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Via Electronic and US Mail

April 15, 2016

Joseph A. Gowers
Remedial Project Manager
Emergency and Remedial Response Division
USEPA Region II
290 Broadway, 19th Floor
New York, New York 10007-1866

Re: Ringwood Mines/Landfill Superfund Site
March 2016 Surface Water Sampling
1,4-dioxane Results

Dear Mr. Gowers:

On March 23, 2016, Cornerstone Engineering Group, LLC, on behalf of Ford Motor Company (Ford), and at the request of the USEPA, collected samples at 10 surface water sampling locations for analysis of 1,4-dioxane. Samples were sent under chain-of-custody to Accutest Laboratories for analysis of 1,4-dioxane using Method 8270 SIM, as discussed previously with the USEPA and NJDEP.

Enclosed are the following:

- Table 1 summarizing the results of the testing for 1,4-dioxane in the surface water samples;
- A drawing showing the locations of the samples with the analytical results annotated adjacent to each location;
- The laboratory data validation report prepared by Cadena; and
- The full Accutest analytical report, which also contains the chain-of-custody documentation.

The results of this surface water sampling event are summarized as follows:

- Eight of the ten samples were non-detect for 1,4-dioxane.

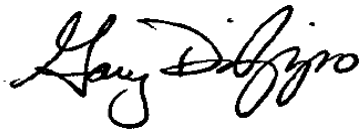
396430

- Two samples had detectable concentrations of 1,4-dioxane: SW-PAB-04 at 0.157 ug/L and SW-PAB-03 at 0.125 ug/L. The NJDEP does not have a surface water quality standard for comparison to these concentrations. As a point of reference, the NJDEP Interim Specific Groundwater Quality Standard for 1,4-dioxane is 0.4 ug/L.

Please contact us if you have questions or comments on the enclosed submittal.

Sincerely,

CORNERSTONE ENGINEERING GROUP, LLC



Gary J. DiPippo, Professional Engineer.
NJ Lic. # 24GE02646100
Region Vice President

Enclosure

cc: B. Bussa, Ford
T. Green, Ford OGC
J. Lagrotteria, LeClairRyan D. Laguzza, LeClairRyan
K. Petrone, NJDEP
Greg Albright, Arcadis
L. Dodge, Excel Environmental Resources, Inc.
R. Harwood, Excel Environmental Resources, Inc.
S. Heck, Borough of Ringwood
W. Monahan, Sedita, Campisano & Campisano
C. Coslett, de maximis

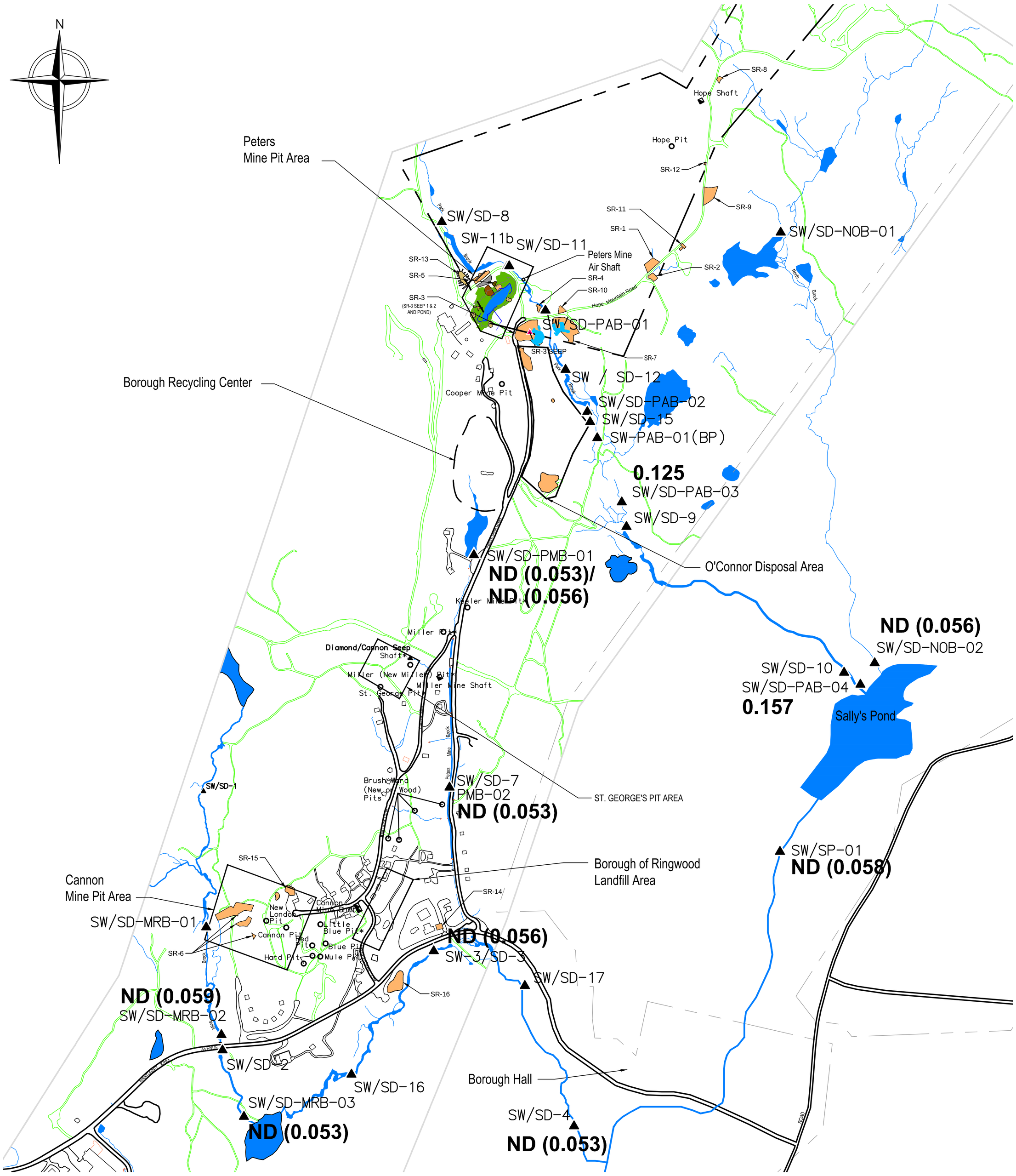
Table 1
Ringwood Mines/Landfill Superfund Site
March 2016 Surface Water Sampling, 1,4-dioxane

