cornerstone
environmental

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Via Electronic and US Mail

May 19, 2015

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
April 2015 Supplemental Groundwater and Surface Water Sampling

Dear Mr. Gowers:

On April 20-22 and 24, 2015, Cornerstone Engineering Group, LLC, on behalf of Ford Motor Company (Ford), completed a supplemental sampling event for groundwater and surface water to aid in the assessment of a benzene concentration reported in Well RW-6 from the March 2015 sampling event in wells down-gradient of the Peters Mine Pit (PMP). Consistent with previous sampling events at the Site, samples collected by Cornerstone on behalf of Ford were submitted under chain of custody to Accutest Laboratories in Dayton, NJ.

On behalf of the Borough of Ringwood (Borough), Excel Environmental Resources, Inc. (Excel) collected split samples at all groundwater and surface water locations. Samples collected by Excel on behalf of the Borough were submitted under chain of custody to Test America in Edison, NJ.

Groundwater samples were collected using the low-flow sampling methodology. Field sampling data sheets are attached for reference. Samples were analyzed for the Target Compound List (TCL) volatile organic compounds (VOCs) plus the next 15 tentatively identified compounds (TICs). Groundwater samples were also analyzed for the major cations and anions.

The results of this supplemental sampling event may be summarized as follows:

- Concentrations of VOCs in groundwater, including benzene, were at low levels consistent with historical concentrations in both sets of samples with a strong correlation between the split sample data sets. VOC TICs were also reported at certain well locations at similar historical concentrations.

- Piper and Stiff diagrams (attached) show that the groundwater is of similar geochemistry throughout the sampling area. The Piper and Stiff diagrams were plotted using half the detection limit, when a constituent was shown as non-detect. Also, filtered results were used as these are considered more representative of groundwater quality, although there were nominal differences between filtered and unfiltered samples. The Piper and Stiff diagrams are similar to the plots prepared from the Remedial Investigation data also indicating consistency of the geochemistry over time.
- There were no VOCs reported in surface water samples collected from the PMP Pond or within the adjacent Park Brook and trace VOCs reported in the SR-3 Seep sample consistent with historical concentrations.

This supplemental sampling event included the following:

- Groundwater sampling from PMP Area monitoring wells RW-6, RW-6A, RW-7, OB-11R, OB-20A, OB-20B, OB-21, OB-27, and SC-01.
- Groundwater sampling from the 50′, 180′, and 230′ depth intervals in the PMP Air Shaft.
- Surface water sampling at the PMP Pond, SR-3 Seep, and Park Brook locations PAB-00, PAB-01, and PAB-01A.
- Quality controls samples including a field blank, a blind duplicate (collected at well SC-01), and five trip blanks.

The sampling locations are shown on the attached figure excerpted from Attachment 1 of the *Remedial Investigation Report for the Peters Mine Pit Area*, prepared by Arcadis, July 2012.

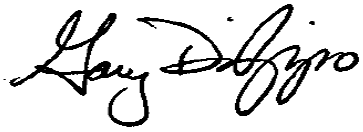
A total of six summary tables are attached: (1) a summary of the data set from Cornerstone's April sampling, (2) a table summarizing surface water results from Excel's April split sampling, (3) three tables summarizing the groundwater analytical results from Excel's April split sampling, and (4) an update of Table 13 from the *Draft Site-Related Groundwater RI Report, prepared by Arcadis, dated January 2015* for the on-going groundwater RI work which provides comparative historical data. Laboratory reports showing the analytical results and chain of custody are also attached for reference. The full laboratory reports for Accutest and Test America will be provided under separate cover on CD. Data validation of the Accutest results was performed by Cadena, and the data validation reports are attached for reference. Data validation of the Test America results was conducted by Excel.

The next supplemental sampling event is scheduled for June 1-3, 2015. The wells planned to be sampled for this next event include RW-6, RW-6A, OB-11R, OB-20A, OB-20B, OB-27, and SC-01. In addition, samples will be collected from the PMP Air Shaft at the 50′, 180′, and 230′ depth intervals and at surface water locations PMP Pond, SR-3 Seep, and Park Brook locations PAB-00, PAB-01, and PAB-01. The planned chemical analysis for all samples is VOCs plus the next 15 TICs.

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

Sincerely,

CORNERSTONE ENGINEERING GROUP, LLC

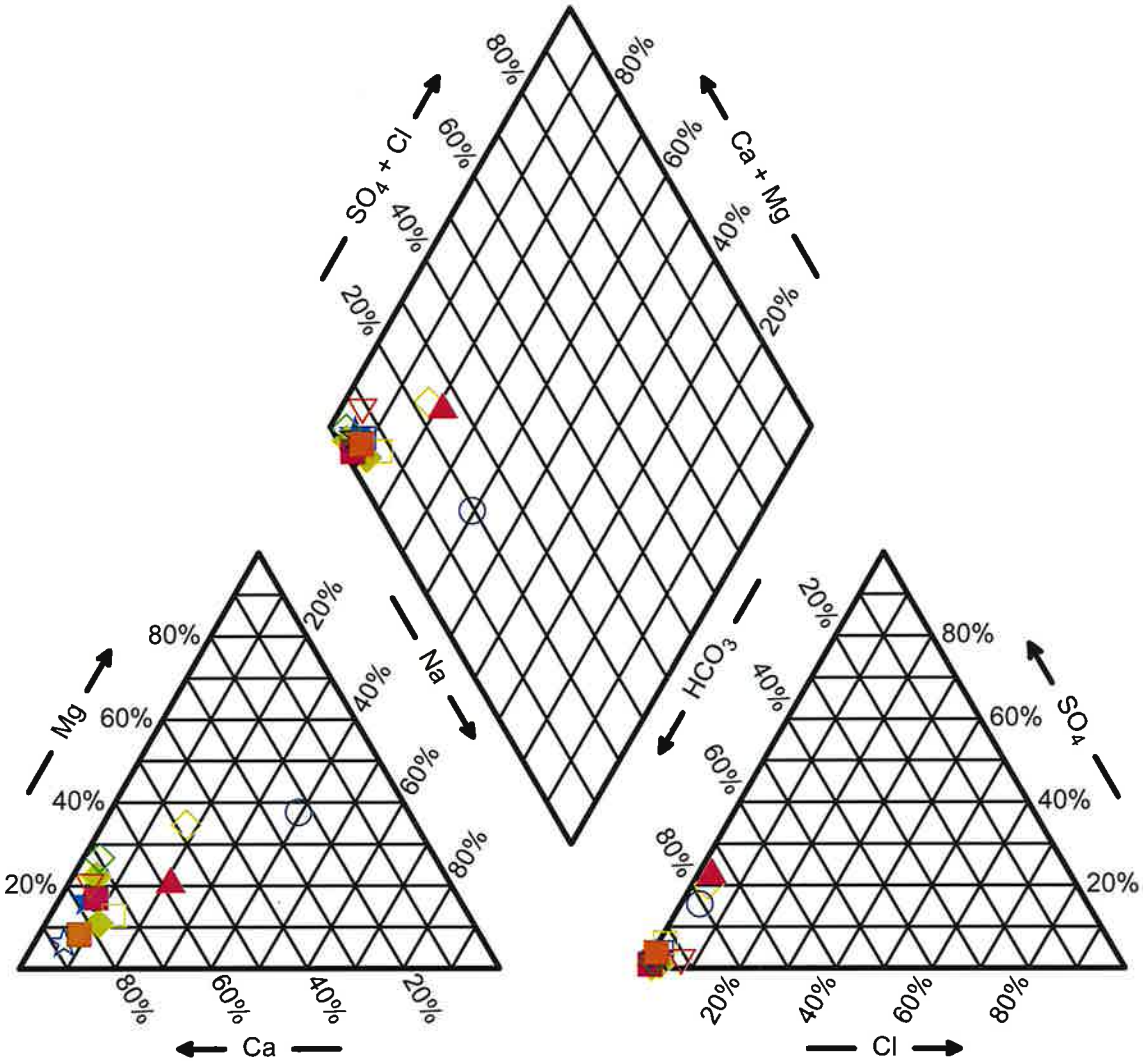


Gary J. DiPippo, Professional Engineer.
NJ Lic. # 24GE02646100
Region Vice President

Enclosure

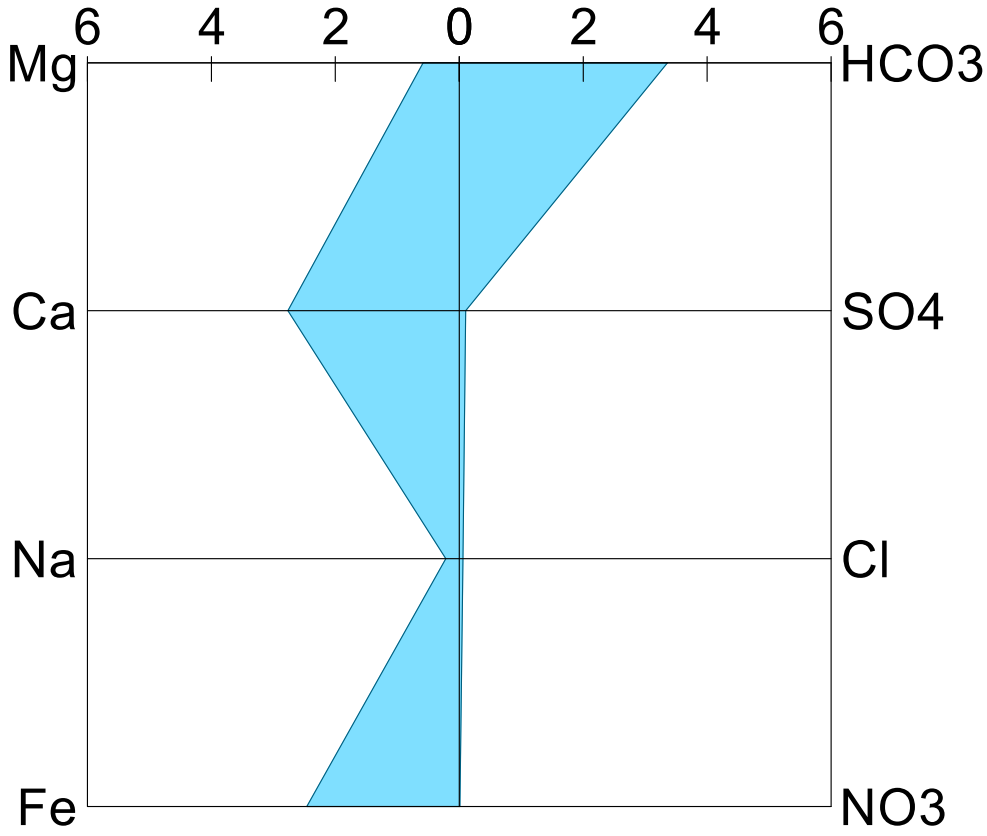
cc: B. Bussa, Ford
T. Green, Ford OGC.
J. Lagrotteria, LeClairRyan
D. Laguzza, LeClairRyan
K. Petrone, NJDEP
L. Dodge, Excel
R. Harwood, Excel
W. Monahan, Sedita, Campisano & Campisano
C. Coslett, de maximis

Piper Diagram Ringwood 4/2015 Data 1/2D

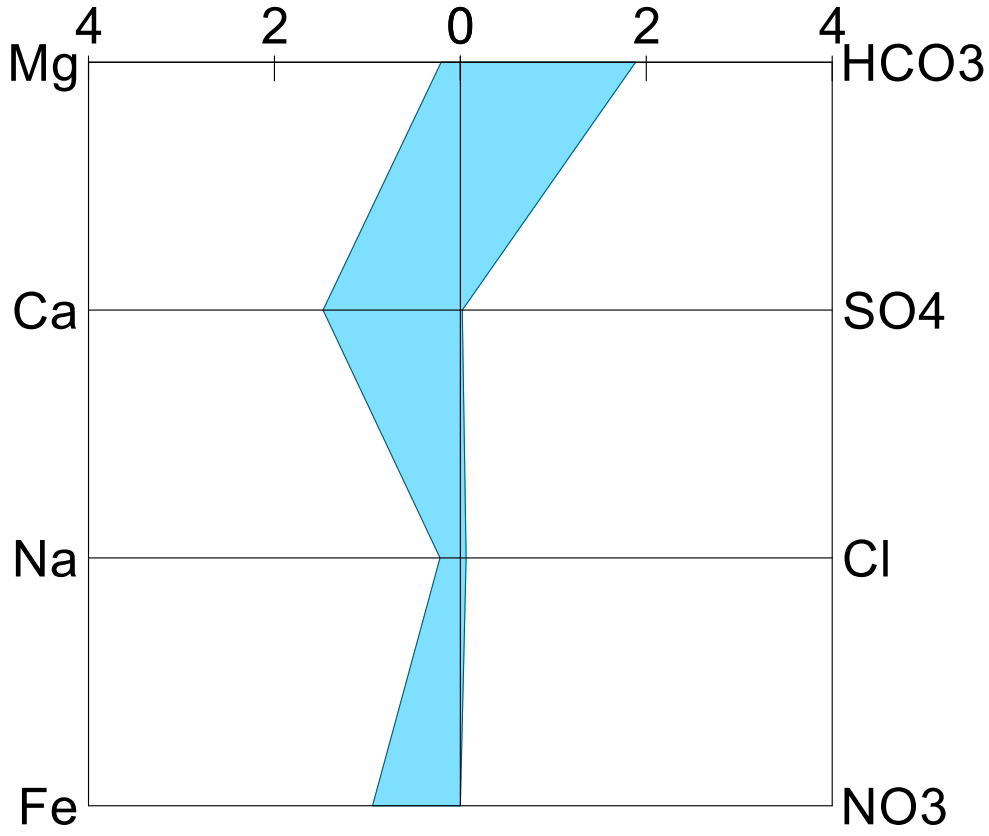


Legend

- DUP-042215
- OB-11R-042...
- OB-20A-042...
- OB-20B-042...
- OB-21-0420...
- OB-27-0421...
- PMP-180-0...
- PMP-230-0...
- PMP-50-04...
- RW-6-042215
- RW-6A-042...
- RW-7-042015
- SC-1-042215



OB-11R-OB



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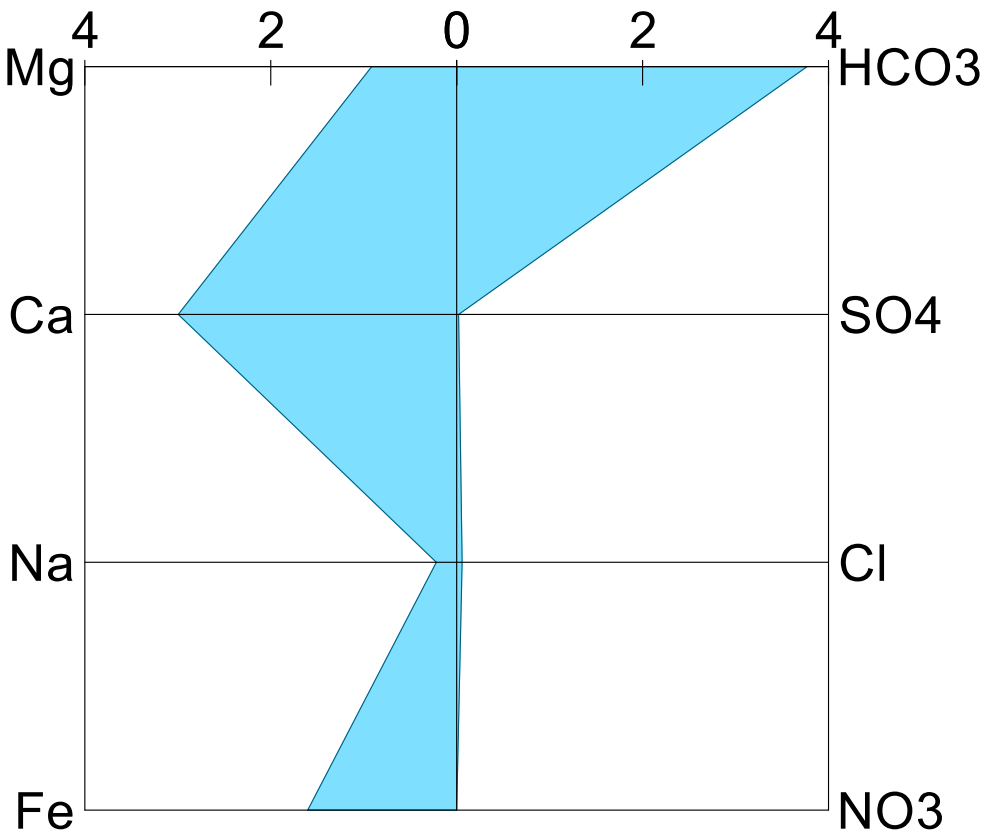
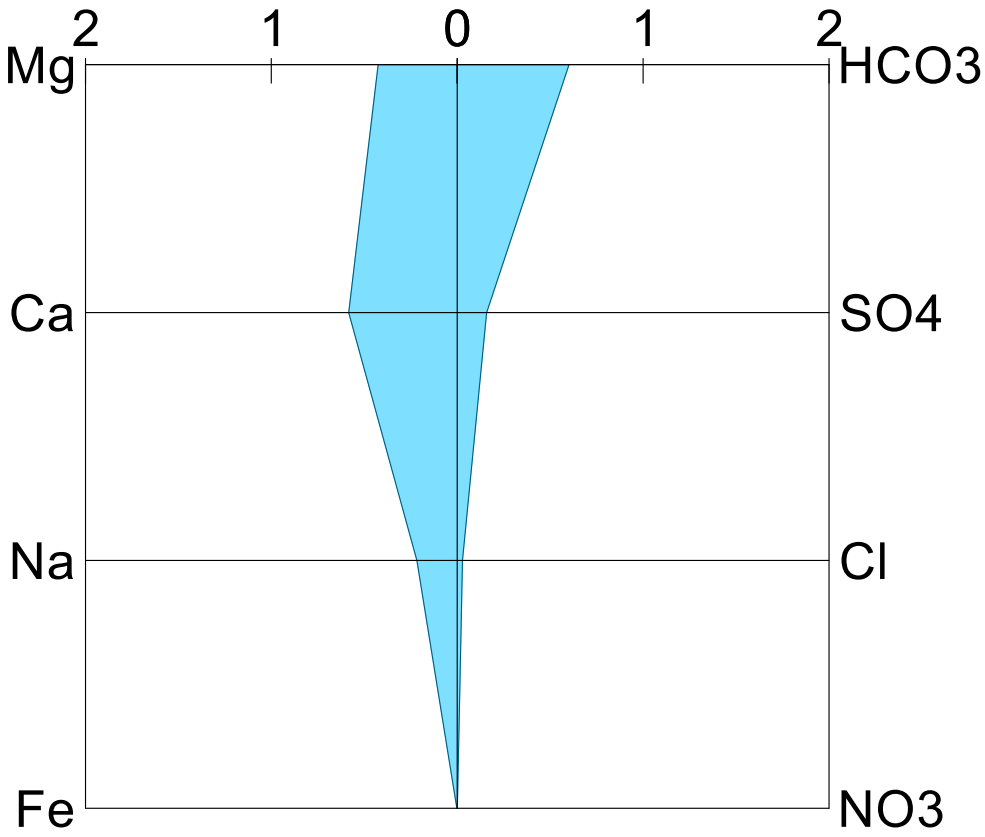


OB-20B-OB



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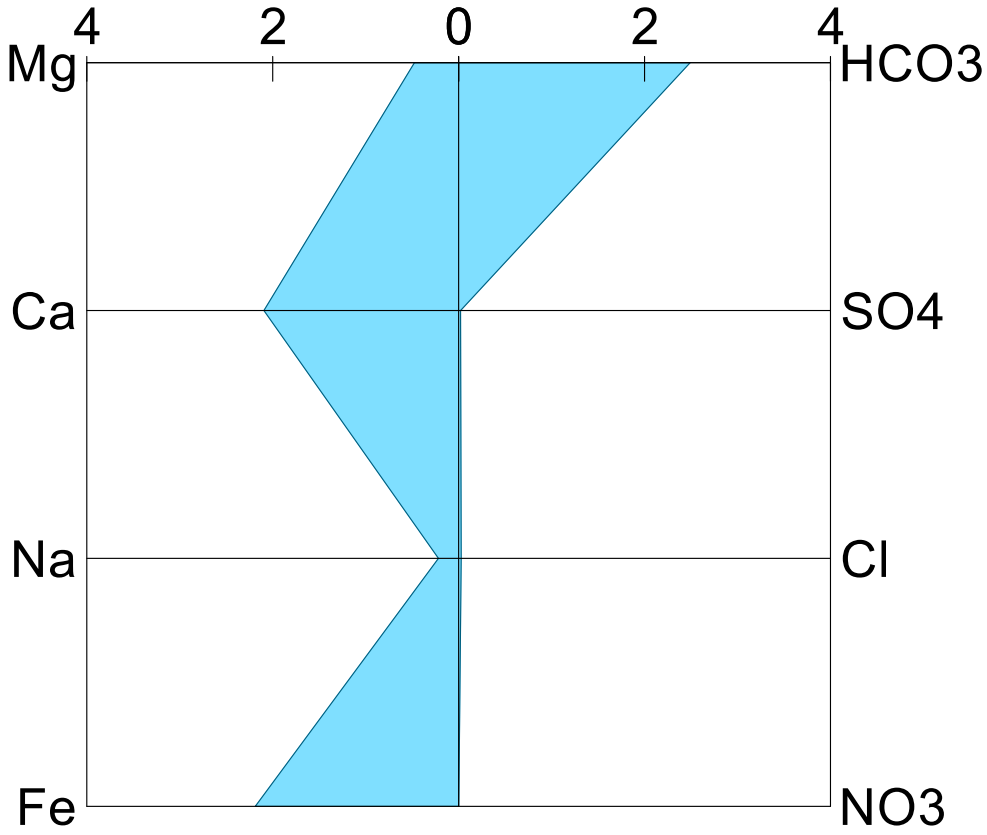
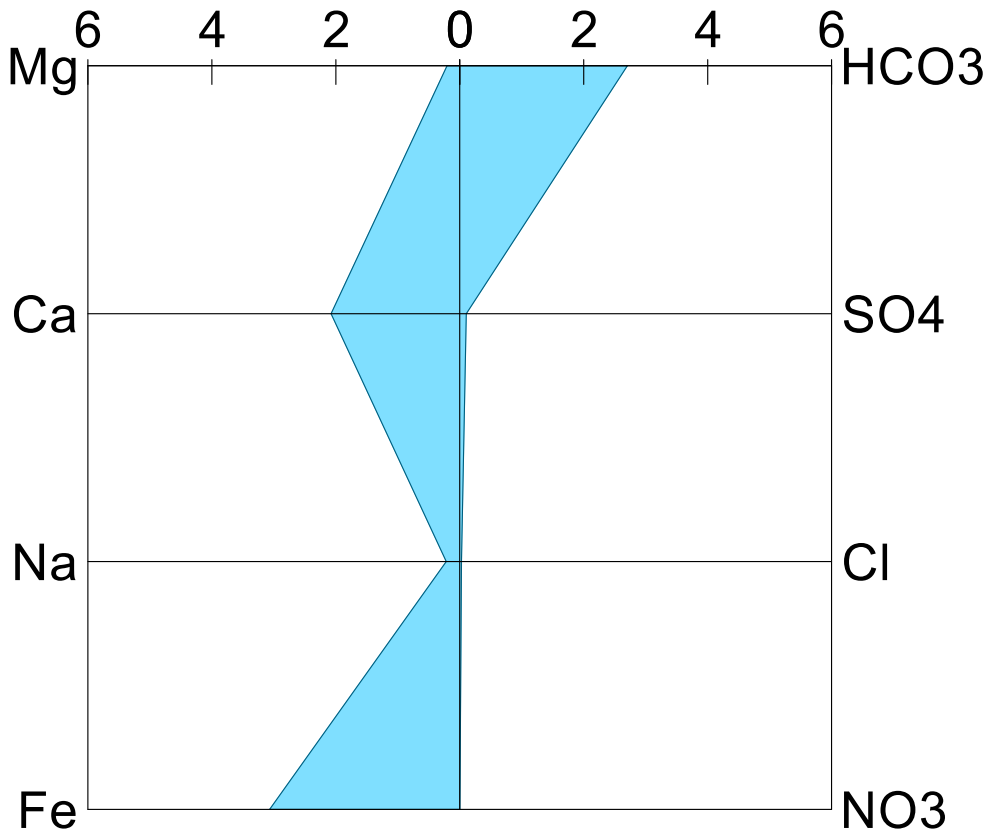
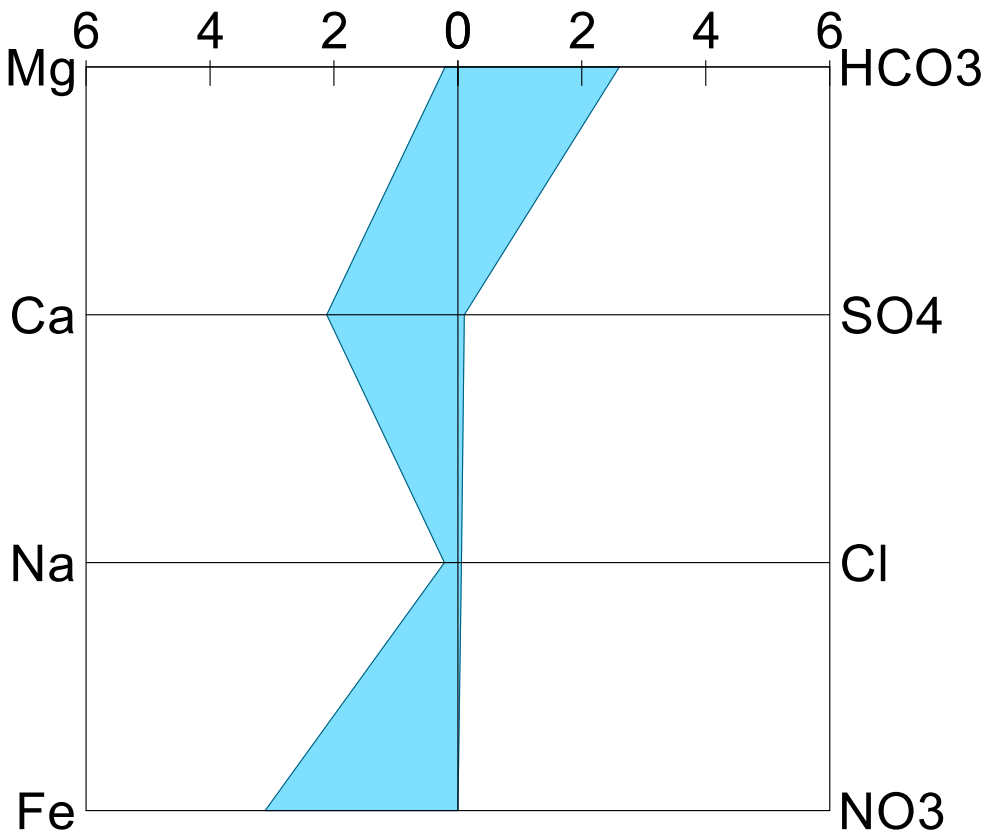


