Soil & Environmental Consultants, PA
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sandec.com

Limited Soil Sampling and Assessment

Morrow Mountain State Park
Stanley County, NC

October 2015

Prepared for

NC Parks
Attn: Mr. Peter Mitchell
12700 Bayleaf Church Road
Raleigh, NC 27614

S&EC Project No. 12680.S1
Morrow Mountain State Park Property

S&EC

Soil & Environmental Consultants, PA

8412 Falls of Neuse Road, Suite 104, Raleigh, NC 27615 • Phone: (919) 846-5900 • Fax: (919) 846-9467
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NC Parks
Attn: Mr. Peter Mitchell
12700 Bayleaf Church Road
Raleigh, NC 27614

October 26, 2015
S&EC Project #12680.S1

RE: Limited Soil Sampling and Assessment – Morrow Mountain State Park, Stanley Co.NC

Dear Mr. Mitchell:

This letter report will document and present the results of the Limited Soil Sampling and Assessment Program completed by Soil & Environmental Consultants, PA (S&EC) at the "soil fill and/or landfill" area in Morrow Mountain State Park. The work was performed and completed as per our proposal and scope of work dated September 15, 2015 (see Attachment 1). Based on S&EC's on-site investigations and the results of the limited soil sampling program, there does not appear to be any petroleum related contamination within the soil fill landfill area on this property. There is evidence of buried solid waste debris and other materials in this area that will affect its future use. The presence of the landfill area should be reported to the N. C. Division of Waste Management with the N. C. Department of Environmental Quality (NCDEQ), Solid Waste Section with a request for guidance on any regulatory requirements applicable to the landfill area. More information on these findings / recommendations is included later in this report.

Background Information for Phase II Investigation

S&EC was initially contacted by NC Parks to discuss the site assessment activities related to the excavation and disposal of soil fill material. S&EC was told the area had been used for the disposal of soil fill, waste ash from fire pits at camp sites and inert type debris such as rocks, metal and concrete. This created a very justified concern on your part as to whether there might be other waste or possibly contaminated soil, etc. buried in the soil fill/landfill area. As a result of that concern, S&EC developed and presented to you the above referenced proposal and scope of work for your consideration and approval.

Phase II Investigations / Sampling Procedures

After receiving the authorization to proceed, S&EC mobilized to the Park property on October 6, 2015 to perform the recommended site assessment activities. The scope included mobilizing a backhoe to the landfill area for the purpose of excavating exploratory pits to investigate the contents. Based on

our initial site inventory, the site was mostly open where recent disposal activities had taken place and wooded in areas of older disposal activities. Some current and former Park Staff were on-site to offer assistance with identifying the disposal areas and provided a general discussion of the use of this area.

Under the technical supervision of S&EC, State Park staff excavated 16 pits at various locations across the landfill area. S&EC was on site during this process to direct the placement of pits and observe their excavation. Figure 1 shows an approximate delineation of the landfill area based on the assessment completed by S&EC. That figure also shows the approximate location of excavated pits and from where soil samples were collected.

The pit sites were somewhat selected in the field based on the landfill depth, contents, topography, etc. in order to approximate the boundaries of the soil fill area and to provide the most comprehensive assessment possible within the parameters of the scope of work.

The overall landfill site is divided into two main areas, the first area being where mostly soil fill and burnt wood ash had been placed and the second area being where mostly solid waste trash debris was placed and buried. According to Park Staff, the area where soil fill and burnt wood ash was placed had been used for many years and the disposal of this material ceased about two years ago. The second area, which is mostly buried solid waste trash debris, was used when the campground initially opened and ceased being used once off-site trash disposal started. Given this situation, this portion of the landfill area (Area 2 on Figure 1) could be classified as a “pre-regulatory landfill” depending on the date that off-site trash disposal started for the Park system.

The scope of work also included the possibility of the collection of soil samples from selected locations within the landfill area if buried solid waste debris was encountered. After the pit excavations were completed, a discussion was held on collecting soil samples from the area. With the authorization to proceed, the samples were collected and then tested using analytical procedures designed to detect a limited range of potential contaminants. The analytical methods chosen are those typically used for investigations of general type contamination.

The soil sample locations were selected based on the most “suspect” areas observed during the pit excavation process. As noted on Figure 1, composite soil samples were taken from pits 6 & 7 and pits 12 & 14. Each of the pit soil samples collected for analysis was a composite sample made up of a mixture of several individual samples taken from those pits.

The samples were collected from the pits using a stainless soil auger which had been decontaminated prior to use or collected by hand using a stainless steel spoon. Several individual samples were collected from the pits, placed in a stainless steel bowl and mixed to make the composite sample. S&EC used non-latex gloves during collection of all soil samples to prevent potential cross-contamination issues. After collection, the samples were placed in containers provided by the laboratory, were labeled, and then placed in a cooler on ice per industry standard procedures. Under industry standard chain-of-custody protocol, the samples were submitted to Con Test Labs in Massachusetts for analyses.

Summary of Findings and Soil Sample Results

As previously mentioned, S&EC was on-site during the entire pit excavation process. A field log of materials observed was recorded for each pit as the excavation progressed along with the estimated depth of soil fill at each location. A summary of the field log is included as Attachment 2 to this report. S&EC estimates that the maximum fill depth to be about 6.5 feet below top of ground at and around the location of Pit #12. Several of the pits were determined to have little or no soil fill material and their locations were used to help develop an approximate delineation of the landfill area. All of the investigations and sample collections were completed on October 7, 2015.

Several of the excavated pits contained only soil fill and S&EC believes, based on the field investigation, that the northern part of the landfill area does contain mostly uncompacted soil fill, burnt wood ash and rocks with no significant amounts of solid waste debris present. Figure 1 identifies that portion of the landfill as Area 1, which is approximately 20,235 square feet in size. The remainder of the landfill (Area 2, southern portion) contains a range of solid waste trash materials that are typical of debris resulting from camping activities such as tin cans, glass, metal and plastic items. This are is approximately 8,550 square feet in size. Site Photos 1 & 2 are examples of pits where only soil fill was observed. Site Photos 3 & 4 show pits where the buried solid waste debris were present.

A copy of the lab results for the samples collected from pits 6 & 7 and pits 12 & 14 are included in Attachment 3 to this report. The samples were analyzed for the presence of volatile organic compounds (EPA Method 8260B), semi-volatile organic compounds (EPA Method 8270D) and for the 8 RCRA Heavy Metals (EPA Method 6010C & 7471B). The tests methods are some of the routinely recommended analysis by N. C. Department of Environmental Quality (NCDEQ) Division of Waste Management as an indicator of the possible presence of contamination. Additional lab test are required for landfill closure assessments activities per the Inactive Hazardous Waste Branch of NCDEQ and if this project moves forward then additional site testing will be needed to classify this landfill. One item to try and identify for this site is if the lower landfill existed on or before January 1, 1983. The landfill

placement date and contents will determine which agency will have jurisdiction over the closure assessment.

As can be noted from the lab results (Attachment 3), there were a few volatile (EPA Method 8260B) and semi-volatile (EPA Method 8270D) compounds that showed up in the lab results from both soil samples. However their reported concentrations were very low and most of the concentrations of volatile and semi-volatile compounds reported in the samples were well below the regulatory maximum limits except for one compound (Pentachorophenol at 0.30 mg/kg). S&EC did note that most of the instances where detections of these compounds were listed also had a lab "J" qualifier, which indicates the result was an estimated value. In the Heavy Metal analysis, there were reported concentrations above the Preliminary Soil Remediation Goals (PSRG's) for arsenic, barium, chromium and lead in the soil samples. All of these detected analysis and related PSRG's are listed below in Tables 1 & 2 below.

S&EC has noted, based on past sampling activities at other locations, that naturally occurring concentrations of metals such as arsenic, lead and chromium are in soils and may be at or above the levels reported by the lab for these soil samples. Since there is no practical way of determining the origin(s) of the soil fill materials, it is not possible within this scope of work to determine with certainty the "background" or naturally occurring level of these metals that might be present in the soil fill material. The NCDEQ, Inactive Hazardous Sites Branch has established the reportable levels of these metals in the soil that are used as a general guide for cleanup and disposal.

Conclusions and Recommendations

The limited Soil Sampling and Assessment program completed on this property has identified the general area of soil fill, burnt ash and buried solid waste debris. Neither the site assessment nor the sampling program has revealed any evidence of this area being used for hazardous waste disposal or the disposal of petroleum contaminated soil or industrial waste. There were no unusual or suspicious odors noted, no unusual stains observed and no unidentifiable materials uncovered in the landfill area. S&EC believes the assessment / sampling program described in this report provides a reasonable identification of the contents of and the likelihood of contamination associated with this soil fill area.

While contamination does not appear to be a major concern for this landfill area, there are other issues which must be considered during any future site development planning for this area. S&EC believes the landfill area in its present condition, is unsuitable for construction of houses, buildings, roads, on-site wastewater systems, or other similar improvements requiring a high level of structural integrity of the underlying soil. It may be suitable for walking trails, natural area, or other similar uses or it may

have to be identified on a map and recorded on the deed and have restricted access. S&EC would recommend consultation with the N. C. Division of Waste Management – Solid Waste Section for requirements on any regulatory requirements applicable to this landfill area. S&EC would also recommend that a comprehensive geotechnical investigation be completed on the landfill area prior to any plans to use it for buildings, roads, utilities or other uses which do require a high level of structural integrity of the underlying soil. Any future use of the landfill should adhere to regulatory requirements from the NCDWM and recommendations from any geotechnical investigations completed for this site.