NJDEP ISGWQS[3] = 0.4 ug/L
NJDEP SWQS[4] - not established

Sample Location	1,4-dioxane concentration, ug/L
SW-03	ND (0.056)
SW-04	ND (0.053)
SW-MRB-02	ND (0.059)
SW-MRB-03	ND (0.059)
SW-NOB-02	ND (0.056)
SW-PAB-03	0.125
SW-PAB-04	0.157
SW-PMB-01	ND (0.053)
SW-PMB-01(DUP)	ND (0.056)
SW-PMB-02	ND (0.053)
SW-SP-01	ND (0.059)

Notes:

1. ND - Non-detect, number in parentheses = detection limit
2. Samples collected March 23, 2016
3. NJDEP ISGWQS = the Interim Specific Groundwater Quality Standard, effective 11/25/15
4. NJDEP SWQS = the Surface Water Quality Standard (not established)



NOTES:

1. MAP SOURCE: "SITE PLAN DEPICITING TOPOGRAPHIC FEATURES," RINGWOOD MINES/LANDFILL SITE, SITE RELATED GROUNDWATER REMEDIAL INVESTIGATION REPORT, MAP LATEST REVISION DATE 11/24/14.
2. SURFACE WATER SAMPLES COLLECTED ON MARCH 23, 2016.
3. THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DOES NOT HAVE A SURFACE WATER QUALITY STANDARD FOR 1,4-DIOXANE.
4. THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION INTERIM SPECIFIC GROUNDWATER QUALITY STANDARD FOR 1,4-DIOXANE IS 0.4 ug/l, EFFECTIVE 11/25/15.

LEGEND:

ND (0.053)	NON-DETECT (DETECTION LIMIT)
0.157	1,4 DIOXANE CONCENTRATION ug/l
	APPROXIMATE LIMITS OF REMOVAL AREAS – SOIL, PAINT SLUDGE, AND DRUM REMNANTS
	APPROXIMATE LIMITS OF REMOVAL AREA – SOIL AND DRUM REMNANTS
	APPROXIMATE LIMITS OF REMOVAL AREA – SOIL, DRUMS, AND DRUM REMNANTS
	APPROXIMATE LIMITS OF REMOVAL AREAS – SOIL AND PAINT SLUDGE
	APPROXIMATE LIMITS OF SURFICIAL SOIL SCRAPING
	HISTORICAL FILL AREA SURROUNDING PETERS MINE PIT (AREA 1)
	INDICATES VERNAL CONDITIONS TYPICALLY OBSERVED IN THE SPRING AND FALL SEASONS
	WATER BODY
SW/SD-2 ▲	SURFACE WATER AND SEDIMENT – SAMPLE LOCATION
SW/SD-MRB-01 ▲	SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM MINE BROOK
SW/SD-PMB-01 ▲	SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM PETERS MINE BROOK
SW/SD-NOB-01 ▲	SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM NORTH BROOK
SW/SD-PAB-01 ▲	SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM PARK BROOK
	TRAIL/ DIRT ROAD
	STREAM
	INFERRED STREAM
	TOP OF SLOPE TO MINE PIT WITHIN PETERS MINE PIT, ELEVATION 525 FT MSL (1961)
	TOP OF BEDROCK PIT WITHIN PETERS MINE PIT