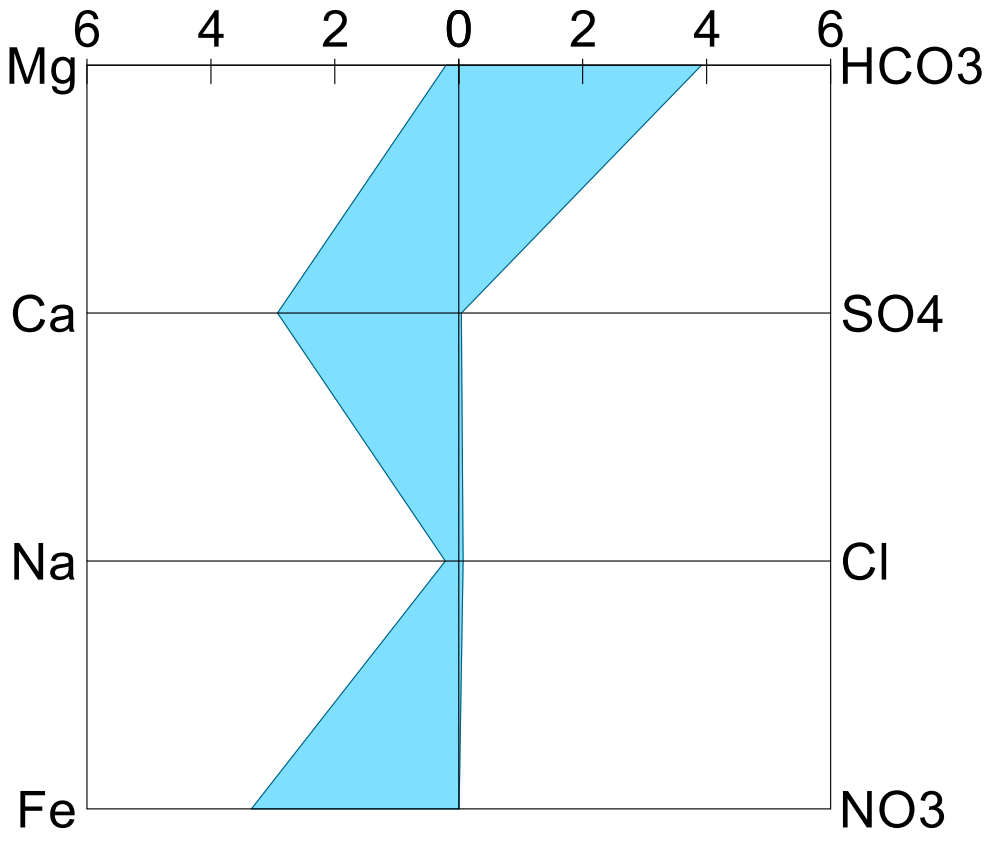
OB-27-OB



SC-01-BR



DUP-SC-01-BR



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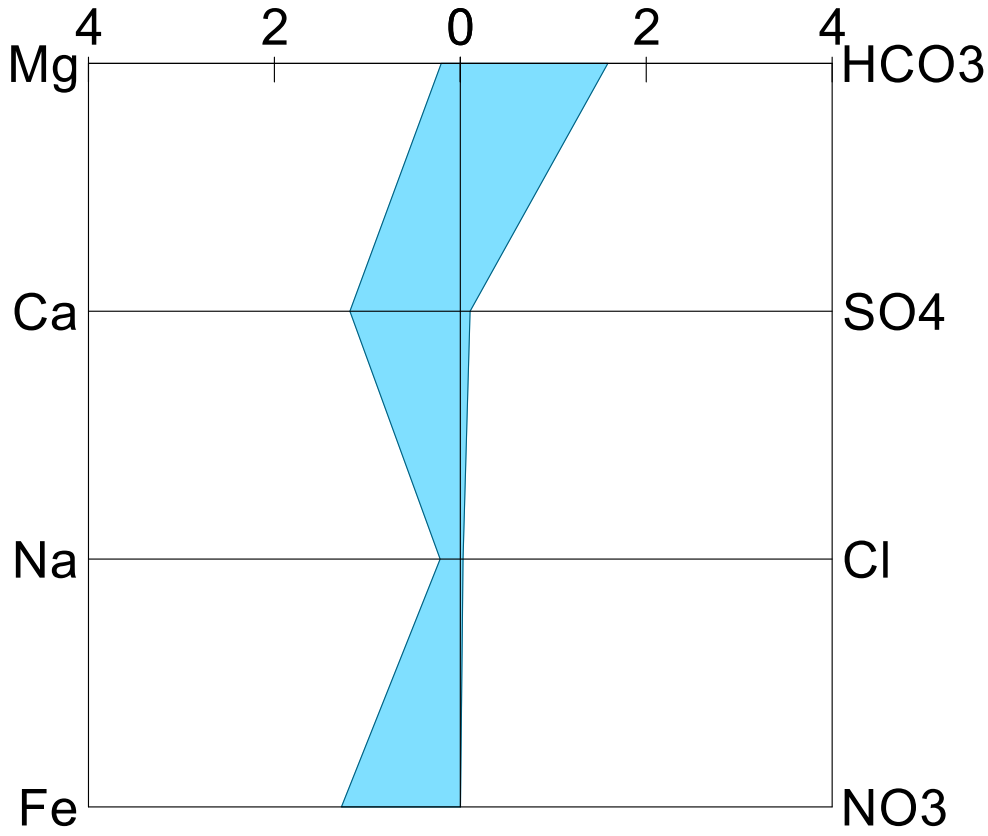

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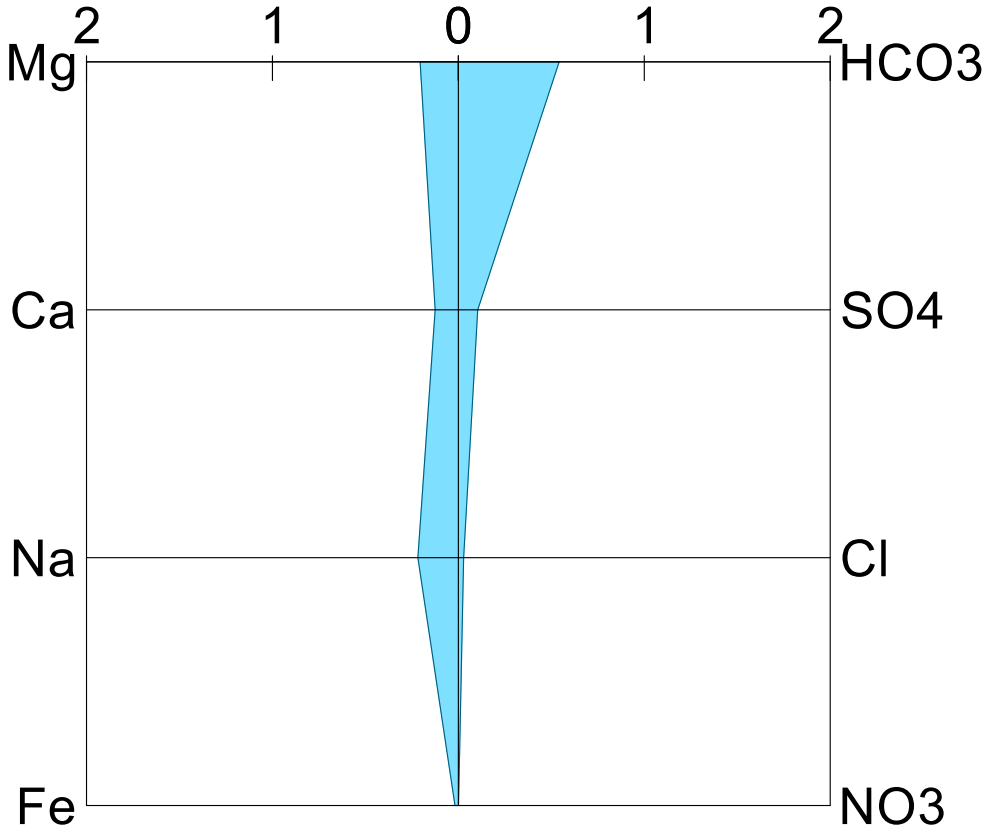

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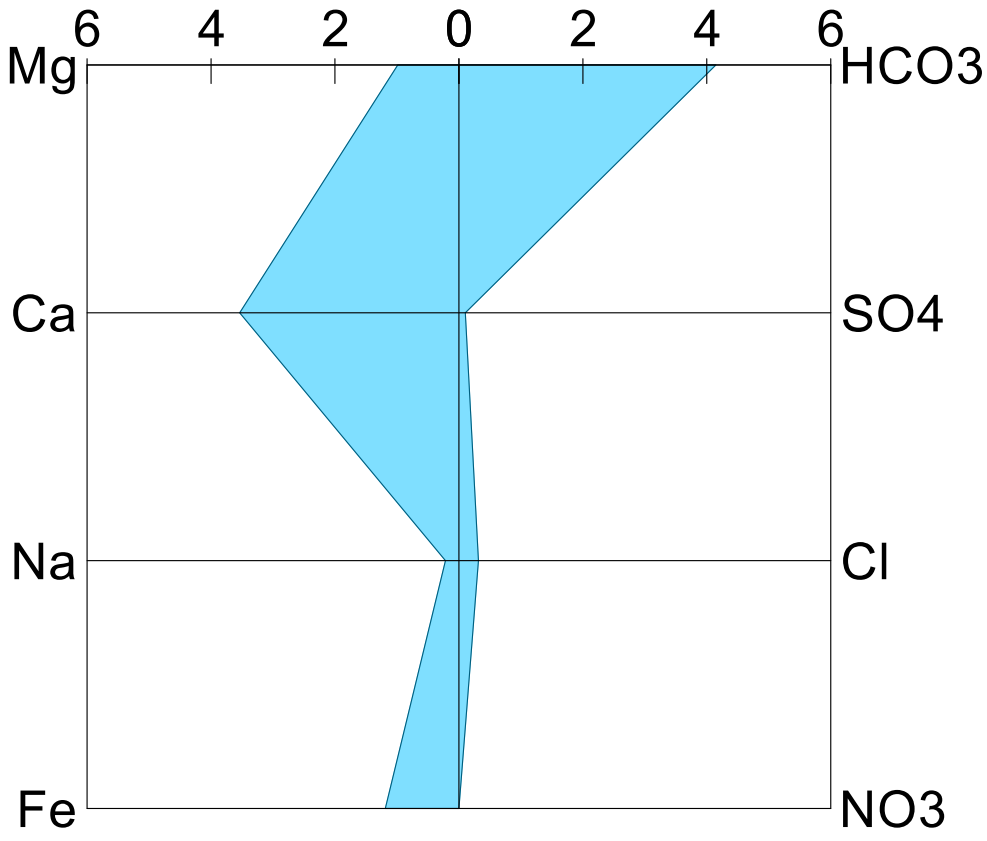
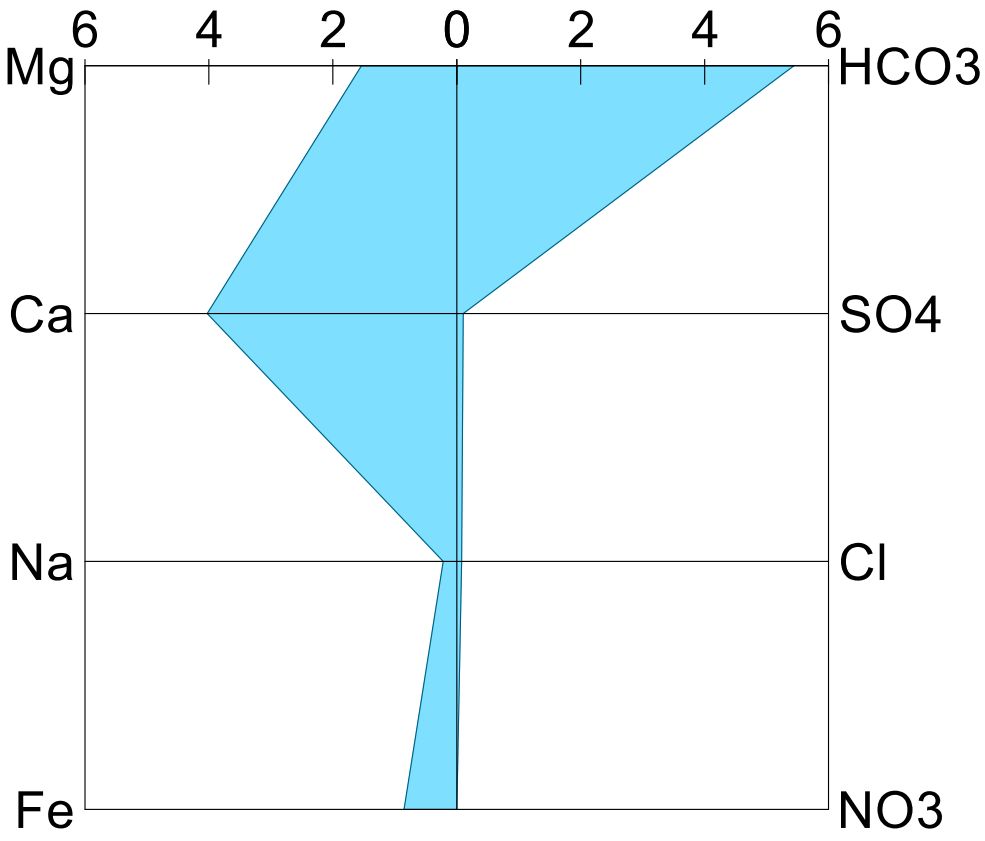
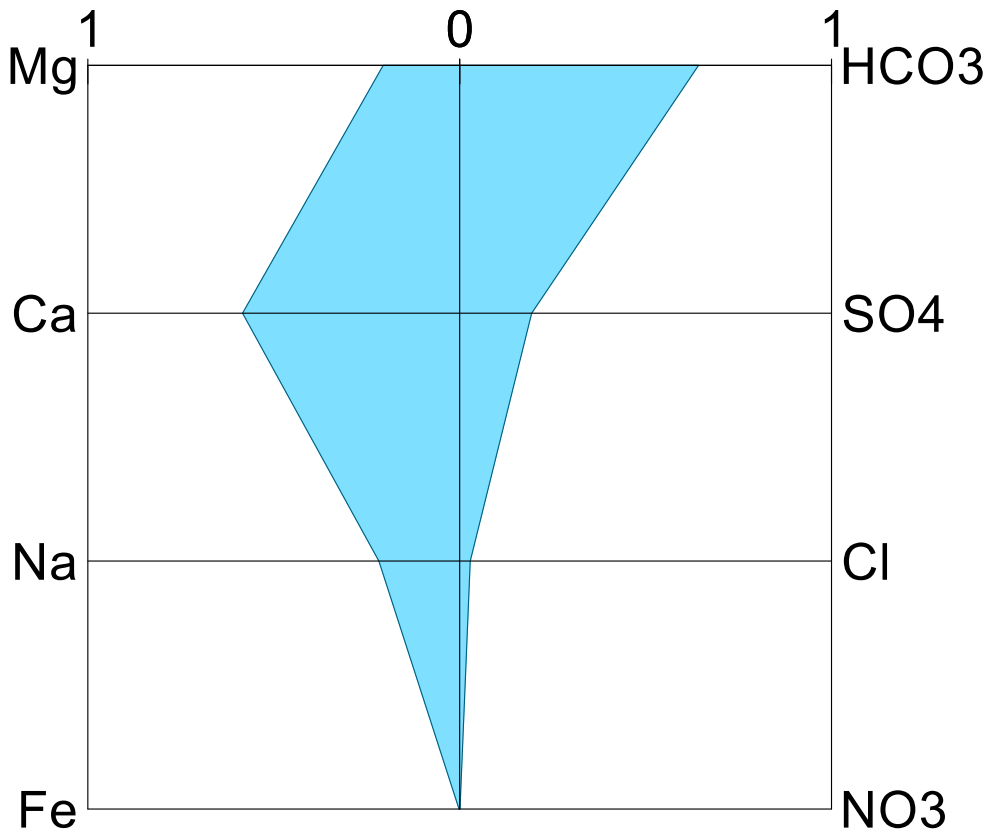


RW-6-BR



RW-6A-BR



RW-7-BR

CITY: Newtown, Pa DIV/GROUP: ENV DB: M. Wasilewski LD: M. Wasilewski PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACT\RETURN-TO\Fairfield-NJ\NJ000804\0035\00014\2012-12\FIG XX SURFACE WATER SAMPLE LOCATIONS.dwg LAYOUT: - SAVED: 2/23/2012 6:22 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS-RINGWOOD.CTB PLOTTED: 2/23/2012 6:23 PM BY: WASILEWSKI, MATT

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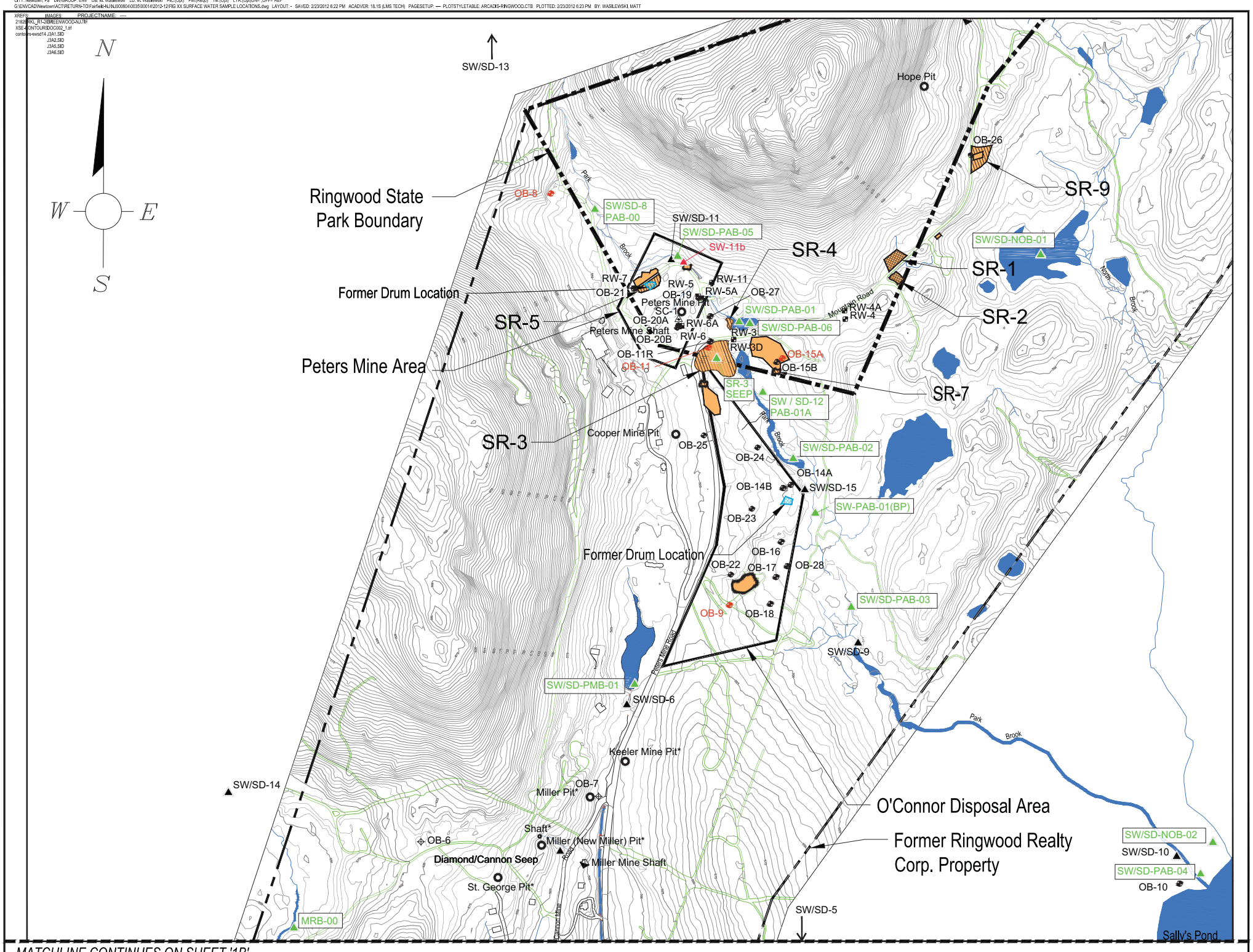

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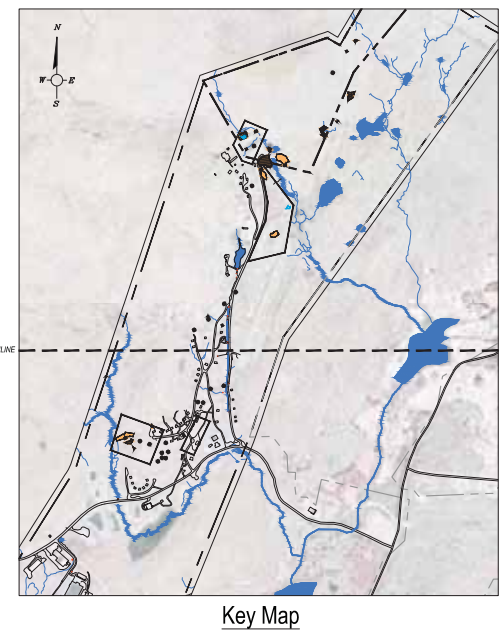

Key Map

0 1000' 2000'
GRAPHIC SCALE

LEGEND

Cannon	ABANDONED MINE PIT
Cannon Mine Shaft	ABANDONED MINE SHAFT ENTRANCE
*	APPROXIMATE LOCATION OF PIT
RW-4, OB-8	MONITORING WELL
	DIRT ROAD
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
SW-PAB-01(BP)	PROPOSED SURFACE WATER – SAMPLE LOCATION FROM BEAVER POND
SW-11b	PROPOSED SURFACE WATER – SAMPLE LOCATION NEAR FORMER SAMPLING LOCATION SW/SD-11
	BEDROCK WELL
	DEEP BEDROCK WELL
	DIRECTIONAL WELL
	UNCONSOLIDATED WELL
	MONITORING WELL DAMAGED OR NOT AVAILABLE FOR SAMPLING
	CURRENT PAINT SLUDGE REMOVAL AREA (SR–3 THRU SR–9)
	2004–2005 PAINT SLUDGE REMOVAL AREA COMPLETED TO DATE (SR–1 & SR–2)
	PRE–2004 PAINT SLUDGE REMOVAL AREA
	SUBSURFACE DRUM OR DRUM REMNANTS

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 feet.