Limitations and Disclaimers

The opinions included herein are based on our experience and the information obtained from the work described in this report. S&EC would note that this limited Phase II investigation was designed and performed as a screening effort to determine the likelihood of contamination associated with the past use of part of the Morrow Mountain State Park property as a landfill. It was not intended and is not represented as any type of comprehensive investigation or assessment that might be required in response to regulatory agency requirements and / or to meet legal requirements of the responsible party. This report is based on limited observations made on the site on the dates noted and using the procedures described. If additional information relative to this issue becomes available in the future, S&EC reserves the opportunity to review that information, reassess as needed the findings and conclusions stated in this report, and modify the report if appropriate. The opinions, conclusions and recommendations in this report should not be construed as legal advice.

S&EC is pleased to be of service in helping to identify the potential concerns with this property. Please feel free to call with questions or if you need additional information about this work.

Sincerely
Soil & Environmental Consultants, P.A.

Donald L.

Don Wells, Hydrologist
NC Licensed Soil Scientist

LICENSED SOIL SCIENTIST
DONALD LOUIS WELLS
1099
STATE OF NORTH CAROLINA

Table 1
Detected Soil Constituents – RCRA Metals
Morrow Mountain State Park

	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Silver
Residential PSRG	0.61	3000	14	0.3	400	2	78
Industrial PSRG	2.4	38000	160	6.3	800	3.1	1000
Protection of Groundwater	5.8	580	3	3.8	270	1	3.4
Sample ID							
Pit 6/7	**44***	**980**	2.4	**81***	35	0.023J	0.33J
Pit 12/14	**14***	200	**3.3**	**110***	**3200***	0.077	---

Notes:

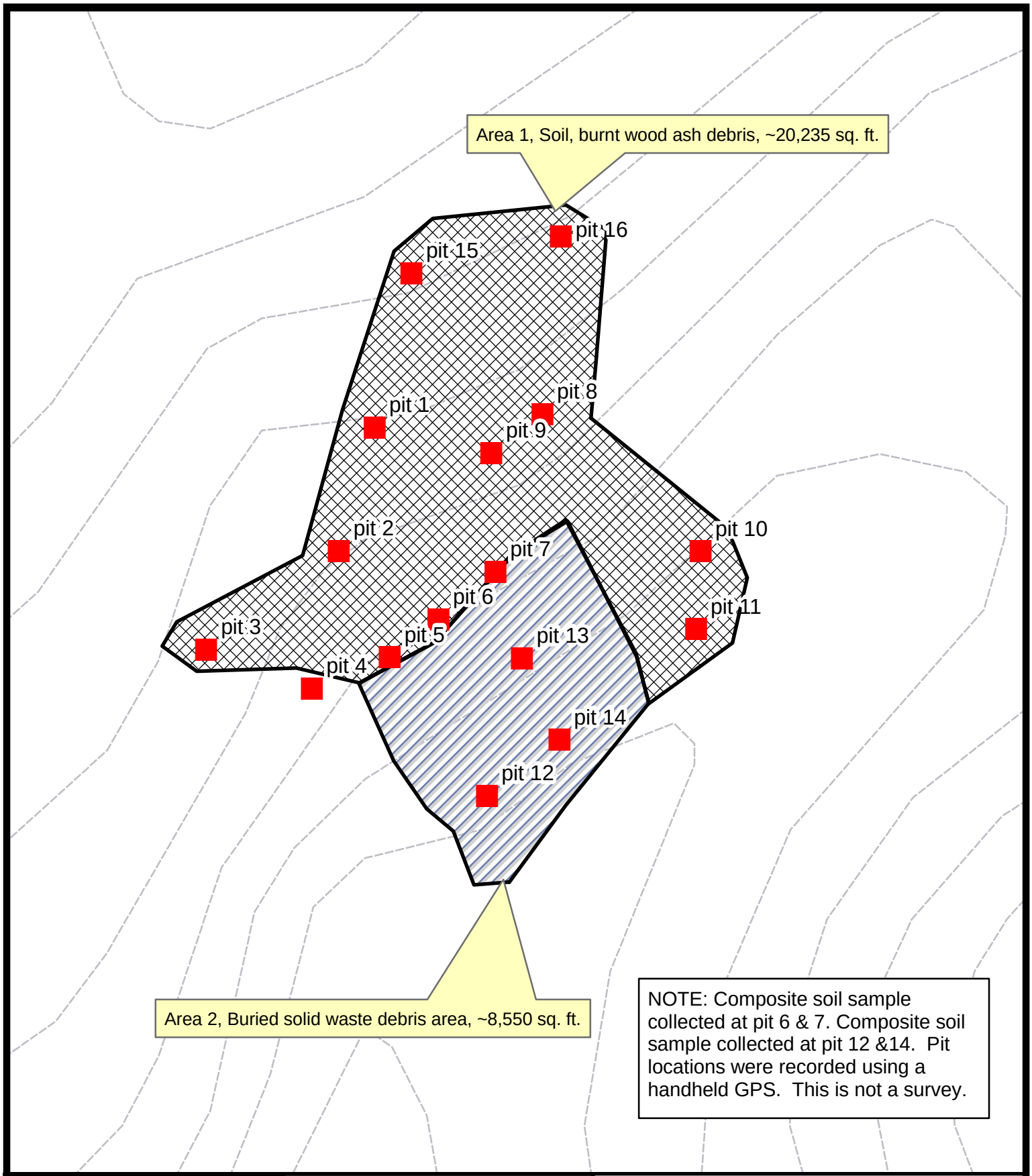
1) All units are milligrams per kilogram (PPM)
2) Inactive Hazardous Sites Branch PSRG's
3) PSRG for Chromium is given as Chromium VI
4) J indicates a detection but below the reporting limit, therefore it is an estimated value
5) _____ : Concentration exceeds the Residential PSRG
6) __*__: Concentration exceeds the Industrial PSRG
7) Bold : Concentration exceeds the Protection of Groundwater
8) __---__ : Results is below the Detection Limit

Table 2
Detected Soil Constituents – Volatile & Semi-Volatile Organic Compounds
Morrow Mountain State Park

	Acetone	Benzene	Toluene	Benzoic Acid	Bis(2-ethylhexyl)phthalate	Pentachlorophenol
Residential PSRG	12,000	1.1	820	48,000	35	0.89
Industrial PSRG	100,000	5.4	820	100,000	120	2.7
Protection of Groundwater	24	0.0073	5.5	130	7.2	0.031
Sample ID						
Pit 6/7	---	---	---	0.35J	0.36J	----
Pit 12/14	0.054J	0.005	0.0012J	0.28J	0.20J	**0.30J**

Notes:

1) All units are milligrams per kilogram (PPM)
2) Inactive Hazardous Sites Branch PSRG's
3) PSRG for Chromium is given as Chromium VI
4) J indicates a detection but below the reporting limit, therefore it is an estimated value
5) _____ : Concentration exceeds the Residential PSRG
6) __*__: Concentration exceeds the Industrial PSRG
7) Bold : Concentration exceeds the Protection of Groundwater
8) ___---___ : Results is below the Detection Limit



Project Number:	12680
Project Manager:	DW
Scale:	1" = 50'
Date:	10/27/15

Map Title: Figure 1

Pit Location Sketch Map

Morrow Mountain State Park
Stanly County, NC

Source: Stanly County GIS

0 50 100
Feet

N

S&EC

Soil & Environmental Consultants, PA

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Attachment 1.
Scope of work for Phase II Sampling Assessment

Project: Morrow Mountain State Park, Stanly County NC. September 15, 2015

Dear Mr. Mitchell:

As per your request and our initial conversation, Soil & Environmental Consultants, PA (S&EC) has prepared a cost estimate for performing a limited site assessment at the location of a previously "spoil filled area" within Morrow Mountain State Park in Stanly County. The goal of the assessment is to initially review the spoil fill area, provide an inventory of the material/debris within the fill, estimate the volume of material for its proper removal and disposal. This scope is for the initial site meeting and data gathering process only and additional work, testing, or meetings may be required depending on the findings from the initial field review inspection.

S&EC will meet with Park staff to review the physical boundary of the spoil fill area. S&EC will make a series of hand auger soil borings to help identify the limits of fill as compared to the adjacent natural soil. The spoil fill boundary will be flagged and approximately located using a hand held GPS unit. Then a series of shallow back hoe pits (4 to 8 ft) will be reviewed within the interior of the spoil fill to inspect and inventory the type of debris noted within the fill. The back hoe and operator will be provided by the client and is not part of S&EC fees. Likewise the scope above is based on one day field time, if additional time is required then additional fees will apply based on our standard fee schedule (see attached).

Based on the exposed debris, S&EC will verbally discuss the findings of the investigation with the client and if necessary soil samples can be collected for analytical testing. At this time, it is undetermined what type of analytical testing may be recommended, therefore soil sample lab testing is not part of the scope or the fees noted above. S&EC was told the intent is to excavate and properly dispose of the spoil fill and return the area back to a natural condition. At some point, S&EC will need to meet with and discuss the excavation process with the contractor and review the possible locations for the disposal of the spoil fill/debris. Most receiver sites have their own testing requirements based on suspect fill and once a receiver site is selected then a discussion of analytical testing and data can be held with them.