400 200 0 400 800 1200

SCALE: 1"=400'

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 04/16 DRAWN BY ____ DESIGNED BY ____ CHECKED BY ____ APPROVED BY ____

cornerstone environmental

PREPARED BY:
CORNERSTONE ENGINEERING GROUP, LLC

Any modification to this drawing by other than Cornerstone Engineering Group, LLC personnel violates its original purpose and as such renders the drawing void. Cornerstone Engineering Group, LLC will not be held liable for any changes made to this document without the express written consent of the originator.

RINGWOOD MINES/LANDFILL SUPERFUND SITE
RINGWOOD, NEW JERSEY

MARCH 2016 1,4-DIOXANE SURFACE WATER SAMPLING LOCATION PLAN

SHEET NO. 1

PROJECT NO. 150648

E-Mail Date: 2016-04-11
E-Mail To: tim.roeper@cornerstoneeg.com
cc:

U.S. Mail: Tim Roeper
Cornerstone Environmental Group
100 Crystal Run Road, Suite 101
Middletown, NY 10941

ANALYTICAL DATA VALIDATION REPORT
Ringwood Mines/Landfill
Ford Motor Company
CLIENT PROJECT NUMBER – 150648-007
CADENA PROJECT E203361
SAMPLES COLLECTED March 2016
SUBMITTAL #: JC16817-1

PREPARED BY:
CADENA, INC.
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Contact: Jim Tomalia (jtomalia@cadenaco.com)
Date: 2016-04-11
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(Following Text)

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ATTACHMENT A CHAIN OF CUSTODY DOCUMENT(S)

1.0 INTRODUCTION

The following document details an assessment of the analytical data reported by Accutest-Dayton New Jersey Laboratory the data in the submittals listed below which were collected from the Ringwood Mines/Landfill site as noted. A sampling and analysis summary that lists all sample ID's and testing as related to the laboratory submittal numbers is presented in Appendix 1. A summary of all of the analytical data is presented in Appendix 3. Copies of sample Chain of Custody (COC) documents and cooler receipt forms for samples discussed in this report are included in Attachment A.

Table 1.1

Laboratory Submittal	***Sample Date***	***Laboratory Receipt Date***
JC16817-1	2016-03-23	2016-03-23

The samples noted below were validated against the associated method/parameter in order to achieve the validation requirements for this SDG:

Table 1.2

Parameter	***Reference Method***	***Analyte Listing***
Semi-Volatile Organics	OSW-8270D/SIM	1,4-Dioxane

All "SW" analytical methods were referenced from "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", Third Edition, November 1986 (with all subsequent revisions). The "SM" analytical method was referenced from the "Standard Methods for the Examination of Water and Waste water", latest promulgated revision. "EPA" methods were referenced from the revisions noted.

Laboratory Standard Operating Procedures (SOPs) associated with the methods utilized for this laboratory submittal were not available to CADENA for the purpose of validating this SDG.

Level IV data review provides a comprehensive or extensive review of the analytical data allowing for the complete reconstruction of the chemical analysis. A Level IV (Tier 3) data review was performed on the samples listed in Table 1.2 above by (CADENA).

All of the data that was recalculated was consistent with the reported results to within at least 2 significant figures. Final results may not recalculate exactly beyond this level of precision, in some cases, due to differences in available significant figures between the hardcopy raw data provided and the data utilized for calculations by the laboratory that came directly from the instrument. A table of the laboratory documents reviewed in preparing this report is included in Appendix 2.

The data was reviewed in accordance with the analytical methods and the documents listed below: (NOTE: laboratory criteria – control limits – were utilized to evaluate the data where available. Comparison to NFG criteria are noted when lab criteria was not available or for informational purposes when lab data exceeds NFG criteria).

i.) "Standard Operating Procedure HW-6 Rev12 March 2001: CLP Organics Data Review and Preliminary Review" USEPA Region 2 as identified in project QAPP.

ii.) "Standard Operating Procedure HW-2, Rev11, Jan 1992: Evaluation of Metals Data for the CLP Program" as identified in the project QAPP.