RINGWOOD MINES/LANDFILL SITE
RINGWOOD, NEW JERSEY
PETERS MINE PIT AREA INVESTIGATION

SUMMARY OF SURFACE WATER SAMPLE LOCATIONS

ARCADIS

FIGURE
-

Accutest New Jersey

Job Numbers:	JB92815-JB93282
Account:	Cornerstone Environmental Group, LLC
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Project Number:	140802

Client Sample ID:			DUP-042215	DUP-042215	FB042015	FB042015	OB-11R-042115	OB-11R-042115	OB-20A-042115	OB-20A-042115	OB-20B-042115	OB-20B-042115	OB-21-042015
Lab Sample ID:			JB93030-3	JB93030-3F	JB92815-4	JB92815-4F	JB92926-1	JB92926-1F	JB92906-1	JB92906-1F	JB92906-3	JB92906-3F	JB92815-2
Date Sampled:			4/22/2015	4/22/2015	4/20/2015	4/20/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/20/2015
Matrix:	CAS#		Ground Water	Groundwater Filtered	Field Blank Water	Field Blank Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water
GC/MS Volatiles (SW846 8260C)													
Acetone	67-64-1	ug/l	3.3 U	-	3.3 U	-	11.2	-	3.3 U	-	3.3 U	-	3.3 U
Benzene	71-43-2	ug/l	1.8	-	0.24 U	-	2.9	-	0.24 U	-	0.36 J	-	0.24 U
Bromodichloromethane	75-27-4	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
Bromoform	75-25-2	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
Bromomethane	74-83-9	ug/l	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U
2-Butanone (MEK)	78-93-3	ug/l	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U
Carbon disulfide	75-15-0	ug/l	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U
Carbon tetrachloride	56-23-5	ug/l	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U
Chlorobenzene	108-90-7	ug/l	0.33 J	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
Chloroethane	75-00-3	ug/l	1.7	-	0.34 U	-	21.2	-	0.34 U	-	2.4	-	0.34 U
Chloroform	67-66-3	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
Chloromethane	74-87-3	ug/l	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U
Cyclohexane	110-82-7	ug/l	1.6 J	-	0.28 U	-	2.2 J	-	0.28 U	-	0.86 J	-	0.28 U
1,2-Dibromo-3-chloropropane	96-12-8	ug/l	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U
Dibromochloromethane	124-48-1	ug/l	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U
1,2-Dibromoethane	106-93-4	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
1,2-Dichlorobenzene	95-50-1	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
1,3-Dichlorobenzene	541-73-1	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
1,4-Dichlorobenzene	106-46-7	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U

Accutest New Jersey

Job Numbers:	JB92815-JB93282
Account:	Cornerstone Environmental Group, LLC
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Project Number:	140802

Client Sample ID:			DUP-042215	DUP-042215	FB042015	FB042015	OB-11R-042115	OB-11R-042115	OB-20A-042115	OB-20A-042115	OB-20B-042115	OB-20B-042115	OB-21-042015
Lab Sample ID:			JB93030-3	JB93030-3F	JB92815-4	JB92815-4F	JB92926-1	JB92926-1F	JB92906-1	JB92906-1F	JB92906-3	JB92906-3F	JB92815-2
Date Sampled:			4/22/2015	4/22/2015	4/20/2015	4/20/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/20/2015
Matrix:	CAS#		Ground Water	Groundwater Filtered	Field Blank Water	Field Blank Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water
Dichlorodifluoromethane	75-71-8	ug/l	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U
1,1-Dichloroethane	75-34-3	ug/l	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U
1,2-Dichloroethane	107-06-2	ug/l	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U
1,1-Dichloroethene	75-35-4	ug/l	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U
cis-1,2-Dichloroethene	156-59-2	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U
trans-1,2-Dichloroethene	156-60-5	ug/l	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U
1,2-Dichloropropane	78-87-5	ug/l	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
Ethylbenzene	100-41-4	ug/l	3.3	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U
Freon 113	76-13-1	ug/l	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U
2-Hexanone	591-78-6	ug/l	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U
Isopropylbenzene	98-82-8	ug/l	1.8	-	0.23 U	-	0.81 J	-	0.23 U	-	0.23 U	-	0.23 U
Methyl Acetate	79-20-9	ug/l	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U
Methylcyclohexane	108-87-2	ug/l	1.6 J	-	0.22 U	-	0.44 J	-	0.22 U	-	0.59 J	-	0.22 U
Methyl Tert Butyl Ether	1634-04-4	ug/l	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U
4-Methyl-2-pentanone(MIBK)	108-10-1	ug/l	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U
Methylene chloride	75-09-2	ug/l	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U
Styrene	100-42-5	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
Tetrachloroethene	127-18-4	ug/l	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U

Accutest New Jersey

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Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Project Number:	140802

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Lab Sample ID:			JB93030-3	JB93030-3F	JB92815-4	JB92815-4F	JB92926-1	JB92926-1F	JB92906-1	JB92906-1F	JB92906-3	JB92906-3F	JB92815-2
Date Sampled:			4/22/2015	4/22/2015	4/20/2015	4/20/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/20/2015
Matrix:	CAS#		Ground Water	Groundwater Filtered	Field Blank Water	Field Blank Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water
Toluene	108-88-3	ug/l	0.44 J	-	0.16 U	-	0.16 U	-	0.16 U	-	0.16 U	-	0.16 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
1,1,1-Trichloroethane	71-55-6	ug/l	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U
1,1,2-Trichloroethane	79-00-5	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
Trichloroethene	79-01-6	ug/l	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U
Trichlorofluoromethane	75-69-4	ug/l	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U
Vinyl chloride	75-01-4	ug/l	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U
Xylene (total)	1330-20-7	ug/l	73.5	-	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U
GC/MS Volatile TIC													
Total TIC, Volatile		ug/l	30.4 J	-	0	-	37.1 J	-	0	-	16.6 J	-	0
Total Alkanes		ug/l	0	-	0	-	0	-	0	-	0	-	0
Metals Analysis													
Calcium	7440-70-2	ug/l	41400	42400	5000 U	5000 U	56300	55400	29900	29600	61700	60000	11400
Iron	7439-89-6	ug/l	84400	87000	100 U	100 U	70000	68800	26800	26400	46700	44800	1740
Magnesium	7439-95-4	ug/l	5000 U	5000 U	5000 U	5000 U	7150	7100	5000 U	5000 U	11500	11100	5250
Sodium	7440-23-5	ug/l	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
General Chemistry													
Alkalinity, Bicarbonate		mg/l	159	-	5.0 U	-	205	-	118	-	230	-	36.7
Alkalinity, Total as CaCO3		mg/l	159	-	5.0 U	-	205	-	118	-	230	-	36.8

Accutest New Jersey

Job Numbers:	**JB92815-JB93282**
Account:	**Cornerstone Environmental Group, LLC**
Project:	**E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ**
Project Number:	**140802**

Client Sample ID:			**DUP-042215**	**DUP-042215**	**FB042015**	**FB042015**	**OB-11R-042115**	**OB-11R-042115**	**OB-20A-042115**	**OB-20A-042115**	**OB-20B-042115**	**OB-20B-042115**	**OB-21-042015**
Lab Sample ID:			**JB93030-3**	**JB93030-3F**	**JB92815-4**	**JB92815-4F**	**JB92926-1**	**JB92926-1F**	**JB92906-1**	**JB92906-1F**	**JB92906-3**	**JB92906-3F**	**JB92815-2**
Date Sampled:			**4/22/2015**	**4/22/2015**	**4/20/2015**	**4/20/2015**	**4/21/2015**	**4/21/2015**	**4/21/2015**	**4/21/2015**	**4/21/2015**	**4/21/2015**	**4/20/2015**
Matrix:	**CAS#**		**Ground Water**	**Groundwater Filtered**	**Field Blank Water**	**Field Blank Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**
Chloride	16887-00-6	mg/l	2	-	2.0 U [a]	-	2.1	-	2.2 [a]	-	2.1 [a]	-	2.0 U [a]
Nitrogen, Nitrate	14797-55-8	mg/l	0.11 U [b]	-	0.11 U [b]	-	0.11 U [b]	-	0.11 U [b]	-	0.11 U [b]	-	0.11 U [b]
Nitrogen, Nitrate + Nitrite		mg/l	0.10 U	-	0.10 U	-	0.10 U	-	0.10 U	-	0.10 U	-	0.1
Nitrogen, Nitrite	14797-65-0	mg/l	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Solids, Total Dissolved		mg/l	103	-	10 U	-	116	-	144	-	333	-	40
Sulfate	14808-79-8	mg/l	10 U	-	2.0 U [a]	-	10 U	-	2.0 U [a]	-	2.0 U [a]	-	7.6 [a]

Footnotes:

[a] Analysis performed at Accutest Laboratories, Orlando FL.

[b] Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Accutest New Jers

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Client Sample ID:			OB-21-042015	OB-27-042115	OB-27-042115	PMP-180-042415	PMP-180-042415	PMP-230-042415	PMP-230-042415	PMP-50-042215	PMP-50-042215	PMP-POND-042215
Lab Sample ID:			JB92815-2F	JB92906-4	JB92906-4F	JB93282-1	JB93282-1F	JB93282-2	JB93282-2F	JB93030-9	JB93030-9F	JB93030-4
Date Sampled:			4/20/2015	4/21/2015	4/21/2015	4/24/2015	4/24/2015	4/24/2015	4/24/2015	4/22/2015	4/22/2015	4/22/2015
Matrix:	CAS#		Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Surface Water
GC/MS Volatiles (SW846 8260C)												
Acetone	67-64-1	ug/l	-	3.3 U	-	3.3 U	-	3.3 U	-	3.3 U	-	3.3 U
Benzene	71-43-2	ug/l	-	3.1	-	2.3	-	7.8	-	0.24 U	-	0.24 U
Bromodichloromethane	75-27-4	ug/l	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
Bromoform	75-25-2	ug/l	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
Bromomethane	74-83-9	ug/l	-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U
2-Butanone (MEK)	78-93-3	ug/l	-	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U
Carbon disulfide	75-15-0	ug/l	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U
Carbon tetrachloride	56-23-5	ug/l	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U
Chlorobenzene	108-90-7	ug/l	-	0.19 U	-	0.49 J	-	1.4	-	0.19 U	-	0.19 U
Chloroethane	75-00-3	ug/l	-	87.2	-	7.9	-	29.1	-	0.34 U	-	0.34 U
Chloroform	67-66-3	ug/l	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
Chloromethane	74-87-3	ug/l	-	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U
Cyclohexane	110-82-7	ug/l	-	1.8 J	-	0.42 J	-	1.3 J	-	0.28 U	-	0.28 U
1,2-Dibromo-3-chloropropane	96-12-8	ug/l	-	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U
Dibromochloromethane	124-48-1	ug/l	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U
1,2-Dibromoethane	106-93-4	ug/l	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
1,2-Dichlorobenzene	95-50-1	ug/l	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
1,3-Dichlorobenzene	541-73-1	ug/l	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U
1,4-Dichlorobenzene	106-46-7	ug/l	-	0.27 U	-	0.27 U	-	0.51 J	-	0.27 U	-	0.27 U

Accutest New Jers

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Client Sample ID:			OB-21-042015	OB-27-042115	OB-27-042115	PMP-180-042415	PMP-180-042415	PMP-230-042415	PMP-230-042415	PMP-50-042215	PMP-50-042215	PMP-POND-042215
Lab Sample ID:			JB92815-2F	JB92906-4	JB92906-4F	JB93282-1	JB93282-1F	JB93282-2	JB93282-2F	JB93030-9	JB93030-9F	JB93030-4
Date Sampled:			4/20/2015	4/21/2015	4/21/2015	4/24/2015	4/24/2015	4/24/2015	4/24/2015	4/22/2015	4/22/2015	4/22/2015
Matrix:	CAS#		Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Surface Water
Dichlorodifluoromethane	75-71-8	ug/l	-	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U
1,1-Dichloroethane	75-34-3	ug/l	-	0.17 U	-	0.17 U	-	0.75 J	-	0.17 U	-	0.17 U
1,2-Dichloroethane	107-06-2	ug/l	-	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U
1,1-Dichloroethene	75-35-4	ug/l	-	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U
cis-1,2-Dichloroethene	156-59-2	ug/l	-	0.27 U	-	0.27 U	-	0.61 J	-	0.27 U	-	0.27 U
trans-1,2-Dichloroethene	156-60-5	ug/l	-	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U
1,2-Dichloropropane	78-87-5	ug/l	-	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U
Ethylbenzene	100-41-4	ug/l	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U
Freon 113	76-13-1	ug/l	-	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U
2-Hexanone	591-78-6	ug/l	-	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U
Isopropylbenzene	98-82-8	ug/l	-	3.4	-	0.64 J	-	1.8	-	0.23 U	-	0.23 U
Methyl Acetate	79-20-9	ug/l	-	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U
Methylcyclohexane	108-87-2	ug/l	-	1.1 J	-	0.22 U	-	0.37 J	-	0.22 U	-	0.22 U
Methyl Tert Butyl Ether	1634-04-4	ug/l	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U
4-Methyl-2-pentanone(MIBK)	108-10-1	ug/l	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U
Methylene chloride	75-09-2	ug/l	-	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U
Styrene	100-42-5	ug/l	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
Tetrachloroethene	127-18-4	ug/l	-	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U

Accutest New Jers

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Client Sample ID:			OB-21-042015	OB-27-042115	OB-27-042115	PMP-180-042415	PMP-180-042415	PMP-230-042415	PMP-230-042415	PMP-50-042215	PMP-50-042215	PMP-POND-042215
Lab Sample ID:			JB92815-2F	JB92906-4	JB92906-4F	JB93282-1	JB93282-1F	JB93282-2	JB93282-2F	JB93030-9	JB93030-9F	JB93030-4
Date Sampled:			4/20/2015	4/21/2015	4/21/2015	4/24/2015	4/24/2015	4/24/2015	4/24/2015	4/22/2015	4/22/2015	4/22/2015
Matrix:	CAS#		Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Surface Water
Toluene	108-88-3	ug/l	-	0.16 U	-	0.16 U	-	0.20 J	-	0.16 U	-	0.16 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
1,1,1-Trichloroethane	71-55-6	ug/l	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U
1,1,2-Trichloroethane	79-00-5	ug/l	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U
Trichloroethene	79-01-6	ug/l	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U
Trichlorofluoromethane	75-69-4	ug/l	-	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U
Vinyl chloride	75-01-4	ug/l	-	0.15 U	-	0.15 U	-	0.43 J	-	0.15 U	-	0.15 U
Xylene (total)	1330-20-7	ug/l	-	0.17 U	-	0.17 U	-	0.83 J	-	0.17 U	-	0.17 U
GC/MS Volatile TIC												
Total TIC, Volatile		ug/l	-	213.9 J	-	0	-	0	-	0	-	0
Total Alkanes		ug/l	-	0	-	0	-	0	-	0	-	0
Metals Analysis												
Calcium	7440-70-2	ug/l	11700	42800	42000	57000	58600	25300	23800	5000 U	5000 U	-
Iron	7439-89-6	ug/l	100 U	65200	61200	91600	93600	38000	35800	253	496	-
Magnesium	7439-95-4	ug/l	5170	5810	5770	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	-
Sodium	7440-23-5	ug/l	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	-
General Chemistry												
Alkalinity, Bicarbonate		mg/l	-	152	-	239	-	96.8	-	33.1	-	-
Alkalinity, Total as CaCO3		mg/l	-	152	-	239	-	96.8	-	33.1	-	-

Accutest New Jers

Job Numbers:	**JB92815-JB932**
Account:	**Cornerstone En**
Project:	**E203361 Ford R**
Project Number:	**140802**

Client Sample ID:			**OB-21-042015**	**OB-27-042115**	**OB-27-042115**	**PMP-180-042415**	**PMP-180-042415**	**PMP-230-042415**	**PMP-230-042415**	**PMP-50-042215**	**PMP-50-042215**	**PMP-POND-042215**
Lab Sample ID:			**JB92815-2F**	**JB92906-4**	**JB92906-4F**	**JB93282-1**	**JB93282-1F**	**JB93282-2**	**JB93282-2F**	**JB93030-9**	**JB93030-9F**	**JB93030-4**
Date Sampled:			**4/20/2015**	**4/21/2015**	**4/21/2015**	**4/24/2015**	**4/24/2015**	**4/24/2015**	**4/24/2015**	**4/22/2015**	**4/22/2015**	**4/22/2015**
Matrix:	**CAS#**		**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Surface Water**
Chloride	16887-00-6	mg/l	-	2.0 [a]	-	2.5	-	2.0 U	-	2.0 U	-	-
Nitrogen, Nitrate	14797-55-8	mg/l	-	0.11 U [b]	-	0.43 [b]	-	0.11 U [b]	-	0.11 U [b]	-	-
Nitrogen, Nitrate + Nitrite		mg/l	-	0.10 U	-	0.43	-	0.10 U	-	0.10 U	-	-
Nitrogen, Nitrite	14797-65-0	mg/l	-	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U	-	-
Solids, Total Dissolved		mg/l	-	256	-	203	-	118	-	10 U	-	-
Sulfate	14808-79-8	mg/l	-	2.0 U [a]	-	10 U	-	10 U	-	10 U	-	-

Footnotes:

[a] Analysis performed at Accutest Laboratories, (

[b] Calculated as: (Nitrogen, Nitrate + Nitrite) - (Ni

Accutest New Jers

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Client Sample ID:			RW-6-042215	RW-6-042215	RW-6A-042115	RW-6A-042115	RW-7-042015	RW-7-042015	SC-1-042215	SC-1-042215	SR-3-SEEP-1-042215	SW-PAB-00-042215	SW-PAB-01-042215
Lab Sample ID:			JB93030-5	JB93030-5F	JB92926-3	JB92926-3F	JB92815-3	JB92815-3F	JB93030-2	JB93030-2F	JB93030-7	JB93030-10	JB93030-8
Date Sampled:			4/22/2015	4/22/2015	4/21/2015	4/21/2015	4/20/2015	4/20/2015	4/22/2015	4/22/2015	4/22/2015	4/22/2015	4/22/2015
Matrix:	CAS#		Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Surface Water	Surface Water	Surface Water
GC/MS Volatiles (SW846 8260C)													
Acetone	67-64-1	ug/l	3.3 U	-	3.3 U	-	8.1 J	-	3.3 U	-	3.3 U	3.3 U	3.3 U
Benzene	71-43-2	ug/l	2.2	-	8.7	-	0.24 U	-	1.7	-	0.24 U	0.24 U	0.24 U
Bromodichloromethane	75-27-4	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	0.23 U	0.23 U
Bromoform	75-25-2	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	0.23 U	0.23 U
Bromomethane	74-83-9	ug/l	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	0.42 U	0.42 U
2-Butanone (MEK)	78-93-3	ug/l	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U	-	5.6 U	5.6 U	5.6 U
Carbon disulfide	75-15-0	ug/l	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U	0.25 U
Carbon tetrachloride	56-23-5	ug/l	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	0.22 U	0.22 U
Chlorobenzene	108-90-7	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.30 J	-	0.19 U	0.19 U	0.19 U
Chloroethane	75-00-3	ug/l	1.7	-	2.3	-	0.34 U	-	1.8	-	0.34 U	0.34 U	0.34 U
Chloroform	67-66-3	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Chloromethane	74-87-3	ug/l	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U	-	0.41 U	0.41 U	0.41 U
Cyclohexane	110-82-7	ug/l	0.28 U	-	4.2 J	-	0.28 U	-	1.7 J	-	0.28 U	0.28 U	0.28 U
1,2-Dibromo-3-chloropropane	96-12-8	ug/l	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U	-	0.99 U	0.99 U	0.99 U
Dibromochloromethane	124-48-1	ug/l	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	0.15 U	0.15 U
1,2-Dibromoethane	106-93-4	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	0.23 U	0.23 U
1,2-Dichlorobenzene	95-50-1	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	0.19 U	0.19 U
1,3-Dichlorobenzene	541-73-1	ug/l	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	0.23 U	0.23 U
1,4-Dichlorobenzene	106-46-7	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	0.27 U	0.27 U

Accutest New Jers

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Client Sample ID:			RW-6-042215	RW-6-042215	RW-6A-042115	RW-6A-042115	RW-7-042015	RW-7-042015	SC-1-042215	SC-1-042215	SR-3-SEEP-1-042215	SW-PAB-00-042215	SW-PAB-01-042215
Lab Sample ID:			JB93030-5	JB93030-5F	JB92926-3	JB92926-3F	JB92815-3	JB92815-3F	JB93030-2	JB93030-2F	JB93030-7	JB93030-10	JB93030-8
Date Sampled:			4/22/2015	4/22/2015	4/21/2015	4/21/2015	4/20/2015	4/20/2015	4/22/2015	4/22/2015	4/22/2015	4/22/2015	4/22/2015
Matrix:	CAS#		Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Surface Water	Surface Water	Surface Water
Dichlorodifluoromethane	75-71-8	ug/l	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U	-	0.90 U	0.90 U	0.90 U
1,1-Dichloroethane	75-34-3	ug/l	0.50 J	-	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U	0.17 U	0.17 U
1,2-Dichloroethane	107-06-2	ug/l	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U	0.18 U	0.18 U
1,1-Dichloroethene	75-35-4	ug/l	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U	-	0.51 U	0.51 U	0.51 U
cis-1,2-Dichloroethene	156-59-2	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	0.27 U	0.27 U
trans-1,2-Dichloroethene	156-60-5	ug/l	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U	-	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	78-87-5	ug/l	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U	0.39 U	0.39 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	0.21 U	0.21 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Ethylbenzene	100-41-4	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	3.3	-	0.27 U	0.27 U	0.27 U
Freon 113	76-13-1	ug/l	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U	-	0.52 U	0.52 U	0.52 U
2-Hexanone	591-78-6	ug/l	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U	-	1.7 U	1.7 U	1.7 U
Isopropylbenzene	98-82-8	ug/l	0.23 U	-	8.5	-	0.23 U	-	1.9	-	0.23 U	0.23 U	0.23 U
Methyl Acetate	79-20-9	ug/l	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U	-	1.9 U	1.9 U	1.9 U
Methylcyclohexane	108-87-2	ug/l	0.22 U	-	1.5 J	-	0.22 U	-	1.6 J	-	0.22 U	0.22 U	0.22 U
Methyl Tert Butyl Ether	1634-04-4	ug/l	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	0.24 U	0.24 U
4-Methyl-2-pentanone(MIBK)	108-10-1	ug/l	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Methylene chloride	75-09-2	ug/l	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U	-	0.73 U	0.73 U	0.73 U
Styrene	100-42-5	ug/l	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	-	0.27 U	0.27 U	0.27 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	0.21 U	0.21 U
Tetrachloroethene	127-18-4	ug/l	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U	0.40 U	0.40 U

Accutest New Jers

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Client Sample ID:			RW-6-042215	RW-6-042215	RW-6A-042115	RW-6A-042115	RW-7-042015	RW-7-042015	SC-1-042215	SC-1-042215	SR-3-SEEP-1-042215	SW-PAB-00-042215	SW-PAB-01-042215
Lab Sample ID:			JB93030-5	JB93030-5F	JB92926-3	JB92926-3F	JB92815-3	JB92815-3F	JB93030-2	JB93030-2F	JB93030-7	JB93030-10	JB93030-8
Date Sampled:			4/22/2015	4/22/2015	4/21/2015	4/21/2015	4/20/2015	4/20/2015	4/22/2015	4/22/2015	4/22/2015	4/22/2015	4/22/2015
Matrix:	CAS#		Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Ground Water	Groundwater Filtered	Surface Water	Surface Water	Surface Water
Toluene	108-88-3	ug/l	0.16 U	-	0.16 U	-	0.16 U	-	0.48 J	-	0.16 U	0.16 U	0.16 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	0.21 U	0.21 U
1,1,1-Trichloroethane	71-55-6	ug/l	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U	0.25 U
1,1,2-Trichloroethane	79-00-5	ug/l	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	0.21 U	0.21 U
Trichloroethene	79-01-6	ug/l	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	0.22 U	0.22 U
Trichlorofluoromethane	75-69-4	ug/l	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U	-	0.43 U	0.43 U	0.43 U
Vinyl chloride	75-01-4	ug/l	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	0.15 U	0.15 U
Xylene (total)	1330-20-7	ug/l	0.17 U	-	37.5	-	0.17 U	-	75.6	-	0.17 U	0.17 U	0.17 U
GC/MS Volatile TIC													
Total TIC, Volatile		ug/l	0	-	79.5 J	-	23 J	-	31.9 J	-	0	0	0
Total Alkanes		ug/l	0	-	0	-	0	-	0	-	0	0	0
Metals Analysis													
Calcium	7440-70-2	ug/l	73100	70900	80700	80700	10900	11700	41000	41600	-	-	-
Iron	7439-89-6	ug/l	40400	33200	24000	23800	522	100 U	84200	85800	-	-	-
Magnesium	7439-95-4	ug/l	12400	12000	18600	18700	5000 U	5000 U	5000 U	5000 U	-	-	-
Sodium	7440-23-5	ug/l	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	-	-	-
General Chemistry													
Alkalinity, Bicarbonate		mg/l	253	-	332	-	39.2	-	165	-	-	-	-
Alkalinity, Total as CaCO3		mg/l	254	-	332	-	39.2	-	165	-	-	-	-

Accutest New Jers

Job Numbers:	**JB92815-JB932**
Account:	**Cornerstone En**
Project:	**E203361 Ford R**
Project Number:	**140802**