A sketch map of the spoil fill area along with the depth of the reviewed pits and the type of debris within each pit will be provided. This will give an estimated volume of the material to be excavated and disposed of (part of fees above). S&EC will first discuss the results of this initial investigation verbally to the client and if authorized, we can address the field investigation procedures and the results of this limited assessment in a letter report.

If you have any questions or require additional information then please give me a call.

Sincerely
Soil & Environmental Consultants, PA

Attachment 2 – Summary of Logs for Individual Exploratory Pits

Pit #	Approx. Depth of Fill	Contents
1	4’	soil fill
2	1.5’	soil fill, glass, rocks
3	1’	soil fill
4	0’	Natural Soil
5	1.2’	soil fill, glass, metal
6	> 4’	soil fill, burnt ash, wire, glass, rocks, wood, plastic
7	> 5’	soil fill, burnt ash, wood, tin cans
8	4’	soil fill, rocks
9	> 4’	soil fill
10	1.5’	soil fill
11	1.2’	soil fill
12	6.5’	soil fill, wire, glass, tin cans, trash, plastic, metal
13	3.5’	soil fill, glass, tin cans, metal
14	4’	soil fill, wire, glass, tin cans, trash, metal
15	1.5’	soil fill
16	1.5’	soil fill

Surficial solid waste debris items noted: metal, trash cans, pipe, tin cans, glass, plastic, burnt wood ash, wire, rocks, toilets, drums, bricks

Attachment 3.

Soil Sample Lab Results

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 19, 2015

Don Wells
S&EC (Soil & Environmental Consultants, PA)
8412 Falls of the Neuse Road, Suite 104
Raleigh, NC 27615

Project Location: Stanly Co.
Client Job Number:
Project Number: 12686.S1
Laboratory Work Order Number: 15J0524

Enclosed are results of analyses for samples received by the laboratory on October 12, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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S&EC (Soil & Environmental Consultants, PA)
8412 Falls of the Neuse Road, Suite 104
Raleigh, NC 27615
ATTN: Don Wells

REPORT DATE: 10/19/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12686.S1

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15J0524

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Stanly Co.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Pit 6/7	15J0524-01	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8270D	
Pit 12/14	15J0524-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260B

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132887-BLK1, B132887-BS1, B132887-BSD1

SW-846 8270D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

Pyridine
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Benzoic Acid
B132826-BS1

Bis(2-chloroisopropyl)ether
B132826-BS1

N-Nitrosodimethylamine
B132826-BS1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

Benzidine
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Diphenylhydrazine (as Azobenz
15J0524-02[Pit 12/14]

Aniline
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

Benzidine
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

Bis(2-chloroisopropyl)ether
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

Pyridine
15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B132826-BS1, B132826-BSD1

Hexachlorobenzene
B132826-BS1, B132826-BSD1

Pentachloronitrobenzene
B132826-BS1, B132826-BSD1

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V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1, B132826-BS1, B132826-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1

Hexachlorobenzene

15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1

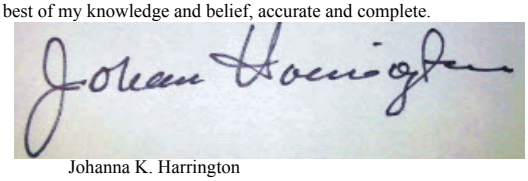
Hexachlorobutadiene

15J0524-02[Pit 12/14]

Pentachloronitrobenzene

15J0524-01[Pit 6/7], 15J0524-02[Pit 12/14], B132826-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 6/7 Sampled: 10/7/2015 14:00

Sample ID: 15J0524-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.21	0.048	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Acrylonitrile	ND	0.012	0.0052	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Benzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Bromobenzene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Bromochloromethane	ND	0.0041	0.0029	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Bromodichloromethane	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Bromoform	ND	0.0041	0.0029	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Bromomethane	ND	0.021	0.0035	mg/Kg dry	1	R-05	SW-846 8260B	10/14/15	10/14/15 13:09	MFF
2-Butanone (MEK)	ND	0.083	0.036	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
tert-Butyl Alcohol (TBA)	ND	0.083	0.043	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
n-Butylbenzene	ND	0.0083	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
sec-Butylbenzene	ND	0.0041	0.0021	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
tert-Butylbenzene	ND	0.0041	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Carbon Disulfide	ND	0.041	0.0068	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Carbon Tetrachloride	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Chlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Chlorodibromomethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Chloroethane	ND	0.041	0.0031	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Chloroform	ND	0.0083	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Chloromethane	ND	0.021	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
2-Chlorotoluene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
4-Chlorotoluene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0041	0.0023	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	0.0021	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Dibromomethane	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2-Dichlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,3-Dichlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,4-Dichlorobenzene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0083	0.0025	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.041	0.0027	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1-Dichloroethane	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2-Dichloroethane	ND	0.0041	0.0027	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1-Dichloroethylene	ND	0.0083	0.0023	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
cis-1,2-Dichloroethylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
trans-1,2-Dichloroethylene	ND	0.0041	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2-Dichloropropane	ND	0.0041	0.0027	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,3-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
2,2-Dichloropropane	ND	0.0041	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1-Dichloropropene	ND	0.0041	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
cis-1,3-Dichloropropene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
trans-1,3-Dichloropropene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Diethyl Ether	ND	0.041	0.0037	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 6/7 Sampled: 10/7/2015 14:00

Sample ID: 15J0524-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,4-Dioxane	ND	0.21	0.12	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Ethylbenzene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Hexachlorobutadiene	ND	0.0041	0.0021	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
2-Hexanone (MBK)	ND	0.041	0.023	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Isopropylbenzene (Cumene)	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0083	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Methylene Chloride	ND	0.041	0.015	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.041	0.016	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Naphthalene	ND	0.0083	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
n-Propylbenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Styrene	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0041	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0021	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Tetrachloroethylene	ND	0.0041	0.0027	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Tetrahydrofuran	ND	0.021	0.0046	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Toluene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2,3-Trichlorobenzene	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2,4-Trichlorobenzene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,3,5-Trichlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1,1-Trichloroethane	ND	0.0041	0.0021	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1,2-Trichloroethane	ND	0.0041	0.0025	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Trichloroethylene	ND	0.0041	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.021	0.0023	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2,3-Trichloropropane	ND	0.0041	0.0023	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.021	0.0019	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,2,4-Trimethylbenzene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
1,3,5-Trimethylbenzene	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
Vinyl Chloride	ND	0.021	0.0023	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
m+p Xylene	ND	0.0083	0.0035	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF
o-Xylene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		10/14/15 13:09
Toluene-d8	94.3	70-130		10/14/15 13:09
4-Bromofluorobenzene	84.9	70-130		10/14/15 13:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 6/7 Sampled: 10/7/2015 14:00

Sample ID: 15J0524-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.27	0.081	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Acenaphthylene	ND	0.27	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Acetophenone	ND	0.54	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Aniline	ND	0.54	0.15	mg/Kg dry	1	V-05	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Anthracene	ND	0.27	0.078	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzidine	ND	1.1	0.68	mg/Kg dry	1	V-04, V-05	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzo(a)anthracene	ND	0.27	0.072	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzo(a)pyrene	ND	0.27	0.085	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzo(b)fluoranthene	ND	0.27	0.077	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzo(g,h,i)perylene	ND	0.27	0.12	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzo(k)fluoranthene	ND	0.27	0.085	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Benzoic Acid	0.35	1.6	0.29	mg/Kg dry	1	J	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Bis(2-chloroethoxy)methane	ND	0.54	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Bis(2-chloroethyl)ether	ND	0.54	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Bis(2-chloroisopropyl)ether	ND	0.54	0.12	mg/Kg dry	1	V-05	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Bis(2-Ethylhexyl)phthalate	0.36	0.54	0.21	mg/Kg dry	1	J	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4-Bromophenylphenylether	ND	0.54	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Butylbenzylphthalate	ND	0.54	0.13	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Carbazole	ND	0.27	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4-Chloroaniline	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4-Chloro-3-methylphenol	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2-Chloronaphthalene	ND	0.54	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2-Chlorophenol	ND	0.54	0.097	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4-Chlorophenylphenylether	ND	0.54	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Chrysene	ND	0.27	0.085	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Dibenz(a,h)anthracene	ND	0.27	0.17	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Dibenzofuran	ND	0.54	0.094	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Di-n-butylphthalate	ND	0.54	0.12	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1,2-Dichlorobenzene	ND	0.54	0.096	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1,3-Dichlorobenzene	ND	0.54	0.092	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1,4-Dichlorobenzene	ND	0.54	0.097	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
3,3-Dichlorobenzidine	ND	0.27	0.083	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,4-Dichlorophenol	ND	0.54	0.092	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Diethylphthalate	ND	0.54	0.097	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,4-Dimethylphenol	ND	0.54	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Dimethylphthalate	ND	0.54	0.096	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4,6-Dinitro-2-methylphenol	ND	0.54	0.52	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,4-Dinitrophenol	ND	1.1	0.31	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,4-Dinitrotoluene	ND	0.54	0.088	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,6-Dinitrotoluene	ND	0.54	0.096	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Di-n-octylphthalate	ND	0.54	0.28	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.54	0.088	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Fluoranthene	ND	0.27	0.089	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Fluorene	ND	0.27	0.088	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 6/7 Sampled: 10/7/2015 14:00