The Level VI review findings are presented in the following subsections.

An overview of the review findings is presented in table format. Several data qualifier flags were utilized in the review process. The definitions of these qualifier flags are as follows:

- J Indicates an estimated value.
- U Indicates the compound or analyte was analyzed for, but not detected at or above the stated limit.
- UJ The analyte/compound was not detected above the reported sample quantitation limit. However, the quantitation limit is considered to be approximate due to associated quality assurance results.
- UB The analyte was detected in the sample at a level between the MDL and RDL. For organics the sample concentration for common lab contaminates was less than 10 times the blank concentration or 5 times for other organic compounds and for inorganics the sample concentration was less than 10 times the blank concentration. The sample result should be considered non-detect at the reporting limit.
- B The analyte was detected in the sample at a level above the RDL. For organics the sample concentration for common lab contaminates was less than 10 times the blank concentration or 5 times for other organic compounds and for inorganics the sample concentration was less than 10 times the blank concentration. The sample result should be considered non-detect at the concentration reported.
- R The analyte/compound results were rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte/compound cannot be verified.

All flags have been incorporated into the data tables in this report.

1.1 VALIDATION QUALIFIER EXECUTIVE SUMMARY

VALIDATION SUMMARY

GCMS SVOC/SIM
No additional qualifications were made beyond those determined from level 2 verification review as noted below.

The following observations **DID NOT** result in qualification but were noted during the validation review:
GCMS SVOC-SIM
Sample -002 was used for MS/MSD QC source sample as requested on sample COC but recovery results were not included with original level 2 report. Sample -002 MS/MSD recoveries were calculated from raw level 4 data and were acceptable.

Total Ion Profile results for client samples -002 and -011 (only samples to have detections for 1,4-dioxane) showed secondary ion in subtracted ion profile to be outside of method criteria. Raw ion profile secondary ion responses were within method criteria so ion bias was considered to be due to low sample concentrations (results just above RL).

VERIFICATION SUMMARY
The following qualifications and associated data flags were applied based on the initial level 2 review of this data package.

There were no significant QC anomalies or exceptions to report.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

2.0 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) – METHOD SW846 8270D and SIM analysis

The target analyte list was defined by the client-project as 1,4-dioxane.

3.1 CALIBRATION – GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) SVOCs

2.1.1 TUNING AND MASS CALIBRATION – GC/MS SVOCs

Tuning compounds (Bromofluorobenzene or BFB) were analyzed at the required frequency and met the tuning criteria specified in the method without exception.

2.1.2 INITIAL CALIBRATION – GC/MS SVOCs

Initial calibration data for SVOCs were reviewed and met the criteria for instrument sensitivity and linearity of response unless noted otherwise in verification/validation summary.

2.1.3 INITIAL CALIBRATION VERIFICATION – GC/MS SVOCs

Initial calibration verification (ICV) standards for SVOC analyses were reviewed and met criteria specified by the laboratory with no exceptions.

2.2 CONTINUING CALIBRATION – GC/MS SVOCs

Continuing calibration standards were analyzed at the required frequency and the results met the criteria for instrument sensitivity and linearity of response unless noted otherwise in verification/validation summary

2.3 INTERNAL STANDARDS – GC/MS SVOCs

Internal standard (IS) data were reviewed and met criteria without exception.

2.4 SURROGATE SPIKE RECOVERIES – GC/MS SVOCs

If surrogate recoveries are outside of established control limits, presumably due to matrix effects, these interferences must be confirmed by sample re-analysis or other acceptable standard techniques.

If in order to overcome sample matrix interferences or to quantitate elevated target compound levels for an investigative sample, the surrogate results are diluted to below the laboratories limits of quantitation, these surrogate results will not be utilized to qualify data.

All surrogate recoveries were within the established laboratory control limits unless noted otherwise in verification/validation summary.

2.5 LABORATORY CONTROL SAMPLE ANALYSES - GC/MS SVOCs

A laboratory control sample (LCS) was prepared and analyzed for SVOCs. The LCS recoveries were within the laboratory control limits for all compounds of interest unless noted otherwise in verification/validation summary.

2.6 MATRIX SPIKE/MATRIX-SPIKE-DUPLICATE ANALYSES - GC/MS SVOCs

The MS/MSD recoveries and RPD's were within the laboratory control limits for all compounds of interest unless noted otherwise in verification/validation summary.

CADENA does not have enough information regarding the nature and consistency of the investigative field samples to apply the valid qualifiers to additional samples beyond the parent sample for the MS/MSD outlier. The end data user must determine whether or not to extend qualification based on knowledge of the investigative field samples and project requirements.