Client Sample ID:			**RW-6-042215**	**RW-6-042215**	**RW-6A-042115**	**RW-6A-042115**	**RW-7-042015**	**RW-7-042015**	**SC-1-042215**	**SC-1-042215**	**SR-3-SEEP-1-042215**	**SW-PAB-00-042215**	**SW-PAB-01-042215**
Lab Sample ID:			**JB93030-5**	**JB93030-5F**	**JB92926-3**	**JB92926-3F**	**JB92815-3**	**JB92815-3F**	**JB93030-2**	**JB93030-2F**	**JB93030-7**	**JB93030-10**	**JB93030-8**
Date Sampled:			**4/22/2015**	**4/22/2015**	**4/21/2015**	**4/21/2015**	**4/20/2015**	**4/20/2015**	**4/22/2015**	**4/22/2015**	**4/22/2015**	**4/22/2015**	**4/22/2015**
Matrix:	**CAS#**		**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Ground Water**	**Groundwater Filtered**	**Surface Water**	**Surface Water**	**Surface Water**
Chloride	16887-00-6	mg/l	11.2	-	2.8	-	2.0 U [a]	-	2	-	-	-	-
Nitrogen, Nitrate	14797-55-8	mg/l	0.11 U [b]	-	0.11 U [b]	-	0.11 U [b]	-	0.11 U [b]	-	-	-	-
Nitrogen, Nitrate + Nitrite		mg/l	0.10 U	-	0.10 U	-	0.10 U	-	0.10 U	-	-	-	-
Nitrogen, Nitrite	14797-65-0	mg/l	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U	-	-	-	-
Solids, Total Dissolved		mg/l	285	-	413	-	47	-	160	-	-	-	-
Sulfate	14808-79-8	mg/l	10 U	-	10 U	-	9.3 [a]	-	10 U	-	-	-	-

Footnotes:

[a] Analysis performed at Accutest Laboratories, (

[b] Calculated as: (Nitrogen, Nitrate + Nitrite) - (Ni

Accutest New Jers

May 12, 2015 13:18 pm

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Legend: Hit

Client Sample ID:			SW-PAB-01A-042215	TB-02-042115	TB-042015	TB-042115	TB-042215	TRIP BLANK 4-23-15
Lab Sample ID:			JB93030-6	JB92926-2	JB92815-1	JB92906-2	JB93030-1	JB93282-3
Date Sampled:			4/22/2015	4/21/2015	4/20/2015	4/21/2015	4/22/2015	4/24/2015
Matrix:	CAS#		Surface Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water
GC/MS Volatiles (SW846 8260C)								
Acetone	67-64-1	ug/l	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Benzene	71-43-2	ug/l	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromodichloromethane	75-27-4	ug/l	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Bromoform	75-25-2	ug/l	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Bromomethane	74-83-9	ug/l	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
2-Butanone (MEK)	78-93-3	ug/l	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U
Carbon disulfide	75-15-0	ug/l	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Carbon tetrachloride	56-23-5	ug/l	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Chlorobenzene	108-90-7	ug/l	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloroethane	75-00-3	ug/l	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chloroform	67-66-3	ug/l	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chloromethane	74-87-3	ug/l	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Cyclohexane	110-82-7	ug/l	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,2-Dibromo-3-chloropropane	96-12-8	ug/l	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
Dibromochloromethane	124-48-1	ug/l	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dibromoethane	106-93-4	ug/l	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorobenzene	95-50-1	ug/l	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,3-Dichlorobenzene	541-73-1	ug/l	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,4-Dichlorobenzene	106-46-7	ug/l	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U

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Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Legend: Hit

Client Sample ID:			SW-PAB-01A-042215	TB-02-042115	TB-042015	TB-042115	TB-042215	TRIP BLANK 4-23-15
Lab Sample ID:			JB93030-6	JB92926-2	JB92815-1	JB92906-2	JB93030-1	JB93282-3
Date Sampled:			4/22/2015	4/21/2015	4/20/2015	4/21/2015	4/22/2015	4/24/2015
Matrix:	CAS#		Surface Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water
Dichlorodifluoromethane	75-71-8	ug/l	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U
1,1-Dichloroethane	75-34-3	ug/l	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2-Dichloroethane	107-06-2	ug/l	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1-Dichloroethene	75-35-4	ug/l	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
cis-1,2-Dichloroethene	156-59-2	ug/l	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
trans-1,2-Dichloroethene	156-60-5	ug/l	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	78-87-5	ug/l	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Ethylbenzene	100-41-4	ug/l	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Freon 113	76-13-1	ug/l	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
2-Hexanone	591-78-6	ug/l	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Isopropylbenzene	98-82-8	ug/l	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Methyl Acetate	79-20-9	ug/l	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Methylcyclohexane	108-87-2	ug/l	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Methyl Tert Butyl Ether	1634-04-4	ug/l	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
4-Methyl-2-pentanone(MIBK)	108-10-1	ug/l	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	75-09-2	ug/l	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U
Styrene	100-42-5	ug/l	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Tetrachloroethene	127-18-4	ug/l	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U

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Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Legend: Hit

Client Sample ID:			SW-PAB-01A-042215	TB-02-042115	TB-042015	TB-042115	TB-042215	TRIP BLANK 4-23-15
Lab Sample ID:			JB93030-6	JB92926-2	JB92815-1	JB92906-2	JB93030-1	JB93282-3
Date Sampled:			4/22/2015	4/21/2015	4/20/2015	4/21/2015	4/22/2015	4/24/2015
Matrix:	CAS#		Surface Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water
Toluene	108-88-3	ug/l	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,1,1-Trichloroethane	71-55-6	ug/l	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1,2-Trichloroethane	79-00-5	ug/l	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Trichloroethene	79-01-6	ug/l	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichlorofluoromethane	75-69-4	ug/l	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Vinyl chloride	75-01-4	ug/l	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Xylene (total)	1330-20-7	ug/l	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
GC/MS Volatile TIC								
Total TIC, Volatile		ug/l	0	0	0	0	0	0
Total Alkanes		ug/l	0	0	0	0	0	0
Metals Analysis								
Calcium	7440-70-2	ug/l	-	-	-	-	-	-
Iron	7439-89-6	ug/l	-	-	-	-	-	-
Magnesium	7439-95-4	ug/l	-	-	-	-	-	-
Sodium	7440-23-5	ug/l	-	-	-	-	-	-
General Chemistry								
Alkalinity, Bicarbonate		mg/l	-	-	-	-	-	-
Alkalinity, Total as CaCO3		mg/l	-	-	-	-	-	-

Accutest New Jers

May 12, 2015 13:18 pm

Job Numbers:	JB92815-JB932
Account:	Cornerstone En
Project:	E203361 Ford R
Project Number:	140802

Legend: Hit

Client Sample ID:			SW-PAB-01A-042215	TB-02-042115	TB-042015	TB-042115	TB-042215	TRIP BLANK 4-23-15
Lab Sample ID:			JB93030-6	JB92926-2	JB92815-1	JB92906-2	JB93030-1	JB93282-3
Date Sampled:			4/22/2015	4/21/2015	4/20/2015	4/21/2015	4/22/2015	4/24/2015
Matrix:	**CAS#**		Surface Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water	Trip Blank Water
Chloride	16887-00-6	mg/l	-	-	-	-	-	-
Nitrogen, Nitrate	14797-55-8	mg/l	-	-	-	-	-	-
Nitrogen, Nitrate + Nitrite		mg/l	-	-	-	-	-	-
Nitrogen, Nitrite	14797-65-0	mg/l	-	-	-	-	-	-
Solids, Total Dissolved		mg/l	-	-	-	-	-	-
Sulfate	14808-79-8	mg/l	-	-	-	-	-	-

Footnotes:

[a] Analysis performed at Accutest Laboratories, (

[b] Calculated as: (Nitrogen, Nitrate + Nitrite) - (Ni

TABLE 1
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS:
VOLATILE ORGANIC COMPOUNDS
Ringwood Mines
Ringwood Borough, Passaic County, New Jersey
(Concentrations reported in ug/L)

PARAMETER					Ace	c-DCE	1,1-DCA	1,2-DCA	1,4-Dcb	MeC	Cyc	1,4-Dio	Dcfm	Mch	Cle	Ben	Clb	Etb	Iso	Tol	Xyl	Total VOCs	VOC TICs
NJDEP SURFACE WATER QUALITY STANDARDS (FW2 HUMAN HEALTH)					---	---	---	0.29	550	2.5	---	---	---	---	---	0.15	210	530	---	1,300	---	---	---
Well	**Lab Sample No.**	**Sample Matrix**	**Collection Date**	**Collection Time**																			
PMP-Pond-042215	460-93682-3	Aqueous	4/22/2015	1030	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
SW-PAB-01A	460-93682-4	Aqueous	4/22/2015	1500	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
SR3-Seep-1-042215	460-93682-5	Aqueous	4/22/2015	1530	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	0.57 J	**0.23 J**	<0.24	<0.30	<0.32	<0.25	<0.28	0.80	ND
SW-PAB-01	460-93682-6	Aqueous	4/22/2015	1540	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
SW-PAB-00	460-93682-8	Aqueous	4/22/2015	1630	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
TB	460-93682-9	Aqueous	4/21/2015	---	<1.1	<0.26	<0.24	<0.25	<0.33	0.44 J	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	0.44	ND

KEY:
ug/L - micrograms per liter
Ace - Acetone
c-DCE - cis-1,2-Dichloroethene
1,1-DCA - 1,1-Dichloroethane
1,2-DCA - 1,2-Dichloroethane
1,4-Dcb - 1,4-Dichlorobenzene
MeC - Methylene Chloride
Cyc - Cyclohexane
1,4-Dio - 1,4-Dioxane
Dcfm - Dichlorodifluoromethane
Mch - Methylcyclohexane
Cle - Chloroethane
Ben - Benzene
Clb - Chlorobenzene
Etb - Ethylbenzene
Iso - Isopropylbenzene
Tol - Toluene
Xyl - Total Xylenes
VOCs - Volatile Organic Compounds
TICs - Tentatively Identified Compounds
ND - Not Detected above the Method Detection Limit

NOTES:
* - Interim Generic Criteria for synthetic organic compounds lacking evidence of carcinogenicity is 100 ug/L each and 500 ug/L total.
J - Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
BOLD and Shaded - Indicates an exceedance of the New Jersey Department of Environmental Protection Surface Water Quality Standards (FW2).

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS:
VOLATILE ORGANIC COMPOUNDS
Ringwood Mines
Ringwood Borough, Passaic County, New Jersey
(Concentrations reported in ug/L)

PARAMETER					Ace	c-DCE	1,1-DCA	1,2-DCA	1,4-Dcb	MeC	Cyc	1,4-Dio	Dcfm	Mch	Cle	Ben	Clb	Etb	Iso	Tol	Xyl	Total VOCs	VOC TICs
NJDEP CLASS II-A GROUNDWATER QUALITY CRITERIA					6,000	70	50	2	75	3	---	10	1,000	---	5	1	50	700	700	600	1000	---	100/500*
Well	Lab Sample No.	Sample Matrix	Collection Date	Collection Time																			
OB-21	460-93547-1	Aqueous	4/20/2015	1150	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
RW-7	460-93547-2	Aqueous	4/20/2015	1450	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
OB-20A	460-93618-1	Aqueous	4/21/2015	0925	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
OB-20B	460-93618-2	Aqueous	4/21/2015	1315	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	0.96 J	<8.7	<0.14	0.39 J	2.2	0.31 J	<0.24	<0.30	<0.32	<0.25	<0.28	3.86	5.3
OB-27	460-93618-3	Aqueous	4/21/2015	1535	<1.1	0.44 J	0.37 J	0.26 J	<0.33	<0.21	1.5	<8.7	<0.14	0.91 J	**62**	**3**	<0.24	<0.30	2.5	<0.25	<0.28	70.98	76
OB-11R	460-93618-5	Aqueous	4/21/2015	1735	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	2.3	<8.7	<0.14	<0.22	**14**	**2.6**	<0.24	<0.30	0.67 J	<0.25	<0.28	19.57	13.2
RW-6A	460-93618-6	Aqueous	4/21/2015	1920	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	3.3	<8.7	<0.14	1.0	1.6	**8.4**	<0.24	<0.30	7.1	<0.25	38	59.4	153.5
SC-1	460-93682-1	Aqueous	4/22/2015	1010	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	2.1	<8.7	0.20 J	1.6	1.8	**1.4**	<0.24	2.2	1.5	0.36 J	59	70.16	10.6
Duplicate	460-93682-10	Aqueous	---	---	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	1.5	1.4	**1.5**	<0.24	2.6	1.6	0.39 J	64	72.99	18.7
RW-6	460-93682-2	Aqueous	4/22/2015	1250	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	1.3	**1.6**	<0.24	<0.30	<0.32	<0.25	<0.28	2.9	ND
PMP-50-042215	460-93682-7	Aqueous	4/22/2015	1540	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
PM Air Shaft-180-	460-93796-1	Aqueous	4/24/2015	1100	<1.1	<0.26	0.70 J	<0.25	0.75 J	<0.21	1.8	**25 J**	<0.14	0.36 J	**17**	**7.8**	1.4	<0.30	1.9	<0.25	0.63 J	57.34	ND
PM Air Shaft-230-	460-93796-2	Aqueous	4/24/2015	1230	<1.1	0.37 J	<0.24	<0.25	<0.33	<0.21	0.32 J	<8.7	<0.14	<0.22	4.1	**2.3**	0.42 J	<0.30	0.50 J	<0.25	<0.28	8.01	ND
TB	460-93796-3	Aqueous	4/24/2015	---	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
TB	460-93547-2	Aqueous	4/17/2015	---	12	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	12	ND
TB	460-93618-4	Aqueous	4/20/2015	---	<1.1	<0.26	<0.24	<0.25	<0.33	<0.21	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	ND	ND
TB	460-93682-9	Aqueous	4/21/2015	---	<1.1	<0.26	<0.24	<0.25	<0.33	0.44 J	<0.26	<8.7	<0.14	<0.22	<0.37	<0.09	<0.24	<0.30	<0.32	<0.25	<0.28	0.44	ND

KEY:
ug/L - micrograms per liter
Ace - Acetone
c-DCE - cis-1,2-Dichloroethene
1,1-DCA - 1,1-Dichloroethane
1,2-DCA - 1,2-Dichloroethane
1,4-Dcb - 1,4-Dichlorobenzene
MeC - Methylene Chloride
Cyc - Cyclohexane
1,4-Dio - 1,4-Dioxane
Dcfm - Dichlorodifluoromethane
Mch - Methylcyclohexane
Cle - Chloroethane
Ben - Benzene
Clb - Chlorobenzene
Etb - Ethylbenzene
Iso - Isopropylbenzene
Tol - Toluene
Xyl - Total Xylenes
VOCs - Volatile Organic Compounds
TICs - Tentatively Identified Compounds
ND - Not Detected above the Method Detection Limit

NOTES:
* - Interim Generic Criteria for synthetic organic compounds lacking evidence of carcinogenicity is 100 ug/L each and 500 ug/L total.
J - Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
BOLD and Shaded - Indicates an exceedance of the New Jersey Department of Environmental Protection (NJDEP) Class II-A Groundwater Quality Criteria (GWQC).

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS:
TOTAL AND DISSOLVED METALS
Ringwood Mines
Ringwood Borough, Passaic County, New Jersey
(Concentrations reported in ug/L)

PARAMETER					Total Fe	Dissolved Fe	Total Na	Dissolved Na	Total Mg	Dissolved Mg	Total Ca	Dissolved Ca
NJDEP CLASS II-A GROUNDWATER QUALITY CRITERIA					300	300	50,000	50,000	---	---	---	---
Well	Lab Sample No.	Sample Matrix	Collection Date	Collection Time								
OB-21	460-93547-1	Aqueous	4/20/2015	1150	**2,120**	65.4 J	3,540 J	3,810 J	5,040	4,790 J	10,600	10,900
RW-7	460-93547-2	Aqueous	4/20/2015	1450	**504**	ND	3,720 J	4,130 J	4,180 J	4,280 J	11,600	12,000
OB-20A	460-93618-1	Aqueous	4/21/2015	0925	**26,500**	ND	3,090 J	3,290 J	3,240 J	3,290 J	29,500	30,000
OB-20B	460-93618-2	Aqueous	4/21/2015	1315	**44,500**	ND	4,700 J	4,740 J	11,300	11,500	59,100	58,800
OB-27	460-93618-3	Aqueous	4/21/2015	1535	**60,200**	**726**	2,900 J	2,970 J	5,330	5,550	38,700	39,600
OB-11R	460-93618-5	Aqueous	4/21/2015	1735	**68,200**	**16,600**	3,120 J	3,320 J	6,870	7,370	53,500	56,000
RW-6A	460-93618-6	Aqueous	4/21/2015	1920	**23,100**	**12,500**	7,060	7,050	17,600	17,700	77,900	77,300
SC-1	460-93682-1	Aqueous	4/22/2015	1010	**78,200**	**51,300**	3,530 J	3,520 J	4,450 J	4,410 J	38,300	37,900
Duplicate	460-93682-10	Aqueous	---	---	**78,600**	**43,800**	3,560 J	3,660 J	4,460 J	4,600 J	38,300	39,200
RW-6	460-93682-2	Aqueous	4/22/2015	1250	**31,800**	**6,450**	9,390	8,670	11,800	11,900	67,900	66,700
PMP-50-042215	460-93682-7	Aqueous	4/22/2015	1540	**409**	ND	2,120 J	1,710 J	1,220 J	983 J	4,050 J	3,260 J
PM Air Shaft-180-042415	460-93796-1	Aqueous	4/24/2015	1100	**96,800**	**83,400**	5,510	5,740	5,250	5,460	58,200	60,200
PM Air Shaft-230-042415	460-93796-2	Aqueous	4/24/2015	1230	**28,100**	**25,700**	3,100 J	3,540 J	2,400 J	2,910 J	19,700	26,500

KEY:
ug/L - micrograms per liter
Fe - Iron
Na - Sodium
Mg - Magnesium
Ca - Calcium
ND - Not Detected above the Method Detection Limit

NOTES:
Sample collection times denoted in military time.
J - The result is less than the specified quantitation limit but greater than or equal to the method detection limit.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS:
GEOCHEMICAL PARAMETERS
Ringwood Mines
Ringwood Borough, Passaic County, New Jersey
(Concentrations reported in mg/L)

PARAMETER					Alkalinity (mg/L)	Bicarbonate Alkalinity as CaCO3/L	Carbonate Alkalinity as CaCO3/L	Chloride (mg/L)	Nitrate/Nitrite as N (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
NJDEP CLASS II-A GROUNDWATER QUALITY CRITERIA					---	---	---	250	10	250	500
Well	Lab Sample No.	Sample Matrix	Collection Date	Collection Time							
OB-21	460-93547-1	Aqueous	4/20/2015	1150	NA	NA	NA	NA	0.078	6.9	66.0
RW-7	460-93547-2	Aqueous	4/20/2015	1450	NA	NA	NA	NA	0.026 J	16.6	70.0
OB-20A	460-93618-1	Aqueous	4/21/2015	0925	NA	NA	NA	NA	0.032 J	NA	125
OB-20B	460-93618-2	Aqueous	4/21/2015	1315	234	234	ND	NA	0.019 J	ND	295
OB-27	460-93618-3	Aqueous	4/21/2015	1535	153	153	ND	2.5 J	0.020 J	ND	183
OB-11R	460-93618-5	Aqueous	4/21/2015	1735	204	204	ND	3.0 J	ND	ND	224
RW-6A	460-93618-6	Aqueous	4/21/2015	1920	338	338	ND	2.5 J	0.023 J	ND	376
SC-1	460-93682-1	Aqueous	4/22/2015	1010	183	183	ND	2.5 J	ND	ND	253
Duplicate	460-93682-10	Aqueous	---	---	174	174	ND	2.0 J	ND	ND	251
RW-6	460-93682-2	Aqueous	4/22/2015	1250	245	245	ND	10	ND	ND	311
PMP-50-042215	460-93682-7	Aqueous	4/22/2015	1540	15.7	15.7	ND	1.5 J	ND	5.4	53.0
PM Air Shaft-180-042415	460-93796-1	Aqueous	4/24/2015	1100	218	218	ND	3.5 J	0.037 J	ND	285
PM Air Shaft-230-042415	460-93796-2	Aqueous	4/24/2015	1230	77.8	77.8	ND	3.0 J	ND	3.3 J	118

KEY:
mg/L - milligrams/L
ND - Not Detected above the Method Detection Limit
NA - Not Analyzed

NOTES:
Sample collection times denoted in military time.
J - The result is less than the specified quantitation limit but greater than or equal to the method detection limit.

Table 13
Groundwater Monitoring Results: 2004-2014

Site-Related Groundwater Remedial Investigation Report
Ringwood Mines/Landfill Superfund Site
Ringwood, New Jersey

Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
CM SHAFT	50'	5/7/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		9/12/2014	< 0.21	< 2.6	< 3.8 B	< 2.6	< 1.3	NA	NA
	100'	5/7/2012	< 0.22	< 0.97	1.7 B	< 0.97	< 1.7	NA	NA
		9/18/2014	< 0.21	R	2.4 J	R	< 1.3	NA	NA
	160'	5/9/2012	< 0.22	< 0.97	< 3.0	< 0.97	< 1.7	NA	NA
		9/18/2014	< 0.21	< 2.6	**13.2 J**	< 2.6	< 3.0 B	NA	NA
	275'	5/9/2012	< 0.22	< 0.97	< 3.0	< 0.97	< 1.7	NA	NA
		9/19/2014	< 0.21	< 2.6	**104**	< 2.6	< 3.0 B	NA	NA
OB-01	5-31'	11/1/2004	< 1.0	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		12/30/2004	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/26/2006	< 0.21	< 1.5 J	< 2.6	1.8 BJ	< 2.6	NA	NA
		4/6/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/9/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/30/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/8/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/2/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/22/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/26/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/20/2011	< 0.26	< 0.92	1.2 B	< 0.92	< 0.94	NA	NA
		4/26/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
OB-02	8-42'	10/13/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/2/2006	< 0.21	< 1.5	< 2.6	2.0	< 2.6	NA	NA
		4/6/2007	< 0.21	< 1.5	3.2	< 1.5	< 2.8	NA	NA
		10/8/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	1.8 B	< 1.7	< 1.4	NA	NA
		9/17/2008	< 0.26	< 1.7	< 1.4	1.7 B	< 1.4	NA	NA
		6/30/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/16/2011	< 0.26	< 0.92	1.3 B	< 0.92	< 1.1	NA	NA
		4/19/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/18/2013	< 0.28	< 1.5	2.6 B	< 1.5	< 2.4	NA	NA
		9/15/2014	< 0.21	< 2.6	< 1.3	< 3.0 B	< 1.3	NA	NA

Table 13
Groundwater Monitoring Results: 2004-2014

Site-Related Groundwater Remedial Investigation Report
Ringwood Mines/Landfill Superfund Site
Ringwood, New Jersey

Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
OB-03	9-24'	10/13/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/28/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/3/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/8/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/9/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		6/30/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		4/23/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		4/23/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/15/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/8/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		9/8/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-04	28-61'	10/14/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/29/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/6/2007	< 0.21	< 1.5	4.1	< 1.5	< 2.8	NA	NA
		10/9/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	1.6 B	< 1.7	< 1.4	NA	NA
		9/10/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/1/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/26/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	1.1 B	1.2 B	< 0.92	< 0.94	NA	NA
		4/27/2012	< 0.22	< 0.97	1.9 J	< 0.97	< 1.7	NA	NA
		11/13/2013	< 0.28	1.7 B	< 3.9 B	2.2 B	< 3.4 B	NA	NA
		9/15/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-05	18-63'	10/15/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/2/2006	< 0.21	< 1.5	< 2.6	< 1.5	2.6 B	NA	NA
		4/4/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/9/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	1.5 B	< 1.7	1.4 B	NA	NA
		9/9/2008	< 0.26	< 1.7	1.7 B	< 1.7	< 1.4	NA	NA
		7/1/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/26/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	1.2 B	< 0.92	< 0.94	NA	NA
		4/19/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		4/19/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/11/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/8/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
OB-06	10-36'	11/2/2004	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		12/30/2004	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/26/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/6/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/9/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		5/1/2008	< 0.26	< 1.7	< 1.4	< 1.7	1.9 B	NA	NA
		9/8/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/2/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		11/15/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/8/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-07	14-42'	10/13/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/13/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/28/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/11/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/9/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/30/2008	< 0.26	< 1.7	2.9 B	2.0 B	1.9 B	NA	NA
		9/10/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/10/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/1/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	1.2 B	< 0.92	1.3 B	NA	NA
		4/19/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/12/2013	< 0.28	< 3.0 B	< 2.4	< 3.0 B	< 2.4	NA	NA
		11/12/2013	< 0.28	< 3.0 B	< 2.4	< 3.0 B	< 2.4	NA	NA
		9/5/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		9/5/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-10	10-20'	10/14/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/2/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/2/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/12/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/29/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/10/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/1/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/26/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		5/17/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		4/20/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/14/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/9/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		9/9/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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OB-11	25-40'	10/14/2004	1.2	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
OB-11R	25-40'	6/11/2010	5.2	24.9	< 1.9	3.8	< 1.9	NA	NA
		5/18/2011	3.7	23.9	7.4	19.5	2.4 B	NA	NA
		4/26/2012	3.7	21.0	4.5	7.5 J	3.7 J	NA	NA
		11/8/2013	4.7	25.3	< 2.4	7.3	< 2.4	NA	NA
		9/11/2014	3.5	26.6	< 1.3	6.1	< 1.3	31.2	0.4 J
		9/11/2014	NA	NA	NA	NA	NA	31	< 0.2
		3/20/2015	3.2	NA	NA	NA	NA	NA	NA
		4/21/2015	2.9	NA	NA	NA	NA	NA	NA
OB-12	9-40'	11/1/2004	< 1.0	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		12/30/2004	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/28/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/3/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/8/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/9/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		6/30/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/30/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		4/19/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/18/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/15/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-13	8-60'	10/13/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/3/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/3/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/8/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/10/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/1/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		4/20/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/13/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/8/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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OB-14A	4-14'	10/12/2004	< 0.50	**16.7**	< 3.0	**19.6**	< 3.0	NA	NA
		9/27/2006	< 0.21	**4.5 J**	< 2.6	**5.5 J**	< 2.6	NA	NA
		4/9/2007	< 0.21	2.4	3.3	< 1.5	2.9 B	NA	NA
		10/11/2007	< 0.19	**23.1**	1.4 B	**5.6**	< 0.94	NA	NA
		10/11/2007	< 0.19	**21.6**	1 B	**5**	1.2 B	NA	NA
		4/30/2008	< 0.26	**14.4**	4.0	**3.8**	2.7 B	NA	NA
		9/11/2008	< 0.26	2.3 BJ	< 1.4	< 1.7	< 1.4	NA	NA
		7/6/2009	< 0.23	< 3.0	< 1.7	< 3.0	< 1.7	NA	NA
		10/23/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/28/2010	< 0.23	1.8 B	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	< 0.92	3.8 J	< 0.92	< 3.0	NA	NA
		4/18/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/6/2013	< 0.28	2.8 B	< 3.6 B	< 1.5	< 2.4	NA	NA
		9/3/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		9/11/2014	< 0.21	**4.8**	< 1.3	**3.5**	< 1.3	**5.2**	0.5 J
OB-14B	25-35'	10/12/2004	< 0.50	*< 5.0*	3.6	*< 5.0*	< 3.0	NA	NA
		9/27/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/9/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/11/2007	< 0.19	2.8 B	1.1 B	1.6 B	< 0.94	NA	NA
		4/30/2008	< 0.26	2.1 B	3.2	< 1.7	2.1 B	NA	NA
		9/11/2008	< 0.26	2 BJ	< 1.4	2.6 BJ	< 1.4	NA	NA
		7/6/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/23/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/28/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	1.6 J	4.8 J	< 0.92	< 3.0	NA	NA
		4/18/2012	< 0.22	< 3	< 1.7	< 0.97	< 1.7	NA	NA
		11/6/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/11/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-15B	25-35'	10/12/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/3/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/12/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/16/2007	< 0.19	< 1.1	1.0 B	< 1.1	< 0.94	NA	NA
		5/2/2008	< 0.26	< 1.7	2.6 B	< 1.7	2.1 B	NA	NA
		9/16/2008	< 0.26	1.7 B	< 1.4	< 1.7	< 1.4	NA	NA
		7/6/2009	< 0.23	< 3.0	< 1.7	< 2.4	< 1.7	NA	NA
		10/26/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/11/2010	< 0.23	**3.2**	2.0 B	< 1.4	< 1.9	NA	NA
		5/23/2011	< 0.22	1.2 B	2.0 B	< 0.92	< 0.94	NA	NA
		4/24/2012	< 0.22	1.5 B	< 1.7	1.4 B	< 1.7	NA	NA
		11/20/2013	< 0.28 J	2.9 B	< 2.4	< 1.5	< 2.4	NA	NA
		9/5/2014	< 0.21	< 2.6	1.4 B	< 2.6	< 1.3	NA	NA