Sample ID: 15J0524-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.54	0.096	mg/Kg dry	1	V-20	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Hexachlorobutadiene	ND	0.54	0.096	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Hexachlorocyclopentadiene	ND	0.54	0.11	mg/Kg dry	1	L-04	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Hexachloroethane	ND	0.54	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.27	0.19	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Isophorone	ND	0.54	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1-Methylnaphthalene	ND	0.27	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2-Methylnaphthalene	ND	0.27	0.094	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2-Methylphenol	ND	0.54	0.14	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
3/4-Methylphenol	ND	0.54	0.17	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Naphthalene	ND	0.27	0.14	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2-Nitroaniline	ND	0.54	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
3-Nitroaniline	ND	0.54	0.078	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4-Nitroaniline	ND	0.54	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Nitrobenzene	ND	0.54	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2-Nitrophenol	ND	0.54	0.14	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
4-Nitrophenol	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
N-Nitrosodimethylamine	ND	0.54	0.34	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
N-Nitrosodiphenylamine	ND	0.54	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
N-Nitrosodi-n-propylamine	ND	0.54	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Pentachloronitrobenzene	ND	0.54	0.13	mg/Kg dry	1	V-16, V-20	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Pentachlorophenol	ND	0.54	0.13	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Phenanthrene	ND	0.27	0.14	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Phenol	ND	0.54	0.092	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Pyrene	ND	0.27	0.089	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
Pyridine	ND	0.54	0.088	mg/Kg dry	1	L-04, V-05	SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.54	0.097	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
1,2,4-Trichlorobenzene	ND	0.54	0.097	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,4,5-Trichlorophenol	ND	0.54	0.12	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL
2,4,6-Trichlorophenol	ND	0.54	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/14/15 16:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	55.7	30-130		10/14/15 16:33
Phenol-d6	61.8	30-130		10/14/15 16:33
Nitrobenzene-d5	62.5	30-130		10/14/15 16:33
2-Fluorobiphenyl	82.0	30-130		10/14/15 16:33
2,4,6-Tribromophenol	87.1	30-130		10/14/15 16:33
p-Terphenyl-d14	93.3	30-130		10/14/15 16:33

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 6/7 Sampled: 10/7/2015 14:00

Sample ID: 15J0524-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	44	4.0	1.2	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:36	MJH
Barium	980	4.0	0.40	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:36	MJH
Cadmium	2.4	0.40	0.11	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:36	MJH
Chromium	81	0.80	0.21	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:36	MJH
Lead	35	1.2	0.42	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:36	MJH
Mercury	0.023	0.039	0.0066	mg/Kg dry	1	J	SW-846 7471B	10/13/15	10/15/15 11:37	RMS
Selenium	ND	8.0	4.8	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:36	MJH
Silver	0.33	0.80	0.098	mg/Kg dry	1	J	SW-846 6010C	10/14/15	10/15/15 16:50	MJH

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 6/7 Sampled: 10/7/2015 14:00

Sample ID: 15J0524-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.3		% Wt	1		SM 2540G	10/13/15	10/14/15 11:20	MRL

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 12/14 Sampled: 10/7/2015 13:45

Sample ID: 15J0524-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.054	0.12	0.027	mg/Kg dry	1	J	SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Acrylonitrile	ND	0.0069	0.0029	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Benzene	0.0050	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Bromobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	R-05	SW-846 8260B	10/14/15	10/14/15 13:36	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
n-Butylbenzene	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Carbon Disulfide	ND	0.023	0.0038	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
2-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
4-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Dibromomethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,3-Dichloropropane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 12/14 Sampled: 10/7/2015 13:45

Sample ID: 15J0524-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,4-Dioxane	ND	0.12	0.066	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Hexachlorobutadiene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Naphthalene	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
n-Propylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Tetrahydrofuran	ND	0.012	0.0025	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Toluene	0.0012	0.0023	0.00092	mg/Kg dry	1	J	SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	10/14/15	10/14/15 13:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		10/14/15 13:36
Toluene-d8	93.6	70-130		10/14/15 13:36
4-Bromofluorobenzene	83.0	70-130		10/14/15 13:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 12/14 Sampled: 10/7/2015 13:45

Sample ID: 15J0524-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Acetophenone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Aniline	ND	0.42	0.12	mg/Kg dry	1	V-05	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzidine	ND	0.81	0.52	mg/Kg dry	1	V-04, V-05	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Benzoic Acid	0.28	1.2	0.22	mg/Kg dry	1	J	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.090	mg/Kg dry	1	V-05	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Bis(2-Ethylhexyl)phthalate	0.20	0.42	0.16	mg/Kg dry	1	J	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Butylbenzylphthalate	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4-Chloroaniline	ND	0.81	0.096	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4-Chloro-3-methylphenol	ND	0.81	0.090	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2-Chloronaphthalene	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2-Chlorophenol	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Dibenzofuran	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Di-n-butylphthalate	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1,2-Dichlorobenzene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1,3-Dichlorobenzene	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1,4-Dichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
3,3-Dichlorobenzidine	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,4-Dichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Diethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,4-Dimethylphenol	ND	0.42	0.077	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Dimethylphthalate	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,4-Dinitrophenol	ND	0.81	0.24	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,4-Dinitrotoluene	ND	0.42	0.068	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,6-Dinitrotoluene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.068	mg/Kg dry	1	V-05	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 12/14 Sampled: 10/7/2015 13:45

Sample ID: 15J0524-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.42	0.074	mg/Kg dry	1	V-20	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Hexachlorobutadiene	ND	0.42	0.074	mg/Kg dry	1	V-20	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Hexachlorocyclopentadiene	ND	0.42	0.089	mg/Kg dry	1	L-04	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Hexachloroethane	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Isophorone	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
3-Nitroaniline	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Nitrobenzene	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
4-Nitrophenol	ND	0.81	0.091	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
N-Nitrosodimethylamine	ND	0.42	0.26	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
N-Nitrosodiphenylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Pentachloronitrobenzene	ND	0.42	0.10	mg/Kg dry	1	V-16, V-20	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Pentachlorophenol	0.30	0.42	0.10	mg/Kg dry	1	J	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Phenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
Pyridine	ND	0.42	0.068	mg/Kg dry	1	L-04, V-05	SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
1,2,4-Trichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,4,5-Trichlorophenol	ND	0.42	0.095	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/13/15	10/15/15 11:57	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	70.7	30-130		10/15/15 11:57
Phenol-d6	70.0	30-130		10/15/15 11:57
Nitrobenzene-d5	72.7	30-130		10/15/15 11:57
2-Fluorobiphenyl	89.8	30-130		10/15/15 11:57
2,4,6-Tribromophenol	107	30-130		10/15/15 11:57
p-Terphenyl-d14	99.4	30-130		10/15/15 11:57

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 12/14 Sampled: 10/7/2015 13:45

Sample ID: 15J0524-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	14	3.1	0.93	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:41	MJH
Barium	200	3.1	0.31	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:41	MJH
Cadmium	3.3	0.31	0.083	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:41	MJH
Chromium	110	0.62	0.16	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:41	MJH
Lead	3200	0.93	0.33	mg/Kg dry	1		SW-846 6010C	10/14/15	10/15/15 16:54	MJH
Mercury	0.077	0.030	0.0050	mg/Kg dry	1		SW-846 7471B	10/13/15	10/15/15 11:38	RMS
Selenium	ND	6.2	3.7	mg/Kg dry	1		SW-846 6010C	10/14/15	10/14/15 19:41	MJH
Silver	ND	0.62	0.076	mg/Kg dry	1		SW-846 6010C	10/14/15	10/15/15 16:54	MJH

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Project Location: Stanly Co. Sample Description: Work Order: 15J0524

Date Received: 10/12/2015

Field Sample #: Pit 12/14 Sampled: 10/7/2015 13:45

Sample ID: 15J0524-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	10/13/15	10/14/15 11:20	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
15J0524-01 [Pit 6/7]	B132839	10/13/15
15J0524-02 [Pit 12/14]	B132839	10/13/15

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J0524-01 [Pit 6/7]	B133239	1.01	50.0	10/14/15
15J0524-02 [Pit 12/14]	B133239	0.996	50.0	10/14/15

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J0524-01 [Pit 6/7]	B132835	0.618	50.0	10/13/15
15J0524-02 [Pit 12/14]	B132835	0.616	50.0	10/13/15

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J0524-01 [Pit 6/7]	B132887	3.88	10.0	10/14/15
15J0524-02 [Pit 12/14]	B132887	5.33	10.0	10/14/15

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J0524-01 [Pit 6/7]	B132826	30.2	1.00	10/13/15
15J0524-02 [Pit 12/14]	B132826	30.0	1.00	10/13/15