2.7 FIELD QA/QC – FIELD DUPLICATE ANALYSES - GC/MS SVOCs

There were no field duplicate comparisons performed as part of this validation request.

2.8 TARGET COMPOUNDS AND REQUIRED LIMITS OF DETECTION - GC/MS SVOCs

All target analytes were reported based on comparison to project-specific criteria. Potential non-conformances with project requirements are noted below:

2.9 COMPOUND IDENTIFICATION AND QUANTITATION - GC/MS SVOCs

All laboratory target compound identifications and quantitation for the client samples reviewed were acceptable without exception.

2.10 TENTATIVELY IDENTIFIED COMPOUNDS - GC/MS SVOCs

Not required for this sampling event or laboratory submittal.

2.11 BLANKS – METHOD/FIELD/CALIBRATION - GC/MS SVOCs

The method blank results for samples from the SDG covered in this evaluation were all non-detect at the method detection limit unless noted otherwise in verification/validation summary.

3.0 REPRESENTATIVENESS EVALUATION

Representativeness is a qualitative evaluation of whether the data represents actual environmental conditions. Representativeness was evaluated using holding time criteria, which reflect the length of time after sample collection that a sample or extract remains representative of environmental conditions. Depending on the analysis, either one or two holding times were evaluated.

i.) For those analyses that do not include a sample extraction, only one holding time was evaluated: the length of time between sample collection and analysis.

ii.) For analyses that require sample extraction prior to analysis, two holding times were evaluated: the length of time from sampling until extraction and the length of time from extraction to analysis.

Holding times are compared to standard method specific holding times accepted or recommended by the United States Environmental Protection Agency (USEPA). Those holding times outside of USEPA acceptance criteria are qualitatively evaluated to determine their effect on sample representativeness.

Representativeness was also evaluated by analysis of laboratory method blanks and field equipment blanks. Laboratory method blanks and field equipment blanks are used to identify sources of contamination not associated with environmental conditions.

3.1 SAMPLE PRESERVATION AND HOLDING TIMES

Sample holding time and preservation requirements are summarized in Appendix 5.

All sample extractions and/or analyses were performed within the specified holding times unless noted otherwise in verification/validation summary.

All samples were properly preserved and cooled to 0-6ºC after collection.

3.2 METHOD BLANK SUMMARY

The method blank results for samples from the SDG covered in this evaluation were all non-detect at the method detection limit unless noted otherwise in verification/validation summary.

Evaluation of blank contamination includes directions on the interpretation of the affected analytical results.

4.0 USABILITY AND COMPARABIILTY

Usability of data was evaluated by assuring that all the analytical requests were met, samples were received in the proper condition, and all analyses were performed within the appropriate holding times unless noted otherwise in verification/validation summary

No data evaluated within this delivery group was considered unusable (qualified with an R flag) due to sample integrity, sample matrix interference or batch quality control issues unless noted otherwise in verification/validation summary.

5.0 QC SUMMARY

All sample results meet the project specific QAPP standard for usability with exceptions defined by validation and verification qualifiers as applied. Please reference the following tables for a summary of the investigative field sample data and their valid qualifiers based on Level 4 technical review of the analytical data.

APPENDIX 1

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203361
Laboratory: Accutest Laboratories-Dayton
Laboratory Submittal: JC16817

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	OSW-8270D
JC16817-1	SW-NOB-02-032316	3/23/2016	8:30:00	X
JC16817-10	DUP-01-032316	3/23/2016	12:00:00	X
JC16817-11	SW-PAB-03-032316	3/23/2016	12:10:00	X
JC16817-2	SW-PAB-04-032316	3/23/2016	8:40:00	X
JC16817-3	SW-SP-01-032316	3/23/2016	9:05:00	X
JC16817-4	SW-04-032316	3/23/2016	9:55:00	X
JC16817-5	SW-03-032316	3/23/2016	10:15:00	X
JC16817-6	SW-MRB-03-032316	3/23/2016	10:50:00	X
JC16817-7	SW-MRB-02-032316	3/23/2016	11:05:00	X
JC16817-8	SW-PMB-02-032316	3/23/2016	11:25:00	X
JC16817-9	SW-PMB-01-032316	3/23/2016	11:40:00	X

APPENDIX 2

TABLE 2
LABORATORY DOCUMENTS SUBMITTED FOR REVIEW
Ford Ringwood Mines
E203361
March 2016