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OB-16	5-15'	10/12/2004	< 0.50	**7.6**	< 3.0	**6.3**	< 3.0	NA	NA
		9/27/2006	< 0.21	**6.2**	< 2.6	**4.2**	< 2.6	NA	NA
		4/10/2007	< 0.21	**4.4**	< 2.8	**3.3**	< 2.8	NA	NA
		10/10/2007	< 0.19	**8.8**	< 0.94	**3.6**	< 0.94	NA	NA
		5/1/2008	< 0.26	**4.6**	3.7	< 1.7	1.6 B	NA	NA
		9/11/2008	< 0.26	**7.4**	< 1.4	2.6 BJ	< 1.4	NA	NA
		7/8/2009	< 0.23	**5.1**	< 1.7	< 2.4	< 1.7	NA	NA
		10/23/2009	NA	**6.1**	< 1.7	< 2.4	< 1.7	NA	NA
		10/29/2009	< 0.23	NA	NA	NA	NA	NA	NA
		5/27/2010	< 0.23	**7.8**	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	**9.1**	< 3.0	**6.0**	< 3.0	NA	NA
		4/17/2012	< 0.22	**6.9 J**	< 1.7	< 3	1.8 B	NA	NA
		11/6/2013	< 0.28	**9.9**	< 2.4	**6.4**	< 2.4	NA	NA
		9/10/2014	< 0.21	**4.7**	1.3 B	< 2.6	1.8 B	**12.7**	0.8 J
OB-17	3-13'	10/11/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/27/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/10/2007	< 0.21	< 1.5	3.5	< 1.5	< 2.8	NA	NA
		10/10/2007	< 0.19	2.5 B	1.7 B	< 1.1	< 0.94	NA	NA
		5/1/2008	< 0.26	< 1.7	2.3 B	< 1.7	2.4 B	NA	NA
		9/11/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/8/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/23/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/27/2010	< 0.23	1.9 B	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	< 0.92	< 3.0	< 0.92	< 3.0	NA	NA
		4/17/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/6/2013	< 0.28	1.9 B	< 2.4	< 1.5	< 2.4	NA	NA
		9/3/2014	< 0.21	**3.5**	< 1.3	< 2.6	< 1.3	NA	NA
OB-18	10-20'	10/11/2004	< 0.50	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/26/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/10/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		4/10/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/10/2007	< 0.19	< 1.1	1.2 B	< 1.1	1.0 B	NA	NA
		5/1/2008	< 0.26	< 1.7	< 1.4	< 1.7	1.8 B	NA	NA
		9/11/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/8/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/23/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/27/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 1.1	NA	NA
		4/17/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/6/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/3/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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OB-19	5-20'	10/3/2006	0.55 J	**3.1**	**9.4**	< 1.5	< 2.6	NA	NA
		4/9/2007	0.59 J	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/15/2007	< 0.19	1.9 B	1.3 B	< 1.1	1.1 B	NA	NA
		10/15/2007	< 0.19	1.8 B	1.0 B	< 1.1	< 0.94	NA	NA
		4/29/2008	0.56 J	< 1.7	1.4 B	< 1.7	< 1.4	NA	NA
		9/12/2008	0.37 J	**4 J**	< 1.4	< 1.7	< 1.4	NA	NA
		7/7/2009	**1.2**	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/27/2009	0.39 J	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/1/2010	0.29 J	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/20/2011	0.90 J	< 0.92	3.5	< 0.92	1.0 B	NA	NA
		4/25/2012	0.32 J	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/11/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/4/2014	< 0.21	**6.0**	< 1.3	< 2.6	< 1.3	NA	NA
OB-20A	5-20'	10/4/2006	0.36 J	**13.9**	< 2.6	**13.1**	< 2.6	NA	NA
		4/3/2007	0.48 J	**24.6**	< 2.8	**20.8**	< 2.8	NA	NA
		10/11/2007	0.36 J	**18.6**	3	2.4 B	< 0.94	NA	NA
		4/29/2008	< 0.26	**3.7**	2.1 B	< 1.7	1.8 B	NA	NA
		9/15/2008	< 0.26	**7.8**	< 1.4	**5.3**	< 1.4	NA	NA
		7/9/2009	< 0.23	< 3.0	< 1.7	< 3.0	< 1.7	NA	NA
		10/28/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/2/2010	< 0.23	**7.9**	1.9 B	< 1.4	< 1.9	NA	NA
		5/18/2011	< 0.22	< 0.92	**5.6**	< 0.92	1.0 J	NA	NA
		5/18/2011	< 0.22	< 0.92	2.8 B	< 0.92	< 0.94	NA	NA
		4/27/2012	< 0.22	< 3.0	3.0 J	< 3.0	< 1.7	NA	NA
		11/8/2013	< 0.28	**7.2**	**11.2 J**	**3.4**	< 2.4	NA	NA
		11/8/2013	< 0.28	**5.7**	< 2.4 J	2.2 B	< 2.4	NA	NA
		9/5/2014	< 0.21	**7.7**	< 1.3	3.9	< 1.3	NA	NA
		3/19/2015	<0.21	NA	NA	NA	NA	NA	NA
		4/21/2015	<0.24	NA	NA	NA	NA	NA	NA
OB-20B	24-34'	10/4/2006	**2.0**	1.5 B	3.1	< 1.5	< 2.6	NA	NA
		10/4/2006	**1.9**	1.9 B	3.5	1.6 B	< 2.6	NA	NA
		4/5/2007	**1.4**	1.5 B	< 2.8	< 1.5	2.9 B	NA	NA
		4/5/2007	**1.5**	< 1.5	< 2.8	< 1.5	3.6	NA	NA
		10/11/2007	**1.5**	1.2 B	1.1 B	< 1.1	1 B	NA	NA
		4/29/2008	**1.4**	< 1.7	3.8	< 1.7	2.4 B	NA	NA
		9/15/2008	0.90 J	**3.8**	< 1.4	< 1.7	< 1.4	NA	NA
		7/9/2009	0.83 J	< 3.0	< 1.7	< 2.4	< 1.7	NA	NA
		10/28/2009	0.77 J	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/2/2010	**1.1**	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/18/2011	0.86 J	< 0.92	2.5 B	< 0.92	2.2 B	NA	NA
		4/27/2012	0.66 J	< 0.97	2.8 J	< 0.97	< 1.7	NA	NA
		11/8/2013	0.52 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/5/2014	0.37 J	2.7 B	< 1.3	2.9 B	< 1.3	NA	NA
		10/9/2014	0.40 J	**3.9**	< 1.3	**3.1**	< 1.3	NA	NA
		10/9/2014	0.40 J	**3.4**	< 1.3	**3.7**	< 1.3	NA	NA
		3/19/2015	0.46J	NA	NA	NA	NA	NA	NA
		4/21/2015	0.36J	NA	NA	NA	NA	NA	NA

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OB-21	6-21'	10/5/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		10/5/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/9/2007	< 0.21	**10.4**	**29.2**	< 1.5	< 2.8	NA	NA
		10/15/2007	< 0.19	**9.0 B**	**27.0**	< 1.1	< 0.94	NA	NA
		4/29/2008	< 0.26	< 1.7	2.1 B	< 1.7	< 1.4	NA	NA
		9/12/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/7/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		7/7/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/27/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/1/2010	< 0.23	< 1.4	2.5 B	< 1.4	< 1.9	NA	NA
		5/18/2011	< 0.22	< 0.92	2.8 B	< 0.92	< 0.94	NA	NA
		4/24/2012	< 0.22	< 3.0	< 1.7	< 0.97	< 1.7	NA	NA
		11/7/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/4/2014	< 0.21	2.9 B	< 1.3	< 2.6	< 1.3	NA	NA
		9/4/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		4/20/2015	<0.24	NA	NA	NA	NA	NA	NA
OB-22	10-20'	11/30/2006	< 0.21	**9.5**	**19.5**	< 1.5	< 2.8	NA	NA
		4/4/2007	< 0.21	**5.2**	**9.1**	< 1.5	< 2.8	NA	NA
		5/1/2008	< 0.26	< 1.7	2.3 B	< 1.7	< 1.4	NA	NA
		7/8/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/28/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 1.1	NA	NA
		4/19/2012	< 0.22	NA	NA	NA	NA	NA	NA
OB-23	10-20'	11/28/2006	< 0.21	1.8 B	< 2.8 J	< 1.5	3.0 J	NA	NA
		4/11/2007	< 0.21	< 1.5	**24.1**	< 1.5	< 2.8	NA	NA
		5/2/2008	< 0.26	< 1.7	2.5 B	< 1.7	< 1.4	NA	NA
		7/8/2009	< 0.23	< 2.4	**7.5**	< 2.4	< 1.7	NA	NA
		5/28/2010	< 0.23	2.2 B	2.2 B	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	< 0.92	**5.5 J**	< 0.92	< 3.0	NA	NA
OB-24	5-15'	11/28/2006	< 0.21	< 1.5	2.8 B	< 1.5	< 2.8	NA	NA
		4/11/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/12/2007	< 0.19	1.9 B	1.2 BJ	< 1.1	1.5 BJ	NA	NA
		4/30/2008	< 0.26	1.7 B	1.5 B	< 1.7	< 1.4	NA	NA
		4/30/2008	< 0.26	< 1.7	1.6 B	1.7 B	< 1.4	NA	NA
		9/11/2008	< 0.26	2.5 BJ	< 1.4	< 1.7	< 1.4	NA	NA
		7/8/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/26/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/28/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	< 0.92	4.2 J	< 0.92	< 3.0	NA	NA
		4/18/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/6/2013	< 0.28	< 1.5	< 3.0 B	< 1.5	< 2.4	NA	NA
		11/6/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/3/2014	0.50	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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OB-25	10-20'	11/30/2006	< 0.21	**9.1 J**	**31.5 J**	< 1.5	< 2.8	NA	NA
		11/30/2006	< 0.21	**23.1 J**	**59.3 J**	< 1.5	< 2.8	NA	NA
		4/12/2007	< 0.21	**7.1**	**594**	< 1.5	< 2.8	NA	NA
		10/12/2007	< 0.19	1.1 B	3.1	< 1.1	1.5 B	NA	NA
		4/29/2008	< 0.26	2.1 B	**13.8**	< 1.7	< 1.4	NA	NA
		9/18/2008	< 0.26	**19.8**	**45.7**	< 1.7	< 1.4	NA	NA
		7/6/2009	< 0.23	**8.4 J**	**19.9**	< 2.4	< 1.7	NA	NA
		10/26/2009	< 0.23	< 2.4	4.3	< 2.4	2.0 B	NA	NA
		6/1/2010	< 0.23	1.7 B	**53.6**	< 1.4	< 1.9	NA	NA
		5/20/2011	< 0.26	< 0.92	4.2	< 0.92	< 0.94	NA	NA
		4/20/2012	< 0.22	2.1 J	**17.2**	< 0.97	< 1.7	NA	NA
		11/12/2013	< 0.28	**9.6 J**	**40.3**	NA	NA	NA	NA
		9/9/2014	< 0.21	< 2.6	3.8	< 2.6	2.2 B	NA	NA
OB-26	9-24'	5/9/2008	< 0.26	< 1.7 B	1.7 B	< 1.7 B	1.5 B	NA	NA
		9/16/2008	< 0.26	2.7 B	< 1.4	< 1.7	< 1.4	NA	NA
		7/2/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/22/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/26/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/17/2011	< 0.26	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		4/20/2012	< 0.22	< 0.97	5.0 J	< 0.97	< 1.7	NA	NA
OB-27	24.5-39.5'	6/1/2010	**5.9**	**20.5**	< 1.9	2.9 B	< 1.9	NA	NA
		5/18/2011	**6.5**	NA	NA	NA	NA	NA	NA
		4/25/2012	**5.5**	**21.5**	< 1.7	**18.0**	< 1.7	NA	NA
		11/11/2013	**3.5**	**25.5**	< 2.4	**5.6**	< 2.4	NA	NA
		11/11/2013	**3.5**	**24.5**	< 2.4	**9.5**	< 2.4	NA	NA
		9/10/2014	**2.6**	**23.0**	1.4 B	**4.5**	< 1.3	28	0.3 J
		3/20/2015	**2.8**	NA	NA	NA	NA	NA	NA
		4/21/2015	**3.1**	NA	NA	NA	NA	NA	NA
OB-28	3-18'	5/27/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/19/2011	< 0.26	**9.8**	**24.4**	< 0.92	4.0 J	NA	NA
		4/17/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/6/2013	< 0.28	< 1.5	< 4.2 B	< 1.5	< 2.4	NA	NA
		9/10/2014	< 0.21	< 2.6	1.7 B	< 2.6	1.5 B	NA	NA
OB-29	18-35'	5/11/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/14/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/9/2014	< 0.21	< 2.6	< 1.3	< 2.6	1.6 B	NA	NA
OB-30A	8-18'	5/10/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
OB-30B	21-36'	5/11/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/7/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/4/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
OB-30C	40-50'	5/9/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/7/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/4/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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PM AIR SHAFT	50'	4/23/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		7/11/2012	< 0.24	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		9/16/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		4/24/2015	<0.24	NA	NA	NA	NA	NA	NA
	180'	5/7/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/18/2008	**26.4**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/10/2009	**7.4**	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/29/2009	0.60 J	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/4/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/24/2011	**2.5**	< 0.92	2.5 B	< 0.92	< 0.94	NA	NA
		4/23/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		7/11/2012	< 0.24	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		7/11/2012	< 0.24	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		9/16/2014	**6.6**	< 2.6	13.3	< 2.6	1.5 B	NA	NA
		4/24/2015	**2.3**	NA	NA	NA	NA	NA	NA
	230'	5/7/2008	**31.8**	< 1.7	**6.4**	< 1.7	**5.4**	NA	NA
		9/18/2008	**29.1**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/10/2009	**7.6**	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/29/2009	**31.2**	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/4/2010	**31.0**	1.8 B	< 1.9	< 1.4	< 1.9	NA	NA
		5/24/2011	**33.2**	< 0.92	2.2 B	< 0.92	1.3 B	NA	NA
		4/24/2012	< 0.22	1.0 B	< 1.7	< 0.97	< 1.7	NA	NA
		4/24/2012	< 0.22	< 0.97	1.9 B	< 0.97	< 1.7	NA	NA
		7/11/2012	**28.5**	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		9/17/2014	**32.9**	4.2	3.4 J	4.9	2.2 J	NA	NA
		4/24/2015	**7.8**	NA	NA	NA	NA	NA	NA
RW-1	10-31'	11/1/2004	< 1.0	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		4/1/2005	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		4/1/2005	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/9/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/18/2007	< 0.21	< 1.5	3.8	< 1.5	< 2.8	NA	NA
		10/9/2007	< 0.19	< 1.1	2.5 B	< 1.1	< 0.94	NA	NA
		5/6/2008	< 0.26	< 1.7	3.4	< 1.7	1.5 B	NA	NA
		9/18/2008	**9.8**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/17/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	58-79'	4/1/2005	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/9/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/18/2007	< 0.21	< 1.5	3.1	< 1.5	< 2.8	NA	NA
		10/10/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		5/6/2008	< 0.26	< 1.7	2.0 B	< 1.7	2.2 B	NA	NA
		9/19/2008	**8.6**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		9/19/2008	**8.4**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/17/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA

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RW-1	64-74'	6/30/2010	< 0.23	**4.5**	< 1.9	2.2 B	< 1.9	NA	NA
		5/26/2011	< 0.22	**4.0**	< 0.94	**3.2**	< 3.0	NA	NA
		4/17/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
	97-118'	4/1/2005	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/10/2006	< 0.21	< 1.5	< 2.6 J	< 1.5	4.5 J	NA	NA
		4/18/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/10/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		5/7/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		5/7/2008	< 0.26	< 1.7	1.9 B	< 1.7	2.6 B	NA	NA
		9/19/2008	**2.0**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/17/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	125-151'	3/30/2005	< 0.31	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/10/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/18/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/10/2007	< 0.19	< 1.1	1.2 B	< 1.1	< 0.94	NA	NA
		5/7/2008	< 0.26	< 1.7	2.1 B	< 1.7	2.2 B	NA	NA
		9/22/2008	**6.2**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/17/2009	< 0.23	< 2.4	2.3 B	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	131-141'	6/30/2010	< 0.23	< 1.4	< 1.9	2.5 B	4.9	NA	NA
		5/26/2011	< 0.22	2.3 B	< 0.94	1.0 B	< 0.94	NA	NA
		4/17/2012	< 0.22	3 J	< 1.7	< 3	< 1.7	NA	NA
		6/26/2012	NA	NA	NA	NA	NA	NA	NA
RW-2	19-20'	10/26/2004	< 1.0	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		10/4/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/10/2007	< 0.21	< 1.5	4.1	< 1.5	< 2.8	NA	NA
		10/15/2007	< 0.19	< 1.1	1.2 B	< 1.1	< 0.94	NA	NA
		5/1/2008	< 0.26	< 1.7	4.3	< 1.7	2.9 B	NA	NA
		9/16/2008	**7.4**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/10/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		7/10/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/26/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/26/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	102-133	10/26/2004	< 1.0	*< 5.0*	**7.3**	*< 5.0*	< 3.0	NA	NA
		10/4/2006	< 0.21	< 1.5	< 2.6	< 1.5	3.2	NA	NA
		4/10/2007	< 0.21	< 1.5	**11.2**	< 1.5	< 2.8	NA	NA
		10/15/2007	< 0.19	< 1.1 J	< 0.94	1.1 BJ	< 0.94	NA	NA
		5/1/2008	< 0.26	< 1.7	**5.4**	< 1.7	2.1 B	NA	NA
		9/17/2008	**43.8**	1.7 B	< 1.4	< 1.7	< 1.4	NA	NA
		7/13/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/27/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA

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Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
RW-2	161-192'	10/27/2004	< 1.0	*< 5.0*	**64.6**	*< 5.0*	< 3.0	NA	NA
		4/16/2007	< 0.21	< 1.5	**14.0**	< 1.5	< 2.8	NA	NA
		10/16/2007	< 0.19	< 1.1	1.4 B	< 1.1	< 0.94	NA	NA
		7/13/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/27/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	278-309'	10/27/2004	< 1.0	*< 5.0*	**7.6 J**	*< 5.0*	< 3.0	NA	NA
		10/27/2004	< 1.0	*< 5.0*	**26.4 J**	*< 5.0*	3.2	NA	NA
		10/6/2006	< 0.21	< 1.5	2.8 B	< 1.5	3.6	NA	NA
		4/17/2007	< 0.21	< 1.5	**5.9**	< 1.5	**5.2**	NA	NA
		10/16/2007	< 0.19	< 1.1	3.2	< 1.1	< 0.94	NA	NA
		9/11/2008	*< 6*	< 1.7	**21.2**	< 1.7	< 1.4	NA	NA
		7/13/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/27/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/29/2010	< 0.23	3.0	< 1.9	**3.7**	< 1.9	NA	NA
		5/24/2011	< 0.22	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		5/8/2012	< 0.22	< 0.97	< 1.7	1.3 J	< 1.7	NA	NA
		11/19/2013	< 0.28	**3.8**	< 2.4	< 1.5	< 2.4	NA	NA
		9/26/2014	< 0.21	**5.2**	< 1.3	**4.1**	< 1.3	NA	NA
	441-472'	10/28/2004	< 1.0	**6.8**	**45.5**	*< 5.0*	**9.3**	NA	NA
		4/17/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/17/2007	< 0.19	1.3 B	3.3	< 1.1	< 0.94	NA	NA
		5/5/2008	< 0.26	< 1.7	**22.2**	< 1.7	3.9	NA	NA
		7/14/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/28/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/29/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/3/2011	0.24 J	< 3.0	< 3.0	2.2 J	< 3.0	NA	NA
		5/10/2012	0.23 J	2.5 B	< 1.7	< 3.0	< 1.7	NA	NA
		11/19/2013	< 0.28	< 1.5	< 2.4	**3.4**	< 2.4	NA	NA
		9/26/2014	< 0.21	**8.3**	**5.8**	**7.2**	1.8 B	NA	NA
RW-3	62-100'	10/29/2004	< 1.0	*< 5.0*	< 3.0	*< 5.0*	< 3.0	NA	NA
		9/29/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/5/2007	< 0.21	< 1.5	3.0	< 1.5	< 2.8	NA	NA
		10/12/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		4/30/2008	< 0.26	< 1.7	4.7	< 1.7	2.3 B	NA	NA
		9/8/2008	< 0.26	< 1.7	1.6 B	< 1.7	< 1.4	NA	NA
		7/6/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/19/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/28/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/25/2011	< 0.22	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
		4/27/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/11/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/15/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
RW-3D	140-165'	6/9/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		6/9/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/24/2011	< 0.22	< 0.92	1.5 B	< 0.92	< 0.94	NA	NA
	170-181'	6/9/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/24/2011	< 0.22	< 0.92	1.9 B	< 0.92	< 0.94	NA	NA
		5/24/2011	< 0.22	1.6 B	1.5 B	< 0.92	< 0.94	NA	NA
RW-3DD	175-180'	4/30/2012	< 0.22	**10.4**	< 1.7	**5.4**	< 1.7	NA	NA
		11/12/2013	< 0.28	**21.4**	< 2.4	**23.1**	< 2.4	NA	NA
		9/12/2014	**1.1**	**13.6 J**	< 1.3	**18.7 J**	< 4.5 B	**19.2**	**18**
RW-3DS	155-160'	4/30/2012	< 0.22	**7.4**	< 1.7	**3.3**	< 1.7	NA	NA
		11/12/2013	< 0.28	*< 5.9 B*	3.5	**8.1 J**	< 3.0 B	NA	NA
		9/11/2014	< 0.21	**9.6**	< 1.3	**11.8**	< 1.3	NA	NA
RW-4	56-77'	10/22/2004	< 0.31	*< 5.0*	4.4	*< 5.0*	< 3.0	NA	NA
		10/2/2006	< 0.21	< 1.5	**6.3**	< 1.5	< 2.6	NA	NA
		4/6/2007	< 0.21	< 1.5	5.0	< 1.5	< 2.8	NA	NA
		10/11/2007	< 0.19	< 1.1	1.6 B	< 1.1	< 0.94	NA	NA
		4/28/2008	< 0.26	< 1.7	3.4	< 1.7	< 1.4	NA	NA
		9/15/2008	**14.3**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		6/30/2009	< 0.23	< 2.4	3.4 J	< 2.4	< 1.7	NA	NA
		10/21/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	108-129'	10/22/2004	< 0.31	*< 5.0*	**18.6**	*< 5.0*	< 3.0	NA	NA
		10/2/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/9/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/11/2007	< 0.19	< 1.1	< 0.94	1.5 B	< 0.94	NA	NA
		4/29/2008	< 0.26	< 1.7	3.1	< 1.7	< 1.4	NA	NA
		9/16/2008	**3.3**	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		6/30/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/22/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	328-349'	10/25/2004	< 0.31	*< 5.0*	**12.6**	*< 5.0*	< 3.0	NA	NA
		10/3/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/9/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/11/2007	< 0.19	< 1.1	2.1 B	< 1.1	< 0.94	NA	NA
		4/29/2008	< 0.26	< 1.7	2.5 B	< 1.7	1.8 B	NA	NA
		9/9/2008	0.30 J	< 1.7	1.8 B	2.7 B	< 1.4	NA	NA
		7/2/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/23/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/7/2011	< 0.05	< 0.92	1.3 B	< 0.92	1.4 B	NA	NA
		4/25/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/11/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/9/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA

