-6	2-Hexanone	ND	1.11	2.22	U
127-18-4	Tetrachloroethene	ND	1.11	2.22	U
124-48-1	Dibromochloromethane	ND	1.11	2.22	U
100-41-4	Ethylbenzene	ND	1.11	2.22	U
108-90-7	Chlorobenzene	ND	1.11	2.22	U
108-38-3/106-42	m,p-Xylenes	ND	2.22	4.44	U
95-47-6	o-Xylene	ND	2.22	4.44	U
100-42-5	Styrene	ND	1.11	4.44	U
75-25-2	Bromoform	ND	1.11	2.22	U
98-82-8	Isopropylbenzene	ND	1.11	2.22	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.11	2.22	U
541-73-1	1,3-Dichlorobenzene	ND	1.11	2.22	U



ANALYSIS DATA SHEET

EPA 8260

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled: 01/09/18 11:05	Prep Date: 01/10/18 15:16	Matrix: Soil
Percent Solids: 90.10	Prep Method: EPA 5035A	File ID: A15024.D
Prep Batch: B8A1006	Sequence: S8A1004	Analyzed: 01/10/18 15:16
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
106-46-7	1,4-Dichlorobenzene	ND	1.11	2.22	U
95-50-1	1,2-Dichlorobenzene	ND	1.11	2.22	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.11	2.22	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.11	2.22	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.11	2.22	U
1634-04-4	Methyl tert-Butyl Ether	ND	2.22	4.44	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	112%	74-146
Toluene-d8	102%	70-121
Bromofluorobenzene	99%	28-133

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\A\DATA18\JAN18\A0110\A15024.D

Vial: 8

Acq On : 10 Jan 2018 3:16 pm

Operator: SG

Sample : 1800021-01

Inst : GC/MS A

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 11 9:25 2018

Quant Results File: VA8S0828.RES

Quant Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration

DataAcq Meth : VA8S0828

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.36	168	738779	50.00	ug/l	-0.06
27) 1,4-Difluorobenzene	7.06	114	1273439	50.00	ug/l	-0.07
48) Chlorobenzene-d5	11.16	117	995628	50.00	ug/l	-0.08
60) 1,4-Dichlorobenzene-d4	16.63	152	428416	50.00	ug/l	-0.15

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.33	65	388153	55.92	ug/l	0.00
Spiked Amount 50.000	Range	74 - 146	Recovery	=	111.84%	
41) Toluene-d8	8.96	98	1503035	51.03	ug/l	-0.07
Spiked Amount 50.000	Range	70 - 121	Recovery	=	102.06%	
47) Bromofluorobenzene	13.37	95	530787	49.36	ug/l	-0.10
Spiked Amount 50.000	Range	28 - 133	Recovery	=	98.72%	

Target Compounds

15) Methylene Chloride	3.12	49	76998	2.54	ug/l	Qvalue # 60
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Data File : D:\A\DATA18\JAN18\A0110\A15024.D

Acq On : 10 Jan 2018 3:16 pm

Sample : 1800021-01

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 11 9:25 2018

Vial: 8

Operator: SG

Inst : GC/MS A

Multiplr: 1.00

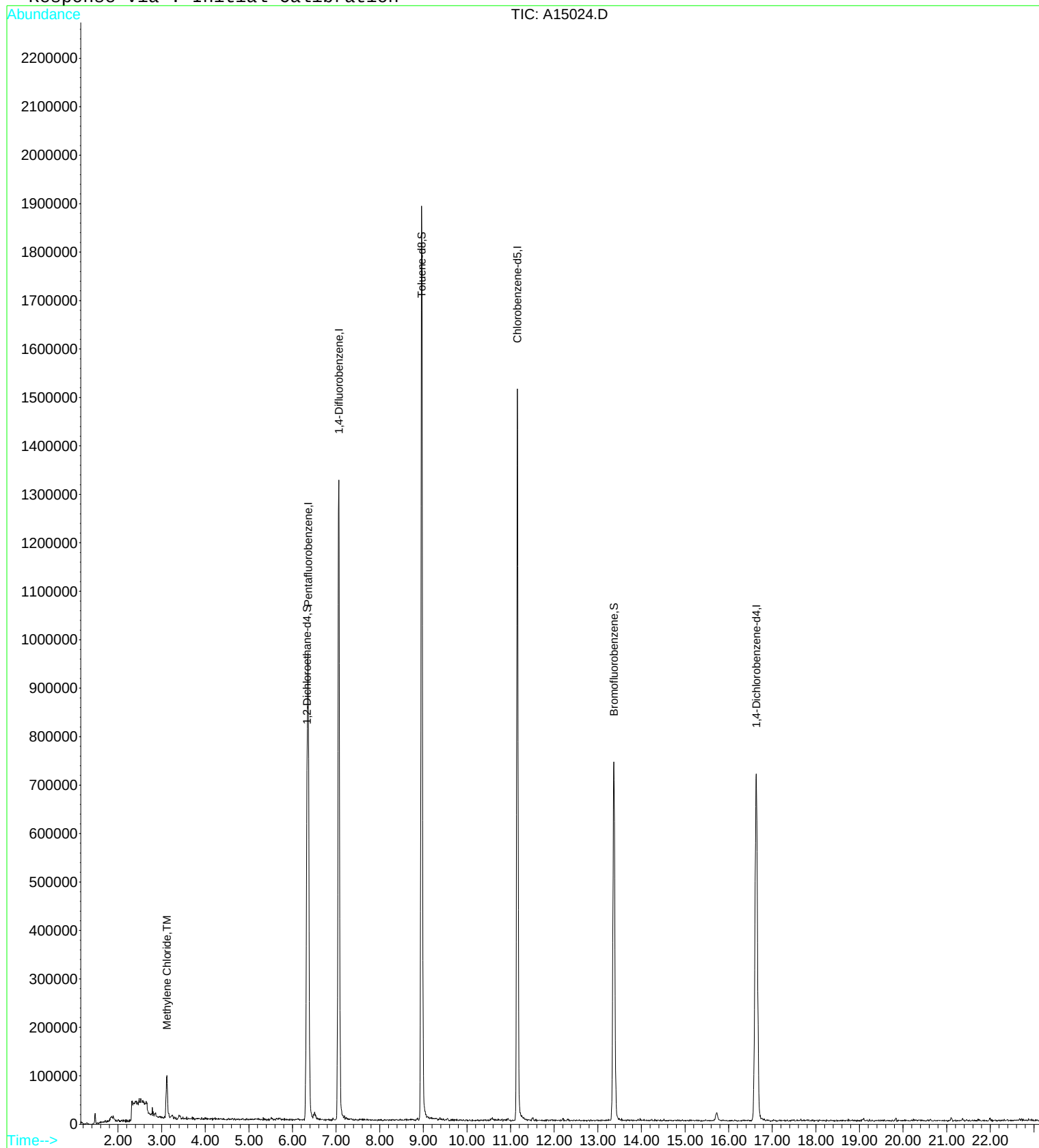
Quant Results File: VA8S0828.RES

Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration





VOLATILES QC DATA



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1006-BLK1	File ID:	A15019.D
Batch:	B8A1006	Prepared:	01/10/18 12:20	Analyzed:	01/10/18 12:20
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S8A1004	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
76-13-1	Freon 113	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
79-20-9	Methyl Acetate	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
110-82-7	Cyclohexane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
75-65-0	t-Butyl alcohol	ND	5.00	20.0	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1006-BLK1	File ID:	A15019.D
Batch:	B8A1006	Prepared:	01/10/18 12:20	Analyzed:	01/10/18 12:20
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S8A1004	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
108-87-2	Methylcyclohexane	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U



ANALYSIS DATA SHEET

Blank

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Laboratory ID:	B8A1006-BLK1	File ID:	A15019.D
Batch:	B8A1006	Prepared:	01/10/18 12:20	Analyzed:	01/10/18 12:20
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S8A1004	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U
1634-04-4	Methyl tert-Butyl Ether	ND	2.00	4.00	U

Surrogate
% Recovery
Recovery Limits

1,2-Dichloroethane-d4
 Toluene-d8
 Bromofluorobenzene

102%
 95%
 90%

74-146
 70-121
 28-133

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected at or above the MDL

U - Indicates compound analyzed for but not detected at or above the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\A\DATA18\JAN18\A0110\A15019.D

Vial: 3

Acq On : 10 Jan 2018 12:20 pm

Operator: SG

Sample : B8A1006-BLK1

Inst : GC/MS A

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 10 13:15 2018

Quant Results File: VA8S0828.RES

Quant Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration

DataAcq Meth : VA8S0828

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.36	168	998356	50.00	ug/l	-0.06
27) 1,4-Difluorobenzene	7.06	114	1660029	50.00	ug/l	-0.07
48) Chlorobenzene-d5	11.16	117	1258905	50.00	ug/l	-0.08
60) 1,4-Dichlorobenzene-d4	16.63	152	553269	50.00	ug/l	-0.14

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.33	65	463472	51.22	ug/l	0.00
Spiked Amount	50.000	Range	74 - 146	Recovery	=	102.44%
41) Toluene-d8	8.96	98	1825297	47.54	ug/l	-0.07
Spiked Amount	50.000	Range	70 - 121	Recovery	=	95.08%
47) Bromofluorobenzene	13.36	95	630463	44.98	ug/l	-0.11
Spiked Amount	50.000	Range	28 - 133	Recovery	=	89.96%

Target Compounds

Qvalue

Data File : D:\A\DATA18\JAN18\A0110\A15019.D

Acq On : 10 Jan 2018 12:20 pm

Sample : B8A1006-BLK1

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Jan 10 13:15 2018

Vial: 3

Operator: SG

Inst : GC/MS A

Multiplr: 1.00

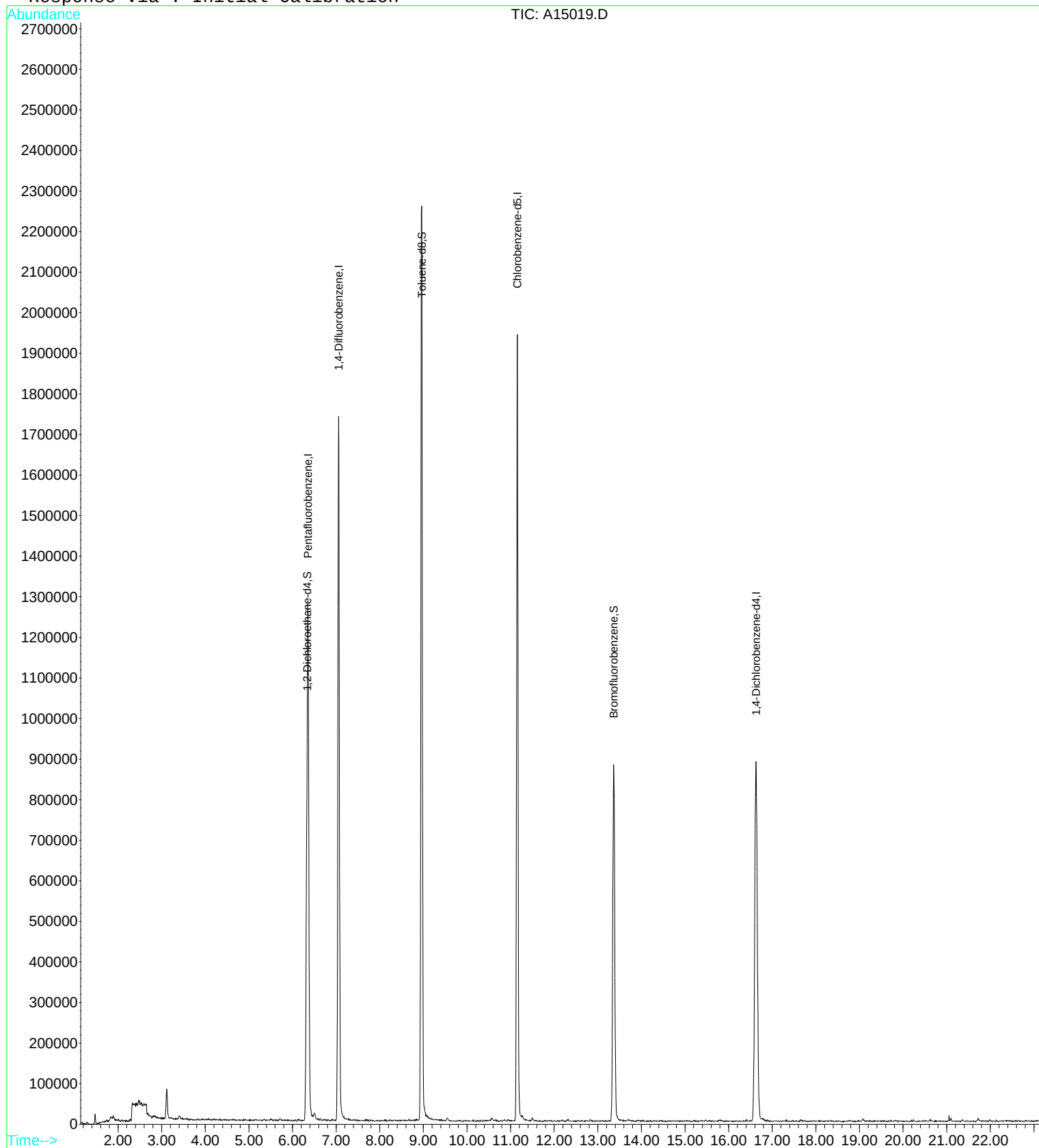
Quant Results File: VA8S0828.RES

Method : D:\A\METHODS\VA8S0828.M (RTE Integrator)

Title : VOA 8260 TCL SOIL INTA

Last Update : Wed Dec 06 10:23:39 2017

Response via : Initial Calibration





VOLATILES QC SUMMARY



SYSTEM MONITORING COMPOUND SUMMARY**EPA 8260**

Client: MADDUX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid
Instrument: GC/MS A

Lab Sample ID:	1,2-DCE-d4 (74% - 146%)	BFB (28% - 133%)	TOL-d8 (70% - 121%)
1800021-01	112	99	102
B8A1006-BLK1	102	90	95
B8A1006-BS1	105	95	102
B8A1006-MS1	110	98	101
B8A1006-MSD1	111	101	104



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

S-1

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MS1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Acrolein	277	ND	186	67	28 - 131
Acrylonitrile	277	ND	198	71	71 - 122
Acetone	55.5	ND	43.2	78	42 - 164
Dichlorodifluoromethane	55.5	ND	42.8	77	23 - 136
Chloromethane	55.5	ND	51.1	92	65 - 125
Vinyl chloride	55.5	ND	51.2	92	72 - 128
Bromomethane	55.5	ND	51.9	94	72 - 127
Chloroethane	55.5	ND	51.1	92	74 - 130
Trichlorofluoromethane	55.5	ND	52.6	95	70 - 138
Freon 113	55.5	ND	43.5	78	53 - 138
1,1-Dichloroethene	55.5	ND	46.4	84	56 - 127
Carbon disulfide	55.5	ND	36.9	66	34 - 129
Methyl Acetate	55.5	ND	48.2	87	64 - 123
Methylene Chloride	55.5	2.82	54.1	92	61 - 140
trans-1,2-Dichloroethene	55.5	ND	49.5	89	66 - 126
1,1-Dichloroethane	55.5	ND	50.2	90	73 - 123
2,2-Dichloropropane	55.5	ND	50.1	90	69 - 120
2-Butanone	55.5	ND	43.4	78	54 - 158
cis-1,2-Dichloroethene	55.5	ND	51.5	93	73 - 120
Chloroform	55.5	ND	51.0	92	72 - 119
Bromochloromethane	55.5	ND	45.8	83	74 - 117
Cyclohexane	55.5	ND	46.4	84	64 - 124
1,1,1-Trichloroethane	55.5	ND	47.2	85	72 - 120
t-Butyl alcohol	555	ND	529	95	74 - 134
1,1-Dichloropropene	55.5	ND	47.1	85	74 - 114
Carbon Tetrachloride	55.5	ND	45.8	82	71 - 116
1,2-Dichloroethane	55.5	ND	52.9	95	70 - 121
Benzene	55.5	ND	50.6	91	76 - 115



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

S-1

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MS1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Trichloroethene	55.5	ND	49.0	88	75 - 115
Methylcyclohexane	55.5	ND	44.9	81	72 - 117
1,2-Dichloropropane	55.5	ND	53.3	96	78 - 117
Bromodichloromethane	55.5	ND	50.7	91	74 - 119
Dibromomethane	55.5	ND	48.5	87	73 - 119
cis-1,3-Dichloropropene	55.5	ND	51.1	92	77 - 118
Toluene	55.5	ND	49.9	90	77 - 115
trans-1,3-Dichloropropene	55.5	ND	50.7	91	74 - 120
1,1,2-Trichloroethane	55.5	ND	49.5	89	77 - 118
4-Methyl-2-pentanone	55.5	ND	48.6	88	74 - 120
1,2-Dibromoethane	55.5	ND	49.5	89	76 - 118
2-Hexanone	55.5	ND	44.7	81	63 - 144
1,3-Dichloropropane	55.5	ND	51.5	93	77 - 114
Tetrachloroethene	55.5	ND	46.1	83	76 - 111
Dibromochloromethane	55.5	ND	50.2	90	75 - 119
Ethylbenzene	55.5	ND	51.1	92	78 - 116
Chlorobenzene	55.5	ND	50.1	90	80 - 112
1,1,1,2-Tetrachloroethane	55.5	ND	47.9	86	79 - 114
m,p-Xylenes	111	ND	104	93	79 - 113
o-Xylene	111	ND	102	92	83 - 111
Styrene	111	ND	98.1	88	82 - 112
Bromoform	55.5	ND	48.8	88	72 - 121
Isopropylbenzene	55.5	ND	49.7	90	78 - 115
1,1,2,2-Tetrachloroethane	55.5	ND	52.0	94	74 - 123
1,2,3-Trichloropropane	55.5	ND	51.3	92	73 - 122
n-Propyl Benzene	55.5	ND	50.9	92	78 - 116
Bromobenzene	55.5	ND	51.8	93	77 - 115
1,3,5-Trimethylbenzene	55.5	ND	49.8	90	78 - 116