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132887 - SW-846 5030B										
Blank (B132887-BLK1)				Prepared & Analyzed: 10/14/15						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0040	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B132887 - SW-846 5030B											
Blank (B132887-BLK1)				Prepared & Analyzed: 10/14/15							
Methylene Chloride	ND	0.020	mg/Kg wet								
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet								
Naphthalene	ND	0.0040	mg/Kg wet								
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0563*		mg/Kg wet	0.0500		113	70-130				
Surrogate: Toluene-d8	*0.0471*		mg/Kg wet	0.0500		94.1	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0455*		mg/Kg wet	0.0500		91.0	70-130				
LCS (B132887-BS1)				Prepared & Analyzed: 10/14/15							
Acetone	0.221	0.10	mg/Kg wet	0.200		111	70-160				†
Acrylonitrile	0.0215	0.0060	mg/Kg wet	0.0200		107	70-130				
tert-Amyl Methyl Ether (TAME)	0.0176	0.0010	mg/Kg wet	0.0200		88.1	70-130				
Benzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130				
Bromobenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130				
Bromochloromethane	0.0257	0.0020	mg/Kg wet	0.0200		129	70-130				
Bromodichloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130				
Bromoform	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130				
Bromomethane	0.00930	0.010	mg/Kg wet	0.0200		46.5	40-130			R-05, J	†
2-Butanone (MEK)	0.210	0.040	mg/Kg wet	0.200		105	70-160				†
tert-Butyl Alcohol (TBA)	0.191	0.040	mg/Kg wet	0.200		95.3	40-130				†
n-Butylbenzene	0.0230	0.0040	mg/Kg wet	0.0200		115	70-130				
sec-Butylbenzene	0.0250	0.0020	mg/Kg wet	0.0200		125	70-130				
tert-Butylbenzene	0.0237	0.0020	mg/Kg wet	0.0200		118	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0199	0.0010	mg/Kg wet	0.0200		99.7	70-130				
Carbon Disulfide	0.0215	0.020	mg/Kg wet	0.0200		108	70-130				
Carbon Tetrachloride	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130				
Chlorobenzene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130				
Chlorodibromomethane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130				
Chloroethane	0.0157	0.020	mg/Kg wet	0.0200		78.3	70-130			J	
Chloroform	0.0238	0.0040	mg/Kg wet	0.0200		119	70-130				
Chloromethane	0.0155	0.010	mg/Kg wet	0.0200		77.6	70-130				
2-Chlorotoluene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B132887 - SW-846 5030B											
LCS (B132887-BS1)				Prepared & Analyzed: 10/14/15							
4-Chlorotoluene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130				
1,2-Dibromoethane (EDB)	0.0227	0.0010	mg/Kg wet	0.0200		113	70-130				
Dibromomethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130				
1,2-Dichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130				
1,3-Dichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130				
1,4-Dichlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
trans-1,4-Dichloro-2-butene	0.0182	0.0040	mg/Kg wet	0.0200		90.9	70-130				
Dichlorodifluoromethane (Freon 12)	0.0119	0.020	mg/Kg wet	0.0200		59.3	40-160			J	†
1,1-Dichloroethane	0.0250	0.0020	mg/Kg wet	0.0200		125	70-130				
1,2-Dichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130				
1,1-Dichloroethylene	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130				
cis-1,2-Dichloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
trans-1,2-Dichloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
1,2-Dichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130				
2,2-Dichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130				
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130				
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130				
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.6	70-130				
Diethyl Ether	0.0176	0.020	mg/Kg wet	0.0200		88.2	70-130			J	
Diisopropyl Ether (DIPE)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130				
1,4-Dioxane	0.176	0.10	mg/Kg wet	0.200		88.2	40-160				†
Ethylbenzene	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130				
Hexachlorobutadiene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-160				
2-Hexanone (MBK)	0.197	0.020	mg/Kg wet	0.200		98.7	70-160				†
Isopropylbenzene (Cumene)	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130				
p-Isopropyltoluene (p-Cymene)	0.0247	0.0020	mg/Kg wet	0.0200		124	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130				
Methylene Chloride	0.0218	0.020	mg/Kg wet	0.0200		109	40-160				†
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.6	70-160				†
Naphthalene	0.0163	0.0040	mg/Kg wet	0.0200		81.5	40-130				†
n-Propylbenzene	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130				
Styrene	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130				
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130				
1,1,2,2-Tetrachloroethane	0.0225	0.0010	mg/Kg wet	0.0200		113	70-130				
Tetrachloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130				
Tetrahydrofuran	0.0203	0.010	mg/Kg wet	0.0200		102	70-130				
Toluene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130				
1,2,3-Trichlorobenzene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130				
1,2,4-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130				
1,3,5-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130				
1,1,1-Trichloroethane	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130				
1,1,2-Trichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130				
Trichloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130				
Trichlorofluoromethane (Freon 11)	0.0213	0.010	mg/Kg wet	0.0200		107	70-130				
1,2,3-Trichloropropane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130				
1,2,4-Trimethylbenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130				
1,3,5-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130				
Vinyl Chloride	0.0160	0.010	mg/Kg wet	0.0200		80.0	40-130				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B132887 - SW-846 5030B												
LCS (B132887-BS1)				Prepared & Analyzed: 10/14/15								
m+p Xylene	0.0489	0.0040	mg/Kg wet	0.0400		122	70-130					
o-Xylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130					
Surrogate: 1,2-Dichloroethane-d4	*0.0509*		mg/Kg wet	0.0500		102	70-130					
Surrogate: Toluene-d8	*0.0488*		mg/Kg wet	0.0500		97.5	70-130					
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101	70-130					
LCS Dup (B132887-BSD1)				Prepared & Analyzed: 10/14/15								
Acetone	0.179	0.10	mg/Kg wet	0.200		89.5	70-160	21.2		25		†
Acrylonitrile	0.0211	0.0060	mg/Kg wet	0.0200		106	70-130	1.69		25		
tert-Amyl Methyl Ether (TAME)	0.0169	0.0010	mg/Kg wet	0.0200		84.7	70-130	3.94		25		
Benzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	3.14		25		
Bromobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	2.49		25		
Bromochloromethane	0.0255	0.0020	mg/Kg wet	0.0200		127	70-130	1.09		25		
Bromodichloromethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.79		25		
Bromoform	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	6.81		25		
Bromomethane	0.0127	0.010	mg/Kg wet	0.0200		63.7	40-130	**31.2**	*	25	R-05	†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		94.0	70-160	11.0		25		†
tert-Butyl Alcohol (TBA)	0.190	0.040	mg/Kg wet	0.200		94.8	40-130	0.589		25		†
n-Butylbenzene	0.0227	0.0040	mg/Kg wet	0.0200		114	70-130	1.14		25		
sec-Butylbenzene	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130	1.43		25		
tert-Butylbenzene	0.0243	0.0020	mg/Kg wet	0.0200		122	70-160	2.58		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0191	0.0010	mg/Kg wet	0.0200		95.4	70-130	4.41		25		
Carbon Disulfide	0.0199	0.0060	mg/Kg wet	0.0200		99.5	70-130	7.92		25		
Carbon Tetrachloride	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	2.78		25		
Chlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	4.65		25		
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	3.21		25		
Chloroethane	0.0168	0.020	mg/Kg wet	0.0200		84.2	70-130	7.26		25	J	
Chloroform	0.0228	0.0040	mg/Kg wet	0.0200		114	70-130	4.64		25		
Chloromethane	0.0155	0.010	mg/Kg wet	0.0200		77.6	70-130	0.00		25		
2-Chlorotoluene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	6.23		25		
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	6.47		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	5.35		25		
1,2-Dibromoethane (EDB)	0.0239	0.0010	mg/Kg wet	0.0200		119	70-130	5.07		25		
Dibromomethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	0.606		25		
1,2-Dichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	0.445		25		
1,3-Dichlorobenzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	2.69		25		
1,4-Dichlorobenzene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	2.30		25		
trans-1,4-Dichloro-2-butene	0.0177	0.0040	mg/Kg wet	0.0200		88.3	70-130	2.90		25		
Dichlorodifluoromethane (Freon 12)	0.0114	0.020	mg/Kg wet	0.0200		57.1	40-160	3.78		25	J	†
1,1-Dichloroethane	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	6.44		25		
1,2-Dichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	0.179		25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130	5.33		25		
cis-1,2-Dichloroethylene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	4.77		25		
trans-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	1.92		25		
1,2-Dichloropropane	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	0.515		25		
1,3-Dichloropropane	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130	1.84		25		
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.25		25		
1,1-Dichloropropene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	4.50		25		
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130	4.88		25		
trans-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	4.80		25		
Diethyl Ether	0.0165	0.020	mg/Kg wet	0.0200		82.6	70-130	6.56		25	J	
Diisopropyl Ether (DIPE)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	3.44		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132887 - SW-846 5030B										
LCS Dup (B132887-BSD1)				Prepared & Analyzed: 10/14/15						
1,4-Dioxane	0.182	0.10	mg/Kg wet	0.200		91.1	40-160	3.25	50	† ‡
Ethylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	4.46	25	
Hexachlorobutadiene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-160	2.10	25	
2-Hexanone (MBK)	0.194	0.020	mg/Kg wet	0.200		97.1	70-160	1.60	25	†
Isopropylbenzene (Cumene)	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	5.78	25	
p-Isopropyltoluene (p-Cymene)	0.0249	0.0020	mg/Kg wet	0.0200		124	70-130	0.806	25	
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.7	70-130	2.18	25	
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160	1.85	25	†
4-Methyl-2-pentanone (MIBK)	0.199	0.020	mg/Kg wet	0.200		99.5	70-160	2.00	25	†
Naphthalene	0.0158	0.0040	mg/Kg wet	0.0200		79.1	40-130	2.99	25	†
n-Propylbenzene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	6.00	25	
Styrene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	6.28	25	
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	3.61	25	
1,1,2,2-Tetrachloroethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	5.38	25	
Tetrachloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	3.43	25	
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.5	70-130	10.4	25	
Toluene	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130	4.07	25	
1,2,3-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.0200		82.2	70-130	3.35	25	
1,2,4-Trichlorobenzene	0.0161	0.0020	mg/Kg wet	0.0200		80.6	70-130	1.48	25	
1,3,5-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	2.25	25	
1,1,1-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	1.70	25	
1,1,2-Trichloroethane	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	4.15	25	
Trichloroethylene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	2.08	25	
Trichlorofluoromethane (Freon 11)	0.0217	0.010	mg/Kg wet	0.0200		109	70-130	1.86	25	
1,2,3-Trichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	14.6	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0191	0.010	mg/Kg wet	0.0200		95.6	70-130	7.36	25	
1,2,4-Trimethylbenzene	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130	2.92	25	
1,3,5-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	5.85	25	
Vinyl Chloride	0.0158	0.010	mg/Kg wet	0.0200		79.2	40-130	1.01	25	†
m+p Xylene	0.0462	0.0040	mg/Kg wet	0.0400		116	70-130	5.55	25	
o-Xylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	6.71	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0502*		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	*0.0526*		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0470*		mg/Kg wet	0.0500		94.0	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132826 - SW-846 3546										
Blank (B132826-BLK1)				Prepared: 10/13/15 Analyzed: 10/14/15						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19, V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							V-20
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B132826 - SW-846 3546												
Blank (B132826-BLK1)				Prepared: 10/13/15 Analyzed: 10/14/15								
2-Methylphenol	ND	0.34	mg/Kg wet									
3/4-Methylphenol	ND	0.34	mg/Kg wet									
Naphthalene	ND	0.17	mg/Kg wet									
2-Nitroaniline	ND	0.34	mg/Kg wet									
3-Nitroaniline	ND	0.34	mg/Kg wet									
4-Nitroaniline	ND	0.34	mg/Kg wet									
Nitrobenzene	ND	0.34	mg/Kg wet									
2-Nitrophenol	ND	0.34	mg/Kg wet									
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16, V-20	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet								L-04, V-05	
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.50*		mg/Kg wet	6.67		67.5		30-130				
Surrogate: Phenol-d6	*4.51*		mg/Kg wet	6.67		67.7		30-130				
Surrogate: Nitrobenzene-d5	*2.17*		mg/Kg wet	3.33		65.2		30-130				
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		79.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.97*		mg/Kg wet	6.67		105		30-130				
Surrogate: p-Terphenyl-d14	*3.47*		mg/Kg wet	3.33		104		30-130				