SDG	Description
JC16817-1	Cover Page for Technical Report
	Table of Contents
	Sample Summary
	Case Narrative/Conformance Summary
	Summary of Hits
	Sample Results (Level 2 report)
	Miscellaneous Forms
	Chain of Custody
	Sample Tracking Chronicle
	Internal Chain of Custody
	GC/MS Semi-Volatiles - QC Data Summaries
	Method Blank Summary
	Blank Spike Summary
	MS/MSD Summary
	Tune Checks
	Internal Standard Area Summaries
	Surrogate Recovery Summaries
	Initial and Continuing Calibration Summaries
	GC/MS Semi-Volatiles Raw Data
	Samples, Method blanks, Blank spikes, MS/MSD
	Chromatograms
	Quantitation Reports
	Ion profiles of detected target analyte peaks
	Manual integration comparisons (if applicable)
	Instrument Performance Checks (DFTPP, pentachlorophenol, benzidine)
	Initial and Continuing Calibrations
	Instrument Run Logs
	Prep Logs

APPENDIX 3

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JC16817

		Sample Name:	SW-NOB-02-032316				DUP-01-032316				SW-PAB-03-032316				SW-PAB-04-032316				SW-SP-01-032316				SW-04-032316			
		Lab Sample ID:	JC16817-1				JC16817-10				JC16817-11				JC16817-2				JC16817-3				JC16817-4			
		Sample Date:	3/23/2016				3/23/2016				3/23/2016				3/23/2016				3/23/2016				3/23/2016			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS SVOC																										
OSW-8270D																										
1,4-Dioxane	123-91-1	ND	0.11	ug/l	---	ND	0.11	ug/l	---	0.125	0.11	ug/l	---	0.157	0.10	ug/l	---	ND	0.11	ug/l	---	ND	0.10	ug/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JC16817

		Sample Name:	SW-03-032316				SW-MRB-03-032316				SW-MRB-02-032316				SW-PMB-02-032316				SW-PMB-01-032316			
		Lab Sample ID:	JC16817-5				JC16817-6				JC16817-7				JC16817-8				JC16817-9			
		Sample Date:	3/23/2016				3/23/2016				3/23/2016				3/23/2016				3/23/2016			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS SVOC																					
OSW-8270D																					
1,4-Dioxane	123-91-1	ND	0.11	ug/l	---	ND	0.11	ug/l	---	ND	0.11	ug/l	---	ND	0.10	ug/l	---	ND	0.10	ug/l	---

APPENDIX 4

NOT REQUIRED FOR THIS SUBMITTAL

APPENDIX 5

EPA Sample Holding Time and Preservation Requirements

Parameter	***Reference Method***	***Matrix***	***Preservation & Storage***	***Holding Times***
Semi-volatile Organics by GCMS	OSW-8270D-SIM	Water	Refrigeration 0-6$_o$C	7days Extraction 40 days Analysis

ATTACHMENT A

CHAIN OF CUSTODY DOCUMENT(S)

SGS ACCUTEST

SW

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: JC16817

Client / Reporting Information

Company Name: Cornerstone Env. Group
Street Address: 100 Crystal Run Rd Suite 101
City State Zip: Middletown, NY 10941
Project Contact: Tim Roeper
E-mail:
Phone #: 845-645-0200
Fax #:
Sampler(s) Name(s): Dan Wheeler 845-800-7873
Phone #:

Project Information

Project Name: FORD MOTOR - RINGWOOD MINE/LANDFILL
Street: Peter's Mine Rd
City State: Ringwood NJ
Project #: 150648-007
Client Purchase Order #:
Project Manager: Tim Roeper

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet): B8270SIM14D10X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8270SIM14D10X	LAB USE ONLY
1	SW-NOB-02-032316		03/23/16	0830	DW	SW	2					X				X	
2	SW-PAB-04-032316-MS/MSD		03/23/16	0840	DW	SW	6					X				X	E41
3	SW-SP-01-032316		03/23/16	0905	DW	SW	2					X				X	
4	SW-04-032316		03/23/16	0955	DW	SW	2					X				X	
5	SW-03-032316		03/23/16	1015	DW	SW	2					X				X	
6	SW-MRB-03-032316		03/23/16	1050	DW	SW	2					X				X	
7	SW-MRB-02-032316		03/23/16	1105	DW	SW	2					X				X	
8	SW-PMB-02-032316		03/23/16	1125	DW	SW	2					X				X	
9	SW-PMB-01-032316		03/23/16	1140	DW	SW	2					X				X	
10	DUP-01-032316		03/23/16	1200	DW	SW	2					X				X	
11	SW-PAB-03-032316		03/23/16	1210	DW	SW	2					X				X	

INITIAL ASSESSMENT IB OB
LABEL VERIFICATION

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Daniel Wheeler	03/23/16 / 1310	1	2	3/23/16 12:17	2
Relinquished by Sampler: 3	Date Time:	3	4	Date Time:	4 3.1 CTP
Relinquishedby: 5	Date Time:	5	Custody Seal # / Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp. 1.0 CTP