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

S-1

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MS1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
2-Chlorotoluene	55.5	ND	50.8	91	77 - 115
4-Chlorotoluene	55.5	ND	51.9	94	77 - 116
tert-Butylbenzene	55.5	ND	48.6	87	79 - 116
1,2,4-Trimethylbenzene	55.5	ND	48.8	88	77 - 115
sec-Butylbenzene	55.5	ND	49.5	89	78 - 116
p-Isopropyltoluene	55.5	ND	49.0	88	79 - 117
1,3-Dichlorobenzene	55.5	ND	49.2	89	78 - 116
1,4-Dichlorobenzene	55.5	ND	49.3	89	78 - 115
n-Butyl Benzene	55.5	ND	51.9	93	78 - 120
1,2-Dichlorobenzene	55.5	ND	50.1	90	77 - 118
1,2-Dibromo-3-chloropropane	55.5	ND	48.5	87	64 - 125
1,2,4-Trichlorobenzene	55.5	ND	49.6	89	75 - 120
Hexachlorobutadiene	55.5	ND	48.5	87	74 - 125
Naphthalene	55.5	ND	49.7	90	67 - 122
1,2,3-Trichlorobenzene	55.5	ND	52.2	94	73 - 121
Methyl tert-Butyl Ether	111	ND	97.0	87	70 - 118

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

S-1

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MSD1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Acrolein	277	230	83	21	47	28 - 131
Acrylonitrile	277	226	81	13	21	71 - 122
Acetone	55.5	35.2	63	20	32	42 - 164
Dichlorodifluoromethane	55.5	43.1	78	0.8	21	23 - 136
Chloromethane	55.5	53.7	97	5	16	65 - 125
Vinyl chloride	55.5	54.8	99	7	15	72 - 128
Bromomethane	55.5	55.7	100	7	18	72 - 127
Chloroethane	55.5	56.1	101	9	16	74 - 130
Trichlorofluoromethane	55.5	54.3	98	3	20	70 - 138
Freon 113	55.5	49.8	90	14	22	53 - 138
1,1-Dichloroethene	55.5	52.1	94	12	18	56 - 127
Carbon disulfide	55.5	41.4	75	11	20	34 - 129
Methyl Acetate	55.5	56.7	102	16	39	64 - 123
Methylene Chloride	55.5	62.0	107	14	23	61 - 140
trans-1,2-Dichloroethene	55.5	55.7	100	12	18	66 - 126
1,1-Dichloroethane	55.5	58.4	105	15	18	73 - 123
2,2-Dichloropropane	55.5	56.6	102	12	18	69 - 120
2-Butanone	55.5	42.6	77	2	27	54 - 158
cis-1,2-Dichloroethene	55.5	59.4	107	14	19	73 - 120
Chloroform	55.5	58.9	106	14	18	72 - 119
Bromochloromethane	55.5	55.2	99	19	19	74 - 117
Cyclohexane	55.5	52.9	95	13	19	64 - 124
1,1,1-Trichloroethane	55.5	54.2	98	14	17	72 - 120
t-Butyl alcohol	55.5	61.8	111	16	25	74 - 134
1,1-Dichloropropene	55.5	52.0	94	10	18	74 - 114
Carbon Tetrachloride	55.5	50.0	90	9	18	71 - 116
1,2-Dichloroethane	55.5	59.3	107	11	19	70 - 121
Benzene	55.5	57.5	104	13	16	76 - 115



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

S-1

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MSD1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Trichloroethene	55.5	55.3	100	12	19	75 - 115
Methylcyclohexane	55.5	50.3	91	11	22	72 - 117
1,2-Dichloropropane	55.5	60.1	108	12	18	78 - 117
Bromodichloromethane	55.5	58.2	105	14	18	74 - 119
Dibromomethane	55.5	57.2	103	16	19	73 - 119
cis-1,3-Dichloropropene	55.5	58.8	106	14	18	77 - 118
Toluene	55.5	57.5	104	14	17	77 - 115
trans-1,3-Dichloropropene	55.5	58.8	106	15	18	74 - 120
1,1,2-Trichloroethane	55.5	57.1	103	14	21	77 - 118
4-Methyl-2-pentanone	55.5	56.3	101	15	22	74 - 120
1,2-Dibromoethane	55.5	55.9	101	12	20	76 - 118
2-Hexanone	55.5	46.8	84	5	27	63 - 144
1,3-Dichloropropane	55.5	58.5	105	13	20	77 - 114
Tetrachloroethene	55.5	50.4	91	9	17	76 - 111
Dibromochloromethane	55.5	56.5	102	12	19	75 - 119
Ethylbenzene	55.5	56.8	102	11	20	78 - 116
Chlorobenzene	55.5	57.3	103	14	16	80 - 112
1,1,1,2-Tetrachloroethane	55.5	55.4	100	15	18	79 - 114
m,p-Xylenes	111	116	104	11	16	79 - 113
o-Xylene	111	116	104	13	17	83 - 111
Styrene	111	111	100	12	17	82 - 112
Bromoform	55.5	54.2	98	11	20	72 - 121
Isopropylbenzene	55.5	56.4	102	13	20	78 - 115
1,1,2,2-Tetrachloroethane	55.5	58.9	106	12	29	74 - 123
1,2,3-Trichloropropane	55.5	60.0	108	16	30	73 - 122
n-Propyl Benzene	55.5	57.6	104	12	19	78 - 116
Bromobenzene	55.5	59.4	107	14	20	77 - 115
1,3,5-Trimethylbenzene	55.5	56.1	101	12	18	78 - 116



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

S-1

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B8A1006	Prep Method:	EPA 5035A
Percent Solids:	90.10	Laboratory ID:	B8A1006-MSD1
		Client Sample ID:	1800021-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
2-Chlorotoluene	55.5	57.7	104	13	18	77 - 115
4-Chlorotoluene	55.5	58.6	106	12	17	77 - 116
tert-Butylbenzene	55.5	56.3	101	15	19	79 - 116
1,2,4-Trimethylbenzene	55.5	55.5	100	13	21	77 - 115
sec-Butylbenzene	55.5	56.3	102	13	19	78 - 116
p-Isopropyltoluene	55.5	55.4	100	12	19	79 - 117
1,3-Dichlorobenzene	55.5	56.5	102	14	17	78 - 116
1,4-Dichlorobenzene	55.5	56.5	102	14	17	78 - 115
n-Butyl Benzene	55.5	58.8	106	12	21	78 - 120
1,2-Dichlorobenzene	55.5	58.0	105	15	18	77 - 118
1,2-Dibromo-3-chloropropane	55.5	56.6	102	15	32	64 - 125
1,2,4-Trichlorobenzene	55.5	58.7	106	17	24	75 - 120
Hexachlorobutadiene	55.5	56.1	101	15	29	74 - 125
Naphthalene	55.5	57.1	103	14	23	67 - 122
1,2,3-Trichlorobenzene	55.5	60.3	109	14	24	73 - 121
Methyl tert-Butyl Ether	111	106	96	9	32	70 - 118

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid	Prep Method: EPA 5035A
Prep Batch: B8A1006	Lab Sample ID: B8A1006-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	187	75	28 - 131
Acrylonitrile	250	196	78	71 - 122
Acetone	50.0	62.2	124	42 - 164
Dichlorodifluoromethane	50.0	44.4	89	23 - 136
Chloromethane	50.0	50.5	101	65 - 125
Vinyl chloride	50.0	52.2	104	72 - 128
Bromomethane	50.0	50.9	102	72 - 127
Chloroethane	50.0	49.6	99	74 - 130
Trichlorofluoromethane	50.0	50.2	100	70 - 138
Freon 113	50.0	45.2	90	53 - 138
1,1-Dichloroethene	50.0	49.1	98	56 - 127
Carbon disulfide	50.0	39.1	78	34 - 129
Methyl Acetate	50.0	50.8	102	64 - 123
Methylene Chloride	50.0	54.7	109	61 - 140
trans-1,2-Dichloroethene	50.0	51.3	103	66 - 126
1,1-Dichloroethane	50.0	51.7	103	73 - 123
2,2-Dichloropropane	50.0	50.4	101	69 - 120
2-Butanone	50.0	57.2	114	54 - 158
cis-1,2-Dichloroethene	50.0	52.9	106	73 - 120
Chloroform	50.0	51.6	103	72 - 119
Bromochloromethane	50.0	46.7	93	74 - 117
Cyclohexane	50.0	48.0	96	64 - 124
1,1,1-Trichloroethane	50.0	48.6	97	72 - 120
t-Butyl alcohol	500	560	112	74 - 134
1,1-Dichloropropene	50.0	47.4	95	74 - 114
Carbon Tetrachloride	50.0	47.3	95	71 - 116
1,2-Dichloroethane	50.0	50.2	100	70 - 121
Benzene	50.0	51.2	102	76 - 115



LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix: Solid	Prep Method: EPA 5035A
Prep Batch: B8A1006	Lab Sample ID: B8A1006-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	49.1	98	75 - 115
Methylcyclohexane	50.0	46.3	93	72 - 117
1,2-Dichloropropane	50.0	51.8	104	78 - 117
Bromodichloromethane	50.0	50.9	102	74 - 119
Dibromomethane	50.0	46.5	93	73 - 119
cis-1,3-Dichloropropene	50.0	51.3	103	77 - 118
Toluene	50.0	50.3	101	77 - 115
trans-1,3-Dichloropropene	50.0	50.3	101	74 - 120
1,1,2-Trichloroethane	50.0	49.0	98	77 - 118
4-Methyl-2-pentanone	50.0	49.7	99	74 - 120
1,2-Dibromoethane	50.0	50.0	100	76 - 118
2-Hexanone	50.0	57.0	114	63 - 144
1,3-Dichloropropane	50.0	52.0	104	77 - 114
Tetrachloroethene	50.0	48.3	97	76 - 111
Dibromochloromethane	50.0	50.7	101	75 - 119
Ethylbenzene	50.0	53.6	107	78 - 116
Chlorobenzene	50.0	51.7	103	80 - 112
1,1,1,2-Tetrachloroethane	50.0	50.3	101	79 - 114
m,p-Xylenes	100	107	107	79 - 113
o-Xylene	100	104	104	83 - 111
Styrene	100	101	101	82 - 112
Bromoform	50.0	49.3	99	72 - 121
Isopropylbenzene	50.0	52.5	105	78 - 115
1,1,1,2-Tetrachloroethane	50.0	53.2	106	74 - 123
1,2,3-Trichloropropane	50.0	52.9	106	73 - 122
n-Propyl Benzene	50.0	53.2	106	78 - 116
Bromobenzene	50.0	53.4	107	77 - 115
1,3,5-Trimethylbenzene	50.0	52.0	104	78 - 116



LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B8A1006	Lab Sample ID:	B8A1006-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2-Chlorotoluene	50.0	52.8	106	77 - 115
4-Chlorotoluene	50.0	53.6	107	77 - 116
tert-Butylbenzene	50.0	51.5	103	79 - 116
1,2,4-Trimethylbenzene	50.0	50.1	100	77 - 115
sec-Butylbenzene	50.0	52.9	106	78 - 116
p-Isopropyltoluene	50.0	51.6	103	79 - 117
1,3-Dichlorobenzene	50.0	50.3	101	78 - 116
1,4-Dichlorobenzene	50.0	50.2	100	78 - 115
n-Butyl Benzene	50.0	54.8	110	78 - 120
1,2-Dichlorobenzene	50.0	51.2	102	77 - 118
1,2-Dibromo-3-chloropropane	50.0	49.2	98	64 - 125
1,2,4-Trichlorobenzene	50.0	51.0	102	75 - 120
Hexachlorobutadiene	50.0	51.2	102	74 - 125
Naphthalene	50.0	50.4	101	67 - 122
1,2,3-Trichlorobenzene	50.0	52.0	104	73 - 121
Methyl tert-Butyl Ether	100	99.4	99	70 - 118

* Values outside of QC limits

**METHOD BLANK SUMMARY**

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Blank ID:	B8A1006-BLK1	Batch:	B8A1006
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B8A1006-BS1	A15020.D	01/10/2018 13:04
Matrix Spike	B8A1006-MS1	A15021.D	01/10/2018 13:44
Matrix Spike Dup	B8A1006-MSD1	A15022.D	01/10/2018 14:14
S-1	1800021-01	A15024.D	01/10/2018 15:16



INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Lab File ID:	A13550.D	Injection Date:	08/28/17
Instrument ID:	GC/MS A	Injection Time:	11:15
Sequence:	S7H2813	Lab Sample ID:	S7H2813-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	22.9	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.55	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	68.8	PASS
175	5 - 9% of 174	7.07	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	6.99	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
10 ppb 8260	S7H2813-CAL2	A13552.D	08/28/2017	12:04:00
20 ppb 8260	S7H2813-CAL3	A13553.D	08/28/2017	12:38:00
50 ppb 8260	S7H2813-CAL4	A13554.D	08/28/2017	13:17:00
100 ppb 8260	S7H2813-CAL5	A13555.D	08/28/2017	13:55:00
200 ppb 8260	S7H2813-CAL6	A13556.D	08/28/2017	14:27:00
2 ppb 8260	S7H2813-CAL1	A13558.D	08/28/2017	15:55:00



INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Lab File ID:	A15016.D	Injection Date:	01/10/18
Instrument ID:	GC/MS A	Injection Time:	10:54
Sequence:	S8A1004	Lab Sample ID:	S8A1004-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	22.9	PASS
75	30 - 60% of 95	43.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.93	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	66.7	PASS
175	5 - 9% of 174	7.92	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	6.65	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S8A1004-CCV1	A15017.D	01/10/2018	11:08:00
Blank	B8A1006-BLK1	A15019.D	01/10/2018	12:20:00
LCS	B8A1006-BS1	A15020.D	01/10/2018	13:04:00
Matrix Spike	B8A1006-MS1	A15021.D	01/10/2018	13:44:00
Matrix Spike Dup	B8A1006-MSD1	A15022.D	01/10/2018	14:14:00
S-1	1800021-01	A15024.D	01/10/2018	15:16:00



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Sequence: S8A1004

Instrument: GC/MS A

Calibration: 17H2802

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S8A1004-CCV1)			<i>Lab File ID: A15017.D</i>			<i>Analyzed: 01/10/18 11:08</i>			
Pentafluorobenzene	952765	6.35	1216779	6.37	78	50 - 200	-0.0200	+/-0.50	
1,4-Difluorobenzene	1627774	7.05	2031781	7.07	80	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	1274682	11.15	1601807	11.17	80	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	543196	16.63	700132	16.66	78	50 - 200	-0.0300	+/-0.50	
Blank (B8A1006-BLK1)			<i>Lab File ID: A15019.D</i>			<i>Analyzed: 01/10/18 12:20</i>			
Pentafluorobenzene	998356	6.36	952765	6.35	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1660029	7.06	1627774	7.05	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1258905	11.16	1274682	11.15	99	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	553269	16.63	543196	16.63	102	50 - 200	0.0000	+/-0.50	
LCS (B8A1006-BS1)			<i>Lab File ID: A15020.D</i>			<i>Analyzed: 01/10/18 13:04</i>			
Pentafluorobenzene	920651	6.35	952765	6.35	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1553977	7.05	1627774	7.05	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1172455	11.16	1274682	11.15	92	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	515174	16.63	543196	16.63	95	50 - 200	0.0000	+/-0.50	
Matrix Spike (B8A1006-MS1)			<i>Lab File ID: A15021.D</i>			<i>Analyzed: 01/10/18 13:44</i>			
Pentafluorobenzene	893129	6.35	952765	6.35	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1483521	7.05	1627774	7.05	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1150341	11.15	1274682	11.15	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	510408	16.63	543196	16.63	94	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B8A1006-MSD1)			<i>Lab File ID: A15022.D</i>			<i>Analyzed: 01/10/18 14:14</i>			
Pentafluorobenzene	791220	6.36	952765	6.35	83	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1344813	7.06	1627774	7.05	83	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1071870	11.16	1274682	11.15	84	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	468314	16.64	543196	16.63	86	50 - 200	0.0100	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Sequence: S8A1004

Instrument: GC/MS A

Calibration: 17H2802

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
S-1 (1800021-01)			<i>Lab File ID: A15024.D</i>			<i>Analyzed: 01/10/18 15:16</i>			
Pentafluorobenzene	738779	6.36	952765	6.35	78	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1273439	7.06	1627774	7.05	78	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	995628	11.16	1274682	11.15	78	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	428416	16.63	543196	16.63	79	50 - 200	0.0000	+/-0.50	

* Values outside of QC limits



VOLATILES CALIBRATION DATA


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INITIAL CALIBRATION DATA

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 17H2802				Instrument: GC/MS A				Calibration Date: 8/28/2017 5:38:33PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acrolein	10	9.620158E-02	50	9.432861E-02	100	9.756044E-02	250	9.315562E-02	500	9.179113E-02	1000	0.0915263
Acrylonitrile	10	0.1934302	50	0.1865131	100	0.1958408	250	0.180463	500	0.1782551	1000	0.1787609
Acetone	2	0.3729263	10	0.2746268	20	0.2445802	50	0.2241088	100	0.2259281	200	0.214414
Dichlorodifluoromethane	2	0.4294328	10	0.5884355	20	0.5687742	50	0.5437193	100	0.4938995	200	0.4580362
Chloromethane	2	1.467212	10	1.51112	20	1.456614	50	1.376509	100	1.303123	200	1.174722
Vinyl chloride	2	1.168214	10	1.237942	20	1.179937	50	1.15347	100	1.087096	200	0.9843386
Bromomethane	2	0.7057092	10	0.6609966	20	0.6062543	50	0.5938177	100	0.5703627	200	0.5447824
Chloroethane	2	0.498349	10	0.4341814	20	0.4461965	50	0.4083069	100	0.3996862	200	0.3744227
Trichlorofluoromethane	2	0.8332104	10	0.8219627	20	0.792044	50	0.7356757	100	0.7231707	200	0.5524092
Freon 113	2	0.6801152	10	0.7019768	20	0.7133834	50	0.6943358	100	0.6449059	200	0.6468949
1,1-Dichloroethene	2	1.126054	10	1.193736	20	1.133918	50	1.09425	100	1.020154	200	0.9910786
Carbon disulfide	2	2.886027	10	2.988981	20	2.836655	50	2.70511	100	2.477541	200	2.254553
Methyl Acetate	2	0.5476011	10	0.4848326	20	0.4883487	50	0.4746727	100	0.4651592	200	0.4532008
Methylene Chloride	2	1.927333	10	1.366381	20	1.311892	50	1.191728	100	1.124206	200	1.064279
trans-1,2-Dichloroethene	2	1.086155	10	1.145204	20	1.14189	50	1.095545	100	1.053348	200	1.004315
1,1-Dichloroethane	2	1.347372	10	1.405592	20	1.379949	50	1.356504	100	1.282858	200	1.257398
Vinyl acetate	2	1.685046	10	1.774599	20	1.816986	50	1.727459	100	1.648069	200	1.585474
2,2-Dichloropropane	2	0.8573372	10	0.8807046	20	0.8755062	50	0.8735643	100	0.8297556	200	0.7918855
2-Butanone	2	0.3771852	10	0.3923082	20	0.3693214	50	0.3465679	100	0.3213479	200	0.3078201
cis-1,2-Dichloroethene	2	1.024758	10	1.048914	20	1.067969	50	1.011305	100	0.9610655	200	0.937103
Chloroform	2	0.9601207	10	0.971941	20	0.9770036	50	0.9421224	100	0.9118192	200	0.9109017
Bromochloromethane	2	0.3145451	10	0.2939523	20	0.2988073	50	0.2907015	100	0.2879937	200	0.2935871
Cyclohexane	2	1.799322	10	1.827666	20	1.772105	50	1.740415	100	1.62426	200	1.596658
1,1,1-Trichloroethane	2	0.7324443	10	0.7280226	20	0.7236873	50	0.7133555	100	0.6799517	200	0.6779715
t-Butyl alcohol	20	3.036636E-02	100	4.033207E-02	200	3.843447E-02	500	3.626904E-02	1000	3.549286E-02	2000	3.477442E-02