LCS (B132826-BS1)				Prepared: 10/13/15 Analyzed: 10/14/15								
Acenaphthene	0.916	0.17	mg/Kg wet	1.67		55.0		40-140				
Acenaphthylene	0.921	0.17	mg/Kg wet	1.67		55.3		40-140				
Acetophenone	1.02	0.34	mg/Kg wet	1.67		60.9		40-140				
Aniline	0.531	0.34	mg/Kg wet	1.67		31.9		10-140			V-05	†
Anthracene	0.989	0.17	mg/Kg wet	1.67		59.4		40-140				
Benzidine	1.44	0.66	mg/Kg wet	1.67		86.5		40-140			V-04, V-05	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.1		40-140				
Benzo(a)pyrene	1.02	0.17	mg/Kg wet	1.67		61.1		40-140				
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.8		40-140				
Benzo(g,h,i)perylene	0.716	0.17	mg/Kg wet	1.67		43.0		40-140				
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140				
Benzoic Acid	0.412	1.0	mg/Kg wet	1.67		**24.7**	*	30-130			L-07, J	
Bis(2-chloroethoxy)methane	0.828	0.34	mg/Kg wet	1.67		49.7		40-140				
Bis(2-chloroethyl)ether	0.772	0.34	mg/Kg wet	1.67		46.3		40-140				
Bis(2-chloroisopropyl)ether	0.628	0.34	mg/Kg wet	1.67		**37.7**	*	40-140			L-07, V-05	
Bis(2-Ethylhexyl)phthalate	1.21	0.34	mg/Kg wet	1.67		72.8		40-140				
4-Bromophenylphenylether	1.08	0.34	mg/Kg wet	1.67		64.5		40-140				
Butylbenzylphthalate	1.07	0.34	mg/Kg wet	1.67		64.3		40-140				
Carbazole	0.962	0.17	mg/Kg wet	1.67		57.7		40-140				
4-Chloroaniline	0.627	0.66	mg/Kg wet	1.67		37.6		10-140			J	†
4-Chloro-3-methylphenol	0.891	0.66	mg/Kg wet	1.67		53.4		30-130				
2-Chloronaphthalene	0.835	0.34	mg/Kg wet	1.67		50.1		40-140				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B132826 - SW-846 3546												
LCS (B132826-BS1)				Prepared: 10/13/15 Analyzed: 10/14/15								
2-Chlorophenol	0.847	0.34	mg/Kg wet	1.67		50.8		30-130				
4-Chlorophenylphenylether	1.04	0.34	mg/Kg wet	1.67		62.2		40-140				
Chrysene	1.00	0.17	mg/Kg wet	1.67		60.1		40-140				
Dibenz(a,h)anthracene	0.800	0.17	mg/Kg wet	1.67		48.0		40-140				
Dibenzofuran	0.963	0.34	mg/Kg wet	1.67		57.8		40-140				
Di-n-butylphthalate	1.01	0.34	mg/Kg wet	1.67		60.4		40-140				
1,2-Dichlorobenzene	0.812	0.34	mg/Kg wet	1.67		48.7		40-140				
1,3-Dichlorobenzene	0.769	0.34	mg/Kg wet	1.67		46.1		40-140				
1,4-Dichlorobenzene	0.779	0.34	mg/Kg wet	1.67		46.8		40-140				
3,3-Dichlorobenzidine	1.03	0.17	mg/Kg wet	1.67		61.5		20-140				†
2,4-Dichlorophenol	0.994	0.34	mg/Kg wet	1.67		59.6		30-130				
Diethylphthalate	1.01	0.34	mg/Kg wet	1.67		60.6		40-140				
2,4-Dimethylphenol	0.864	0.34	mg/Kg wet	1.67		51.8		30-130				
Dimethylphthalate	1.02	0.34	mg/Kg wet	1.67		60.9		40-140				
4,6-Dinitro-2-methylphenol	0.852	0.34	mg/Kg wet	1.67		51.1		30-130				
2,4-Dinitrophenol	0.664	0.66	mg/Kg wet	1.67		39.8		30-130			V-06, V-19	
2,4-Dinitrotoluene	1.01	0.34	mg/Kg wet	1.67		60.6		40-140				
2,6-Dinitrotoluene	1.04	0.34	mg/Kg wet	1.67		62.2		40-140				
Di-n-octylphthalate	1.13	0.34	mg/Kg wet	1.67		67.8		40-140				
1,2-Diphenylhydrazine (as Azobenzene)	0.782	0.34	mg/Kg wet	1.67		46.9		40-140				
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		60.9		40-140				
Fluorene	0.971	0.17	mg/Kg wet	1.67		58.3		40-140				
Hexachlorobenzene	1.18	0.34	mg/Kg wet	1.67		70.9		40-140			V-06	
Hexachlorobutadiene	0.974	0.34	mg/Kg wet	1.67		58.4		40-140				
Hexachlorocyclopentadiene	0.335	0.34	mg/Kg wet	1.67		**20.1**	*	40-140			L-04, J	
Hexachloroethane	0.730	0.34	mg/Kg wet	1.67		43.8		40-140				
Indeno(1,2,3-cd)pyrene	0.819	0.17	mg/Kg wet	1.67		49.2		40-140				
Isophorone	0.838	0.34	mg/Kg wet	1.67		50.3		40-140				
1-Methylnaphthalene	0.902	0.17	mg/Kg wet	1.67		54.1		40-140				
2-Methylnaphthalene	0.923	0.17	mg/Kg wet	1.67		55.4		40-140				
2-Methylphenol	0.776	0.34	mg/Kg wet	1.67		46.6		30-130				
3/4-Methylphenol	0.858	0.34	mg/Kg wet	1.67		51.5		30-130				
Naphthalene	0.865	0.17	mg/Kg wet	1.67		51.9		40-140				
2-Nitroaniline	0.758	0.34	mg/Kg wet	1.67		45.5		40-140				
3-Nitroaniline	0.809	0.34	mg/Kg wet	1.67		48.6		30-140				†
4-Nitroaniline	0.831	0.34	mg/Kg wet	1.67		49.8		40-140				
Nitrobenzene	0.738	0.34	mg/Kg wet	1.67		44.3		40-140				
2-Nitrophenol	0.883	0.34	mg/Kg wet	1.67		53.0		30-130				
4-Nitrophenol	1.12	0.66	mg/Kg wet	1.67		67.2		30-130				
N-Nitrosodimethylamine	0.653	0.34	mg/Kg wet	1.67		**39.2**	*	40-140			L-07	
N-Nitrosodiphenylamine	1.22	0.34	mg/Kg wet	1.67		73.0		40-140				
N-Nitrosodi-n-propylamine	0.766	0.34	mg/Kg wet	1.67		46.0		40-140				
Pentachloronitrobenzene	1.47	0.34	mg/Kg wet	1.67		88.0		40-140			V-06, V-16	
Pentachlorophenol	0.974	0.34	mg/Kg wet	1.67		58.4		30-130				
Phenanthrene	0.998	0.17	mg/Kg wet	1.67		59.9		40-140				
Phenol	0.816	0.34	mg/Kg wet	1.67		49.0		30-130				
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140				
Pyridine	0.343	0.34	mg/Kg wet	1.67		**20.6**	*	30-140			L-04, V-05	†
1,2,4,5-Tetrachlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2		40-140				
1,2,4-Trichlorobenzene	0.953	0.34	mg/Kg wet	1.67		57.2		40-140				
2,4,5-Trichlorophenol	1.01	0.34	mg/Kg wet	1.67		60.3		30-130				
2,4,6-Trichlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B132826 - SW-846 3546											
LCS (B132826-BS1)				Prepared: 10/13/15 Analyzed: 10/14/15							
Surrogate: 2-Fluorophenol	*4.11*		mg/Kg wet	6.67		61.7	30-130				
Surrogate: Phenol-d6	*4.33*		mg/Kg wet	6.67		64.9	30-130				
Surrogate: Nitrobenzene-d5	*2.05*		mg/Kg wet	3.33		61.6	30-130				
Surrogate: 2-Fluorobiphenyl	*2.64*		mg/Kg wet	3.33		79.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.52*		mg/Kg wet	6.67		113	30-130				
Surrogate: p-Terphenyl-d14	*3.31*		mg/Kg wet	3.33		99.2	30-130				
LCS Dup (B132826-BSD1)				Prepared: 10/13/15 Analyzed: 10/14/15							
Acenaphthene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	9.79	30		
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	9.22	30		
Acetophenone	1.18	0.34	mg/Kg wet	1.67		71.1	40-140	15.4	30		
Aniline	0.653	0.34	mg/Kg wet	1.67		39.2	10-140	20.5	50	V-05	† ‡
Anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	6.55	30		
Benzidine	1.51	0.66	mg/Kg wet	1.67		90.4	40-140	4.48	30	V-04, V-05	
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	5.60	30		
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	9.25	30		
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	8.94	30		
Benzo(g,h,i)perylene	0.779	0.17	mg/Kg wet	1.67		46.8	40-140	8.42	30		
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.5	40-140	4.47	30		
Benzoic Acid	0.602	1.0	mg/Kg wet	1.67		36.1	30-130	37.5	50	J	‡
Bis(2-chloroethoxy)methane	0.925	0.34	mg/Kg wet	1.67		55.5	40-140	11.0	30		
Bis(2-chloroethyl)ether	0.882	0.34	mg/Kg wet	1.67		52.9	40-140	13.3	30		
Bis(2-chloroisopropyl)ether	0.726	0.34	mg/Kg wet	1.67		43.6	40-140	14.4	30	V-05	
Bis(2-Ethylhexyl)phthalate	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	1.35	30		
4-Bromophenylphenylether	1.20	0.34	mg/Kg wet	1.67		72.1	40-140	11.2	30		
Butylbenzylphthalate	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	1.91	30		
Carbazole	0.997	0.17	mg/Kg wet	1.67		59.8	40-140	3.57	30		
4-Chloroaniline	0.717	0.66	mg/Kg wet	1.67		43.0	10-140	13.4	30		†
4-Chloro-3-methylphenol	0.960	0.66	mg/Kg wet	1.67		57.6	30-130	7.53	30		
2-Chloronaphthalene	0.923	0.34	mg/Kg wet	1.67		55.4	40-140	10.1	30		
2-Chlorophenol	0.988	0.34	mg/Kg wet	1.67		59.3	30-130	15.3	30		
4-Chlorophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.0	40-140	7.40	30		
Chrysene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	5.09	30		
Dibenz(a,h)anthracene	0.859	0.17	mg/Kg wet	1.67		51.5	40-140	7.12	30		
Dibenzofuran	1.05	0.34	mg/Kg wet	1.67		63.3	40-140	9.12	30		
Di-n-butylphthalate	1.02	0.34	mg/Kg wet	1.67		61.5	40-140	1.84	30		
1,2-Dichlorobenzene	0.950	0.34	mg/Kg wet	1.67		57.0	40-140	15.7	30		
1,3-Dichlorobenzene	0.902	0.34	mg/Kg wet	1.67		54.1	40-140	15.9	30		
1,4-Dichlorobenzene	0.919	0.34	mg/Kg wet	1.67		55.2	40-140	16.5	30		
3,3-Dichlorobenzidine	1.17	0.17	mg/Kg wet	1.67		70.1	20-140	13.0	50		† ‡
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130	10.4	30		
Diethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.3	40-140	5.86	30		
2,4-Dimethylphenol	0.953	0.34	mg/Kg wet	1.67		57.2	30-130	9.76	30		
Dimethylphthalate	1.09	0.34	mg/Kg wet	1.67		65.3	40-140	6.94	30		
4,6-Dinitro-2-methylphenol	0.959	0.34	mg/Kg wet	1.67		57.5	30-130	11.8	30		
2,4-Dinitrophenol	0.775	0.66	mg/Kg wet	1.67		46.5	30-130	15.4	30	V-06, V-19	
2,4-Dinitrotoluene	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	9.16	30		
2,6-Dinitrotoluene	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	9.32	30		
Di-n-octylphthalate	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	2.13	30		
1,2-Diphenylhydrazine (as Azobenzene)	0.854	0.34	mg/Kg wet	1.67		51.2	40-140	8.81	30		
Fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	2.50	30		
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	8.64	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B132826 - SW-846 3546												
LCS Dup (B132826-BSD1)				Prepared: 10/13/15 Analyzed: 10/14/15								
Hexachlorobenzene	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	9.71	30	V-06	
Hexachlorobutadiene	1.15	0.34	mg/Kg wet	1.67		69.2		40-140	16.9	30		
Hexachlorocyclopentadiene	0.413	0.34	mg/Kg wet	1.67		**24.8**	*	40-140	20.9	30	L-04	
Hexachloroethane	0.844	0.34	mg/Kg wet	1.67		50.7		40-140	14.5	30		
Indeno(1,2,3-cd)pyrene	0.901	0.17	mg/Kg wet	1.67		54.1		40-140	9.53	30		
Isophorone	0.928	0.34	mg/Kg wet	1.67		55.7		40-140	10.2	30		
1-Methylnaphthalene	1.00	0.17	mg/Kg wet	1.67		60.0		40-140	10.3	30		
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.2		40-140	9.96	30		
2-Methylphenol	0.893	0.34	mg/Kg wet	1.67		53.6		30-130	14.0	30		
3/4-Methylphenol	0.968	0.34	mg/Kg wet	1.67		58.1		30-130	12.0	30		
Naphthalene	0.986	0.17	mg/Kg wet	1.67		59.1		40-140	13.0	30		
2-Nitroaniline	0.844	0.34	mg/Kg wet	1.67		50.6		40-140	10.7	30		
3-Nitroaniline	0.901	0.34	mg/Kg wet	1.67		54.1		30-140	10.7	30		†
4-Nitroaniline	0.940	0.34	mg/Kg wet	1.67		56.4		40-140	12.4	30		
Nitrobenzene	0.865	0.34	mg/Kg wet	1.67		51.9		40-140	15.9	30		
2-Nitrophenol	1.03	0.34	mg/Kg wet	1.67		61.9		30-130	15.5	30		
4-Nitrophenol	1.15	0.66	mg/Kg wet	1.67		69.0		30-130	2.61	50		‡
N-Nitrosodimethylamine	0.748	0.34	mg/Kg wet	1.67		44.9		40-140	13.6	30		
N-Nitrosodiphenylamine	1.36	0.34	mg/Kg wet	1.67		81.7		40-140	11.2	30		
N-Nitrosodi-n-propylamine	0.863	0.34	mg/Kg wet	1.67		51.8		40-140	11.9	30		
Pentachloronitrobenzene	1.65	0.34	mg/Kg wet	1.67		99.2		40-140	12.0	30	V-06, V-16	
Pentachlorophenol	1.06	0.34	mg/Kg wet	1.67		63.3		30-130	7.98	30		
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.1		40-140	6.81	30		
Phenol	0.953	0.34	mg/Kg wet	1.67		57.2		30-130	15.5	30		
Pyrene	1.18	0.17	mg/Kg wet	1.67		71.0		40-140	6.49	30		
Pyridine	0.416	0.34	mg/Kg wet	1.67		**25.0**	*	30-140	19.1	30	L-04, V-05	†
1,2,4,5-Tetrachlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	13.5	30		
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.4		40-140	11.8	30		
2,4,5-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.1		30-130	7.65	30		
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.3		30-130	10.6	30		
Surrogate: 2-Fluorophenol	*4.81*		mg/Kg wet	6.67		72.2		30-130				
Surrogate: Phenol-d6	*4.76*		mg/Kg wet	6.67		71.4		30-130				
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.33		69.0		30-130				
Surrogate: 2-Fluorobiphenyl	*2.83*		mg/Kg wet	3.33		85.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.76*		mg/Kg wet	6.67		116		30-130				
Surrogate: p-Terphenyl-d14	*3.42*		mg/Kg wet	3.33		103		30-130				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132835 - SW-846 7471										
Blank (B132835-BLK1)				Prepared: 10/13/15 Analyzed: 10/15/15						
Mercury	ND	0.024	mg/Kg wet							
LCS (B132835-BS1)				Prepared: 10/13/15 Analyzed: 10/15/15						
Mercury	7.50	0.83	mg/Kg wet	7.10		106	73.7-126.3			
LCS Dup (B132835-BSD1)				Prepared: 10/13/15 Analyzed: 10/15/15						
Mercury	6.23	0.75	mg/Kg wet	7.10		87.8	73.7-126.3	18.5	30	
Duplicate (B132835-DUP1)		**Source: 15J0524-01**		Prepared: 10/13/15 Analyzed: 10/15/15						
Mercury	0.0291	0.041	mg/Kg dry		0.0231			22.9	35	J
Matrix Spike (B132835-MS1)		**Source: 15J0524-01**		Prepared: 10/13/15 Analyzed: 10/15/15						
Mercury	0.242	0.040	mg/Kg dry	0.270	0.0231	81.0	75-125			
Batch B133239 - SW-846 3050B										
Blank (B133239-BLK1)				Prepared & Analyzed: 10/14/15						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	0.069	0.25	mg/Kg wet							J
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	0.20	0.50	mg/Kg wet							J
LCS (B133239-BS1)				Prepared & Analyzed: 10/14/15						
Arsenic	95.0	4.9	mg/Kg wet	98.5		96.4	77.8-122.1			
Barium	298	4.9	mg/Kg wet	308		96.6	82-117.4			
Cadmium	148	0.49	mg/Kg wet	146		102	81.9-118.2			
Chromium	181	0.97	mg/Kg wet	182		99.7	78.7-120.6			
Lead	122	1.5	mg/Kg wet	130		93.8	82.4-117.8			
Selenium	142	9.7	mg/Kg wet	154		92.2	77.1-122.3			
Silver	36.7	0.97	mg/Kg wet	40.9		89.8	74.3-125.4			
LCS Dup (B133239-BSD1)				Prepared & Analyzed: 10/14/15						
Arsenic	93.6	4.8	mg/Kg wet	98.5		95.1	77.8-122.1	1.41	30	
Barium	287	4.8	mg/Kg wet	308		93.1	82-117.4	3.75	30	
Cadmium	141	0.48	mg/Kg wet	146		96.9	81.9-118.2	4.77	30	
Chromium	178	0.95	mg/Kg wet	182		97.9	78.7-120.6	1.86	30	
Lead	116	1.4	mg/Kg wet	130		89.1	82.4-117.8	5.09	30	
Selenium	140	9.5	mg/Kg wet	154		90.8	77.1-122.3	1.60	30	
Silver	36.4	0.95	mg/Kg wet	40.9		88.9	74.3-125.4	1.01	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132839 - % Solids										
Duplicate (B132839-DUP2)		**Source: 15J0524-01**		Prepared: 10/13/15 Analyzed: 10/14/15						
% Solids	64.3		% Wt		62.3			3.16	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA,NJ
Barium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,AIHA,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8260B in Soil	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA,NJ
Acenaphthylene	CT,NY,NH,ME,NC,VA,NJ
Acetophenone	NY,NH,ME,NC,VA,NJ
Aniline	NY,NH,ME,NC,VA,NJ
Anthracene	CT,NY,NH,ME,NC,VA,NJ