JC16817: Chain of Custody
Page 1 of 2

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

150648-007

SGS Accutest Job Number: JC16817

Sampling Date: 03/23/16

Report to:

Cornerstone Environmental Group, LLC

tim.roeper@cornerstoneeg.com

ATTN: Tim Roeper

Total number of pages in report: 20

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Mayur Patel 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

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Sample Summary

Cornerstone Environmental Group, LLC

Job No: JC16817

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Project No: 150648-007

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC16817-1	03/23/16	08:30	DW	03/23/16	AQ	Surface Water	SW-NOB-02-032316
JC16817-2	03/23/16	08:40	DW	03/23/16	AQ	Surface Water	SW-PAB-04-032316
JC16817-2D	03/23/16	08:40	DW	03/23/16	AQ	Water Dup/MSD	SW-PAB-04-032316 MSD
JC16817-2S	03/23/16	08:40	DW	03/23/16	AQ	Water Matrix Spike	SW-PAB-04-032316 MS
JC16817-3	03/23/16	09:05	DW	03/23/16	AQ	Surface Water	SW-SP-01-032316
JC16817-4	03/23/16	09:55	DW	03/23/16	AQ	Surface Water	SW-04-032316
JC16817-5	03/23/16	10:15	DW	03/23/16	AQ	Surface Water	SW-03-032316
JC16817-6	03/23/16	10:50	DW	03/23/16	AQ	Surface Water	SW-MRB-03-032316
JC16817-7	03/23/16	11:05	DW	03/23/16	AQ	Surface Water	SW-MRB-02-032316
JC16817-8	03/23/16	11:25	DW	03/23/16	AQ	Surface Water	SW-PMB-02-032316
JC16817-9	03/23/16	11:40	DW	03/23/16	AQ	Surface Water	SW-PMB-01-032316
JC16817-10	03/23/16	12:00	DW	03/23/16	AQ	Surface Water	DUP-01-032316
JC16817-11	03/23/16	12:10	DW	03/23/16	AQ	Surface Water	SW-PAB-03-032316

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Cornerstone Environmental Group, LLC	**Job No**	JC16817
Site:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ	**Report Date**	4/6/2016 10:25:13 AM

On 03/23/2016, 11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 3.5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC16817 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP92554A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC16812-2MS, JC16812-2MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JC16817
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 03/23/16