INITIAL CALIBRATION DATA

EPA 8260

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 17H2802				Instrument: GC/MS A				Calibration Date: 8/28/2017 5:38:33PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,1-Dichloropropene	2	0.148034	10	0.169974	20	0.1701057	50	0.167259	100	0.1662501	200	0.1662543
Carbon Tetrachloride	2	0.3254077	10	0.3304711	20	0.3214298	50	0.3247904	100	0.3103665	200	0.3107867
1,2-Dichloroethane	2	0.3186658	10	0.3100916	20	0.3302423	50	0.3182596	100	0.3051901	200	0.302268
Benzene	2	1.587986	10	1.567144	20	1.563129	50	1.536752	100	1.452611	200	1.377731
Trichloroethene	2	0.3416257	10	0.3410734	20	0.347359	50	0.336673	100	0.3279245	200	0.3237029
Methylcyclohexane	2	0.8142309	10	0.7636989	20	0.7706896	50	0.7560513	100	0.7202266	200	0.7043224
1,2-Dichloropropane	2	0.4696963	10	0.4444234	20	0.4516604	50	0.4369562	100	0.4227378	200	0.406027
1,4-Dioxane	80	1.572479E-03	160	1.705361E-03	320	1.872357E-03	640	2.02203E-03	2000	2.179293E-03	5000	0
Bromodichloromethane	2	0.3729005	10	0.3995216	20	0.4026295	50	0.3972257	100	0.3807883	200	0.375783
Dibromomethane	2	0.1394319	10	0.1570842	20	0.1545836	50	0.1534498	100	0.1498939	200	0.1491041
2-Chloroethyl vinyl ether	2	0.1980488	10	0.1989613	20	0.2044266	50	0.1985321	100	0.1925673	200	0.1879883
cis-1,3-Dichloropropene	2	0.5561546	10	0.5831861	20	0.586435	50	0.5805499	100	0.5510375	200	0.5386781
Toluene	2	1.503113	10	1.415938	20	1.391122	50	1.336836	100	1.259617	200	1.153678
trans-1,3-Dichloropropene	2	0.4047621	10	0.4390575	20	0.4558365	50	0.4305982	100	0.4214546	200	0.4143951
1,1,2-Trichloroethane	2	0.2089731	10	0.2221848	20	0.219283	50	0.218006	100	0.2087253	200	0.2053214
4-Methyl-2-pentanone	2	0.3881945	10	0.3729292	20	0.3837126	50	0.3552844	100	0.3333058	200	0.3162054
1,2-Dibromoethane	2	0.2017693	10	0.2112676	20	0.2174902	50	0.2118391	100	0.2014951	200	0.1996885
2-Hexanone	2	0.3896083	10	0.4182886	20	0.4001294	50	0.3713345	100	0.3425272	200	0.3245245
1,3-Dichloropropane	2	0.6042473	10	0.601579	20	0.5870682	50	0.558811	100	0.5390325	200	0.5264592
Tetrachloroethene	2	0.4261365	10	0.4076298	20	0.4251183	50	0.4018094	100	0.3899473	200	0.3864269
Dibromochloromethane	2	0.2578604	10	0.2788475	20	0.2730697	50	0.2823182	100	0.27062	200	0.269729
Ethylbenzene	2	2.057816	10	2.031719	20	1.931592	50	1.878369	100	1.72747	200	1.618522
Chlorobenzene	2	1.050668	10	0.9869672	20	0.9586283	50	0.9583445	100	0.8985291	200	0.8822454
1,1,1,2-Tetrachloroethane	2	0.2735672	10	0.3209246	20	0.3016718	50	0.299323	100	0.2857821	200	0.2859354
m,p-Xylenes	4	1.588568	20	1.497614	40	1.423972	100	1.351841	200	1.218115	400	1.139121


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INITIAL CALIBRATION DATA

EPA 8260

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration: 17H2802				Instrument: GC/MS A				Calibration Date: 8/28/2017 5:38:33PM				
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
o-Xylene	4	1.556018	20	1.509594	40	1.479024	100	1.430161	200	1.291528	400	1.198393
Styrene	4	1.178675	20	1.135645	40	1.110831	100	1.069181	200	1.024292	400	0.9626793
Bromoform	2	0.1394198	10	0.1684438	20	0.1623198	50	0.1617755	100	0.1594378	200	0.1603253
Isopropylbenzene	2	4.343262	10	4.144085	20	4.016164	50	3.953871	100	3.746998	200	3.617904
1,1,2,2-Tetrachloroethane	2	0.7860834	10	0.8188927	20	0.7887298	50	0.7687012	100	0.7350627	200	0.7270524
1,2,3-Trichloropropane	2	0.5174546	10	0.5969352	20	0.5607693	50	0.5377616	100	0.5276764	200	0.5157268
n-Propyl Benzene	2	6.033584	10	5.570193	20	5.345156	50	5.233387	100	4.958391	200	4.708405
Bromobenzene	2	1.746455	10	1.728248	20	1.670574	50	1.620875	100	1.552623	200	1.537506
1,3,5-Trimethylbenzene	2	3.308169	10	3.133387	20	3.083426	50	3.057839	100	2.913172	200	2.841547
2-Chlorotoluene	2	3.139254	10	2.923714	20	2.848838	50	2.747701	100	2.676183	200	2.640502
4-Chlorotoluene	2	3.18313	10	3.088594	20	2.949505	50	2.84136	100	2.759953	200	2.696174
tert-Butylbenzene	2	2.697404	10	2.612508	20	2.546541	50	2.513467	100	2.418057	200	2.421812
1,2,4-Trimethylbenzene	2	3.392276	10	3.167892	20	3.109442	50	3.022522	100	2.897799	200	2.854233
sec-Butylbenzene	2	4.553144	10	4.3522	20	4.245271	50	4.173432	100	3.98223	200	3.908217
p-Isopropyltoluene	2	3.368166	10	3.344808	20	3.269883	50	3.211549	100	3.111587	200	3.057879
1,3-Dichlorobenzene	2	1.684543	10	1.630388	20	1.543248	50	1.485793	100	1.509543	200	1.479768
1,4-Dichlorobenzene	2	1.614313	10	1.623181	20	1.541291	50	1.485793	100	1.450926	200	1.423127
n-Butyl Benzene	2	3.954379	10	3.784546	20	3.740438	50	3.613941	100	3.436004	200	3.271076
1,2-Dichlorobenzene	2	1.346346	10	1.345296	20	1.352927	50	1.311984	100	1.263282	200	1.244784
1,2-Dibromo-3-chloropropane	2	8.333456E-02	10	0.1030402	20	0.1080475	50	9.869054E-02	100	0.1010617	200	9.960194E-02
1,2,4-Trichlorobenzene	2	1.029609	10	0.9383149	20	0.9268181	50	0.8896814	100	0.8689809	200	0.855602
Hexachlorobutadiene	2	0.5573551	10	0.514645	20	0.5291395	50	0.5198222	100	0.4963479	200	0.4891389
Naphthalene	2	1.847127	10	1.487494	20	1.446563	50	1.348374	100	1.331165	200	1.346885
1,2,3-Trichlorobenzene	2	0.8099722	10	0.7349343	20	0.7509977	50	0.7298837	100	0.700038	200	0.6952175
Methyl tert-Butyl Ether	4	2.248579	20	2.239886	40	2.239771	100	2.130768	200	2.050503	400	1.953945



INITIAL CALIBRATION DATA

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration: 17H2802					Instrument: GC/MS A							
Calibration Date: 8/28/2017 5:38:33PM												
Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,2-Dichloroethane-d4	2	0.2995264	10	0.2789437	20	0.2770242	50	0.2668134	100	0.2598492	200	0.2531828
Toluene-d8	2	1.291481	10	1.212092	20	1.192114	50	1.155849	100	1.071064	200	1.015675
Bromofluorobenzene	2	0.4870628	10	0.430374	20	0.4201056	50	0.4067737	100	0.3937719	200	0.3951471



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration:	17H2802	Instrument:	GC/MS A
		Calibration Date:	8/28/2017 5:38:33PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Acrolein	A	9.409395E-02	2.572227				
Acrylonitrile	A	0.1855439	4.133535				
Acetone	Q	0.2594307			0.9998586		
Dichlorodifluoromethane	A	0.5137163	12.34556				
Chloromethane	A	1.38155	9.081903			SPCC (0.1)	
Vinyl chloride	A	1.135166	7.785566			CCC (20)	
Bromomethane	A	0.6136538	9.717885				
Chloroethane	A	0.4268571	10.14177				
Trichlorofluoromethane	A	0.7430788	13.92707				
Freon 113	A	0.6802687	4.224862				
1,1-Dichloroethene	A	1.093198	6.919554			CCC (20)	
Carbon disulfide	A	2.691478	10.30041				
Methyl Acetate	A	0.4856359	6.791599				
Methylene Chloride	Q	1.33097			0.9999328		
trans-1,2-Dichloroethene	A	1.087743	4.940554				
1,1-Dichloroethane	A	1.338279	4.265828			SPCC (0.1)	
Vinyl acetate	A	1.706272	4.959524				
2,2-Dichloropropane	A	0.8514589	4.060552				
2-Butanone	A	0.3524251	9.392814				
cis-1,2-Dichloroethene	A	1.008519	5.014873				
Chloroform	A	0.9456514	3.082341			CCC (20)	
Bromochloromethane	A	0.2965978	3.205082				
Cyclohexane	A	1.726738	5.501571				
1,1,1-Trichloroethane	A	0.7092388	3.426211				
t-Butyl alcohol	A	3.594487E-02	9.495249				
1,1-Dichloropropene	A	0.1646462	5.053491				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Calibration:	17H2802	Instrument:	GC/MS A
		Calibration Date:	8/28/2017 5:38:33PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Carbon Tetrachloride	A	0.320542	2.571847				
1,2-Dichloroethane	A	0.3141196	3.290497				
Benzene	A	1.514225	5.411025				
Trichloroethene	A	0.3363931	2.666745				
Methylcyclohexane	A	0.7548699	5.167656				
1,2-Dichloropropane	A	0.4385835	5.084881			CCC (20)	
1,4-Dioxane	A	1.870304E-03	12.94319				
Bromodichloromethane	A	0.3881414	3.380906				
Dibromomethane	A	0.1505912	4.13099				
2-Chloroethyl vinyl ether	A	0.1967541	2.901477				
cis-1,3-Dichloropropene	A	0.5660069	3.526409				
Toluene	A	1.343384	9.183748			CCC (20)	
trans-1,3-Dichloropropene	A	0.427684	4.274743				
1,1,2-Trichloroethane	A	0.2137489	3.234388				
4-Methyl-2-pentanone	A	0.358272	8.050246				
1,2-Dibromoethane	A	0.2072583	3.49525				
2-Hexanone	A	0.3744021	9.505151				
1,3-Dichloropropane	A	0.5695329	5.791625				
Tetrachloroethene	A	0.406178	4.166212				
Dibromochloromethane	A	0.2720741	3.125035				
Ethylbenzene	A	1.874248	9.202392			CCC (20)	
Chlorobenzene	A	0.9558971	6.393604			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	A	0.294534	5.600477				
m,p-Xylenes	A	1.369872	12.3744				
o-Xylene	A	1.410786	9.781807				
Styrene	A	1.080217	7.261956				



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: **MADDOX MATERIALS**
 Work Order: **1800021**
 Project: **Rosano Trucking / Fred McDowell**

Calibration:	17H2802	Instrument:	GC/MS A
		Calibration Date:	8/28/2017 5:38:33PM

COMPOUND	TYPE	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Bromoform	A	0.1586203	6.256129			SPCC (0.1)	
Isopropylbenzene	A	3.970381	6.62285				
1,1,2,2-Tetrachloroethane	A	0.7707537	4.518111			SPCC (0.3)	
1,2,3-Trichloropropane	A	0.5427207	5.758112				
n-Propyl Benzene	A	5.308186	8.771307				
Bromobenzene	A	1.642713	5.342892				
1,3,5-Trimethylbenzene	A	3.056257	5.410602				
2-Chlorotoluene	A	2.829365	6.538382				
4-Chlorotoluene	A	2.919786	6.506037				
tert-Butylbenzene	A	2.534965	4.302089				
1,2,4-Trimethylbenzene	A	3.074027	6.397311				
sec-Butylbenzene	A	4.202416	5.662762				
p-Isopropyltoluene	A	3.227312	3.865259				
1,3-Dichlorobenzene	A	1.555547	5.387545				
1,4-Dichlorobenzene	A	1.523105	5.513665				
n-Butyl Benzene	A	3.633397	6.830347				
1,2-Dichlorobenzene	A	1.31077	3.553178				
1,2-Dibromo-3-chloropropane	A	9.896274E-02	8.433569				
1,2,4-Trichlorobenzene	A	0.9181677	6.896007				
Hexachlorobutadiene	A	0.5177414	4.722309				
Naphthalene	A	1.467935	13.35904				
1,2,3-Trichlorobenzene	A	0.7368406	5.657083				
Methyl tert-Butyl Ether	A	2.143909	5.687486				
1,2-Dichloroethane-d4	A	0.2725566	6.046405				
Toluene-d8	A	1.156379	8.622568				
Bromofluorobenzene	A	0.4222058	8.24323				



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Calibration Report

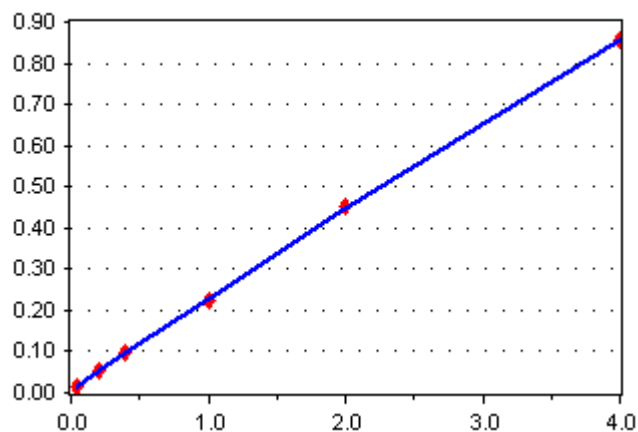
Printed: 08/28/2017 5:47 pm

Instrument: GC/MS A
Calibration ID: 17H2802

Calibration Date: 08/28/2017 17:38 By DSM
Last Edit Date: 08/28/2017 17:38 By DSM

Acetone

BTEX [8260] - Acetone



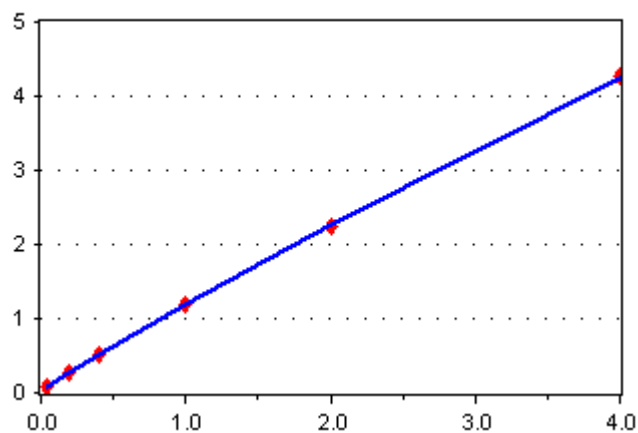
Quadratic Regression

COD: 0.9998586

$$[\text{Conc}] = 6.405767\text{E-}03 + 0.2282466 * [\text{Response}] + (-3.817761\text{E-}03) * [\text{Response}]^2$$

Methylene Chloride

BTEX [8260] - Methylene Chloride



Quadratic Regression

COD: 0.9999328

$$[\text{Conc}] = 4.514399\text{E-}02 + 1.164093 * [\text{Response}] + (-2.792973\text{E-}02) * [\text{Response}]^2$$



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	202	9.409395E-02	7.609431E-02		-19.1	20
Acrylonitrile	A	250	209	0.1855439	0.1551766		-16.4	20
Acetone	Q	50.0	50.7	0.2594307	0.2339727		1.4	20
Dichlorodifluoromethane	A	50.0	46.2	0.5137163	0.4742691		-7.7	20
Chloromethane	A	50.0	51.0	1.38155	1.409275	0.1	2.0	20
Vinyl chloride	A	50.0	52.8	1.135166	1.198197		5.6	20
Bromomethane	A	50.0	49.7	0.6136538	0.6100707		-0.6	20
Chloroethane	A	50.0	50.3	0.4268571	0.4295235		0.6	20
Trichlorofluoromethane	A	50.0	48.9	0.7430788	0.7272517		-2.1	20
Freon 113	A	50.0	50.3	0.6802687	0.6842474		0.6	20
1,1-Dichloroethene	A	50.0	57.8	1.093198	1.264556		15.7	20
Carbon disulfide	A	50.0	50.0	2.691478	2.689948		-0.06	20
Methyl Acetate	A	50.0	50.4	0.4856359	0.4893211		0.8	20
Methylene Chloride	Q	50.0	59.5	1.33097	1.390134		18.9	20
trans-1,2-Dichloroethene	A	50.0	58.1	1.087743	1.263138		16.1	20
1,1-Dichloroethane	A	50.0	58.4	1.338279	1.562224	0.1	16.7	20
Vinyl acetate	A	50.0	51.2	1.706272	1.74824		2.5	20
2,2-Dichloropropane	A	50.0	58.9	0.8514589	1.0036		17.9	20
2-Butanone	A	50.0	46.8	0.3524251	0.3295094		-6.5	20
cis-1,2-Dichloroethene	A	50.0	58.6	1.008519	1.182824		17.3	20
Chloroform	A	50.0	57.6	0.9456514	1.090179		15.3	20
Bromochloromethane	A	50.0	52.5	0.2965978	0.3115931		5.1	20
Cyclohexane	A	50.0	53.9	1.726738	1.86103		7.8	20