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Analyte	Certifications
SW-846 8270D in Soil	
Benzidine	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA,NJ
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA,NJ
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Benzoic Acid	NY,NH,ME,NC,VA,NJ
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA,NJ
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA,NJ
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA,NJ
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA,NJ
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA,NJ
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA,NJ
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA,NJ
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA,NJ
2-Chloronaphthalene	CT,NY,NH,NC,VA,NJ
2-Chlorophenol	CT,NY,NH,ME,NC,VA,NJ
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA,NJ
Chrysene	CT,NY,NH,ME,NC,VA,NJ
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA,NJ
Dibenzofuran	CT,NY,NH,ME,NC,VA,NJ
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA,NJ
1,2-Dichlorobenzene	NY,NH,ME,NC,VA,NJ
1,3-Dichlorobenzene	NY,NH,ME,NC,VA,NJ
1,4-Dichlorobenzene	NY,NH,ME,NC,VA,NJ
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA,NJ
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA,NJ
Diethylphthalate	CT,NY,NH,ME,NC,VA,NJ
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA,NJ
Dimethylphthalate	CT,NY,NH,ME,NC,VA,NJ
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA,NJ
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA,NJ
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA,NJ
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA,NJ
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA,NJ
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA,NJ
Fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Fluorene	NY,NH,ME,NC,VA,NJ
Hexachlorobenzene	CT,NY,NH,ME,NC,VA,NJ
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA,NJ
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA,NJ
Hexachloroethane	CT,NY,NH,ME,NC,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA,NJ
Isophorone	CT,NY,NH,ME,NC,VA,NJ
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2-Methylphenol	CT,NY,NH,ME,NC,VA,NJ
3/4-Methylphenol	CT,NY,NH,ME,NC,VA,NJ
Naphthalene	CT,NY,NH,ME,NC,VA,NJ
2-Nitroaniline	CT,NY,NH,ME,NC,VA,NJ
3-Nitroaniline	CT,NY,NH,ME,NC,VA,NJ
4-Nitroaniline	CT,NY,NH,ME,NC,VA,NJ
Nitrobenzene	CT,NY,NH,ME,NC,VA,NJ
2-Nitrophenol	CT,NY,NH,ME,NC,VA,NJ
4-Nitrophenol	CT,NY,NH,ME,NC,VA,NJ
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA,NJ
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA,NJ
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA,NJ
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA,NJ
Phenanthrene	CT,NY,NH,ME,NC,VA,NJ
Phenol	CT,NY,NH,ME,NC,VA,NJ
Pyrene	CT,NY,NH,ME,NC,VA,NJ
Pyridine	CT,NY,NH,ME,NC,VA,NJ
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA,NJ
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA,NJ
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA,NJ
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	10/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