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RW-4	388-409'	10/25/2004	< 0.31	*< 5.0*	**12.5**	*< 5.0*	3.0	NA	NA
		10/3/2006	< 0.21	< 1.5	3.7	< 1.5	< 2.6	NA	NA
		4/9/2007	< 0.21	< 1.5	3.0 B	< 1.5	< 2.8	NA	NA
		10/11/2007	< 0.19	< 1.1	2.4 B	< 1.1	< 0.94	NA	NA
		4/29/2008	< 0.26	< 1.7	3.3	< 1.7	< 1.4	NA	NA
		9/10/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/2/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		10/23/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/8/2010	< 0.23	< 1.4	3.2	< 1.4	< 1.9	NA	NA
		6/8/2010	< 0.23	< 1.4	2.7 B	< 1.4	< 1.9	NA	NA
		6/25/2010	< 0.23	1.8 B	< 1.9	**5.4**	< 1.9	NA	NA
		6/25/2010	< 0.23	2.0 B	2.0 B	2.2 B	< 1.9	NA	NA
		5/25/2011	< 0.22	< 3.0	< 3.0	< 0.92	< 3.0	NA	NA
		4/26/2012	< 0.22	< 3.0	< 1.7	< 0.97	< 1.7	NA	NA
		11/11/2013	< 0.28	**3.6**	**44.6**	< 1.5	< 2.4	NA	NA
		9/10/2014	< 0.21	**9.6**	**13.8**	< 2.6	2.6 B	NA	NA
RW-4A	62-72'	6/7/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		6/25/2010	< 0.23	1.5 B	< 1.9	< 1.4	< 1.9	NA	NA
		5/25/2011	< 0.22	< 0.92	< 3.0	< 0.92	< 3.0	NA	NA
		4/25/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/8/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/10/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
	113-123'	6/8/2010	< 0.23	3.0	< 1.9	3.0	< 1.9	NA	NA
		6/25/2010	< 0.23	2.6 B	< 1.9	2.0 B	< 1.9	NA	NA
		5/25/2011	< 0.22	< 0.92	< 0.94	< 0.92	< 3.0	NA	NA
		4/25/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/8/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/10/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
RW-5	40-51'	9/27/2006	1.0	1.7 B	**68.4**	< 1.5	< 2.6	NA	NA
		4/13/2007	**1.9**	< 1.5	**44.3**	< 0.94	< 2.8	NA	NA
	64-76'	5/16/2006	**3.4**	**17.7**	**39.8**	NA	NA	NA	NA
		9/29/2006	< 0.21	< 1.5	**24.7**	< 1.5	*< 7.8*	NA	NA
		4/12/2007	**1.5**	< 1.5	**13.9**	NA	NA	NA	NA

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RW-5	99-120'	5/17/2006	**3.0**	*< 3.1*	3.3	*< 3.1*	< 2.6	NA	NA
		10/5/2006	**1.8**	**4.7**	**32.7**	< 1.5	< 2.6	NA	NA
		4/12/2007	**2.6**	< 1.5	**7.0**	< 1.5	4.6	NA	NA
		10/15/2007	**1.8**	< 1.1	1.5 B	< 1.1	1.0 B	NA	NA
		5/2/2008	0.89 J	**4.1**	< 1.4	< 1.7	< 1.4	NA	NA
		9/17/2008	0.41 J	2.4 B	< 1.4	1.8 B	< 1.4	NA	NA
		9/17/2008	0.42 J	2.3 B	< 1.4	< 1.7	< 1.4	NA	NA
		7/7/2009	0.26 J	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/27/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/2/2010	NA	2.1 B	< 1.9	< 1.4	< 1.9	NA	NA
		6/4/2010	0.24 J	NA	NA	NA	NA	NA	NA
		5/20/2011	< 0.26	1.1 B	< 0.94	< 0.92	1.3 B	NA	NA
		4/26/2012	< 0.22	< 3.0	1.9 J	< 3.0	< 1.7	NA	NA
		11/14/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/4/2014	< 0.21	**9.4**	4.7	**7.9**	1.4 B	NA	NA
RW-5A	54-74'	10/15/2007	< 0.19	< 1.1	1.9 B	< 1.1	< 0.94	NA	NA
		4/29/2008	< 0.26	**8.6**	2.9 B	**11.8**	2.5 B	NA	NA
		9/12/2008	< 0.26	**10**	2.2 BJ	**9.7**	< 1.4	NA	NA
		7/7/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/28/2009	< 0.23	**3.5**	< 1.7	< 2.4	< 1.7	NA	NA
		6/1/2010	< 0.23	2.6 B	< 1.9	2.7 B	< 1.9	NA	NA
		6/1/2010	< 0.23	**3.6**	< 1.9	2.1 B	< 1.9	NA	NA
		5/18/2011	< 0.22	2.2 B	1.6 J	1.1 B	< 0.94	NA	NA
		4/25/2012	< 0.22	**4.9 J**	< 1.7	**5.9 J**	< 1.7	NA	NA
		11/8/2013	< 0.28	**6.3**	< 2.4	**6.7**	< 2.4	NA	NA
		9/10/2014	< 0.21	**7.6**	2.2 B	**4.7**	1.8 B	**10.5**	1 J
RW-6	53-64'	5/11/2006	**2.9**	*< 8.0*	3.2	*< 8.0*	< 3.0	NA	NA
		9/27/2006	**3.0**	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/2/2007	**2.6**	1.7 B	4.5	< 1.5	2.9 B	NA	NA
	70-81'	5/11/2006	**2.6**	*< 8.0*	< 3.0	*< 8.0*	< 3.0	NA	NA
		9/27/2006	**2.6**	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/3/2007	**1.9**	< 1.5	**32.3 J**	< 1.5	< 2.8	NA	NA

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RW-6	98-120'	10/10/2006	**4.0**	< 1.5	**6.9 J**	< 1.5	3.1 J	NA	NA
		4/6/2007	**2.7**	< 1.5	4.6	< 1.5	< 2.8	NA	NA
		10/11/2007	**2.6**	2.5 B	< 0.94	1.2 B	1.3 B	NA	NA
		5/2/2008	**1.7**	**3.8**	1.5 B	2.5 B	< 1.4	NA	NA
		9/15/2008	**2.1**	2.4 B	< 1.4	2.1 B	< 1.4	NA	NA
		7/9/2009	**2.0**	**4.1 J**	< 1.7	< 2.4	< 1.7	NA	NA
		10/28/2009	**1.5**	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/2/2010	NA	2.1 B	< 1.9	< 1.4	< 1.9	NA	NA
		6/4/2010	**1.5**	NA	NA	NA	NA	NA	NA
		5/18/2011	**1.6**	< 0.92	1.8 J	< 0.92	2.2 B	NA	NA
		4/27/2012	0.74 J	< 3.0	2.3 J	< 0.97	2.6 J	NA	NA
		11/18/2013	**2.3**	**3.6**	4.9	**3.2**	3.6	NA	NA
		9/5/2014	**2.1**	2.6 B	1.3 B	< 2.6	< 1.3	NA	NA
		10/9/2014	**15.7**	3.6	< 1.3	3.3	< 1.3	NA	NA
		3/19/2015	**344**	NA	NA	NA	NA	NA	NA
		4/22/2015	**2.2**	NA	NA	NA	NA	NA	NA
RW-6A	58-78'	10/16/2007	**5.5**	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		5/2/2008	**1.7**	2.9 B	2.8 B	< 1.7	1.8 B	NA	NA
		9/15/2008	**2.9**	1.9 B	< 1.4	1.7 B	< 1.4	NA	NA
		7/9/2009	**1.3**	< 3.0	< 1.7	< 2.4	< 1.7	NA	NA
		10/28/2009	**2.4**	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/2/2010	**1.9**	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/18/2011	**1.5**	< 0.92	3.1	< 0.92	2.4 B	NA	NA
		4/27/2012	**2.0**	< 0.97	1.8 J	< 0.97	< 1.7	NA	NA
		11/8/2013	**15.0**	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/5/2014	**88.1**	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		10/9/2014	**6.8**	< 5.1	< 1.3	< 5.1	< 1.3	NA	NA
		3/19/2015	**13.3**	NA	NA	NA	NA	NA	NA
		4/21/2015	**8.7**	NA	NA	NA	NA	NA	NA
RW-7	34-45'	5/9/2006	< 0.21	*< 8.0*	< 3.0 J	*< 8.0*	< 3.0 J	NA	NA
		9/26/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/3/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
	40-62'	5/9/2006	< 0.21	*< 8.0*	< 3.0 J	*< 8.0*	< 3.0 J	NA	NA
		9/26/2006	< 0.21	< 1.5 J	< 2.6	1.8 BJ	< 2.6	NA	NA
		4/4/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
		10/15/2007	< 0.19	< 1.1	< 0.94	< 1.1	< 0.94	NA	NA
		5/5/2008	< 0.26	< 1.7	1.5 B	< 1.7	< 1.4	NA	NA
		9/12/2008	< 0.26	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/7/2009	< 0.23	< 2.4	**5.1**	< 2.4	< 1.7	NA	NA
		10/27/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/27/2009	0.41 J	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/1/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/18/2011	< 0.22	< 0.92	**5.9**	< 0.92	1.1 J	NA	NA
		4/24/2012	< 0.22	1.1 B	< 1.7	< 0.97	< 1.7	NA	NA
		11/7/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 4.1 B	NA	NA
		9/4/2014	< 0.21	3.6	2.9 B	3.2	< 1.3	NA	NA
		4/20/2015	<0.24	NA	NA	NA	NA	NA	NA

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Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
RW-7	80-101'	5/10/2006	< 0.21	*< 8.0*	< 3.0	*< 8.0*	< 3.0	NA	NA
		9/28/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/3/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
	103-120'	5/10/2006	< 0.21	*< 8.0*	< 3.0	*< 8.0*	3.8	NA	NA
		9/28/2006	< 0.21	< 1.5	< 2.6	< 1.5	< 2.6	NA	NA
		4/4/2007	< 0.21	< 1.5	< 2.8	< 1.5	< 2.8	NA	NA
RW-8	42-62'	7/31/2008	0.62 J	< 1.7	4.0	< 1.7	1.9 B	NA	NA
		11/4/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		7/7/2009	< 0.23	< 2.4	**17.9**	< 2.4	5.0	NA	NA
	158-178'	7/21/2008	< 0.26	**4.3**	< 1.4	**3.2**	< 1.4	NA	NA
		7/7/2009	< 0.23	< 2.4	**6.0**	< 2.4	< 1.7	NA	NA
		11/4/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	163-173'	6/23/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/24/2010	NA	NA	NA	NA	NA	NA	NA
		6/25/2010	NA	2.1 B	< 1.9	NA	NA	NA	NA
		5/31/2011	< 0.22	2.1 B	< 0.94	1.1 B	< 0.94	NA	NA
		6/1/2011	NA	NA	NA	NA	NA	NA	NA
		5/3/2012	< 0.22	2.0 J	< 1.7	1.7 J	< 1.7	NA	NA
		11/15/2013	0.34 J	2.4 B	< 3.0 B	2.0 B	< 2.4	NA	NA
		9/22/2014	< 0.21	**4.2**	< 1.3	**5.2**	< 1.3	NA	NA
	199-219'	7/22/2008	0.38 J	2.5 B	< 1.4	**3.6**	< 1.4	NA	NA
		7/7/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		11/4/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	204-214'	6/23/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/25/2010	NA	**5.9**	< 1.9	NA	NA	NA	NA
		6/1/2011	< 0.22	**5.1**	< 0.94	NA	NA	NA	NA
		11/14/2013	**2.2 J**	1.5 B	< 2.4	NA	NA	NA	NA
		11/15/2013	NA	NA	NA	< 1.5	< 2.4	NA	NA
		9/23/2014	0.58	**3.6**	2.3 B	**4.2**	< 1.3	NA	NA
RW-9	20-40'	7/30/2008	**7.0**	< 1.7	**5.2**	< 1.7	2.1 B	NA	NA
		7/15/2009	< 0.23	< 2.4	< 3.0	< 2.4	< 1.7	NA	NA
		11/2/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	80-100'	7/23/2008	0.93 J	1.7 BJ	< 1.4	< 1.7	< 1.4	NA	NA
		7/23/2008	**1.1**	2.1 BJ	< 1.4	2.0 B	< 1.4	NA	NA
		7/15/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		11/2/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	134-154'	7/23/2008	0.70 J	< 1.7 J	< 1.4	2.1 BJ	< 1.4	NA	NA
		7/16/2009	< 0.23	< 2.4	**6.4 J**	< 2.4	< 1.7	NA	NA
		7/16/2009	< 0.23	< 2.4	**6.4**	< 2.4	< 1.7	NA	NA
		11/2/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		11/20/2013	< 0.28 J	NA	NA	NA	NA	NA	NA
	201-221'	7/24/2008	**1.5**	< 1.7	< 1.4	2.4 B	< 1.4	NA	NA
		7/16/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		11/3/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA

Table 13
Groundwater Monitoring Results: 2004-2014

Site-Related Groundwater Remedial Investigation Report
Ringwood Mines/Landfill Superfund Site
Ringwood, New Jersey

Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
RW-9	206-216'	6/23/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/25/2010	NA	NA	NA	NA	NA	NA	NA
		6/28/2010	NA	**4.6 J**	< 1.9	NA	NA	NA	NA
		5/26/2011	< 0.22	NA	NA	NA	NA	NA	NA
		5/27/2011	NA	**3.3**	< 0.94	NA	NA	NA	NA
		4/20/2012	< 0.22	< 3.0	< 1.7	< 0.97	< 1.7	NA	NA
		11/20/2013	< 0.28 J	2.2 B	3.0	< 1.5	< 2.4	NA	NA
		9/25/2014	< 0.21	**7.3**	< 1.3	**8.9**	< 1.3	NA	NA
RW-9A	85-95'	6/23/2010	0.33 J	NA	NA	NA	NA	NA	NA
		6/1/2011	< 0.22	NA	NA	NA	NA	NA	NA
		4/20/2012	0.23 J	2.8 J	< 1.7	2.5 J	< 1.7	NA	NA
		11/20/2013	< 0.28 J	**3.4**	< 2.4	NA	NA	NA	NA
		9/23/2014	< 0.21	**5.3**	< 1.3	**3.7**	< 1.3	NA	NA
RW-10	22-42'	7/8/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/29/2009	< 0.23	< 2.4	2.2 B	< 2.4	< 1.7	NA	NA
	46-66'	7/25/2008	< 0.26	2.2 B	2.8 B	2.2 B	1.6 B	NA	NA
		7/9/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/29/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	70-90'	7/28/2008	0.26 J	2.4 B	**7.3**	< 1.7	1.6 B	NA	NA
		7/9/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/29/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
	115-135'	7/28/2008	< 0.26	2.0 B	**6.0**	< 1.7	1.4 B	NA	NA
		7/9/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/29/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		6/23/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/24/2010	NA	NA	NA	NA	NA	NA	NA
		6/25/2010	NA	**4.3**	< 1.9	NA	NA	NA	NA
		5/31/2011	< 0.22	**4.8**	2.5 B	NA	NA	NA	NA
		6/1/2011	NA	NA	NA	**4.1**	2.3 B	NA	NA
		4/19/2012	< 0.22	**3.7 J**	< 1.7	**3.6 J**	< 1.7	NA	NA
		11/15/2013	< 0.28 J	**9.5**	5.0 J	**8.0**	**5.1 J**	NA	NA
		9/17/2014	< 0.21	**8.2**	**6.3**	**9.1**	< 3.0 B	**8.6**	**8.5**
	180-200'	7/29/2008	0.57 J	< 1.7	< 1.4	< 1.7	< 1.4	NA	NA
		7/9/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/30/2009	< 0.23	< 2.4	**6.0**	NA	NA	NA	NA
		10/30/2009	< 0.23	< 2.4	**7.0**	< 2.4	< 1.7	NA	NA
		10/30/2009	NA	NA	NA	< 2.4	< 1.7	NA	NA
		6/9/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		6/23/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/25/2010	NA	2.2 B	< 1.9	NA	NA	NA	NA
		6/28/2010	NA	NA	NA	< 1.4	< 1.9	NA	NA
		5/31/2011	< 0.22	< 0.92	1.0 B	< 0.92	1.4 B	NA	NA
		4/18/2012	< 0.22	**3.6 J**	< 1.7	**3.6 J**	< 1.7	NA	NA
		11/13/2013	< 0.28	**7.9**	< 4.2 B	**6.6**	< 3.2 B	NA	NA
		9/17/2014	< 0.21	**7.9**	3.5	**9.7**	2.5 B	NA	NA

Table 13
Groundwater Monitoring Results: 2004-2014

Site-Related Groundwater Remedial Investigation Report
Ringwood Mines/Landfill Superfund Site
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Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
RW-10A	51-61'	6/2/2011	< 0.22	< 0.92	< 3.0	< 0.92	< 0.94	NA	NA
		4/18/2012	< 0.22	< 3	< 1.7	< 3	< 1.7	NA	NA
		11/15/2013	< 0.28 J	2.1 B	< 3.1 B	NA	NA	NA	NA
		9/18/2014	< 0.21	< 2.6	< 3.0 B	< 2.6	< 3.0 B	NA	NA
	75-85'	6/9/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		6/23/2010	< 0.23	NA	NA	NA	NA	NA	NA
		6/28/2010	NA	< 1.4	4.0 J	< 1.4	< 1.9	NA	NA
		6/2/2011	< 0.22	< 0.92	< 3.0	< 0.92	< 0.94	NA	NA
		4/18/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		4/18/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		5/7/2012	NA	NA	NA	NA	NA	NA	NA
		11/14/2013	< 0.28 J	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/18/2014	< 0.21	< 2.6	3.0	< 2.6	< 3.0 B	NA	NA
RW-11	100-125'	6/7/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/26/2011	< 0.22	< 0.92	< 3.0	< 0.92	< 3.0	NA	NA
	142-167'	6/7/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/26/2011	< 0.22	< 0.92	< 0.94	< 0.92	< 0.94	NA	NA
	221-246'	6/8/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/25/2011	< 0.22	< 0.92	< 3.0	< 0.92	< 0.94	NA	NA
	252-272'	6/8/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/25/2011	< 0.22	< 0.92	< 3.0	< 0.92	1.7 J	NA	NA
RW-11D	262-267'	5/1/2012	< 0.22	NA	NA	NA	NA	NA	NA
		11/14/2013	0.56 J	< 1.5	3.3	< 1.5	< 2.4	NA	NA
		9/15/2014	**2.0**	< 3.0 B	< 1.3	< 2.6	< 1.3	NA	NA
RW-11S	236-241'	5/1/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		11/13/2013	< 0.28	< 1.5	< 2.4	< 1.5	< 2.4	NA	NA
		9/12/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		9/12/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
RW-12	50-70'	5/10/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		9/19/2014	< 0.21	< 2.6	< 3.0 B	2.6 B	< 3.0 B	NA	NA
	96-116'	5/10/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
	125-148'	5/11/2012	< 0.22	< 0.97	< 1.7	< 0.97	< 1.7	NA	NA
		9/19/2014	< 0.21	< 2.6	< 3.0 B	< 2.6	< 3.0 B	NA	NA
RW-13	71-91'	9/9/2014	< 0.21	**6.3**	3.7	**4.9**	3.7	NA	NA
	100-120'	9/16/2014	< 0.21	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
	150-170'	9/16/2014	< 0.21	< 2.6	1.7 B	2.9 B	< 1.3	NA	NA

Table 13
Groundwater Monitoring Results: 2004-2014

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Ringwood Mines/Landfill Superfund Site
Ringwood, New Jersey

Well ID	Sample Depth (ft bgs)	Sample Date	Benzene	Total Arsenic	Total Lead	Dissolved Arsenic	Dissolved Lead	Total Arsenic (USEPA 7062 Method)	Dissolved Arsenic (USEPA 7062 Method)
SC-01	64.4-70.9'	10/5/2006	< 0.21	< 1.5	< 2.6	1.7 B	< 2.6	NA	NA
		4/11/2007	**1.4**	< 1.5	**6.3**	< 1.5	< 2.8	NA	NA
		10/16/2007	**1.5**	< 1.1	**8.8**	< 1.1	1.6 B	NA	NA
		4/30/2008	0.93 J	< 1.7	**6.6**	< 1.7	1.9 B	NA	NA
		4/30/2008	**1.1**	< 1.7	**5.4**	< 1.7	< 1.4	NA	NA
		9/17/2008	0.81 J	< 1.7	**6.2**	< 1.7	< 1.4	NA	NA
		7/9/2009	0.94 J	< 2.4	**7.2 J**	< 2.4	< 3.0	NA	NA
		10/28/2009	0.53 J	< 2.4	**9.9**	< 2.4	< 1.7	NA	NA
		6/2/2010	**1.5**	< 1.4	**6.2**	< 1.4	< 1.9	NA	NA
		5/18/2011	0.63 J	< 0.92	**5.6**	< 0.92	1.5 J	NA	NA
		4/27/2012	**1.2**	< 0.97	**9.4**	< 0.97	< 1.7	NA	NA
		11/11/2013	**1.6**	< 1.5	**8.6**	< 1.5	< 2.4	NA	NA
		9/5/2014	**56.0**	< 2.6	< 1.3	< 2.6	< 1.3	NA	NA
		10/9/2014	**1.6**	< 2.6	2.5 B	< 2.6	< 1.3	NA	NA
		3/19/2015	**150**	NA	NA	NA	NA	NA	NA
		4/22/2015	**1.8**	NA	NA	NA	NA	NA	NA
SC-02	47-67'	5/5/2008	< 0.26	< 1.7	2.8 B	< 1.7	< 1.4	NA	NA
		9/17/2008	< 0.26	2.1 B	< 1.4	< 1.7	< 1.4	NA	NA
		6/30/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		10/20/2009	< 0.23	< 2.4	< 1.7	< 2.4	< 1.7	NA	NA
		5/25/2010	< 0.23	< 1.4	< 1.9	< 1.4	< 1.9	NA	NA
		5/16/2011	< 0.26	1.4 B	**20.0**	< 0.92	< 0.94	NA	NA
		4/19/2012	< 0.22	< 0.97	2.9 J	< 0.97	< 1.7	NA	NA
		11/15/2013	< 0.28 J	< 1.5	< 4.0 B	< 1.5	< 2.4	NA	NA
		9/15/2014	< 0.21	< 3.0 B	< 1.3	**3.1 J**	< 1.3	NA	NA

Notes:
Results for benzene, lead, and arsenic are presented in this table. Results for all contaminants are presented in Appendix F.
Results are presented in µg/L unless otherwise noted.
[1] GWQS, Class IIA, as specified in New Jersey Administrative Code 7:9-6, current 2005 and interim criteria,
Bold values indicate value is above the GWQS.
Shaded values indicate value is above the USEPA MCL.
Bold and shaded values indicate value is above the GWQS and the USEPA MCL.
Italicized values indicate detection limit is above the GWQS standard.
< = not detected
B (inorganic) = estimated result is between the detection limit and quantification limit
B (organic) = analyte found in associated method blank
ft bgs = feet below ground surface
GWQS = Groundwater Quality Standard
J = estimated result
MCL = maximum concentration limit
NA = not analyzed or not available
NS = no standard
R = rejected result
µg/L = micrograms per liter
USEPA = United States Environmental Protection Agency