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	56.6	0.7092388	0.8029462		13.2	20
t-Butyl alcohol	A	500	483	3.594487E-02	3.474057E-02		-3.4	20
1,1-Dichloropropene	A	50.0	54.2	0.1646462	0.1783411		8.3	20
Carbon Tetrachloride	A	50.0	52.6	0.320542	0.3372575		5.2	20
1,2-Dichloroethane	A	50.0	56.1	0.3141196	0.3525029		12.2	20
Benzene	A	50.0	56.9	1.514225	1.724307		13.9	20
Trichloroethene	A	50.0	54.4	0.3363931	0.3657848		8.7	20
Methylcyclohexane	A	50.0	49.2	0.7548699	0.7435584		-1.5	20
1,2-Dichloropropane	A	50.0	57.2	0.4385835	0.5012766		14.3	20
Bromodichloromethane	A	50.0	56.0	0.3881414	0.4343318		11.9	20
Dibromomethane	A	50.0	51.1	0.1505912	0.1539618		2.2	20
cis-1,3-Dichloropropene	A	50.0	55.5	0.5660069	0.6281247		11.0	20
Toluene	A	50.0	55.6	1.343384	1.492831		11.1	20
trans-1,3-Dichloropropene	A	50.0	55.3	0.427684	0.4732844		10.7	20
1,1,2-Trichloroethane	A	50.0	52.5	0.2137489	0.2244704		5.0	20
4-Methyl-2-pentanone	A	50.0	47.6	0.358272	0.3413514		-4.7	20
1,2-Dibromoethane	A	50.0	51.2	0.2072583	0.2124582		2.5	20
2-Hexanone	A	50.0	46.5	0.3744021	0.3479566		-7.1	20
1,3-Dichloropropane	A	50.0	54.0	0.5695329	0.615155		8.0	20
Tetrachloroethene	A	50.0	51.9	0.406178	0.421928		3.9	20
Dibromochloromethane	A	50.0	52.3	0.2720741	0.2845408		4.6	20
Ethylbenzene	A	50.0	56.4	1.874248	2.113297		12.8	20
Chlorobenzene	A	50.0	54.5	0.9558971	1.042	0.3	9.0	20



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	52.5	0.294534	0.3093987		5.0	20
m,p-Xylenes	A	100	111	1.369872	1.525461		11.4	20
o-Xylene	A	100	107	1.410786	1.512624		7.2	20
Styrene	A	100	102	1.080217	1.101175		1.9	20
Bromoform	A	50.0	48.4	0.1586203	0.1536611	0.1	-3.1	20
Isopropylbenzene	A	50.0	56.8	3.970381	4.506824		13.5	20
1,1,2,2-Tetrachloroethane	A	50.0	53.0	0.7707537	0.8176441	0.3	6.1	20
1,2,3-Trichloropropane	A	50.0	53.6	0.5427207	0.5816814		7.2	20
n-Propyl Benzene	A	50.0	57.0	5.308186	6.051863		14.0	20
Bromobenzene	A	50.0	57.0	1.642713	1.871774		13.9	20
1,3,5-Trimethylbenzene	A	50.0	55.4	3.056257	3.383624		10.7	20
2-Chlorotoluene	A	50.0	57.0	2.829365	3.2284		14.1	20
4-Chlorotoluene	A	50.0	56.6	2.919786	3.30677		13.3	20
tert-Butylbenzene	A	50.0	55.1	2.534965	2.792257		10.1	20
1,2,4-Trimethylbenzene	A	50.0	54.2	3.074027	3.329977		8.3	20
sec-Butylbenzene	A	50.0	56.3	4.202416	4.734085		12.7	20
p-Isopropyltoluene	A	50.0	55.2	3.227312	3.564833		10.5	20
1,3-Dichlorobenzene	A	50.0	54.0	1.555547	1.681251		8.1	20
1,4-Dichlorobenzene	A	50.0	53.1	1.523105	1.6177		6.2	20
n-Butyl Benzene	A	50.0	58.3	3.633397	4.238551		16.7	20
1,2-Dichlorobenzene	A	50.0	52.8	1.31077	1.383534		5.6	20
1,2-Dibromo-3-chloropropane	A	50.0	49.6	9.896274E-02	9.814873E-02		-0.8	20
1,2,4-Trichlorobenzene	A	50.0	53.0	0.9181677	0.9727133		5.9	20



CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Instrument ID: GC/MS A	Calibration: 17H2802
Lab File ID: A15017.D	Calibration Date: 08/28/17 17:38
Sequence: S8A1004	Injection Date: 01/10/18
Lab Sample ID: S8A1004-CCV1	Injection Time: 11:08

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / % DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Hexachlorobutadiene	A	50.0	54.2	0.5177414	0.5607792		8.3	20
Naphthalene	A	50.0	50.1	1.467935	1.470267		0.2	20
1,2,3-Trichlorobenzene	A	50.0	54.1	0.7368406	0.7967824		8.1	20
Methyl tert-Butyl Ether	A	100	103	2.143909	2.212263		3.2	20
1,2-Dichloroethane-d4	A	50.0	50.2	0.2725566	0.2738415		0.5	20
Toluene-d8	A	50.0	49.0	1.156379	1.133191		-2.0	20
Bromofluorobenzene	A	50.0	45.7	0.4222058	0.386193		-8.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



METALS



METALS SAMPLE DATA



ANALYSIS DATA SHEET

Inorganics

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled: 01/09/18 11:05	Matrix: Soil
Percent Solids: 90.10	File ID: 011118B-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	1540	12.0	12.0	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0816	0.0816	1	U	01/11/18 07:13	EPA 7471A	01/11/18 14:55 LIT	EPA 7471
7440-36-0	Antimony	ND	2.39	2.39	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.598	0.598	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-39-3	Barium	ND	12.0	12.0	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.299	0.299	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.299	0.299	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-70-2	Calcium	ND	14.9	14.9	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-47-3	Chromium	2.37	1.20	1.20	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-48-4	Cobalt	ND	2.99	2.99	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-50-8	Copper	ND	1.79	1.79	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7439-89-6	Iron	4370	14.9	14.9	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7439-92-1	Lead	2.68	0.598	0.598	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7439-95-4	Magnesium	ND	29.9	29.9	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7439-96-5	Manganese	9.67	1.20	1.20	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-02-0	Nickel	ND	2.39	2.39	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-09-7	Potassium	43.8	29.9	29.9	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7782-49-2	Selenium	ND	2.39	2.39	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-22-4	Silver	ND	0.299	0.299	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-23-5	Sodium	ND	29.9	29.9	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-28-0	Thallium	ND	0.897	1.79	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-62-2	Vanadium	3.85	2.99	2.99	1		01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010
7440-66-6	Zinc	ND	3.59	3.59	1	U	01/11/18 07:06	EPA 3050B	01/11/18 16:13 LIT	EPA 6010

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected at the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



METALS QC SUMMARY



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B8A1104	Preparation:	EPA 3050B
% Solids:	92.00	Laboratory ID:	B8A1104-MS1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	136	4710	5660	*	696	*	75 - 125
Antimony	136	ND	127		93.6		75 - 125
Arsenic	136	3.85	139		99.8		75 - 125
Barium	136	16.6	152		99.7		75 - 125
Beryllium	136	0.367	124		90.7		75 - 125
Cadmium	136	0.460	115		84.3		75 - 125
Calcium	136	37800	41400	*	2620	*	75 - 125
Chromium	136	8.41	133		91.4		75 - 125
Cobalt	136	3.61	113		80.4		75 - 125
Copper	136	10.6	124		83.1		75 - 125
Lead	136	6.44	111		77.0		75 - 125
Magnesium	136	21600	24600	*	2270	*	75 - 125
Manganese	136	267	423		115		75 - 125
Nickel	136	8.04	116		79.1		75 - 125
Potassium	136	723	1280	*	413	*	75 - 125
Selenium	136	ND	122		89.7		75 - 125
Silver	13.6	ND	12.2		90.1		75 - 125
Sodium	136	66.0	218		112		75 - 125
Thallium	136	ND	94.4	*	69.5	*	75 - 125
Vanadium	136	13.1	147		98.6		75 - 125
Zinc	136	27.6	139		81.9		75 - 125



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B8A1104	Preparation:	EPA 3050B
% Solids:	92.00	Laboratory ID:	B8A1104-MSD1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
Aluminum	136	5610	662 *	0.819	20	75 - 125
Antimony	136	127	93.3	0.385	20	75 - 125
Arsenic	136	138	98.9	0.861	20	75 - 125
Barium	136	152	99.3	0.340	20	75 - 125
Beryllium	136	124	91.2	0.548	20	75 - 125
Cadmium	136	115	84.6	0.377	20	75 - 125
Calcium	136	36500	-940 *	12.4	20	75 - 125
Chromium	136	134	92.5	1.12	20	75 - 125
Cobalt	136	114	81.1	0.767	20	75 - 125
Copper	136	124	83.2	0.0220	20	75 - 125
Lead	136	111	77.3	0.367	20	75 - 125
Magnesium	136	20400	-882 *	19.0	20	75 - 125
Manganese	136	384	86.2	9.83	20	75 - 125
Nickel	136	116	79.6	0.563	20	75 - 125
Potassium	136	1150	314 *	11.1	20	75 - 125
Selenium	136	122	89.7	0.00	20	75 - 125
Silver	13.6	12.1	89.2	0.959	20	75 - 125
Sodium	136	207	104	5.25	20	75 - 125
Thallium	136	96.1	70.7 *	1.71	20	75 - 125
Vanadium	136	147	98.4	0.167	20	75 - 125
Zinc	136	137	80.6	1.32	20	75 - 125



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B8A1104	Preparation:	EPA 3050B
% Solids:	92.00	Laboratory ID:	B8A1104-MS2
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Iron	136	14900	14300 *	-450 *	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Iron	136	14600	-245 *	1.93	20	75 - 125

* Values outside of QC limits



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
 Work Order: 1800021
 Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Analysis:	EPA 7471
Batch:	B8A1105	Preparation:	EPA 7471A
% Solids:	92.00	Laboratory ID:	B8A1105-MS1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Mercury	2.17	ND	2.20	101	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Mercury	2.17	2.19	101	0.519	20	75 - 125

* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 3050B
Prep Batch:	B8A1104	Lab Sample ID:	B8A1104-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Aluminum	250	255	102	85 - 115
Antimony	250	256	103	85 - 115
Arsenic	250	259	103	85 - 115
Barium	250	266	107	85 - 115
Beryllium	250	265	106	85 - 115
Cadmium	250	261	105	85 - 115
Calcium	250	259	103	85 - 115
Chromium	250	257	103	85 - 115
Cobalt	250	260	104	85 - 115
Copper	250	257	103	85 - 115
Iron	250	264	106	85 - 115
Lead	250	262	105	85 - 115
Magnesium	250	255	102	85 - 115
Manganese	250	265	106	85 - 115
Nickel	250	259	103	85 - 115
Potassium	250	260	104	85 - 115
Selenium	250	251	101	85 - 115
Silver	25.0	23.4	93.7	85 - 115
Sodium	250	258	103	85 - 115
Thallium	250	264	106	85 - 115
Vanadium	250	259	104	85 - 115
Zinc	250	256	102	85 - 115

* Values outside of QC limits

**LCS / LCS DUPLICATE RECOVERY**

EPA 7471

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 7471A
Prep Batch:	B8A1105	Lab Sample ID:	B8A1105-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	2.00	1.98	99.1	85 - 115

* Values outside of QC limits



POST DIGEST SPIKE SAMPLE RECOVERY

1800019-01

Laboratory: Accredited Analytical Resources LLC	Work Order: 1800021
Client: MADDOX MATERIALS	Project: Rosano Trucking / Fred McDowell
Matrix: Solid	Laboratory ID: B8A1104-PS1
Batch: B8A1104	Analysis: EPA 6010
Preparation: EPA 3050B	Initial/Final: 0.4 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Aluminum	169000	174000	5000	-94.0	80 - 120
Antimony	4590	ND	5000	91.6	80 - 120
Arsenic	5010	142	5000	97.3	80 - 120
Barium	5290	611	5000	93.6	80 - 120
Beryllium	4420	13.5	5000	88.2	80 - 120
Cadmium	4160	16.9	5000	82.8	80 - 120
Calcium	1310000	1390000	5000	-1600	80 - 120
Chromium	4730	310	5000	88.5	80 - 120
Cobalt	4100	133	5000	79.3	80 - 120
Copper	4500	388	5000	82.2	80 - 120
Lead	4070	237	5000	76.6	80 - 120
Magnesium	750000	794000	5000	-862	80 - 120
Manganese	13400	9810	5000	72.6	80 - 120
Nickel	4180	296	5000	77.6	80 - 120
Potassium	30700	26600	5000	82.8	80 - 120
Selenium	4410	ND	5000	88.1	80 - 120
Silver	433	ND	500	86.6	80 - 120
Sodium	7370	2430	5000	98.7	80 - 120
Thallium	3480	ND	5000	69.5	80 - 120
Vanadium	5210	480	5000	94.5	80 - 120
Zinc	5060	1020	5000	80.8	80 - 120


Accredited Analytical Resources, LLC.

20 Pershing Ave
 Carteret, New Jersey 07008
 Phone: 732-969-6112
 Fax: 732-541-1383
WWW.Accreditedanalytical.com

POST DIGEST SPIKE SAMPLE RECOVERY

1800019-01

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Matrix:	Solid	Laboratory ID:	B8A1104-PS2
Batch:	B8A1104	Analysis:	EPA 6010
Preparation:	EPA 3050B	Initial/Final:	0.4 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Iron	499000	548000	5000	-975	80 - 120

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
Carteret, New Jersey 07008
Phone: 732-969-6112
Fax: 732-541-1383
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SAMPLE EXTRACTION DATA

Prep Method: EPA 3050B-EPA 6010

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1800021-01 [S-1]	B8A1104	1.00/50.00	1.86	50.0	1.00	90.10		1/11/2018

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
Carteret, New Jersey 07008
Phone: 732-969-6112
Fax: 732-541-1383
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SAMPLE EXTRACTION DATA

Prep Method: EPA 7471A-EPA 7471

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1800021-01 [S-1]	B8A1105	0.10/25.00	0.102	25.0	1.00	90.10		1/11/2018



METALS CALIBRATION DATA

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
Carteret, New Jersey 07008
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METHOD DETECTION AND REPORTING LIMITS

EPA 7471

Client: MADDOX MATERIALS

Work Order: 1800021

Matrix: Solid

Instrument: Cetac

Analyte	MDL	MRL	Units	Method
Mercury	0.0750	0.0750	mg/kg	EPA 7471



METHOD DETECTION AND REPORTING LIMITS

EPA 6010

Client: MADDOX MATERIALS

Work Order: 1800021

Matrix: Solid

Instrument: Thermo iTEVA

Analyte	MDL	MRL	Units	Method
Aluminum	20.0	20.0	mg/kg	EPA 6010
Antimony	4.00	4.00	mg/kg	EPA 6010
Arsenic	1.00	1.00	mg/kg	EPA 6010
Barium	20.0	20.0	mg/kg	EPA 6010
Beryllium	0.500	0.500	mg/kg	EPA 6010
Cadmium	0.500	0.500	mg/kg	EPA 6010
Calcium	25.0	25.0	mg/kg	EPA 6010
Chromium	2.00	2.00	mg/kg	EPA 6010
Cobalt	5.00	5.00	mg/kg	EPA 6010
Copper	3.00	3.00	mg/kg	EPA 6010
Iron	25.0	25.0	mg/kg	EPA 6010
Lead	1.00	1.00	mg/kg	EPA 6010
Magnesium	50.0	50.0	mg/kg	EPA 6010
Manganese	2.00	2.00	mg/kg	EPA 6010
Nickel	4.00	4.00	mg/kg	EPA 6010
Potassium	50.0	50.0	mg/kg	EPA 6010
Selenium	4.00	4.00	mg/kg	EPA 6010
Silver	0.500	0.500	mg/kg	EPA 6010
Sodium	50.0	50.0	mg/kg	EPA 6010
Thallium	1.50	3.00	mg/kg	EPA 6010
Vanadium	5.00	5.00	mg/kg	EPA 6010
Zinc	6.00	6.00	mg/kg	EPA 6010



ANALYSIS SEQUENCE SUMMARY

EPA 7471

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A1105	Instrument:	Cetac
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	S8A1105-CAL1	Hg011118S-002	01/11/18 14:19
Cal Standard	S8A1105-CAL2	Hg011118S-003	01/11/18 14:21
Cal Standard	S8A1105-CAL3	Hg011118S-004	01/11/18 14:23
Cal Standard	S8A1105-CAL4	Hg011118S-005	01/11/18 14:25
Cal Standard	S8A1105-CAL5	Hg011118S-006	01/11/18 14:27
Cal Standard	S8A1105-CAL6	Hg011118S-007	01/11/18 14:29
Initial Cal Check	S8A1105-ICV1	Hg011118S-008	01/11/18 14:32
Initial Cal Blank	S8A1105-ICB1	Hg011118S-009	01/11/18 14:34
Instrument RL Check	S8A1105-CRL1	Hg011118S-010	01/11/18 14:36
Blank	B8A1105-BLK1	Hg011118S-011	01/11/18 14:38
LCS	B8A1105-BS1	Hg011118S-012	01/11/18 14:40
Matrix Spike	B8A1105-MS1	Hg011118S-014	01/11/18 14:44
Matrix Spike Dup	B8A1105-MSD1	Hg011118S-015	01/11/18 14:46
S-1	1800021-01	Hg011118S-019	01/11/18 14:55
Calibration Check	S8A1105-CCV1	Hg011118S-021	01/11/18 14:59
Calibration Blank	S8A1105-CCB1	Hg011118S-022	01/11/18 15:01
Instrument RL Check	S8A1105-CRL2	Hg011118S-027	01/11/18 15:12
Calibration Check	S8A1105-CCV2	Hg011118S-028	01/11/18 15:14
Calibration Blank	S8A1105-CCB2	Hg011118S-029	01/11/18 15:16