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http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

15J0524

Company Name: S&EC
Address: 8412 Falls of Neuse
Raleigh, NC 27615
Attention: Don Wells
Project Location: Stanly Co.
Sampled By: Don Wells

Telephone:
Project # 12680.51
Client PO#

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email:
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8270	8260	8 RCRA Metals	# of Containers	** Preservation	***Container Code
01	Pit 6/7	10-7-15	2:00	X		SS		X	X	X			
02	Pit 12/14	10-7-15	1:45	X		SS		X	X	X			

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: Pit 6/7 sample reacted with the sodium bisulfate solution.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Don Wells	Date/Time: 10/12/15 1425	
Received by: (signature) Brent Podlin	Date/Time: 10/12/15 1425	
Relinquished by: (signature) Brent Podlin	Date/Time: 10/12/15 1735	
Received by: (signature) Paula Bak 4.5	Date/Time: 9:24 10-13-15	

Turnaround ††
O 5-Day
☒ 5-7-Day
O 10-Day
RUSH †
O †24-Hr r †48-Hr
O †72-Hr r †4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
O 2L
O GWPC
O SWSL
O OTHER

Program Information
O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
O Other:

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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IMPORTANT!
Flooding is causing hazardous conditions in South Carolina. Learn More

FedEx ® Tracking

774720189536

Ship date :
Mon 10/12/2015

Raleigh, NC US

Delivered

Signed for by: P.BLAKE

Actual delivery :
Tues 10/13/2015 9:24 am

EAST LONGMEADOW, MA US

2 Piece shipment

Travel History

Date/Time	Activity	Location
10/13/2015 - Tuesday		
9:24 am	Delivered	EAST LONGMEADOW, MA
7:17 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:08 am	At local FedEx facility	WINDSOR LOCKS, CT
5:53 am	At destination sort facility	EAST GRANBY, CT
4:21 am	Departed FedEx location	INDIANAPOLIS, IN
12:06 am	Arrived at FedEx location	INDIANAPOLIS, IN
10/12/2015 - Monday		
9:46 pm	Left FedEx origin facility	DURHAM, NC
5:31 pm	Picked up	RALEIGH, NC
4:26 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	774720189536	**Service**	FedEx Priority Overnight
Master tracking number	774720189536	**Weight**	15 lbs / 6.8 kgs
Dimensions	24x14x15 in.	**Delivered To**	Shipping/Receiving
Total pieces	2	**Total shipment weight**	47 lbs / 21.32 kgs
Shipper reference	80	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

FedEx.

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Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** PB **Date/Time:** 10·13·15 9:24

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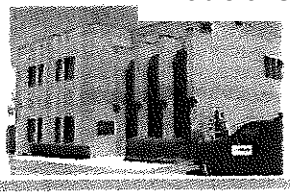

Sample Receipt Checklist

CLIENT NAME: S + EC **RECEIVED BY:** PB **DATE:** 10·13·15

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.5

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	5
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	6	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
Bisulfate 4 # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Site Photographs

Site Photo 1: View of Pit #2, profile shows soil fill and some burnt ash material

Site Photo 2: View of pit #9, soil fill only

Site Photo 3: View of Pit # 12 with buried solid waste debris

Site Photo 4: View of Pit # 14 with buried solid waste debris