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	SC-1
Date:	4/23/15	Sampled By:	DAW		
Sampling Time:	10:10	Recorded By:	DAW		
Weather:	Sunny / Cool / 30F	Replicate/Split:	WG (Excel)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	103'	to	109' (angled)
Total Depth:	69.77'	Pump intake depth:	103'			
Depth to Water:	12.84'					
Water Column:	56.93	Total Volume Purged:	1.43 Gallons			
Gallons/Foot:	0.163	Pump on:	9:25	Off:	11:20	
Gallons in Well:	9.29					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:25	0	120	0.00	60.8	-14	6.09	0.434	10.43	12.80	0.00	used instead
9:30	5	120	0.16	51.4	-13	6.02	0.444	10.17	12.81	0.00	
9:35	10	120	0.32	34.6	-14	5.99	0.456	9.83	12.81	0.00	
9:40	15	120	0.48	31.3	-14	5.97	0.462	9.70	12.79	0.00	
9:45	20	120	0.63	28.5	-14	5.96	0.467	9.60	12.79	0.00	
9:50	25	120	0.79	25.0	-15	5.96	0.468	9.73	12.80	0.00	
9:55	30	120	0.95	24.8	-15	5.97	0.468	9.76	12.80	0.00	
10:00	35	120	1.11	24.5	-14	5.95	0.468	9.72	12.79	0.00	
10:05	40	120	1.27	24.0	-14	5.94	0.470	9.68	12.80	0.00	
10:10	45	120	1.43	23.5	-15	5.95	0.471	9.75	12.80	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	Moderate Petroleum Odor	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	OB-11R
Date:	4/21/15	Sampled By:	DAW		
Sampling Time:	17:35	Recorded By:	DAW		
Weather:	Partly cloudy / light wind / 63F	Replicate/Split:	Brian Ehalt (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	25'	to	40'	
Total Depth:	38.1'	Pump intake depth:	32'				
Depth to Water:	15.65						
Water Column:	22.45	Total Volume Purged:	3.43 Gallons				
Gallons/Foot:	0.163	Pump on:	16:45	Off:	18:00		
Gallons in Well:	3.66						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
16:45	0	260	0.00	78.0	-68	7.12	0.503	11.94	15.65	0.00	
16:50	5	260	0.34	78.0	-83	6.72	0.519	10.95	15.77	0.00	
16:55	10	260	0.69	73.0	-93	6.61	0.562	10.30	15.77	0.00	
17:00	15	260	1.03	43.0	-95	6.60	0.568	10.28	15.77	0.00	
17:05	20	260	1.37	34.2	-96	6.58	0.574	10.12	15.77	0.00	
17:10	25	260	1.72	26.0	-97	6.57	0.577	10.10	15.77	0.00	
17:15	30	260	2.06	21.5	-98	6.57	0.579	10.02	15.77	0.00	
17:20	35	260	2.40	20.4	-98	6.57	0.580	10.06	15.78	0.00	
17:25	40	260	2.75	19.5	-98	6.57	0.581	10.08	15.80	0.00	
17:30	45	260	3.09	18.0	-97	6.57	0.582	10.08	15.80	0.00	
17:35	50	260	3.43	17.8	-99	6.56	0.583	10.07	15.80	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Clear	Turbidity(qualitative):	Cloudy
Odor:	Trace petroleum	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	OB-20A
Date:	4/21/15	Sampled By:	DAW		
Sampling Time:	9:25	Recorded By:	DAW		
Weather:	Overcast/Cool/Drizzle/48F	Replicate/Split:	WG / (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)	
Serial #:	MiniRAE 013026	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	5'	to	20'
Total Depth:	20.5'	Pump intake depth:	17			
Depth to Water:	14.8'					
Water Column:	5.70	Total Volume Purged:	2.06 Gallons			
Gallons/Foot:	0.163	Pump on:	8:15	Off:	10:00	
Gallons in Well:	0.93					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
8:20	0	120	0.00	160.0	145	5.80	0.230	12.57	14.14	0.00	
8:25	5	120	0.16	24.7	-31	6.38	0.245	11.58	14.11	0.00	
8:30	10	120	0.32	23.6	-35	6.37	0.249	11.00	14.08	0.00	
8:35	15	120	0.48	22.7	-36	6.34	0.253	10.88	14.08	0.00	
8:40	20	120	0.63	27.5	-37	6.33	0.255	10.78	14.09	0.00	
8:45	25	120	0.79	21.6	-38	6.32	0.256	10.76	14.09	0.00	
8:50	30	120	0.95	19.1	-39	6.31	0.256	10.69	14.09	0.00	
8:55	35	120	1.11	17.4	-38	6.29	0.257	10.64	14.09	0.00	
9:00	40	120	1.27	16.3	-39	6.29	0.258	10.58	14.09	0.00	
9:05	45	120	1.43	13.5	-39	6.28	0.258	10.51	14.09	0.00	
9:10	50	120	1.59	13.3	-39	6.26	0.258	10.41	14.09	0.00	
9:15	55	120	1.74	13.1	-39	6.26	0.258	10.38	14.09	0.00	
9:20	60	120	1.90	13.0	-40	6.25	0.259	10.35	14.09	0.00	
9:25	65	120	2.06	12.8	-40	6.25	0.260	10.30	14.09	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	OB- 20 B
Date:	4/21/15	Sampled By:	DAW		
Sampling Time:	13:15	Recorded By:	DAW		
Weather:	sunny / light wind / 59F	Replicate/Split:	WG (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	24'	to	34'	
Total Depth:	35.9'	Pump intake depth:	30'				
Depth to Water:	13.36'						
Water Column:	22.54	Total Volume Purged:	2.62 Gallons				
Gallons/Foot:	0.163	Pump on:	12:20	Off:	14:00		
Gallons in Well:	3.68						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:20	0	180	0.00	37.4	2	6.20	0.525	11.91	13.87	0.00	
12:25	5	180	0.24	34.0	-17	6.19	0.538	11.49	13.96	0.00	
12:30	10	180	0.48	33.3	-21	6.16	0.545	11.45	14.04	0.00	
12:35	15	180	0.71	33.2	-30	6.15	0.554	11.39	14.08	0.00	
12:40	20	180	0.95	30.6	-33	6.15	0.554	11.43	14.07	0.00	
12:45	25	180	1.19	30.5	-35	6.15	0.554	11.48	14.08	0.00	
12:50	30	180	1.43	32.0	-37	6.16	0.553	11.50	14.08	0.00	
12:55	35	180	1.66	28.0	-39	6.15	0.554	11.51	14.07	0.00	
13:00	40	180	1.90	26.5	-39	6.15	0.558	11.58	14.07	0.00	
13:05	45	180	2.14	25.8	-39	6.15	0.558	11.60	14.07	0.00	
13:10	50	180	2.38	25.6	-40	6.15	0.557	11.64	14.07	0.00	
13:15	55	180	2.62	25.1	-41	6.15	0.555	11.70	14.08	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	OB-21
Date:	4/20/15	Sampled By:	DAW		
Sampling Time:	11:50	Recorded By:	DAW		
Weather:	moderate rain / 45F / light wind	Replicate/Split:	WG		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE 013626	Solinist	Horbia U-52

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low flow bladder**			
Casing Diameter:	2"	Screen Interval:	From	6'	to	20.3'
Total Depth:	20.30'	Pump intake depth:	12'			
Depth to Water:	6.57'					
Water Column:	13.73	Total Volume Purged:	3.96 Gallons			
Gallons/Foot:	0.163	Pump on:	10:35	Off:	13:40	
Gallons in Well:	2.24					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
10:35	0	200	0.00	365.0	164	6.39	0.124	9.23	6.52	0.00	
10:40	5	200	0.26	205.0	178	6.13	0.113	9.21	6.50	0.00	
10:45	10	200	0.53	181.0	173	6.02	0.112	9.21	6.49	0.00	
10:50	15	200	0.79	200.0	188	6.00	0.111	9.24	6.50	0.00	
10:55	20	200	1.06	225.0	191	5.98	0.111	9.24	6.50	0.00	
11:00	25	200	1.32	295.0	192	5.98	0.110	9.27	6.49	0.00	
11:05	30	200	1.59	294.0	193	5.98	0.110	9.27	6.49	0.00	
11:10	35	200	1.85	255.0	195	5.95	0.110	9.33	6.50	0.00	
11:15	40	200	2.11	220.0	196	5.96	0.109	9.36	6.49	0.00	
11:20	45	200	2.38	200.0	197	5.96	0.109	9.40	6.49	0.00	
11:25	50	200	2.64	195.0	198	5.95	0.107	9.42	6.48	0.00	
11:30	55	200	2.91	150.0	199	5.95	0.107	9.42	6.48	0.00	
11:35	60	200	3.17	115.0	200	5.95	0.106	9.42	6.48	0.00	
11:40	65	200	3.43	112.0	200	5.93	0.105	9.43	6.49	0.00	
11:45	70	200	3.70	110.0	201	5.95	0.105	9.43	6.45	0.00	
11:50	75	200	3.96	108.0	201	5.94	0.105	9.42	6.44	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To Ground
Color:	Clear	Turbidity(qualitative):	Cloudy
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	OB-27
Date:	4/21/15	Sampled By:	DAW		
Sampling Time:	15:35	Recorded By:	DAW		
Weather:	partly cloudy / mild	Replicate/Split:	GW (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	24.5'	to	39.5'	
Total Depth:	40.15'	Pump intake depth:	30'				
Depth to Water:	14.26'						
Water Column:	25.89	Total Volume Purged:	3.20 Gallons				
Gallons/Foot:	0.163	Pump on:	14:40	Off:	16:00		
Gallons in Well:	4.23						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
14:40	0	220	0.00	>800	-107	6.62	0.419	13.38	14.41	0.00	
14:45	5	220	0.29	>800	-93	6.61	0.428	12.54	14.42	0.00	
14:50	10	220	0.58	422	-83	6.57	0.439	11.23	14.43	0.00	
14:55	15	220	0.87	420	-82	6.56	0.438	10.95	14.42	0.00	
15:00	20	220	1.16	743	-81	6.53	0.444	10.75	14.41	0.00	
15:05	25	220	1.45	480	-82	6.52	0.445	10.77	14.41	0.00	
15:10	30	220	1.74	278	-82	6.52	0.441	11.12	14.41	0.00	
15:15	35	220	2.03	137	-81	6.51	0.441	11.15	14.42	0.00	
15:20	40	220	2.32	107	-81	6.50	0.441	11.14	14.41	0.00	
15:25	45	220	2.62	106	-81	6.50	0.440	11.17	14.41	0.00	
15:30	50	220	2.91	105	-81	6.50	0.442	11.13	14.41	0.00	
15:35	55	220	3.20	107	-82	6.50	0.440	11.11	14.42	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Cloudy	Turbidity(qualitative):	Cloudy (medium)
Odor:	Slight petroleum	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	RW-6A
Date:	4/21/15	Sampled By:	DAW		
Sampling Time:	19:20	Recorded By:	DAW		
Weather:	sunny / light wind / cool / 54F	Replicate/Split:	Brian E. (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**
Casing Diameter:	2"	Screen Interval:	From 59' to 78'
Total Depth:	80.25'	Pump intake depth:	63'
Depth to Water:	12.41'		
Water Column:	67.84	Total Volume Purged:	2.14 Gallons
Gallons/Foot:	0.163	Pump on:	18:25 Off: 19:45
Gallons in Well:	11.07		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
18:35	0	180	0.00	8.2	-50	7.27	0.548	12.20	12.99	0.00	
18:40	5	180	0.24	5.3	-39	6.43	0.611	11.23	13.00	0.00	
18:45	10	180	0.48	4.6	-39	6.38	0.636	10.90	13.05	0.00	
18:50	15	180	0.71	4.4	-37	6.31	0.651	10.80	13.07	0.00	
18:55	20	180	0.95	4.4	-32	6.22	0.665	10.65	13.10	0.00	
19:00	25	180	1.19	4.5	-32	6.22	0.670	10.68	13.11	0.00	
19:05	30	180	1.43	4.6	-31	6.20	0.672	10.62	13.14	0.00	
19:10	35	180	1.66	4.6	-32	6.23	0.675	10.61	13.14	0.00	
19:15	40	180	1.90	4.5	-33	6.23	0.677	10.58	13.14	0.00	
19:20	45	180	2.14	4.6	-33	6.23	0.677	10.55	13.15	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	Trace petroleum	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	RW-6
Date:	4/22/14	Sampled By:	DAW		
Sampling Time:	12:50	Recorded By:	DAW		
Weather:	sunny / light wind / 57F	Replicate/Split:	WG (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow - Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	99'	to	119'	
Total Depth:	120.8'	Pump intake depth:	110'				
Depth to Water:	11.8'						
Water Column:	109.00	Total Volume Purged:	2.47 Gallons				
Gallons/Foot:	0.163	Pump on:	11:55	Off:	13:20		
Gallons in Well:	17.79						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
11:55	0	170	0.00	11.1	-101	6.95	0.445	15.00	11.81	0.00	
12:00	5	170	0.22	8.4	-93	9.87	0.502	14.34	11.80	0.00	
12:05	10	170	0.45	7.0	-90	6.80	0.520	14.00	11.80	0.00	
12:10	15	170	0.67	6.8	-88	6.73	0.535	12.52	11.81	0.00	
12:15	20	170	0.90	6.8	-85	6.65	0.541	13.90	11.80	0.00	
12:20	25	170	1.12	6.4	-84	6.63	0.544	14.57	11.81	0.00	
12:25	30	170	1.35	5.9	-84	6.61	0.541	14.81	11.80	0.00	
12:30	35	170	1.57	5.8	-83	6.58	0.536	14.74	11.81	0.00	
12:35	40	170	1.80	5.6	-82	6.58	0.533	14.70	11.80	0.00	
12:40	45	170	2.02	5.4	-82	6.57	0.534	14.65	11.81	0.00	
12:45	50	170	2.25	5.3	-82	6.56	0.534	14.60	11.80	0.00	
12:50	55	170	2.47	5.3	-82	6.56	0.531	14.64	11.81	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	RW-7
Date:	4/20/15	Sampled By:	DAW		
Sampling Time:	14:50	Recorded By:	DAW		
Weather:	light rain / cold / 49F / light wind	Replicate/Split:	GW (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low flow bladder**				
Casing Diameter:	2"	Screen Interval:	From	99'	to	119'	
Total Depth:	119'	Pump intake depth:	110'				
Depth to Water:	2.60'						
Water Column:	116.4	Total Volume Purged:	3.43 Gallons				
Gallons/Foot:	0.163	Pump on:	13:45	Off:	15:40		
Gallons in Well:	19.00						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
13:45	0	200	0.00	14.7	199	6.18	0.102	10.63	2.60	0.00	
13:50	5	200	0.26	14.6	199	6.18	0.103	10.64	2.55	0.00	
13:55	10	200	0.53	14.5	200	6.20	0.102	10.67	2.57	0.00	
14:00	15	200	0.79	14.7	199	6.19	0.102	10.73	2.56	0.00	
14:05	20	200	1.06	14.4	199	6.22	0.101	10.77	2.56	0.00	
14:10	25	200	1.32	14.0	199	6.20	0.102	10.82	2.57	0.00	
14:15	30	200	1.59	11.8	196	6.25	0.103	10.85	2.57	0.00	
14:20	35	200	1.85	11.8	197	6.21	0.103	10.73	2.60	0.00	
14:25	40	200	2.11	11.3	195	6.28	0.103	10.73	2.60	0.00	
14:30	45	200	2.38	11.5	196	6.24	0.102	10.80	2.60	0.00	
14:35	50	200	2.64	11.9	198	6.25	0.102	10.83	2.60	0.00	
14:40	55	200	2.91	11.8	200	6.26	0.102	10.86	2.60	0.00	
14:45	60	200	3.17	12.0	198	6.25	0.102	10.88	2.60	0.00	
14:50	65	200	3.43	12.0	197	6.22	0.102	10.91	2.60	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To Ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	PMP-50-042215
Date:	4/22/15	Sampled By:	DAW		
Sampling Time:	15:40	Recorded By:	DAW		
Weather:	Cloudy / cold / raining	Replicate/Split:	GW (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low flow bladder**
Casing Diameter:	2"	Screen Interval:	From 40' to 60'
Total Depth:	>240'	Pump intake depth:	50
Depth to Water:	7.05'		
Water Column:	>236.95'	Total Volume Purged:	1.69 Gallons
Gallons/Foot:	?	Pump on:	15:00 Off: 16:15
Gallons in Well:	?		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
15:00	0	160	0.00	32.6	114	7.42	0.051	12.88	7.11	0.00	
15:05	5	160	0.21	25.7	117	7.31	0.050	12.49	7.06	0.00	
15:10	10	160	0.42	22.5	121	7.19	0.049	12.13	7.05	0.00	
15:15	15	160	0.63	17.8	125	7.05	0.048	11.88	7.07	0.00	
15:20	20	160	0.85	13.6	130	6.94	0.047	11.67	7.07	0.00	
15:25	25	160	1.06	12.9	134	6.87	0.047	11.51	7.07	0.00	
15:30	30	160	1.27	13.0	137	6.80	0.047	11.50	7.07	0.00	
15:35	35	160	1.48	12.8	138	6.77	0.047	11.45	7.07	0.00	
15:40	40	160	1.69	12.5	139	6.76	0.047	11.37	7.07	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To Ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	PMP-180-042415
Date:	4/24/15	Sampled By:	ATV		
Sampling Time:	11:00	Recorded By:	ATV		
Weather:	cloudy / cold / 40F	Replicate/Split:	Brian (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low flow bladder**
Casing Diameter:	2"	Screen Interval:	From 170' to 190'
Total Depth:	>240'	Pump intake depth:	180
Depth to Water:	7.18		
Water Column:	>236.82'	Total Volume Purged:	4.36 Gallons
Gallons/Foot:	?	Pump on:	10:05 Off: 11:32
Gallons in Well:	?		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
10:10	5	300	0.40	16.5	-58	7.45	0.862	9.79	7.18	0.00	
10:15	10	310	0.82	11.4	-1	7.05	0.799	9.89		0.00	
10:20	15	310	1.23	21.0	-23	6.34	0.821	9.90	7.15	0.00	
10:25	20	300	1.59	26.9	-49	6.44	0.738	9.81		0.00	
10:30	25	300	1.98	26.5	-55	6.45	0.733	9.84	7.15	0.00	
10:35	30	300	2.38	26.8	-57	6.45	0.726	9.78		0.00	
10:40	35	300	2.77	25.9	-57	6.42	0.708	9.78	7.15	0.00	
10:45	40	300	3.17	18.1	-56	6.40	0.687	9.83		0.00	
10:50	45	300	3.57	17.7	-55	6.38	0.687	9.86	7.15	0.00	
10:55	50	300	3.96	18.2	-54	6.37	0.687	9.89		0.00	
11:00	55	300	4.36	17.7	-55	6.37	0.690	9.86	7.15	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To Ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

Cornerstone
Groundwater Sampling Form

Project Number:	140802	Task:	004	Well ID:	PMP-230-042415
Date:	4/24/15	Sampled By:	ATV		
Sampling Time:	12:30	Recorded By:	ATV		
Weather:	Overcast / cold	Replicate/Split:	Brian (EXCEL)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter		Water Quality Meter(s)	
Serial #:	MiniRAE 013626	Solinist	236257	Horbia U-52	552C6LR3

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low flow bladder**
Casing Diameter:	2"	Screen Interval:	From 220' to 240'
Total Depth:	>240'	Pump intake depth:	230
Depth to Water:	7.15		
Water Column:	>265.85'	Total Volume Purged:	3.57 Gallons
Gallons/Foot:	?	Pump on:	11:45 Off: 13:00
Gallons in Well:	?		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (mL/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
11:50	5	250	0.33	16.0	-27	6.39	0.205	10.63	7.15	0.00	le, spiking DO
11:55	10	250	0.66	18.5	-34	6.45	0.220	9.98		0.00	
12:00	15	300	1.19	19.7	-34	6.46	0.282	9.64	7.15	0.00	
12:05	20	300	1.59	18.1	-32	6.42	0.281	9.63		0.00	
12:10	25	300	1.98	18.0	-31	6.42	0.288	9.54	7.15	0.00	
12:15	30	300	2.38	17.6	-30	6.45	0.279	9.61		0.00	
12:20	35	300	2.77	17.1	-29	6.42	0.276	9.60	7.15	0.00	
12:25	40	300	3.17	16.8	-29	6.45	0.279	9.56		0.00	
12:30	45	300	3.57	16.9	-28	6.41	0.277	9.61	7.15	0.00	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	To Ground
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	None	Other (OVA, HNU,etc.):	0

New Jersey
ACCUTEST LABORATORIES

05/08/15

Technical Report for

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Accutest Job Number: JB92815

Sampling Date: 04/20/15

Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Tim.Roeper@Cornerstoneeg.com; jtomalia@cadenaco.com

ATTN: Tim Roeper

Total number of pages in report: **422**

NELAP ACCREDITED TNI LABORATORY

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: Marie Meidhof 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, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories

Sample Summary

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92815

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB92815-1	04/20/15	17:20	DW	04/20/15	AQ	Trip Blank Water	TB-042015
JB92815-2	04/20/15	11:50	DW	04/20/15	AQ	Ground Water	OB-21-042015
JB92815-2F	04/20/15	11:50	DW	04/20/15	AQ	Groundwater Filtered	OB-21-042015
JB92815-3	04/20/15	14:50	DW	04/20/15	AQ	Ground Water	RW-7-042015
JB92815-3F	04/20/15	14:50	DW	04/20/15	AQ	Groundwater Filtered	RW-7-042015
JB92815-4	04/20/15	17:20	DW	04/20/15	AQ	Field Blank Water	FB042015
JB92815-4F	04/20/15	17:20	DW	04/20/15	AQ	Field Blank Filtered	FB042015

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Cornerstone Environmental Group, LLC	**Job No**	JB92815
Site:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ	**Report Date**	5/8/2015 10:19:30 AM

On 04/20/2015, 2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB92815 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.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** VU8978

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB92823-6MS, JB92823-8DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP86016

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92823-5FMS, JB92823-5FMSD, JB92823-5FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Iron are outside control limits for sample MP86016-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** F:GP25927

- The data for EPA 300/SW846 9056A meets quality control requirements.
- JB92815-3 for Chloride: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92815-2 for Sulfate: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92815-2 for Chloride: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92815-4 for Chloride: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92815-4 for Sulfate: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92815-3 for Sulfate: Analysis performed at Accutest Laboratories, Orlando FL.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ **Batch ID:** GP88634

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93154-1DUP, JB93154-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Wet Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ	**Batch ID:** R143372

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92815-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	**Batch ID:** R143373

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92815-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	**Batch ID:** R143374

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92815-4 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM2320 B-11

Matrix: AQ	**Batch ID:** GN24425

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92823-11DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM2540 C-11

Matrix: AQ	**Batch ID:** GN24055

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92815-2DUP were used as the QC samples for Solids, Total Dissolved.

Wet Chemistry By Method SM4500CO2 D-11

Matrix: AQ	**Batch ID:** GN24459

- The data for SM4500CO2 D-11 meets quality control requirements.

Wet Chemistry By Method SM4500NO2 B-11

Matrix: AQ	**Batch ID:** GN23817

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92823-5DUP, JB92823-5MS were used as the QC samples for Nitrogen, Nitrite.

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey **Job No:** JB92815

Site: CORNNYM: E203361 Ford Ringwood, Peters Mine Road, **Report Date:** 5/5/2015 11:11:33 PM

2 Sample(s) and 1 Field Blank(s) were collected on 04/20/2015 and were received at Accutest SE on 04/30/2015 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of JB92815. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP25927

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) JB92815-4MS, JB92815-4MSD were used as the QC samples for Chloride and Sulfate.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 5, 2015

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: JB92815
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/20/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB92815-1	**TB-042015**					
No hits reported in this sample.						
JB92815-2	**OB-21-042015**					
Calcium		11400	5000		ug/l	SW846 6010C
Iron		1740	100		ug/l	SW846 6010C
Magnesium		5250	5000		ug/l	SW846 6010C
Alkalinity, Bicarbonate		36.7	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		36.8	5.0		mg/l	SM2320 B-11
Nitrogen, Nitrate + Nitrite		0.10	0.10		mg/l	EPA 353.2/LACHAT
Solids, Total Dissolved		40.0	10		mg/l	SM2540 C-11
Sulfate [a]		7.6	2.0		mg/l	EPA 300/SW846 9056A
JB92815-2F	**OB-21-042015**					
Calcium		11700	5000		ug/l	SW846 6010C
Magnesium		5170	5000		ug/l	SW846 6010C
JB92815-3	**RW-7-042015**					
Acetone		8.1 J	10	3.3	ug/l	SW846 8260C
Total TIC, Volatile		23 J			ug/l	
Calcium		10900	5000		ug/l	SW846 6010C
Iron		522	100		ug/l	SW846 6010C
Alkalinity, Bicarbonate		39.2	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		39.2	5.0		mg/l	SM2320 B-11
Solids, Total Dissolved		47.0	10		mg/l	SM2540 C-11
Sulfate [a]		9.3	2.0		mg/l	EPA 300/SW846 9056A
JB92815-3F	**RW-7-042015**					
Calcium		11700	5000		ug/l	SW846 6010C
JB92815-4	**FB042015**					
No hits reported in this sample.						
JB92815-4F	**FB042015**					
No hits reported in this sample.						