ANALYSIS SEQUENCE SUMMARY

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A1106	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S8A1106-ICV1	011118B-005	01/11/18 14:44
Initial Cal Blank	S8A1106-ICB1	011118B-006	01/11/18 14:49
Instrument RL Check	S8A1106-CRL1	011118B-007	01/11/18 14:54
Interference Check A	S8A1106-IFA1	011118B-008	01/11/18 15:00
Interference Check B	S8A1106-IFB1	011118B-009	01/11/18 15:05
Blank	B8A1104-BLK1	011118B-010	01/11/18 15:10
LCS	B8A1104-BS1	011118B-011	01/11/18 15:15
Serial Dilution	S8A1106-SRD1	011118B-013	01/11/18 15:26
Matrix Spike	B8A1104-MS1	011118B-014	01/11/18 15:31
Matrix Spike Dup	B8A1104-MSD1	011118B-015	01/11/18 15:36
Post Spike	B8A1104-PS1	011118B-016	01/11/18 15:42
Calibration Check	S8A1106-CCV1	011118B-020	01/11/18 16:03
Calibration Blank	S8A1106-CCB1	011118B-021	01/11/18 16:08
S-1	1800021-01	011118B-022	01/11/18 16:13
Serial Dilution	S8A1106-SRD2	011118B-029	01/11/18 16:49
Matrix Spike	B8A1104-MS2	011118B-030	01/11/18 16:54
Matrix Spike Dup	B8A1104-MSD2	011118B-031	01/11/18 16:59
Calibration Check	S8A1106-CCV2	011118B-032	01/11/18 17:04
Calibration Blank	S8A1106-CCB2	011118B-033	01/11/18 17:09
Post Spike	B8A1104-PS2	011118B-034	01/11/18 17:14
Calibration Check	S8A1106-CCV3	011118B-039	01/11/18 17:40
Calibration Blank	S8A1106-CCB3	011118B-040	01/11/18 17:45
Instrument RL Check	S8A1106-CRL2	011118B-041	01/11/18 17:50

**ANALYSIS SEQUENCE SUMMARY**

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell

Sequence:	S8A1106	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Interference Check A	S8A1106-IFA2	011118B-042	01/11/18 17:55
Interference Check B	S8A1106-IFB2	011118B-043	01/11/18 18:01

**INITIAL AND CONTINUING CALIBRATION CHECK**

EPA 7471

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1105
Instrument: Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1105-ICV1	Mercury	5.00	5.05	101	ug/L	+/- 10.00%
S8A1105-CCV1	Mercury	5.00	4.81	96.3	ug/L	+/- 10.00%
S8A1105-CCV2	Mercury	5.00	4.89	97.7	ug/L	+/- 10.00%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021
Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-ICV1	Aluminum	8000	8130	102	ug/L	+/- 10.00%
	Antimony	7500	7500	100	ug/L	+/- 10.00%
	Arsenic	7500	7500	100	ug/L	+/- 10.00%
	Barium	7500	7630	102	ug/L	+/- 10.00%
	Beryllium	7500	7490	99.8	ug/L	+/- 10.00%
	Cadmium	7500	7560	101	ug/L	+/- 10.00%
	Calcium	7500	7570	101	ug/L	+/- 10.00%
	Chromium	7500	7310	97.5	ug/L	+/- 10.00%
	Cobalt	7500	7570	101	ug/L	+/- 10.00%
	Copper	7500	7140	95.3	ug/L	+/- 10.00%
	Iron	7500	7530	100	ug/L	+/- 10.00%
	Lead	7500	7480	99.8	ug/L	+/- 10.00%
	Magnesium	7500	7630	102	ug/L	+/- 10.00%
	Manganese	7500	7610	101	ug/L	+/- 10.00%
	Nickel	7500	7400	98.6	ug/L	+/- 10.00%
	Potassium	7500	7360	98.2	ug/L	+/- 10.00%
	Selenium	7500	7470	99.5	ug/L	+/- 10.00%
	Silver	750	741	98.8	ug/L	+/- 10.00%
	Sodium	7500	7600	101	ug/L	+/- 10.00%
	Thallium	7500	7740	103	ug/L	+/- 10.00%
	Vanadium	7500	7440	99.3	ug/L	+/- 10.00%
	Zinc	7500	7340	97.9	ug/L	+/- 10.00%
S8A1106-CCV1	Aluminum	5000	4880	97.5	ug/L	+/- 10.00%
	Antimony	5000	4780	95.7	ug/L	+/- 10.00%
	Arsenic	5000	4890	97.8	ug/L	+/- 10.00%
	Barium	5000	4980	99.6	ug/L	+/- 10.00%
	Beryllium	5000	4890	97.8	ug/L	+/- 10.00%
	Cadmium	5000	4960	99.2	ug/L	+/- 10.00%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021
Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-CCV1	Calcium	5000	4990	99.8	ug/L	+/- 10.00%
	Chromium	5000	4850	97.1	ug/L	+/- 10.00%
	Cobalt	5000	4900	98.0	ug/L	+/- 10.00%
	Copper	5000	4870	97.4	ug/L	+/- 10.00%
	Iron	5000	5070	101	ug/L	+/- 10.00%
	Lead	5000	4930	98.5	ug/L	+/- 10.00%
	Magnesium	5000	5020	100	ug/L	+/- 10.00%
	Manganese	5000	4890	97.9	ug/L	+/- 10.00%
	Nickel	5000	4920	98.3	ug/L	+/- 10.00%
	Potassium	5000	4980	99.7	ug/L	+/- 10.00%
	Selenium	5000	4890	97.7	ug/L	+/- 10.00%
	Silver	500	476	95.2	ug/L	+/- 10.00%
	Sodium	5000	4920	98.5	ug/L	+/- 10.00%
	Thallium	5000	4920	98.5	ug/L	+/- 10.00%
	Vanadium	5000	4750	95.1	ug/L	+/- 10.00%
	Zinc	5000	5050	101	ug/L	+/- 10.00%
S8A1106-CCV2	Aluminum	5000	4880	97.6	ug/L	+/- 10.00%
	Antimony	5000	4880	97.6	ug/L	+/- 10.00%
	Arsenic	5000	4930	98.6	ug/L	+/- 10.00%
	Barium	5000	5030	101	ug/L	+/- 10.00%
	Beryllium	5000	4890	97.8	ug/L	+/- 10.00%
	Cadmium	5000	4940	98.9	ug/L	+/- 10.00%
	Calcium	5000	4930	98.7	ug/L	+/- 10.00%
	Chromium	5000	4920	98.4	ug/L	+/- 10.00%
	Cobalt	5000	4910	98.2	ug/L	+/- 10.00%
	Copper	5000	4890	97.8	ug/L	+/- 10.00%
	Iron	5000	4980	99.5	ug/L	+/- 10.00%
	Lead	5000	4940	98.9	ug/L	+/- 10.00%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: MADDOX MATERIALS

Project: Rosano Trucking / Fred McDowell

Work Order: 1800021

Sequence: S8A1106

Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-CCV2	Magnesium	5000	4900	98.1	ug/L	+/- 10.00%
	Manganese	5000	4950	98.9	ug/L	+/- 10.00%
	Nickel	5000	4930	98.5	ug/L	+/- 10.00%
	Potassium	5000	4960	99.1	ug/L	+/- 10.00%
	Selenium	5000	4960	99.2	ug/L	+/- 10.00%
	Silver	500	490	97.9	ug/L	+/- 10.00%
	Sodium	5000	4930	98.6	ug/L	+/- 10.00%
	Thallium	5000	4980	99.7	ug/L	+/- 10.00%
	Vanadium	5000	4880	97.5	ug/L	+/- 10.00%
	Zinc	5000	4960	99.3	ug/L	+/- 10.00%
S8A1106-CCV3	Aluminum	5000	4820	96.4	ug/L	+/- 10.00%
	Antimony	5000	4820	96.5	ug/L	+/- 10.00%
	Arsenic	5000	4870	97.3	ug/L	+/- 10.00%
	Barium	5000	5000	100	ug/L	+/- 10.00%
	Beryllium	5000	4850	97.0	ug/L	+/- 10.00%
	Cadmium	5000	4890	97.8	ug/L	+/- 10.00%
	Calcium	5000	4860	97.3	ug/L	+/- 10.00%
	Chromium	5000	4860	97.3	ug/L	+/- 10.00%
	Cobalt	5000	4850	97.1	ug/L	+/- 10.00%
	Copper	5000	4850	97.1	ug/L	+/- 10.00%
	Iron	5000	4910	98.2	ug/L	+/- 10.00%
	Lead	5000	4890	97.8	ug/L	+/- 10.00%
	Magnesium	5000	4900	98.0	ug/L	+/- 10.00%
	Manganese	5000	4870	97.4	ug/L	+/- 10.00%
	Nickel	5000	4880	97.5	ug/L	+/- 10.00%
	Potassium	5000	4930	98.7	ug/L	+/- 10.00%
	Selenium	5000	4900	97.9	ug/L	+/- 10.00%
	Silver	500	485	97.1	ug/L	+/- 10.00%

**INITIAL AND CONTINUING CALIBRATION CHECK**

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1106-CCV3	Sodium	5000	4860	97.2	ug/L	+/- 10.00%
	Thallium	5000	4940	98.8	ug/L	+/- 10.00%
	Vanadium	5000	4790	95.9	ug/L	+/- 10.00%
	Zinc	5000	4910	98.2	ug/L	+/- 10.00%

**BLANKS**

EPA 7471

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1105
Instrument Cetac

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1105-ICB1	Mercury	0.0790	ug/L	0.300	U
B8A1105-BLK1	Mercury	ND	mg/kg wet	0.0750	U
S8A1105-CCB1	Mercury	0.0690	ug/L	0.300	U
S8A1105-CCB2	Mercury	0.0830	ug/L	0.300	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-ICB1	Aluminum	1.63	ug/L	400	U
	Antimony	2.80	ug/L	80.0	U
	Arsenic	0.870	ug/L	20.0	U
	Barium	0.171	ug/L	400	U
	Beryllium	0.113	ug/L	10.0	U
	Cadmium	0.306	ug/L	10.0	U
	Calcium	6.20	ug/L	500	U
	Chromium	0.00520	ug/L	40.0	U
	Cobalt	0.255	ug/L	100	U
	Copper	0.199	ug/L	60.0	U
	Iron	-0.261	ug/L	500	U
	Lead	1.25	ug/L	20.0	U
	Magnesium	-4.17	ug/L	1000	U
	Manganese	0.183	ug/L	40.0	U
	Nickel	0.244	ug/L	80.0	U
	Potassium	-4.80	ug/L	1000	U
	Selenium	2.05	ug/L	80.0	U
	Silver	0.258	ug/L	10.0	U
	Sodium	-2.44	ug/L	1000	U
	Thallium	2.83	ug/L	60.0	U
	Vanadium	0.0912	ug/L	100	U
	Zinc	-0.104	ug/L	120	U
B8A1104-BLK1	Aluminum	ND	mg/kg wet	10.0	U
	Antimony	ND	mg/kg wet	2.00	U
	Arsenic	ND	mg/kg wet	0.500	U
	Barium	ND	mg/kg wet	10.0	U
	Beryllium	ND	mg/kg wet	0.250	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
B8A1104-BLK1	Cadmium	ND	mg/kg wet	0.250	U
	Calcium	ND	mg/kg wet	12.5	U
	Chromium	ND	mg/kg wet	1.00	U
	Cobalt	ND	mg/kg wet	2.50	U
	Copper	ND	mg/kg wet	1.50	U
	Iron	ND	mg/kg wet	12.5	U
	Lead	ND	mg/kg wet	0.500	U
	Magnesium	ND	mg/kg wet	25.0	U
	Manganese	ND	mg/kg wet	1.00	U
	Nickel	ND	mg/kg wet	2.00	U
	Potassium	ND	mg/kg wet	25.0	U
	Selenium	ND	mg/kg wet	2.00	U
	Silver	ND	mg/kg wet	0.250	U
	Sodium	ND	mg/kg wet	25.0	U
	Thallium	ND	mg/kg wet	1.50	U
	Vanadium	ND	mg/kg wet	2.50	U
	Zinc	ND	mg/kg wet	3.00	U
S8A1106-CCB1	Aluminum	-1.54	ug/L	400	U
	Antimony	2.00	ug/L	80.0	U
	Arsenic	0.821	ug/L	20.0	U
	Barium	-0.277	ug/L	400	U
	Beryllium	-0.156	ug/L	10.0	U
	Cadmium	-0.198	ug/L	10.0	U
	Calcium	1.60	ug/L	500	U
	Chromium	-0.328	ug/L	40.0	U
	Cobalt	-0.218	ug/L	100	U
	Copper	-0.171	ug/L	60.0	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-CCB1	Iron	4.17	ug/L	500	U
	Lead	0.758	ug/L	20.0	U
	Magnesium	-9.57	ug/L	1000	U
	Manganese	-0.318	ug/L	40.0	U
	Nickel	-0.428	ug/L	80.0	U
	Potassium	31.4	ug/L	1000	U
	Selenium	0.964	ug/L	80.0	U
	Silver	0.268	ug/L	10.0	U
	Sodium	47.4	ug/L	1000	U
	Thallium	-0.496	ug/L	60.0	U
	Vanadium	-0.0893	ug/L	100	U
	Zinc	-0.547	ug/L	120	U
S8A1106-CCB2	Aluminum	-0.756	ug/L	400	U
	Antimony	0.183	ug/L	80.0	U
	Arsenic	1.09	ug/L	20.0	U
	Barium	-0.211	ug/L	400	U
	Beryllium	-0.201	ug/L	10.0	U
	Cadmium	-0.174	ug/L	10.0	U
	Calcium	2.77	ug/L	500	U
	Chromium	-0.256	ug/L	40.0	U
	Cobalt	-0.130	ug/L	100	U
	Copper	-0.402	ug/L	60.0	U
	Iron	2.17	ug/L	500	U
	Lead	1.57	ug/L	20.0	U
	Magnesium	-11.9	ug/L	1000	U
	Manganese	-0.0388	ug/L	40.0	U
	Nickel	-0.440	ug/L	80.0	U



BLANKS

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-CCB2	Potassium	15.0	ug/L	1000	U
	Selenium	1.95	ug/L	80.0	U
	Silver	0.779	ug/L	10.0	U
	Sodium	27.5	ug/L	1000	U
	Thallium	0.639	ug/L	60.0	U
	Vanadium	-0.249	ug/L	100	U
	Zinc	-0.478	ug/L	120	U
S8A1106-CCB3	Aluminum	-3.66	ug/L	400	U
	Antimony	0.00480	ug/L	80.0	U
	Arsenic	-0.226	ug/L	20.0	U
	Barium	-0.244	ug/L	400	U
	Beryllium	-0.154	ug/L	10.0	U
	Cadmium	-0.132	ug/L	10.0	U
	Calcium	3.47	ug/L	500	U
	Chromium	-0.193	ug/L	40.0	U
	Cobalt	-0.165	ug/L	100	U
	Copper	0.0328	ug/L	60.0	U
	Iron	1.29	ug/L	500	U
	Lead	1.01	ug/L	20.0	U
	Magnesium	-12.7	ug/L	1000	U
	Manganese	-0.261	ug/L	40.0	U
	Nickel	-0.470	ug/L	80.0	U
	Potassium	9.20	ug/L	1000	U
	Selenium	2.36	ug/L	80.0	U
	Silver	0.387	ug/L	10.0	U
	Sodium	21.1	ug/L	1000	U
	Thallium	-0.246	ug/L	60.0	U

**BLANKS**

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S8A1106-CCB3	Vanadium	-0.820	ug/L	100	U
	Zinc	-0.396	ug/L	120	U

**Accredited Analytical Resources, LLC.**

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CRDL STANDARD

EPA 7471

Client:	MADDOX MATERIALS	Calibration:	UNASSIGNED
Project:	Rosano Trucking / Fred McDowell	Sequence:	S8A1105
Work Order:	1800021	Instrument	Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S8A1105-CRL1	Mercury	0.300	0.316	105	ug/L	70 - 130
S8A1105-CRL2	Mercury	0.300	0.319	106	ug/L	70 - 130



CRDL STANDARD

EPA 6010

Client:	MADDOX MATERIALS	Calibration:	UNASSIGNED
Project:	Rosano Trucking / Fred McDowell	Sequence:	S8A1106
Work Order:	1800021	Instrument	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
S8A1106-CRL1	Aluminum	400	405	101	ug/L	70 - 130
	Antimony	80.0	83.0	104	ug/L	70 - 130
	Arsenic	20.0	20.3	101	ug/L	70 - 130
	Barium	400	412	103	ug/L	70 - 130
	Beryllium	10.0	10.2	102	ug/L	70 - 130
	Cadmium	10.0	10.4	104	ug/L	70 - 130
	Calcium	1000	1040	104	ug/L	70 - 130
	Chromium	40.0	40.8	102	ug/L	70 - 130
	Cobalt	100	104	104	ug/L	70 - 130
	Copper	60.0	62.6	104	ug/L	70 - 130
	Iron	500	511	102	ug/L	70 - 130
	Lead	20.0	21.0	105	ug/L	70 - 130
	Magnesium	1000	993	99.3	ug/L	70 - 130
	Manganese	40.0	43.6	109	ug/L	70 - 130
	Nickel	80.0	86.0	107	ug/L	70 - 130
	Potassium	1000	992	99.2	ug/L	70 - 130
	Selenium	80.0	87.1	109	ug/L	70 - 130
	Silver	10.0	11.0	110	ug/L	70 - 130
	Sodium	1000	1010	101	ug/L	70 - 130
	Thallium	30.0	33.8	113	ug/L	70 - 130
	Vanadium	100	100	100	ug/L	70 - 130
	Zinc	120	127	106	ug/L	70 - 130
S8A1106-CRL2	Aluminum	400	387	96.7	ug/L	70 - 130
	Antimony	80.0	82.3	103	ug/L	70 - 130
	Arsenic	20.0	20.1	101	ug/L	70 - 130
	Barium	400	412	103	ug/L	70 - 130



CRDL STANDARD

EPA 6010

Client:	MADDOX MATERIALS	Calibration:	UNASSIGNED
Project:	Rosano Trucking / Fred McDowell	Sequence:	S8A1106
Work Order:	1800021	Instrument	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
S8A1106-CRL2	Beryllium	10.0	9.82	98.2	ug/L	70 - 130
	Cadmium	10.0	10.2	102	ug/L	70 - 130
	Calcium	1000	999	99.9	ug/L	70 - 130
	Chromium	40.0	42.8	107	ug/L	70 - 130
	Cobalt	100	102	102	ug/L	70 - 130
	Copper	60.0	62.2	104	ug/L	70 - 130
	Iron	500	513	103	ug/L	70 - 130
	Lead	20.0	21.2	106	ug/L	70 - 130
	Magnesium	1000	982	98.2	ug/L	70 - 130
	Manganese	40.0	42.8	107	ug/L	70 - 130
	Nickel	80.0	85.0	106	ug/L	70 - 130
	Potassium	1000	991	99.1	ug/L	70 - 130
	Selenium	80.0	84.0	105	ug/L	70 - 130
	Silver	10.0	10.9	109	ug/L	70 - 130
	Sodium	1000	1000	100	ug/L	70 - 130
	Thallium	30.0	33.1	110	ug/L	70 - 130
	Vanadium	100	97.9	97.9	ug/L	70 - 130
	Zinc	120	124	103	ug/L	70 - 130



SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Matrix:	Solid	Laboratory ID:	S8A1106-SRD1
Sequence:	S8A1106	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Magnesium	21600	21800	0.878		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	3.85	3.67	4.70		10.00
Barium	16.6	ND	N/A		10.00
Beryllium	0.367	ND	N/A		10.00
Cadmium	0.460	ND	N/A		10.00
Calcium	37800	42500	11.6	*	10.00
Chromium	8.41	8.41	0.0162		10.00
Cobalt	3.61	ND	N/A		10.00
Aluminum	4710	4540	3.67		10.00
Lead	6.44	7.38	13.6	*	10.00
Manganese	267	281	5.10		10.00
Nickel	8.04	ND	N/A		10.00
Potassium	723	693	4.17		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	66.0	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	13.1	ND	N/A		10.00
Zinc	27.6	30.8	10.7	*	10.00
Copper	10.6	11.1	5.25		10.00

* Values outside of QC limits

**SERIAL DILUTION****EPA 6010**

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1800021
Client:	MADDOX MATERIALS	Project:	Rosano Trucking / Fred McDowell
Matrix:	Solid	Laboratory ID:	S8A1106-SRD2
Sequence:	S8A1106	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Iron	14900	14800	0.274		10.00

* Values outside of QC limits



INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFA1	Aluminum	20.00	250000	261,900.00	105	ug/L
	Antimony	4.00		0.79		ug/L
	Arsenic	1.00		-1.69		ug/L
	Barium	20.00		0.32		ug/L
	Beryllium	0.50		0.12		ug/L
	Cadmium	0.50		0.07		ug/L
	Calcium	25.00	250000	242,800.00	97.1	ug/L
	Chromium	2.00		0.42		ug/L
	Cobalt	5.00		1.48		ug/L
	Copper	3.00		-0.83		ug/L
	Iron	25.00	100000	99,270.00	99.3	ug/L
	Lead	1.00		3.49		ug/L
	Magnesium	50.00	250000	256,500.00	103	ug/L
	Manganese	2.00		0.58		ug/L
	Nickel	4.00		-1.33		ug/L
	Potassium	50.00		48.03		ug/L
	Selenium	4.00		2.70		ug/L
	Silver	0.50		-0.32		ug/L
	Sodium	50.00		48.87		ug/L
	Thallium	3.00		0.16		ug/L
	Vanadium	5.00		2.17		ug/L
	Zinc	6.00		0.84		ug/L
S8A1106-IFB1	Aluminum	20.00	250000	255,900.00	102	ug/L
	Antimony	4.00	250	256.60	103	ug/L
	Arsenic	1.00	250	265.40	106	ug/L
	Barium	20.00	250	268.50	107	ug/L
	Beryllium	0.50	250	264.00	106	ug/L
	Cadmium	0.50	250	255.20	102	ug/L



INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFB1	Calcium	25.00	250000	233,300.00	93.3	ug/L
	Chromium	2.00	250	261.70	105	ug/L
	Cobalt	5.00	250	247.60	99.0	ug/L
	Copper	3.00	250	245.90	98.4	ug/L
	Iron	25.00	100000	97,260.00	97.3	ug/L
	Lead	1.00	250	244.90	98.0	ug/L
	Magnesium	50.00	250000	252,500.00	101	ug/L
	Manganese	2.00	250	266.20	106	ug/L
	Nickel	4.00	250	242.30	96.9	ug/L
	Potassium	50.00	1000	1,065.00	106	ug/L
	Selenium	4.00	250	243.00	97.2	ug/L
	Silver	0.50	250	259.80	104	ug/L
	Sodium	50.00	1000	1,021.00	102	ug/L
	Thallium	3.00	250	232.00	92.8	ug/L
	Vanadium	5.00	250	268.10	107	ug/L
	Zinc	6.00	250	254.00	102	ug/L
S8A1106-IFA2	Aluminum	20.00	250000	256,700.00	103	ug/L
	Antimony	4.00		1.49		ug/L
	Arsenic	1.00		-0.42		ug/L
	Barium	20.00		0.30		ug/L
	Beryllium	0.50		0.14		ug/L
	Cadmium	0.50		-0.33		ug/L
	Calcium	25.00	250000	232,800.00	93.1	ug/L
	Chromium	2.00		-0.18		ug/L
	Cobalt	5.00		1.57		ug/L
	Copper	3.00		-1.09		ug/L
	Iron	25.00	100000	97,410.00	97.4	ug/L
	Lead	1.00		3.32		ug/L



INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument: Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFA2	Magnesium	50.00	250000	250,300.00	100	ug/L
	Manganese	2.00		0.55		ug/L
	Nickel	4.00		-1.22		ug/L
	Potassium	50.00		-16.12		ug/L
	Selenium	4.00		6.04		ug/L
	Silver	0.50		-0.68		ug/L
	Sodium	50.00		74.58		ug/L
	Thallium	3.00		0.60		ug/L
	Vanadium	5.00		2.12		ug/L
	Zinc	6.00		1.42		ug/L
S8A1106-IFB2	Aluminum	20.00	250000	256,500.00	103	ug/L
	Antimony	4.00	250	254.90	102	ug/L
	Arsenic	1.00	250	267.60	107	ug/L
	Barium	20.00	250	274.30	110	ug/L
	Beryllium	0.50	250	263.10	105	ug/L
	Cadmium	0.50	250	254.50	102	ug/L
	Calcium	25.00	250000	233,600.00	93.4	ug/L
	Chromium	2.00	250	264.10	106	ug/L
	Cobalt	5.00	250	247.40	99.0	ug/L
	Copper	3.00	250	247.70	99.1	ug/L
	Iron	25.00	100000	97,850.00	97.8	ug/L
	Lead	1.00	250	245.50	98.2	ug/L
	Magnesium	50.00	250000	252,700.00	101	ug/L
	Manganese	2.00	250	266.00	106	ug/L
	Nickel	4.00	250	242.60	97.0	ug/L
	Potassium	50.00	1000	1,025.00	102	ug/L
	Selenium	4.00	250	244.50	97.8	ug/L
	Silver	0.50	250	263.90	106	ug/L

**Accredited Analytical Resources, LLC.**

20 Pershing Ave
Carteret, New Jersey 07008
Phone: 732-969-6112
Fax: 732-541-1383
WWW.Accreditedanalytical.com

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Calibration: UNASSIGNED
Sequence: S8A1106
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S8A1106-IFB2	Sodium	50.00	1000	1,052.00	105	ug/L
	Thallium	3.00	250	230.40	92.2	ug/L
	Vanadium	5.00	250	267.30	107	ug/L
	Zinc	6.00	250	254.60	102	ug/L



WET CHEMISTRY



WET CHEMISTRY SAMPLE DATA



ANALYSIS DATA SHEET

Inorganics

Client: MADDOX MATERIALS
Client Sample ID: S-1
Lab Sample ID: 1800021-01
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Date Sampled: 01/09/18 11:05	Matrix: Soil
Percent Solids: 90.10	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.11	1.11	1	U	01/11/18 11:00	EPA 9010C	01/12/18 13:50 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	90.1	0.100	0.100	1		01/12/18 08:43	Percent Solids	01/12/18 13:56 KMC	SM 2540 G

* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected at the MDL

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



WET CHEMISTRY QC DATA

**INITIAL AND CONTINUING CALIBRATION CHECK**

EPA 9014

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1209
Instrument: DR4000

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8A1209-CCV1	Cyanide (total)	0.200	0.205	103	mg/L	+/- 10.00%
S8A1209-CCV2	Cyanide (total)	0.200	0.200	99.9	mg/L	+/- 10.00%
S8A1209-ICV1	Cyanide (total)	0.100	0.106	106	mg/L	+/- 10.00%

**Accredited Analytical Resources, LLC.**

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Carteret, New Jersey 07008
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Fax: 732-541-1383
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CRDL STANDARD**EPA 9014**

Client:	MADDOX MATERIALS	Calibration:	18A1203
Project:	Rosano Trucking / Fred McDowell	Sequence:	S8A1209
Work Order:	1800021	Instrument	DR4000

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S8A1209-CRL1	Cyanide (total)	0.0100	0.00947	94.7	mg/L	0 - 200

**BLANKS**

EPA 9014

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Sequence: S8A1209
Instrument DR4000

Lab Sample ID	Analyte	Found	Units	RL	Q
B8A1111-BLK1	Cyanide (total)	ND	mg/kg wet	1.00	U
S8A1209-CCB1	Cyanide (total)	-0.00107	mg/L	0.00500	U
S8A1209-CCB2	Cyanide (total)	-0.000859	mg/L	0.00500	U
S8A1209-ICB1	Cyanide (total)	-0.00107	mg/L	0.00500	U



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: MADDOX MATERIALS
Work Order: 1800021
Project: Rosano Trucking / Fred McDowell

Matrix:	Solid	Analysis:	EPA 9014
Batch:	B8A1111	Preparation:	EPA 9010C
% Solids:	92.00	Laboratory ID:	B8A1111-MS1
		Client Sample ID:	1800019-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Cyanide (total)	43.5	ND	45.7	105	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Cyanide (total)	43.5	43.9	101	4.09	20	75 - 125

* Values outside of QC limits

**DUPLICATES**

Duplicate

Client: MADDOX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Laboratory ID:	B8A1208-DUP1
Prep Batch:	B8A1208	Initial/Final:	10 g / 10 g
Prep Method:	Percent Solids	Analysis:	SM 2540 G
% Solids:	89.10		

ANALYTE	SAMPLE CONCENTRATION (%)	DUPLICATE CONCENTRATION (%)	RPD %	Q	CONTROL LIMIT
Percent Solids	89.1	90.0	1.01		20

**LCS / LCS DUPLICATE RECOVERY**

EPA 9014

Client: MADDUX MATERIALS
Project: Rosano Trucking / Fred McDowell
Work Order: 1800021

Matrix:	Solid	Prep Method:	EPA 9010C
Prep Batch:	B8A1111	Lab Sample ID:	B8A1111-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Cyanide (total)	40.0	41.2	103	85 - 115

* Values outside of QC limits

Appendix D
Laboratory Analytical Reports

September 7, 2018

Ms.Cris Grill
Parsons - Boston MA
100 High St.
4th Floor
Boston, MA 02110

Certificate of Analysis

Project Name:	Ft. Monmouth Soils	Workorder:	2336460
Purchase Order:		Workorder ID:	PQF158 Ft. Monmouth Soils PAR

Dear Ms.Cris Grill:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 5, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Kent Friesen , Mr. Julien Chambert , Ms. Lorraine Weber

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Mrs. Vanessa N Badman
Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2336460001	PAR-49-293-A8-2-2.5	Solid	9/4/2018 10:00	9/5/2018 20:31	Collected by Client
2336460002	PAR-49-293-A3-1-1.5	Solid	9/4/2018 11:10	9/5/2018 20:31	Collected by Client
2336460003	PAR-49-293-A4-4-4.5	Solid	9/4/2018 12:30	9/5/2018 20:31	Collected by Client
2336460004	PAR-49-293-A5-4-4.5	Solid	9/4/2018 13:00	9/5/2018 20:31	Collected by Client
2336460005	PAR-49-293-A105-4-4.5	Solid	9/4/2018 13:00	9/5/2018 20:31	Collected by Client
2336460006	PAR-49-293-A1A-3-3.5	Solid	9/4/2018 14:00	9/5/2018 20:31	Collected by Client
2336460007	PAR-49-293-A1B-3-3.5	Solid	9/4/2018 14:20	9/5/2018 20:31	Collected by Client
2336460008	PAR-49-293-A2-4-4.5	Solid	9/4/2018 14:30	9/5/2018 20:31	Collected by Client
2336460009	PAR-49-293-A6-1.5-2	Solid	9/4/2018 14:45	9/5/2018 20:31	Collected by Client
2336460010	PAR-49-293-A7-3-3.5	Solid	9/4/2018 15:00	9/5/2018 20:31	Collected by Client

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SAMPLE SUMMARY

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460001**
Sample ID: **PAR-49-293-A8-2-2.5**

Date Collected: 9/4/2018 10:00 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.071U	U	mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Acenaphthylene	0.030J	J	mg/kg	0.11	0.071	0.0074	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Anthracene	0.019J	J	mg/kg	0.11	0.071	0.0085	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Benzo(a)anthracene	0.061J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Benzo(a)pyrene	0.063J	J	mg/kg	0.11	0.071	0.0043	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Benzo(b)fluoranthene	0.053J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Benzo(g,h,i)perylene	0.041J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Benzo(k)fluoranthene	0.016J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Chrysene	0.064J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Dibenzo(a,h)anthracene	0.071U	U	mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Fluoranthene	0.058J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Fluorene	0.019J	J	mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Indeno(1,2,3-cd)pyrene	0.035J	J	mg/kg	0.11	0.071	0.0074	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Naphthalene	0.071U	U	mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Phenanthrene	0.055J	J	mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Pyrene	0.12		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	97.6		%	39 - 132			SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
2-Fluorobiphenyl (S)	91		%	44 - 115			SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
2-Fluorophenol (S)	88.2		%	35 - 115			SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Nitrobenzene-d5 (S)	102		%	37 - 122			SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Phenol-d5 (S)	90.8		%	33 - 122			SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
Terphenyl-d14 (S)	104		%	54 - 127			SW846 8270D	9/6/18 S7M	9/6/18 15:41	CGS	A
WET CHEMISTRY											
Moisture	6.6		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	93.4		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460002**

Date Collected: 9/4/2018 11:10

Matrix: Solid

Sample ID: **PAR-49-293-A3-1-1.5**

Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.077U	U	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Acenaphthylene	0.038J	J	mg/kg	0.12	0.077	0.0081	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Anthracene	0.026J	J	mg/kg	0.12	0.077	0.0092	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Benzo(a)anthracene	0.085J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Benzo(a)pyrene	0.10J	J	mg/kg	0.12	0.077	0.0046	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Benzo(b)fluoranthene	0.14		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Benzo(g,h,i)perylene	0.085J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Benzo(k)fluoranthene	0.051J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Chrysene	0.099J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Dibenzo(a,h)anthracene	0.024J	J	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Fluoranthene	0.13		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Fluorene	0.015J	J	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Indeno(1,2,3-cd)pyrene	0.082J	J	mg/kg	0.12	0.077	0.0081	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Naphthalene	0.014J	J	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Phenanthrene	0.058J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Pyrene	0.15		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 16:06	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	100		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 16:06	CGS A
2-Fluorobiphenyl (S)	89.2		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 16:06	CGS A
2-Fluorophenol (S)	92.3		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 16:06	CGS A
Nitrobenzene-d5 (S)	106		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 16:06	CGS A
Phenol-d5 (S)	93.5		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 16:06	CGS A
Terphenyl-d14 (S)	95.8		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 16:06	CGS A
WET CHEMISTRY											
Moisture	13.4		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	86.6		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460003**
Sample ID: **PAR-49-293-A4-4.5**

Date Collected: 9/4/2018 12:30 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	4.2		mg/kg	0.11	0.073	0.0065	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Acenaphthylene	1.2		mg/kg	0.11	0.073	0.0076	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Anthracene	5.5		mg/kg	0.11	0.073	0.0087	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Benzo(a)anthracene	6.2		mg/kg	0.11	0.073	0.0054	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Benzo(a)pyrene	6.2		mg/kg	0.11	0.073	0.0044	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Benzo(b)fluoranthene	7.1		mg/kg	0.11	0.073	0.0054	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Benzo(g,h,i)perylene	3.0		mg/kg	0.11	0.073	0.0054	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Benzo(k)fluoranthene	2.9		mg/kg	0.11	0.073	0.0054	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Chrysene	6.0		mg/kg	0.11	0.073	0.0054	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Dibenzo(a,h)anthracene	0.99		mg/kg	0.11	0.073	0.0065	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Fluoranthene	17.8		mg/kg	0.44	0.29	0.022	SW846 8270D	9/6/18 S7M	9/6/18 18:15	CGS	A
Fluorene	16.8		mg/kg	0.44	0.29	0.026	SW846 8270D	9/6/18 S7M	9/6/18 18:15	CGS	A
Indeno(1,2,3-cd)pyrene	3.7		mg/kg	0.11	0.073	0.0076	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Naphthalene	0.23		mg/kg	0.11	0.073	0.0065	SW846 8270D	9/6/18 S7M	9/6/18 17:49	CGS	A
Phenanthrene	33.7		mg/kg	0.44	0.29	0.022	SW846 8270D	9/6/18 S7M	9/6/18 18:15	CGS	A
Pyrene	14.0		mg/kg	0.44	0.29	0.022	SW846 8270D	9/6/18 S7M	9/6/18 18:15	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	92.3		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 18:15	CGS A
2,4,6-Tribromophenol (S)	87		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 17:49	CGS A
2-Fluorobiphenyl (S)	82.4		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 17:49	CGS A
2-Fluorobiphenyl (S)	87.4		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 18:15	CGS A
2-Fluorophenol (S)	91.1		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 17:49	CGS A
2-Fluorophenol (S)	88.6		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 18:15	CGS A
Nitrobenzene-d5 (S)	104		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 17:49	CGS A
Nitrobenzene-d5 (S)	100		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 18:15	CGS A
Phenol-d5 (S)	93.2		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 17:49	CGS A
Phenol-d5 (S)	89.9		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 18:15	CGS A
Terphenyl-d14 (S)	88.7		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 17:49	CGS A
Terphenyl-d14 (S)	94		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 18:15	CGS A
WET CHEMISTRY											
Moisture	10.6		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	89.4		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	

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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460003**

Date Collected: 9/4/2018 12:30

Matrix: Solid

Sample ID: **PAR-49-293-A4-4-4.5**

Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
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Mrs. Vanessa N Badman

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460004**
Sample ID: **PAR-49-293-A5-4-4.5**