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC16817-1	**SW-NOB-02-032316**					
No hits reported in this sample.						
JC16817-2	**SW-PAB-04-032316**					
1,4-Dioxane		0.157	0.10	0.053	ug/l	SW846 8270D BY SIM
JC16817-3	**SW-SP-01-032316**					
No hits reported in this sample.						
JC16817-4	**SW-04-032316**					
No hits reported in this sample.						
JC16817-5	**SW-03-032316**					
No hits reported in this sample.						
JC16817-6	**SW-MRB-03-032316**					
No hits reported in this sample.						
JC16817-7	**SW-MRB-02-032316**					
No hits reported in this sample.						
JC16817-8	**SW-PMB-02-032316**					
No hits reported in this sample.						
JC16817-9	**SW-PMB-01-032316**					
No hits reported in this sample.						
JC16817-10	**DUP-01-032316**					
No hits reported in this sample.						
JC16817-11	**SW-PAB-03-032316**					
1,4-Dioxane		0.125	0.11	0.056	ug/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SW-NOB-02-032316		
Lab Sample ID:	JC16817-1	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60305.D	1	03/29/16	LK	03/29/16	OP92554A	E3M2829
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		24-125%
321-60-8	2-Fluorobiphenyl	63%		19-127%
1718-51-0	Terphenyl-d14	73%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-PAB-04-032316		
Lab Sample ID:	JC16817-2	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60306.D	1	03/29/16	LK	03/29/16	OP92554A	E3M2829
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.157	0.10	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		24-125%
321-60-8	2-Fluorobiphenyl	63%		19-127%
1718-51-0	Terphenyl-d14	72%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-SP-01-032316		
Lab Sample ID:	JC16817-3	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60307.D	1	03/29/16	LK	03/29/16	OP92554A	E3M2829
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		24-125%
321-60-8	2-Fluorobiphenyl	65%		19-127%
1718-51-0	Terphenyl-d14	71%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-04-032316		
Lab Sample ID:	JC16817-4	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60308.D	1	03/29/16	LK	03/29/16	OP92554A	E3M2829
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		24-125%
321-60-8	2-Fluorobiphenyl	67%		19-127%
1718-51-0	Terphenyl-d14	71%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-03-032316		
Lab Sample ID:	JC16817-5	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60309.D	1	03/29/16	LK	03/29/16	OP92554A	E3M2829
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		24-125%
321-60-8	2-Fluorobiphenyl	75%		19-127%
1718-51-0	Terphenyl-d14	77%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-MRB-03-032316		
Lab Sample ID:	JC16817-6	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60310.D	1	03/29/16	LK	03/29/16	OP92554A	E3M2829
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		24-125%
321-60-8	2-Fluorobiphenyl	74%		19-127%
1718-51-0	Terphenyl-d14	77%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-MRB-02-032316		
Lab Sample ID:	JC16817-7	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60320.D	1	03/30/16	LK	03/29/16	OP92554A	E3M2830
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		24-125%
321-60-8	2-Fluorobiphenyl	62%		19-127%
1718-51-0	Terphenyl-d14	75%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-PMB-02-032316		
Lab Sample ID:	JC16817-8	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60321.D	1	03/30/16	LK	03/29/16	OP92554A	E3M2830
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		24-125%
321-60-8	2-Fluorobiphenyl	61%		19-127%
1718-51-0	Terphenyl-d14	72%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-PMB-01-032316		
Lab Sample ID:	JC16817-9	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60322.D	1	03/30/16	LK	03/29/16	OP92554A	E3M2830
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		24-125%
321-60-8	2-Fluorobiphenyl	65%		19-127%
1718-51-0	Terphenyl-d14	77%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-01-032316		
Lab Sample ID:	JC16817-10	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60323.D	1	03/30/16	LK	03/29/16	OP92554A	E3M2830
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		24-125%
321-60-8	2-Fluorobiphenyl	65%		19-127%
1718-51-0	Terphenyl-d14	73%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-PAB-03-032316		
Lab Sample ID:	JC16817-11	**Date Sampled:**	03/23/16
Matrix:	AQ - Surface Water	**Date Received:**	03/23/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M60324.D	1	03/30/16	LK	03/29/16	OP92554A	E3M2830
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.125	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		24-125%
321-60-8	2-Fluorobiphenyl	69%		19-127%
1718-51-0	Terphenyl-d14	76%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

SW

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: JC16817

Client / Reporting Information

Company Name: Cornerstone Env. Group
Street Address: 100 Crystal Run Rd Suite 101
City State Zip: Middletown, NY 10941
Project Contact: Tim Roeper
E-mail:
Phone #: 845-645-0200
Fax #:
Sampler(s) Name(s): Dan Wheeler 845-800-7873
Phone #:

Project Information

Project Name: FORD MOTOR - RINGWOOD MINE/LANDFILL
Street: Peter's Mine Rd
City State: Ringwood NJ
Project #: 150648-007
Client Purchase Order #:
Project Manager: Tim Roeper

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet): B8270SIM14D10X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8270SIM14D10X	LAB USE ONLY
1	SW-NOB-02-032316		03/23/16	0830	DW	SW	2					X				X	
2	SW-PAB-04-032316-MS/MSD		03/23/16	0840	DW	SW	6					X				X	E41
3	SW-SP-01-032316		03/23/16	0905	DW	SW	2					X				X	
4	SW-04-032316		03/23/16	0955	DW	SW	2					X				X	
5	SW-03-032316		03/23/16	1015	DW	SW	2					X				X	
6	SW-MRB-03-032316		03/23/16	1050	DW	SW	2					X				X	
7	SW-MRB-02-032316		03/23/16	1105	DW	SW	2					X				X	
8	SW-PMB-02-032316		03/23/16	1125	DW	SW	2					X				X	
9	SW-PMB-01-032316		03/23/16	1140	DW	SW	2					X				X	
10	DUP-01-032316		03/23/16	1200	DW	SW	2					X				X	
11	SW-PAB-03-032316		03/23/16	1210	DW	SW	2					X				X	

INITIAL ASSESSMENT IB OB
LABEL VERIFICATION

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Daniel Wheeler	03/23/16 / 1310	1	2	3/23/16 12:17	2
Relinquished by Sampler: 3	Date Time:	3	4	Date Time:	4 3.1 CTP
Relinquishedby: 5	Date Time:	5	Custody Seal # / Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp. 1.0 CTP

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SGS Accutest Sample Receipt Summary

Job Number: JC16817 **Client:** _____ **Project:** _____

Date / Time Received: 3/23/2016 5:17:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1); Cooler 2: (1.0); Cooler 3: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.5); Cooler 2: (1.4); Cooler 3: (3.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	3		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

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