Date Collected: 9/4/2018 13:00 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.14		mg/kg	0.13	0.089	0.0080	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Acenaphthylene	0.016J	J	mg/kg	0.13	0.089	0.0093	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Anthracene	0.089U	U	mg/kg	0.13	0.089	0.011	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Benzo(a)anthracene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Benzo(a)pyrene	0.089U	U	mg/kg	0.13	0.089	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Benzo(b)fluoranthene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Benzo(g,h,i)perylene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Benzo(k)fluoranthene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Chrysene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Dibenzo(a,h)anthracene	0.089U	U	mg/kg	0.13	0.089	0.0080	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Fluoranthene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Fluorene	0.083J	J	mg/kg	0.13	0.089	0.0080	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Indeno(1,2,3-cd)pyrene	0.089U	U	mg/kg	0.13	0.089	0.0093	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Naphthalene	0.089U	U	mg/kg	0.13	0.089	0.0080	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Phenanthrene	0.027J	J	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Pyrene	0.089U	U	mg/kg	0.13	0.089	0.0067	SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	91.2		%	39 - 132			SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
2-Fluorobiphenyl (S)	79.6		%	44 - 115			SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
2-Fluorophenol (S)	79.4		%	35 - 115			SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Nitrobenzene-d5 (S)	93.1		%	37 - 122			SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Phenol-d5 (S)	83.3		%	33 - 122			SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
Terphenyl-d14 (S)	89.8		%	54 - 127			SW846 8270D	9/6/18 S7M	9/6/18 18:40	CGS	A
WET CHEMISTRY											
Moisture	28.3		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	71.7		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460005**
Sample ID: **PAR-49-293-A105-4-4.5**

Date Collected: 9/4/2018 13:00 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.024J	J	mg/kg	0.12	0.081	0.0073	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Acenaphthylene	0.081U	U	mg/kg	0.12	0.081	0.0085	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Anthracene	0.081U	U	mg/kg	0.12	0.081	0.0097	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Benzo(a)anthracene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Benzo(a)pyrene	0.081U	U	mg/kg	0.12	0.081	0.0048	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Benzo(b)fluoranthene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Benzo(g,h,i)perylene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Benzo(k)fluoranthene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Chrysene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Dibenzo(a,h)anthracene	0.081U	U	mg/kg	0.12	0.081	0.0073	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Fluoranthene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Fluorene	0.014J	J	mg/kg	0.12	0.081	0.0073	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Indeno(1,2,3-cd)pyrene	0.081U	U	mg/kg	0.12	0.081	0.0085	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Naphthalene	0.081U	U	mg/kg	0.12	0.081	0.0073	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Phenanthrene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Pyrene	0.081U	U	mg/kg	0.12	0.081	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	97		%	39 - 132			SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
2-Fluorobiphenyl (S)	88.2		%	44 - 115			SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
2-Fluorophenol (S)	89.8		%	35 - 115			SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Nitrobenzene-d5 (S)	102		%	37 - 122			SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Phenol-d5 (S)	91.1		%	33 - 122			SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
Terphenyl-d14 (S)	97		%	54 - 127			SW846 8270D	9/6/18 S7M	9/6/18 19:06	CGS	A
WET CHEMISTRY											
Moisture	22.0		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	78.0		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460006**
Sample ID: **PAR-49-293-A1A-3-3.5**

Date Collected: 9/4/2018 14:00 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.079U	U	mg/kg	0.12	0.079	0.0071	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Acenaphthylene	0.079U	U	mg/kg	0.12	0.079	0.0083	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Anthracene	0.079U	U	mg/kg	0.12	0.079	0.0095	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Benzo(a)anthracene	0.079U	U	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Benzo(a)pyrene	0.014J	J	mg/kg	0.12	0.079	0.0047	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Benzo(b)fluoranthene	0.014J	J	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Benzo(g,h,i)perylene	0.079U	U	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Benzo(k)fluoranthene	0.079U	U	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Chrysene	0.079U	U	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Dibenzo(a,h)anthracene	0.079U	U	mg/kg	0.12	0.079	0.0071	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Fluoranthene	0.021J	J	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Fluorene	0.079U	U	mg/kg	0.12	0.079	0.0071	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Indeno(1,2,3-cd)pyrene	0.079U	U	mg/kg	0.12	0.079	0.0083	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Naphthalene	0.079U	U	mg/kg	0.12	0.079	0.0071	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Phenanthrene	0.079U	U	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Pyrene	0.021J	J	mg/kg	0.12	0.079	0.0059	SW846 8270D	9/6/18 S7M	9/6/18 19:31	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	86.9		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 19:31	CGS A
2-Fluorobiphenyl (S)	79.4		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 19:31	CGS A
2-Fluorophenol (S)	78.3		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 19:31	CGS A
Nitrobenzene-d5 (S)	89.4		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 19:31	CGS A
Phenol-d5 (S)	79.1		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 19:31	CGS A
Terphenyl-d14 (S)	90.1		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 19:31	CGS A
WET CHEMISTRY											
Moisture	15.5		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	84.5		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460007**
Sample ID: **PAR-49-293-A1B-3-3.5**

Date Collected: 9/4/2018 14:20 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.015J	J	mg/kg	0.11	0.074	0.0066	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Acenaphthylene	0.20		mg/kg	0.11	0.074	0.0077	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Anthracene	0.077J	J	mg/kg	0.11	0.074	0.0088	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Benzo(a)anthracene	0.35		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Benzo(a)pyrene	0.38		mg/kg	0.11	0.074	0.0044	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Benzo(b)fluoranthene	0.35		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Benzo(g,h,i)perylene	0.27		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Benzo(k)fluoranthene	0.12		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Chrysene	0.49		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Dibenzo(a,h)anthracene	0.074J	J	mg/kg	0.11	0.074	0.0066	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Fluoranthene	0.34		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Fluorene	0.048J	J	mg/kg	0.11	0.074	0.0066	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Indeno(1,2,3-cd)pyrene	0.22		mg/kg	0.11	0.074	0.0077	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Naphthalene	0.043J	J	mg/kg	0.11	0.074	0.0066	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Phenanthrene	0.21		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Pyrene	0.69		mg/kg	0.11	0.074	0.0055	SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	95.6		%	39 - 132			SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
2-Fluorobiphenyl (S)	89		%	44 - 115			SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
2-Fluorophenol (S)	85		%	35 - 115			SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Nitrobenzene-d5 (S)	98		%	37 - 122			SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Phenol-d5 (S)	88.4		%	33 - 122			SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
Terphenyl-d14 (S)	99.1		%	54 - 127			SW846 8270D	9/6/18 S7M	9/6/18 19:57	CGS	A
WET CHEMISTRY											
Moisture	13.2		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	86.8		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460008**

Date Collected: 9/4/2018 14:30

Matrix: Solid

Sample ID: **PAR-49-293-A2-4-4.5**

Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Acenaphthylene	0.080U	U	mg/kg	0.12	0.080	0.0084	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Anthracene	0.080U	U	mg/kg	0.12	0.080	0.0096	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Benzo(a)anthracene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Benzo(a)pyrene	0.080U	U	mg/kg	0.12	0.080	0.0048	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Benzo(b)fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Benzo(g,h,i)perylene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Benzo(k)fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Chrysene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Dibenzo(a,h)anthracene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Fluorene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Indeno(1,2,3-cd)pyrene	0.080U	U	mg/kg	0.12	0.080	0.0084	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Naphthalene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Phenanthrene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Pyrene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/6/18 S7M	9/6/18 20:22	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	97.2		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 20:22	CGS A
2-Fluorobiphenyl (S)	88.8		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 20:22	CGS A
2-Fluorophenol (S)	89.9		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 20:22	CGS A
Nitrobenzene-d5 (S)	101		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 20:22	CGS A
Phenol-d5 (S)	91.4		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 20:22	CGS A
Terphenyl-d14 (S)	102		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 20:22	CGS A
WET CHEMISTRY											
Moisture	16.4		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	83.6		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460009**

Date Collected: 9/4/2018 14:45

Matrix: Solid

Sample ID: **PAR-49-293-A6-1.5-2**

Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.077U	U	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Acenaphthylene	0.057J	J	mg/kg	0.12	0.077	0.0081	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Anthracene	0.034J	J	mg/kg	0.12	0.077	0.0092	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Benzo(a)anthracene	0.11J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Benzo(a)pyrene	0.14		mg/kg	0.12	0.077	0.0046	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Benzo(b)fluoranthene	0.16		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Benzo(g,h,i)perylene	0.099J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Benzo(k)fluoranthene	0.055J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Chrysene	0.10J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Dibenzo(a,h)anthracene	0.036J	J	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Fluoranthene	0.12		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Fluorene	0.021J	J	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Indeno(1,2,3-cd)pyrene	0.11J	J	mg/kg	0.12	0.077	0.0081	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Naphthalene	0.018J	J	mg/kg	0.12	0.077	0.0069	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Phenanthrene	0.054J	J	mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Pyrene	0.17		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/6/18 S7M	9/6/18 21:39	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	78.5		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 21:39	CGS A
2-Fluorobiphenyl (S)	90.1		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 21:39	CGS A
2-Fluorophenol (S)	81.6		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 21:39	CGS A
Nitrobenzene-d5 (S)	101		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 21:39	CGS A
Phenol-d5 (S)	86.4		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 21:39	CGS A
Terphenyl-d14 (S)	102		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 21:39	CGS A
WET CHEMISTRY											
Moisture	13.7		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	86.3		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	



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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460010**
Sample ID: **PAR-49-293-A7-3-3.5**

Date Collected: 9/4/2018 15:00 Matrix: Solid
Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.12		mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Acenaphthylene	1.7		mg/kg	0.11	0.071	0.0075	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Anthracene	1.8		mg/kg	0.11	0.071	0.0085	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Benzo(a)anthracene	5.9		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Benzo(a)pyrene	7.0		mg/kg	0.11	0.071	0.0043	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Benzo(b)fluoranthene	8.0		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Benzo(g,h,i)perylene	3.7		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Benzo(k)fluoranthene	3.2		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Chrysene	6.1		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Dibenzo(a,h)anthracene	1.2		mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Fluoranthene	11.1		mg/kg	0.43	0.29	0.021	SW846 8270D	9/6/18 S7M	9/6/18 22:30	CGS	A
Fluorene	0.57		mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Indeno(1,2,3-cd)pyrene	4.5		mg/kg	0.11	0.071	0.0075	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Naphthalene	0.16		mg/kg	0.11	0.071	0.0064	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Phenanthrene	2.3		mg/kg	0.11	0.071	0.0053	SW846 8270D	9/6/18 S7M	9/6/18 22:05	CGS	A
Pyrene	10.5		mg/kg	0.43	0.29	0.021	SW846 8270D	9/6/18 S7M	9/6/18 22:30	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	84.1		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 22:05	CGS A
2,4,6-Tribromophenol (S)	86.9		%	39 - 132			SW846 8270D	9/6/18	S7M	9/6/18 22:30	CGS A
2-Fluorobiphenyl (S)	82.4		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 22:30	CGS A
2-Fluorobiphenyl (S)	79.1		%	44 - 115			SW846 8270D	9/6/18	S7M	9/6/18 22:05	CGS A
2-Fluorophenol (S)	79.5		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 22:30	CGS A
2-Fluorophenol (S)	78.5		%	35 - 115			SW846 8270D	9/6/18	S7M	9/6/18 22:05	CGS A
Nitrobenzene-d5 (S)	95.1		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 22:30	CGS A
Nitrobenzene-d5 (S)	89.9		%	37 - 122			SW846 8270D	9/6/18	S7M	9/6/18 22:05	CGS A
Phenol-d5 (S)	83.9		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 22:30	CGS A
Phenol-d5 (S)	81.7		%	33 - 122			SW846 8270D	9/6/18	S7M	9/6/18 22:05	CGS A
Terphenyl-d14 (S)	93		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 22:30	CGS A
Terphenyl-d14 (S)	83.8		%	54 - 127			SW846 8270D	9/6/18	S7M	9/6/18 22:05	CGS A
WET CHEMISTRY											
Moisture	8.5		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	
Total Solids	91.5		%	0.1	0.1	0.01	S2540G-11		9/6/18 12:16	AXD	

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ANALYTICAL RESULTS

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID: **2336460010**

Date Collected: 9/4/2018 15:00

Matrix: Solid

Sample ID: **PAR-49-293-A7-3-3.5**

Date Received: 9/5/2018 20:31

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
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Mrs. Vanessa N Badman

Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2336460 PQF158|Ft. Monmouth Soils PAR

Lab ID	Sample ID	Analysis Method	Prep Method
2336460001	PAR-49-293-A8-2-2.5	S2540G-11	
2336460001	PAR-49-293-A8-2-2.5	SW846 8270D	SW846 3546
2336460002	PAR-49-293-A3-1-1.5	S2540G-11	
2336460002	PAR-49-293-A3-1-1.5	SW846 8270D	SW846 3546
2336460003	PAR-49-293-A4-4-4.5	S2540G-11	
2336460003	PAR-49-293-A4-4-4.5	SW846 8270D	SW846 3546
2336460004	PAR-49-293-A5-4-4.5	S2540G-11	
2336460004	PAR-49-293-A5-4-4.5	SW846 8270D	SW846 3546
2336460005	PAR-49-293-A105-4-4.5	S2540G-11	
2336460005	PAR-49-293-A105-4-4.5	SW846 8270D	SW846 3546
2336460006	PAR-49-293-A1A-3-3.5	S2540G-11	
2336460006	PAR-49-293-A1A-3-3.5	SW846 8270D	SW846 3546
2336460007	PAR-49-293-A1B-3-3.5	S2540G-11	
2336460007	PAR-49-293-A1B-3-3.5	SW846 8270D	SW846 3546
2336460008	PAR-49-293-A2-4-4.5	S2540G-11	
2336460008	PAR-49-293-A2-4-4.5	SW846 8270D	SW846 3546
2336460009	PAR-49-293-A6-1.5-2	S2540G-11	
2336460009	PAR-49-293-A6-1.5-2	SW846 8270D	SW846 3546
2336460010	PAR-49-293-A7-3-3.5	S2540G-11	
2336460010	PAR-49-293-A7-3-3.5	SW846 8270D	SW846 3546

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34 Dogwood Lane
Middletown, PA 07057
(717) 944-5541

CHAIN OF CUSTODY
REQUEST FOR
ALL SHADED AREAS MUST BE COLORED
SAMPLER. INSTRUCTIONS



* 2 3 3 6 4 6 0 *

SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: P49-01-20180904

ALS Quote #:

of

Client Name: Parsons Federal		Container Type		Cooler Temp: 4°C Therm ID: 359		Receipt Information (Completed by Receiving Lab)	
Address: 100 High St 4th Floor Boston, MA 02110		Container Size Preservative		No. of Coolers: Y N Initial			
Contact: Lorraine Weber		ANALYSES/METHOD REQUESTED		Cooler Temp: 4°C Therm ID: 359			
Phone#: 315-552-9745				No. of Coolers: Y N Initial			
Project Name/ID:				Cooler Temp: 4°C Therm ID: 359			
BIBI To: Parsons Federal				No. of Coolers: Y N Initial			
TAT ☒ Normal-Standard TAT is 10-12 business days.				Cooler Temp: 4°C Therm ID: 359			
☒ Rush-Subject to ALS approval and surcharges.				No. of Coolers: Y N Initial			
Date Required: 2 DAY TAT Approved?				Cooler Temp: 4°C Therm ID: 359			
Email? ☒ Y lorraine.weber@parsons.com				No. of Coolers: Y N Initial			
Fax? ☐ Y No:				Cooler Temp: 4°C Therm ID: 359			

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time
1 PAR-49-293-A8-2-25	9-4-18	1000
2 PAR-49-293-A3-1-1.5		1110
3 PAR-49-293-A4-4-4.5		1230
4 PAR-49-293-A5-4-4.5		1300
5 PAR-49-293-A105-4-4.5		1300
6 PAR-49-293-A1A-3-3.5		1400
7 PAR-49-293-A1B-3-3.5		1420
8 PAR-49-293-A2-4-4.5		1430
9 PAR-49-293-A2-4-4.5-MS		1450
10 PAR-49-293-A2-4-4.5-MSD		1430

Project Comments: 748310 MDL Must Meet NDEP Soil Cleanup Criteria and/or Groundwater Quality Standards		LOGGED BY (signature): F. Amorin		REVIEWED BY (signature):	
Relinquished By / Company Name		Date		Time	
1 FRANK JACOBSON / PARSONS		9-5-18		1000	
3 D. Baker / ALS		9-5-18		1430	
5 COMMON COURIER / ALS COURIER		9-5-18		1430	
7 --					
9 --					

Enter Number of Containers Per Sample or Field Results Below.		TOTAL # of CONTAINERS		AUTHORIZED TO RUN	
1	1	1	1	1	1
2	1	1	1	1	1
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	1	1	1	1	1
8	1	1	1	1	1
9	1	1	1	1	1
10	1	1	1	1	1

Custody Seals Present? ☒		Special Processing		State Samples Collected In	
(if present) Seals Intact? ☒		USACE ☐		NY ☐	
Received on Ice? ☒		Navy ☐		NJ ☒	
COC Labels Complete/Accurate? ☒		Sample Disposal		PA ☐	
Cont. in Good Cond.? ☒		Lab ☐		NC ☐	
Correct Containers? ☒		Special ☐			
Correct Sample Volumes? ☒					
Correct Preservation? ☒					
Headspace/Volatiles? ☒					

Courier Tracking #: ALS/SP150905008		Sample/COC Comments	
ALS/SP150905008		ALS/SP150905008	



Environmetal
34 Dogwood Lane
Middletown, PA 07057
(717) 944-5541

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

2336460

COC #: 149-02-20180904

of

ALS Quote #:

Client Name: Parsons Federal		Container Type		Receipt Information (completed by Receiving Lab)	
Address: 100 High St. 4th Floor		Cooler Temp: 4°C Therm ID: 359		Cooler Temp: 4°C Therm ID: 359	
Boston, MA 02110		No. of Coolers: Y N Initial		No. of Coolers: Y N Initial	
Contact: Lorraine Weber		Custody Seals Present?		Custody Seals Present?	
Phone#: 315-552-9745		(if present) Seals Intact?		(if present) Seals Intact?	
Project Name/ID:		Received on Ice?		Received on Ice?	
Bill To: Parsons Federal		COCLabels Complete/Accurate?		COCLabels Complete/Accurate?	
TAT ☒ Normal-Standard TAT is 10-12 business days.		Cont. in Good Cond.?		Cont. in Good Cond.?	
Date Required: 2 DAY TAT Approved?		Correct Containers?		Correct Containers?	
Email? ☒ X -Y lorraine.weber@parsons.com		Correct Sample Volumes?		Correct Sample Volumes?	
Fax? ☐ -Y No.:		Correct Preservation?		Correct Preservation?	
Sample Description/Location (as it will appear on the lab report)		Headspace/Volatiles?		Headspace/Volatiles?	
Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.		Sample/CBC Comments	
1 PAR-49-293-A6-15-2	9-4-18 1445	1		AUTHORIZED TO RUN	
2 PAR-49-293-A7-3-3.5	9-4-18 1500	1		AUTHORIZED TO RUN	
3					
4					
5					
6					
7					
8					
9					
10					
LOGGED BY (Signature): <i>Li Anon</i>		Date: 9-4-18		Time: 1530	
REVIEWED BY (Signature):		Date:		Time:	
Relinquished By / Company Name		Date		Time	
1 <i>L. Weber / PARSONS</i>		9-5-18 1000		9-5-18 1000	
3 <i>Common Courier / ALS</i>		9-5-18 1615		9-5-18 2031	
5 <i>Common Courier / ALS</i>					
7					
9					
Project Comments: 748310		Data Deliverables		Special Processing	
MOI: Must Meet N/DEP Soil Cleanup Criteria and/or Groundwater		Standard ☐ CLP-like ☒ USACE		USACE ☐ Navy ☐ NY ☐ NJ ☐ PA ☐ NC ☐	
Quality Standards		Reportable to PADEP? Yes ☐ No ☐		Sample Disposal Lab ☐ Special ☐	
		PWSID #		EDDS: Formal Type- ERPIMS & HAZSITE	
		10			

G=Grab; G=Composite; Matrix=Air; DW=Drinking Water; GW=Groundwater; O=Oil; O=Other Liquid; S=Sludge; SO=Soil; WPS=Wipe; WW=Wastewater

September 14, 2018

Ms. Cris Grill
Parsons - Boston MA
100 High Street
4th Floor
Boston, MA 02110

Certificate of Analysis

Project Name:	Ft. Monmouth Soils	Workorder:	2337945
Purchase Order:		Workorder ID:	PQF159 Parcel 49 Extra Soil

Dear Ms. Grill:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 12, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Kent Friesen , Mr. Julien Chambert , Ms. Lorraine Weber

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*



Mrs. Vanessa N Badman
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2337945 PQF159|Parcel 49 Extra Soil

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2337945001	PAR-49-293-A1B-4.0-4.5	Solid	9/11/2018 13:20	9/12/2018 20:12	Collected by Client
2337945002	PAR-49-293-A7-4.0-4.5	Solid	9/11/2018 13:50	9/12/2018 20:12	Collected by Client
2337945003	PAR-49-293-A4-5.0-5.5	Solid	9/11/2018 14:20	9/12/2018 20:12	Collected by Client

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SAMPLE SUMMARY

Workorder: 2337945 PQF159|Parcel 49 Extra Soil

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2337945 PQF159|Parcel 49 Extra Soil

Lab ID: **2337945001**
Sample ID: **PAR-49-293-A1B-4.0-4.5**

Date Collected: 9/11/2018 13:20 Matrix: Solid
Date Received: 9/12/2018 20:12

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.080U	U	mg/kg	0.12	0.080	0.0071	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Acenaphthylene	0.080U	U	mg/kg	0.12	0.080	0.0083	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Anthracene	0.080U	U	mg/kg	0.12	0.080	0.0095	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Benzo(a)anthracene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Benzo(a)pyrene	0.080U	U	mg/kg	0.12	0.080	0.0048	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Benzo(b)fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Benzo(g,h,i)perylene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Benzo(k)fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Chrysene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Dibenzo(a,h)anthracene	0.080U	U	mg/kg	0.12	0.080	0.0071	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Fluorene	0.080U	U	mg/kg	0.12	0.080	0.0071	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Indeno(1,2,3-cd)pyrene	0.080U	U	mg/kg	0.12	0.080	0.0083	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Naphthalene	0.080U	U	mg/kg	0.12	0.080	0.0071	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Phenanthrene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Pyrene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 05:27	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	92.2		%	39 - 132			SW846 8270D	9/13/17	GEC	9/14/18 05:27	CGS A
2-Fluorobiphenyl (S)	80.9		%	44 - 115			SW846 8270D	9/13/17	GEC	9/14/18 05:27	CGS A
2-Fluorophenol (S)	84		%	35 - 115			SW846 8270D	9/13/17	GEC	9/14/18 05:27	CGS A
Nitrobenzene-d5 (S)	76.7		%	37 - 122			SW846 8270D	9/13/17	GEC	9/14/18 05:27	CGS A
Phenol-d5 (S)	88.8		%	33 - 122			SW846 8270D	9/13/17	GEC	9/14/18 05:27	CGS A
Terphenyl-d14 (S)	91.5		%	54 - 127			SW846 8270D	9/13/17	GEC	9/14/18 05:27	CGS A
WET CHEMISTRY											
Moisture	19.8		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	
Total Solids	80.2		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	



Mrs. Vanessa N Badman
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2337945 PQF159|Parcel 49 Extra Soil

Lab ID: **2337945002**
Sample ID: **PAR-49-293-A7-4.0-4.5**

Date Collected: 9/11/2018 13:50 Matrix: Solid
Date Received: 9/12/2018 20:12

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Acenaphthylene	0.080U	U	mg/kg	0.12	0.080	0.0084	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Anthracene	0.080U	U	mg/kg	0.12	0.080	0.0095	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Benzo(a)anthracene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Benzo(a)pyrene	0.080U	U	mg/kg	0.12	0.080	0.0048	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Benzo(b)fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Benzo(g,h,i)perylene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Benzo(k)fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Chrysene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Dibenzo(a,h)anthracene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Fluoranthene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Fluorene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Indeno(1,2,3-cd)pyrene	0.080U	U	mg/kg	0.12	0.080	0.0084	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Naphthalene	0.080U	U	mg/kg	0.12	0.080	0.0072	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Phenanthrene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Pyrene	0.080U	U	mg/kg	0.12	0.080	0.0060	SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	92.2		%	39 - 132			SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
2-Fluorobiphenyl (S)	81.6		%	44 - 115			SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
2-Fluorophenol (S)	80.3		%	35 - 115			SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Nitrobenzene-d5 (S)	77.4		%	37 - 122			SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Phenol-d5 (S)	86.1		%	33 - 122			SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
Terphenyl-d14 (S)	87.8		%	54 - 127			SW846 8270D	9/13/17 GEC	9/14/18 06:43	CGS	A
WET CHEMISTRY											
Moisture	17.3		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	
Total Solids	82.7		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	



Mrs. Vanessa N Badman
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2337945 PQF159|Parcel 49 Extra Soil

Lab ID: **2337945003**
Sample ID: **PAR-49-293-A4-5.0-5.5**

Date Collected: 9/11/2018 14:20 Matrix: Solid
Date Received: 9/12/2018 20:12

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	1.0		mg/kg	0.12	0.077	0.0069	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Acenaphthylene	0.29		mg/kg	0.12	0.077	0.0081	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Anthracene	2.5		mg/kg	0.12	0.077	0.0092	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Benzo(a)anthracene	3.5		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Benzo(a)pyrene	2.9		mg/kg	0.12	0.077	0.0046	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Benzo(b)fluoranthene	3.5		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Benzo(g,h,i)perylene	1.4		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Benzo(k)fluoranthene	1.3		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Chrysene	3.1		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Dibenzo(a,h)anthracene	0.44		mg/kg	0.12	0.077	0.0069	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Fluoranthene	9.2		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Fluorene	2.7		mg/kg	0.12	0.077	0.0069	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Indeno(1,2,3-cd)pyrene	1.8		mg/kg	0.12	0.077	0.0081	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Naphthalene	0.24		mg/kg	0.12	0.077	0.0069	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Phenanthrene	8.1		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Pyrene	7.6		mg/kg	0.12	0.077	0.0058	SW846 8270D	9/13/17 GEC	9/14/18 07:09	CGS	A
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	93.7		%	39 - 132			SW846 8270D	9/13/17	GEC	9/14/18 07:09	CGS A
2-Fluorobiphenyl (S)	82.8		%	44 - 115			SW846 8270D	9/13/17	GEC	9/14/18 07:09	CGS A
2-Fluorophenol (S)	77		%	35 - 115			SW846 8270D	9/13/17	GEC	9/14/18 07:09	CGS A
Nitrobenzene-d5 (S)	74		%	37 - 122			SW846 8270D	9/13/17	GEC	9/14/18 07:09	CGS A
Phenol-d5 (S)	83		%	33 - 122			SW846 8270D	9/13/17	GEC	9/14/18 07:09	CGS A
Terphenyl-d14 (S)	91.7		%	54 - 127			SW846 8270D	9/13/17	GEC	9/14/18 07:09	CGS A
WET CHEMISTRY											
Moisture	13.2		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	
Total Solids	86.8		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	



Mrs. Vanessa N Badman
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2337945 PQF159|Parcel 49 Extra Soil

Lab ID	Sample ID	Analysis Method	Prep Method
2337945001	PAR-49-293-A1B-4.0-4.5	S2540G-11	
2337945001	PAR-49-293-A1B-4.0-4.5	SW846 8270D	SW846 3546
2337945002	PAR-49-293-A7-4.0-4.5	S2540G-11	
2337945002	PAR-49-293-A7-4.0-4.5	SW846 8270D	SW846 3546
2337945003	PAR-49-293-A4-5.0-5.5	S2540G-11	
2337945003	PAR-49-293-A4-5.0-5.5	SW846 8270D	SW846 3546

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Environmental

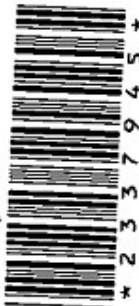
Client Name: Parsons Federal
Address: 100 High St. 4th Floor
Boston, MA 02110
Contact: Lorraine Weber
Phone#: 315-552-9745
Project Name#: Parcel 49 extra soil confirmatory samples
Bill To: Parsons Federal
TAT ☐ Normal-Standard TAT is 10-12 business days.
☒ Rush-Subject to ALS approval and surcharges.
Date Required: 9/14/2018 Approved?
Email? ☒ Y ☐ N Lorraine.weber@parsons.com
Fax? ☐ Y ☐ N

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK

COC #: P49-01-2

ALS Quote #:



* 2 3 3 7 9 4 5 *

Client Information		Container Type		ANALYSES/METHOD REQUESTED		Receipt Information (completed by Receiving Lab)	
Project Name: Parcel 49 extra soil confirmatory samples		4 02		J-509/ALS 9/13/18		Cooler Temp: 3°C Therm ID: 359	
Bill To: Parsons Federal		Preservative		WSP		No. of Coolers: Y N Initial km	
TAT ☐ Normal-Standard TAT is 10-12 business days. ☒ Rush-Subject to ALS approval and surcharges.		Matrix		PAHs (8270) (Soil)		COC Labels Completed/Accurate? Cont. In Good Cond.? Correct Containers? Correct Sample Volumes? Correct Preservation? Headspace/Volatiles?	
Date Required: 9/14/2018 Approved?		G or C		AUTHORIZED TO RUN		Courier Tracking #: SP18091202	
Email? ☒ Y ☐ N Lorraine.weber@parsons.com		Enter Number of Containers Per Sample or Field Results Below.		TOTAL # of CONTAINERS		Sample/COC Comments	
Fax? ☐ Y ☐ N		Sample Date		Time		ALS Field Services: ☒ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment	
Sample Description/Location (as it will appear on the lab report)		Sample Date		Time		Special Processing: ☐ USACE ☐ Navy ☐ State Samples Collected In: ☐ NY ☒ NJ ☐ PA ☐ NC	
1 PAR-49-293-A1B-4.0-4.5		9/11/2018		1320		Reportable to PADEP? Yes ☐ No ☐ PWSID #	
2 PAR-49-293-A7-4.0-4.5		9/11/2018		1350		Sample Disposal: ☐ Lab ☐ Special	
3 PAR-49-293-A4-5.0-5.5		9/11/2018		1420		EDDS: Format Type: ERPIMS & HAZSITE	
4							
5							
6							
7							
8							
9							
10							
Project Comments: 748810 MDL Must Meet NJDEP Soil Cleanup Criteria and/or Groundwater Quality Standards		LOGGED BY (signature): J. Lorraine		9-11-18 1600			
Relinquished By / Company Name		Date		Time			
1 J. Lorraine / PARSONS		9-12-18		0900			
3 COMMON COURIER ALS COURIER		9-12-18		1611			
5 COMMON COURIER ALS COURIER		9-12-18		2012			
7							
9							

September 17, 2018

Ms. Cris Grill
Parsons - Boston MA
100 High Street
4th Floor
Boston, MA 02110

Certificate of Analysis

Revised Report - 9/17/2018 7:08:51 PM - See workorder comment section for explanation

Project Name: **Ft. Monmouth Soils**Workorder: **2337946**

Purchase Order:

Workorder ID: **PQF160|Parcel 49 Extra Soil**

Dear Ms. Grill:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 12, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Kent Friesen , Mr. Julien Chambert , Ms. Lorraine Weber

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Mrs. Vanessa N Badman
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 2337946 PQF160|Parcel 49 Extra Soil

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2337946001	PAR-49-293-A1B-5.0-5.5	Solid	9/11/2018 13:35	9/12/2018 20:12	Collected by Client
2337946002	PAR-49-293-A7-5.0-5.5	Solid	9/11/2018 14:00	9/12/2018 20:12	Collected by Client
2337946003	PAR-49-293-A4-6.0-6.5	Solid	9/11/2018 14:24	9/12/2018 20:12	Collected by Client

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SAMPLE SUMMARY

Workorder: 2337946 PQF160|Parcel 49 Extra Soil

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2337946 PQF160|Parcel 49 Extra Soil

Lab ID: **2337946001**

Date Collected: 9/11/2018 13:35

Matrix: Solid

Sample ID: **PAR-49-293-A1B-5.0-5.5**

Date Received: 9/12/2018 20:12

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY											
Moisture	26.2		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	
Total Solids	73.8		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	



Mrs. Vanessa N Badman

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2337946 PQF160|Parcel 49 Extra Soil

Lab ID: **2337946002**
Sample ID: **PAR-49-293-A7-5.0-5.5**Date Collected: 9/11/2018 14:00 Matrix: Solid
Date Received: 9/12/2018 20:12

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY											
Moisture	24.8		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	
Total Solids	75.2		%	0.1	0.1	0.01	S2540G-11		9/14/18 08:03	AXD	

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Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder: 2337946 PQF160|Parcel 49 Extra Soil

Lab ID: **2337946003**
Sample ID: **PAR-49-293-A4-6.0-6.5**

Date Collected: 9/11/2018 14:24 Matrix: Solid
Date Received: 9/12/2018 20:12

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.086J	J	mg/kg	0.15	0.099	0.0089	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Acenaphthylene	0.045J	J	mg/kg	0.15	0.099	0.010	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Anthracene	0.12J	J	mg/kg	0.15	0.099	0.012	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Benzo(a)anthracene	0.24		mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Benzo(a)pyrene	0.22		mg/kg	0.15	0.099	0.0059	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Benzo(b)fluoranthene	0.28		mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Benzo(g,h,i)perylene	0.12J	J	mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Benzo(k)fluoranthene	0.11J	J	mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Chrysene	0.24		mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Dibenzo(a,h)anthracene	0.099U	U	mg/kg	0.15	0.099	0.0089	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Fluoranthene	0.54		mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Fluorene	0.16		mg/kg	0.15	0.099	0.0089	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Indeno(1,2,3-cd)pyrene	0.15J	J	mg/kg	0.15	0.099	0.010	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Naphthalene	0.045J	J	mg/kg	0.15	0.099	0.0089	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Phenanthrene	0.47		mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Pyrene	0.43		mg/kg	0.15	0.099	0.0074	SW846 8270D	9/13/17 GEC	9/14/18 08:26	CGS	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	91.9		%	39 - 132			SW846 8270D	9/13/17	GEC	9/14/18 08:26	CGS
2-Fluorobiphenyl (S)	81		%	44 - 115			SW846 8270D	9/13/17	GEC	9/14/18 08:26	CGS
2-Fluorophenol (S)	78.6		%	35 - 115			SW846 8270D	9/13/17	GEC	9/14/18 08:26	CGS
Nitrobenzene-d5 (S)	76.3		%	37 - 122			SW846 8270D	9/13/17	GEC	9/14/18 08:26	CGS
Phenol-d5 (S)	85.8		%	33 - 122			SW846 8270D	9/13/17	GEC	9/14/18 08:26	CGS
Terphenyl-d14 (S)	83.7		%	54 - 127			SW846 8270D	9/13/17	GEC	9/14/18 08:26	CGS
WET CHEMISTRY											
Moisture	33.1		%	0.1	0.1	0.01	S2540G-11			9/14/18 08:03	AXD
Total Solids	66.9		%	0.1	0.1	0.01	S2540G-11			9/14/18 08:03	AXD



Mrs. Vanessa N Badman
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2337946 PQF160|Parcel 49 Extra Soil

Lab ID	Sample ID	Analysis Method	Prep Method
2337946001	PAR-49-293-A1B-5.0-5.5	S2540G-11	
2337946002	PAR-49-293-A7-5.0-5.5	S2540G-11	
2337946003	PAR-49-293-A4-6.0-6.5	S2540G-11	
2337946003	PAR-49-293-A4-6.0-6.5	SW846 8270D	SW846 3546

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**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

COC #: P49-1



* 2 3 3 7 9 4 6 *

SAMPLER INSTRUCTIONS ON THE BACK.											
Environmental (717) 944-5541 Client Name: Parsons Federal Address: 100 High St. 4th Floor Boston, MA 02110 Contact: Lorraine Weber Phone#: 315-552-9745 Project Name#: Parcel 49 extra soil confirmatory samples Bill To: Parsons Federal		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002		ANALYSES/METHOD REQUESTED PAHs (8270) (Soil) G or C Matrix Enter Number of Containers Per Sample or Field Results Below.		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002	
Sample Description/Location (as it will appear on the lab report)		Sample Date		Sample Time		Enter Number of Containers Per Sample or Field Results Below.		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
1 PAR-49-293-A1B-5.0-5.5		9/11/2018		1335		1		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
2 PAR-49-293-A7-5.0-5.5		9/11/2018		1400		1		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
3 PAR-49-293-A4-6.0-6.5		9/11/2018		1424		1		Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
4								Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
5								Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
6								Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
7								Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
8								Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP180512002			
9								Receipt Information (completed by Receiving Lab) Cooler Temp: 3°C Therm ID: 359 No. of Coolers: Y N Initial km Custody Seals Present? ☒ (if present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. In Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒ Courier Tracking #: SP1805120			

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