(a) Analysis performed at Accutest Laboratories, Orlando FL.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-042015		
Lab Sample ID:	JB92815-1	**Date Sampled:**	04/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**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	U194579.D	1	04/24/15	NH	n/a	n/a	VU8978
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	TB-042015		
Lab Sample ID:	JB92815-1	**Date Sampled:**	04/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		76-120%
17060-07-0	1,2-Dichloroethane-D4	94%		73-122%
2037-26-5	Toluene-D8	93%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OB-21-042015		
Lab Sample ID:	JB92815-2	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**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	U194582.D	1	04/24/15	NH	n/a	n/a	VU8978
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	OB-21-042015		
Lab Sample ID:	JB92815-2	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		76-120%
17060-07-0	1,2-Dichloroethane-D4	94%		73-122%
2037-26-5	Toluene-D8	92%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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:	OB-21-042015		
Lab Sample ID:	JB92815-2	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	11400	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Iron	1740	100	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Magnesium	5250	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36522
(2) Prep QC Batch: MP86016

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-21-042015		
Lab Sample ID:	JB92815-2	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	36.7	5.0	mg/l	1	04/30/15	JA	SM4500CO2 D-11
Alkalinity, Total as CaCO3	36.8	5.0	mg/l	1	04/30/15	JA	SM2320 B-11
Chloride [a]	< 2.0	2.0	mg/l	1	05/04/15 18:07	AFL	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	04/29/15 17:15	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.10	0.10	mg/l	1	04/29/15 17:15	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 21:30	JM	SM4500NO2 B-11
Solids, Total Dissolved	40.0	10	mg/l	1	04/24/15	KP	SM2540 C-11
Sulfate [a]	7.6	2.0	mg/l	1	05/04/15 18:07	AFL	EPA 300/SW846 9056A

(a) Analysis performed at Accutest Laboratories, Orlando FL.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-21-042015		
Lab Sample ID:	JB92815-2F	**Date Sampled:**	04/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	11700	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Iron	< 100	100	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Magnesium	5170	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36522
(2) Prep QC Batch: MP86016

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW-7-042015		
Lab Sample ID:	JB92815-3	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**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	U194581.D	1	04/24/15	NH	n/a	n/a	VU8978
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	8.1	10	3.3	ug/l	J
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	RW-7-042015		
Lab Sample ID:	JB92815-3	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		76-120%
17060-07-0	1,2-Dichloroethane-D4	93%		73-122%
2037-26-5	Toluene-D8	93%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
67-63-0	Isopropyl Alcohol	7.43	23	ug/l	JN
	Total TIC, Volatile		23	ug/l	J
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7-042015		
Lab Sample ID:	JB92815-3	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	10900	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Iron	522	100	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36522
(2) Prep QC Batch: MP86016

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-7-042015		
Lab Sample ID:	JB92815-3	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	39.2	5.0	mg/l	1	04/30/15	JA	SM4500CO2 D-11
Alkalinity, Total as CaCO3	39.2	5.0	mg/l	1	04/30/15	JA	SM2320 B-11
Chloride [a]	< 2.0	2.0	mg/l	1	05/04/15 18:23	AFL	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	04/29/15 17:16	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/29/15 17:16	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 21:30	JM	SM4500NO2 B-11
Solids, Total Dissolved	47.0	10	mg/l	1	04/24/15	KP	SM2540 C-11
Sulfate [a]	9.3	2.0	mg/l	1	05/04/15 18:23	AFL	EPA 300/SW846 9056A

(a) Analysis performed at Accutest Laboratories, Orlando FL.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-7-042015		
Lab Sample ID:	JB92815-3F	**Date Sampled:**	04/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	11700	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Iron	< 100	100	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36522
(2) Prep QC Batch: MP86016

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB042015		
Lab Sample ID:	JB92815-4	**Date Sampled:**	04/20/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**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	U194580.D	1	04/24/15	NH	n/a	n/a	VU8978
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	FB042015		
Lab Sample ID:	JB92815-4	**Date Sampled:**	04/20/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		76-120%
17060-07-0	1,2-Dichloroethane-D4	93%		73-122%
2037-26-5	Toluene-D8	92%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB042015		
Lab Sample ID:	JB92815-4	**Date Sampled:**	04/20/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	< 5000	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Iron	< 100	100	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36522
(2) Prep QC Batch: MP86016

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB042015		
Lab Sample ID:	JB92815-4	**Date Sampled:**	04/20/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	< 5.0	5.0	mg/l	1	04/30/15	JA	SM4500CO2 D-11
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	04/30/15	JA	SM2320 B-11
Chloride [a]	< 2.0	2.0	mg/l	1	05/04/15 18:39	AFL	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	04/29/15 17:17	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/29/15 17:17	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 21:30	JM	SM4500NO2 B-11
Solids, Total Dissolved	< 10	10	mg/l	1	04/24/15	KP	SM2540 C-11
Sulfate [a]	< 2.0	2.0	mg/l	1	05/04/15 18:39	AFL	EPA 300/SW846 9056A

(a) Analysis performed at Accutest Laboratories, Orlando FL.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB042015		
Lab Sample ID:	JB92815-4F	**Date Sampled:**	04/20/15
Matrix:	AQ - Field Blank Filtered	**Date Received:**	04/20/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	< 5000	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Iron	< 100	100	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/24/15	04/27/15	KK	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36522
(2) Prep QC Batch: MP86016

RL = Reporting Limit

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

GW
WFB
WTB

CHAIN OF CUSTODY

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

PAGE ___ OF ___

E

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB92815

Client / Reporting Information

Company Name: Cornerstone Environmental Group
Street Address: 100 Crystal Run Rd, Suite 101
City: Middletown State: NY Zip: 10941
Project Contact: Tim Roeper E-mail: tim.roeper@cornerstoneeg.com
Phone #: 845-695-0252 Fax #:
Sampler(s) Name(s): Rob Lautenberg and Dan Wheeler Phone #:

Project Information

Project Name: E203361 (Ford Ringwood)
Street: Peters Mine Road
City: Ringwood State: NJ
Project #:
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)

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

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	TCL VOCs + 15 TICs	TDS	SO4	Chloride	Nitrate	HCO3	Mg, Na, Ca, Fe	Dissolved Mg, Na, Ca, Fe				LAB USE ONLY
1	TB-042015		4/20/15	–	–	TB	2	2								✓											
2F	OB-21-042015		4/20/15	11:50	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				
3F	RW-7-042015		4/20/15	14:50	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				
4F	FB-042015		4/20/15	17:20	DW	FB	7	2		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other _____

Approved By (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"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format _____
- ☐ Other _____
- ☐ *NJ Data of Known Quality Protocol Reporting*

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

Comments / Special Instructions

INITIAL ASESSMENT
LABEL VERIFICATION

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:
	4/20/15 17:48	1	2	4/20/15 19:45	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable	On Ice ☐ Cooler Temp. 02.2°C

JB92815: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB92815 **Client:** _____ **Project:** _____

Date / Time Received: 4/20/2015 7:22:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (3.2/1.4); 0

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
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:	1		

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

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB92815: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Job Change Order: JB92815

Requested Date:	5/7/2015	**Received Date:**	4/20/2015
Account Name:	Cornerstone Environmental Grou	**Due Date:**	5/4/2015
Project Description:	E203361 Ford Ringwood, Peters Mine Road, Ringw	**Deliverable:**	REDT2
CSR:	mariem	**TAT (Days):**	14

==========

Sample #: JB92815-all

Dept:

Change:
Please revise to FULT1. Involved sub to ALSE.

==========

Above Changes Per:

Date/Time: 5/7/2015 3:02:49 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92815

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB92815-1 TB-042015	Collected: 20-APR-15 17:20 By: DW		Received: 20-APR-15 By: TH			
JB92815-1	SW846 8260C	24-APR-15 04:00	NH			V8260TCL42+
JB92815-2 OB-21-042015	Collected: 20-APR-15 11:50 By: DW		Received: 20-APR-15 By: TH			
JB92815-2	SM4500NO2 B-11	21-APR-15 21:30	JM			NO2
JB92815-2	SM2540 C-11	24-APR-15	KP			TDS
JB92815-2	SW846 8260C	24-APR-15 05:26	NH			V8260TCL42+
JB92815-2	SW846 6010C	27-APR-15 20:06	KK	24-APR-15	MO	CA,FE,MG,NA
JB92815-2	EPA353.2/SM4500NO2B	29-APR-15 17:15	BS			NO3O
JB92815-2	EPA 353.2/LACHAT	29-APR-15 17:15	BS	29-APR-15	BS	NO32
JB92815-2	SM2320 B-11	30-APR-15	JA			ALK
JB92815-2	SM4500CO2 D-11	30-APR-15	JA			BIC
JB92815-2	EPA 300/SW846 9056A	04-MAY-15 18:07	AFL	04-MAY-15	AFL	CHL,SO4
JB92815-3 RW-7-042015	Collected: 20-APR-15 14:50 By: DW		Received: 20-APR-15 By: TH			
JB92815-3	SM4500NO2 B-11	21-APR-15 21:30	JM			NO2
JB92815-3	SM2540 C-11	24-APR-15	KP			TDS
JB92815-3	SW846 8260C	24-APR-15 04:58	NH			V8260TCL42+
JB92815-3	SW846 6010C	27-APR-15 20:09	KK	24-APR-15	MO	CA,FE,MG,NA
JB92815-3	EPA353.2/SM4500NO2B	29-APR-15 17:16	BS			NO3O
JB92815-3	EPA 353.2/LACHAT	29-APR-15 17:16	BS	29-APR-15	BS	NO32
JB92815-3	SM2320 B-11	30-APR-15	JA			ALK
JB92815-3	SM4500CO2 D-11	30-APR-15	JA			BIC
JB92815-3	EPA 300/SW846 9056A	04-MAY-15 18:23	AFL	04-MAY-15	AFL	CHL,SO4
JB92815-4 FB042015	Collected: 20-APR-15 17:20 By: DW		Received: 20-APR-15 By: TH			
JB92815-4	SM4500NO2 B-11	21-APR-15 21:30	JM			NO2
JB92815-4	SM2540 C-11	24-APR-15	KP			TDS
JB92815-4	SW846 8260C	24-APR-15 04:28	NH			V8260TCL42+
JB92815-4	SW846 6010C	27-APR-15 20:17	KK	24-APR-15	MO	CA,FE,MG,NA
JB92815-4	EPA353.2/SM4500NO2B	29-APR-15 17:17	BS			NO3O
JB92815-4	EPA 353.2/LACHAT	29-APR-15 17:17	BS	29-APR-15	BS	NO32

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92815

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB92815-4	SM2320 B-11	30-APR-15	JA			ALK
JB92815-4	SM4500CO2 D-11	30-APR-15	JA			BIC
JB92815-4	EPA 300/SW846 9056A	04-MAY-15 18:39	AFL	04-MAY-15	AFL	CHL,SO4
JB92815-2F	Collected: 20-APR-15 11:50 By: DW		Received: 20-APR-15 By: TH			
OB-21-042015						
JB92815-2F	SW846 6010C	27-APR-15 20:20	KK	24-APR-15	MO	CA,FE,MG,NA
JB92815-3F	Collected: 20-APR-15 14:50 By: DW		Received: 20-APR-15 By: TH			
RW-7-042015						
JB92815-3F	SW846 6010C	27-APR-15 20:23	KK	24-APR-15	MO	CA,FE,MG,NA
JB92815-4F	Collected: 20-APR-15 17:20 By: DW		Received: 20-APR-15 By: TH			
FB042015						
JB92815-4F	SW846 6010C	27-APR-15 20:26	KK	24-APR-15	MO	CA,FE,MG,NA

Accutest Internal Chain of Custody

Job Number: JB92815
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92815-1.1	Secured Storage	Nicole Horvath	04/23/15 10:41	Retrieve from Storage
JB92815-1.1	Nicole Horvath	GCMSU	04/23/15 10:41	Load on Instrument
JB92815-1.1	GCMSU	Nicole Horvath	04/24/15 09:18	Unload from Instrument
JB92815-1.1	Nicole Horvath	Secured Storage	04/24/15 09:18	Return to Storage
JB92815-2.1	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92815-2.1	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92815-2.1	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92815-2.1	Secured Storage	Alfredo Crespo	04/30/15 08:46	Retrieve from Storage
JB92815-2.1	Alfredo Crespo	Secured Staging Area	04/30/15 08:46	Return to Storage
JB92815-2.1	Secured Staging Area	Jayshree Amin	04/30/15 08:50	Retrieve from Storage
JB92815-2.1	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92815-2.2	Secured Storage	Todd Shoemaker	04/24/15 11:55	Retrieve from Storage
JB92815-2.2	Todd Shoemaker	Secured Staging Area	04/24/15 11:55	Return to Storage
JB92815-2.2	Secured Staging Area	Michael Obasidey	04/24/15 14:44	Retrieve from Storage
JB92815-2.2	Michael Obasidey	Masooda Sultani	04/25/15 13:14	Custody Transfer
JB92815-2.2	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92815-2.2.1	Michael Obasidey	Metals Digestion	04/24/15 14:52	Digestate from JB92815-2.2
JB92815-2.2.1	Metals Digestion	Michael Obasidey	04/24/15 14:52	Digestate from JB92815-2.2
JB92815-2.2.1	Michael Obasidey	Metals Digestate Storage	04/24/15 14:52	Return to Storage
JB92815-2.2.1	Metals Digestate Storage	Kyle Kroeze	04/27/15 18:56	Retrieve from Storage
JB92815-2.2.1	Kyle Kroeze	Metals Digestate Storage	04/27/15 18:57	Return to Storage
JB92815-2.4	Secured Storage	Todd Shoemaker	04/29/15 11:31	Retrieve from Storage
JB92815-2.4	Todd Shoemaker	Brian Schneller	04/29/15 11:33	Custody Transfer
JB92815-2.4	Brian Schneller	Secured Storage	04/29/15 18:29	Return to Storage
JB92815-2.5	Secured Storage	Lucas Schneider	04/20/15 21:08	Retrieve from Storage
JB92815-2.5	Lucas Schneider	Secured Storage	04/20/15 22:40	Return to Storage
JB92815-2.5	Secured Storage	Todd Shoemaker	04/21/15 14:16	Retrieve from Storage
JB92815-2.5	Todd Shoemaker	Jeremy Miles	04/21/15 15:23	Custody Transfer
JB92815-2.5	Jeremy Miles	Secured Storage	04/21/15 23:29	Return to Storage
JB92815-2.5	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92815-2.5	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92815-2.5	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92815-2.5	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92815-2.5	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92815-2.5	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92815-2.5	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92815-2.5	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92815-2.5	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB92815
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92815-2.5	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92815-2.5	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92815-2.5	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92815-2.6	Secured Storage	Nicole Horvath	04/23/15 10:41	Retrieve from Storage
JB92815-2.6	Nicole Horvath	GCMSU	04/23/15 10:41	Load on Instrument
JB92815-2.6	GCMSU	Nicole Horvath	04/24/15 09:18	Unload from Instrument
JB92815-2.6	Nicole Horvath	Secured Storage	04/24/15 09:18	Return to Storage
JB92815-2.9	Secured Storage	Bernadette Vassilatos	04/29/15 13:14	Retrieve from Storage
JB92815-2.9	Bernadette Vassilatos		04/29/15 13:15	Subcontract
JB92815-2F.3	Secured Storage	Todd Shoemaker	04/24/15 11:55	Retrieve from Storage
JB92815-2F.3	Todd Shoemaker	Secured Staging Area	04/24/15 11:55	Return to Storage
JB92815-2F.3	Secured Staging Area	Michael Obasidey	04/24/15 14:44	Retrieve from Storage
JB92815-2F.3	Michael Obasidey	Masooda Sultani	04/25/15 13:14	Custody Transfer
JB92815-2F.3	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92815-2F.3.1	Michael Obasidey	Metals Digestion	04/24/15 14:52	Digestate from JB92815-2F.3
JB92815-2F.3.1	Metals Digestion	Michael Obasidey	04/24/15 14:52	Digestate from JB92815-2F.3
JB92815-2F.3.1	Michael Obasidey	Metals Digestate Storage	04/24/15 14:52	Return to Storage
JB92815-2F.3.1	Metals Digestate Storage	Kyle Kroeze	04/27/15 18:56	Retrieve from Storage
JB92815-2F.3.1	Kyle Kroeze	Metals Digestate Storage	04/27/15 18:57	Return to Storage
JB92815-3.1	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92815-3.1	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92815-3.1	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92815-3.1	Secured Storage	Alfredo Crespo	04/30/15 08:46	Retrieve from Storage
JB92815-3.1	Alfredo Crespo	Secured Staging Area	04/30/15 08:46	Return to Storage
JB92815-3.1	Secured Staging Area	Jayshree Amin	04/30/15 08:50	Retrieve from Storage
JB92815-3.1	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92815-3.2	Secured Storage	Todd Shoemaker	04/24/15 11:55	Retrieve from Storage
JB92815-3.2	Todd Shoemaker	Secured Staging Area	04/24/15 11:55	Return to Storage
JB92815-3.2	Secured Staging Area	Michael Obasidey	04/24/15 14:44	Retrieve from Storage
JB92815-3.2	Michael Obasidey	Masooda Sultani	04/25/15 13:14	Custody Transfer
JB92815-3.2	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92815-3.2.1	Michael Obasidey	Metals Digestion	04/24/15 14:52	Digestate from JB92815-3.2
JB92815-3.2.1	Metals Digestion	Michael Obasidey	04/24/15 14:52	Digestate from JB92815-3.2
JB92815-3.2.1	Michael Obasidey	Metals Digestate Storage	04/24/15 14:52	Return to Storage
JB92815-3.2.1	Metals Digestate Storage	Kyle Kroeze	04/27/15 18:56	Retrieve from Storage
JB92815-3.2.1	Kyle Kroeze	Metals Digestate Storage	04/27/15 18:57	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB92815
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92815-3.4	Secured Storage	Todd Shoemaker	04/29/15 11:31	Retrieve from Storage
JB92815-3.4	Todd Shoemaker	Brian Schneller	04/29/15 11:33	Custody Transfer
JB92815-3.4	Brian Schneller	Secured Storage	04/29/15 18:29	Return to Storage
JB92815-3.5	Secured Storage	Lucas Schneider	04/20/15 21:08	Retrieve from Storage
JB92815-3.5	Lucas Schneider	Secured Storage	04/20/15 22:40	Return to Storage
JB92815-3.5	Secured Storage	Todd Shoemaker	04/21/15 14:16	Retrieve from Storage
JB92815-3.5	Todd Shoemaker	Jeremy Miles	04/21/15 15:23	Custody Transfer
JB92815-3.5	Jeremy Miles	Secured Storage	04/21/15 23:29	Return to Storage
JB92815-3.5	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92815-3.5	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92815-3.5	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92815-3.5	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92815-3.5	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92815-3.5	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92815-3.5	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92815-3.5	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92815-3.5	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92815-3.5	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92815-3.5	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92815-3.5	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92815-3.6	Secured Storage	Nicole Horvath	04/23/15 10:41	Retrieve from Storage
JB92815-3.6	Nicole Horvath	GCMSU	04/23/15 10:41	Load on Instrument
JB92815-3.6	GCMSU	Nicole Horvath	04/24/15 09:18	Unload from Instrument
JB92815-3.6	Nicole Horvath	Secured Storage	04/24/15 09:18	Return to Storage
JB92815-3.9	Secured Storage	Bernadette Vassilatos	04/29/15 13:14	Retrieve from Storage
JB92815-3.9	Bernadette Vassilatos		04/29/15 13:15	Subcontract
JB92815-3F.3	Secured Storage	Todd Shoemaker	04/24/15 11:55	Retrieve from Storage
JB92815-3F.3	Todd Shoemaker	Secured Staging Area	04/24/15 11:55	Return to Storage
JB92815-3F.3	Secured Staging Area	Michael Obasidey	04/24/15 14:44	Retrieve from Storage
JB92815-3F.3	Michael Obasidey	Masooda Sultani	04/25/15 13:14	Custody Transfer
JB92815-3F.3	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92815-3F.3.1	Michael Obasidey	Metals Digestion	04/24/15 14:52	Digestate from JB92815-3F.3
JB92815-3F.3.1	Metals Digestion	Michael Obasidey	04/24/15 14:52	Digestate from JB92815-3F.3
JB92815-3F.3.1	Michael Obasidey	Metals Digestate Storage	04/24/15 14:52	Return to Storage
JB92815-3F.3.1	Metals Digestate Storage	Kyle Kroeze	04/27/15 18:56	Retrieve from Storage
JB92815-3F.3.1	Kyle Kroeze	Metals Digestate Storage	04/27/15 18:57	Return to Storage
JB92815-4.1	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB92815
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92815-4.1	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92815-4.1	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92815-4.1	Secured Storage	Alfredo Crespo	04/30/15 08:46	Retrieve from Storage
JB92815-4.1	Alfredo Crespo	Secured Staging Area	04/30/15 08:46	Return to Storage
JB92815-4.1	Secured Staging Area	Jayshree Amin	04/30/15 08:50	Retrieve from Storage
JB92815-4.1	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92815-4.2	Secured Storage	Todd Shoemaker	04/24/15 11:55	Retrieve from Storage
JB92815-4.2	Todd Shoemaker	Secured Staging Area	04/24/15 11:55	Return to Storage
JB92815-4.2	Secured Staging Area	Michael Obasidey	04/24/15 14:44	Retrieve from Storage
JB92815-4.2	Michael Obasidey	Masooda Sultani	04/25/15 13:14	Custody Transfer
JB92815-4.2	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92815-4.2.1	Michael Obasidey	Metals Digestion	04/24/15 14:52	Digestate from JB92815-4.2
JB92815-4.2.1	Metals Digestion	Michael Obasidey	04/24/15 14:52	Digestate from JB92815-4.2
JB92815-4.2.1	Michael Obasidey	Metals Digestate Storage	04/24/15 14:52	Return to Storage
JB92815-4.2.1	Metals Digestate Storage	Kyle Kroeze	04/27/15 18:56	Retrieve from Storage
JB92815-4.2.1	Kyle Kroeze	Metals Digestate Storage	04/27/15 18:57	Return to Storage
JB92815-4.4	Secured Storage	Todd Shoemaker	04/29/15 11:31	Retrieve from Storage
JB92815-4.4	Todd Shoemaker	Brian Schneller	04/29/15 11:33	Custody Transfer
JB92815-4.4	Brian Schneller	Secured Storage	04/29/15 18:29	Return to Storage
JB92815-4.5	Secured Storage	Lucas Schneider	04/20/15 21:08	Retrieve from Storage
JB92815-4.5	Lucas Schneider	Secured Storage	04/20/15 22:40	Return to Storage
JB92815-4.5	Secured Storage	Todd Shoemaker	04/21/15 14:16	Retrieve from Storage
JB92815-4.5	Todd Shoemaker	Jeremy Miles	04/21/15 15:23	Custody Transfer
JB92815-4.5	Jeremy Miles	Secured Storage	04/21/15 23:29	Return to Storage
JB92815-4.5	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92815-4.5	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92815-4.5	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92815-4.5	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92815-4.5	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92815-4.5	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92815-4.5	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92815-4.5	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92815-4.5	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92815-4.5	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92815-4.5	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92815-4.5	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92815-4.6	Secured Storage	Nicole Horvath	04/23/15 10:41	Retrieve from Storage
JB92815-4.6	Nicole Horvath	GCMSU	04/23/15 10:41	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB92815
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92815-4.6	GCMSU	Nicole Horvath	04/24/15 09:18	Unload from Instrument
JB92815-4.6	Nicole Horvath	Secured Storage	04/24/15 09:18	Return to Storage
JB92815-4.8	Secured Storage	Bernadette Vassilatos	04/29/15 13:14	Retrieve from Storage
JB92815-4.8	Bernadette Vassilatos		04/29/15 13:15	Subcontract
JB92815-4F.3	Secured Storage	Todd Shoemaker	04/24/15 11:55	Retrieve from Storage
JB92815-4F.3	Todd Shoemaker	Secured Staging Area	04/24/15 11:55	Return to Storage
JB92815-4F.3	Secured Staging Area	Michael Obasidey	04/24/15 14:44	Retrieve from Storage
JB92815-4F.3	Michael Obasidey	Masooda Sultani	04/25/15 13:14	Custody Transfer
JB92815-4F.3	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92815-4F.3.1	Michael Obasidey	Metals Digestion	04/24/15 14:52	Digestate from JB92815-4F.3
JB92815-4F.3.1	Metals Digestion	Michael Obasidey	04/24/15 14:52	Digestate from JB92815-4F.3
JB92815-4F.3.1	Michael Obasidey	Metals Digestate Storage	04/24/15 14:52	Return to Storage
JB92815-4F.3.1	Metals Digestate Storage	Kyle Kroeze	04/27/15 18:56	Retrieve from Storage
JB92815-4F.3.1	Kyle Kroeze	Metals Digestate Storage	04/27/15 18:57	Return to Storage

New Jersey
ACCUTEST LABORATORIES

05/08/15

Technical Report for

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Accutest Job Number: JB92906

Sampling Date: 04/21/15

Report to:

Cornerstone Environmental
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Middletown, NY 10941
Tim.Roeper@Cornerstoneeg.com; jtomalia@cadenaco.com

ATTN: Tim Roeper

Total number of pages in report: **459**

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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: Marie Meidhof 732-329-0200

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Accutest Laboratories

Sample Summary

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92906

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB92906-1	04/21/15	09:25	DW	04/21/15	AQ	Ground Water	OB-20A-042115
JB92906-1F	04/21/15	09:25	DW	04/21/15	AQ	Groundwater Filtered	OB-20A-042115
JB92906-2	04/21/15	15:35	DW	04/21/15	AQ	Trip Blank Water	TB-042115
JB92906-3	04/21/15	13:15	DW	04/21/15	AQ	Ground Water	OB-20B-042115
JB92906-3F	04/21/15	13:15	DW	04/21/15	AQ	Groundwater Filtered	OB-20B-042115
JB92906-4	04/21/15	15:35	DW	04/21/15	AQ	Ground Water	OB-27-042115
JB92906-4F	04/21/15	15:35	DW	04/21/15	AQ	Groundwater Filtered	OB-27-042115

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Cornerstone Environmental Group, LLC	**Job No**	JB92906
Site:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ	**Report Date**	5/6/2015 8:21:12 AM

On 04/21/2015, 3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.1 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB92906 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.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V3A6097

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92906-3MS, JB92906-3MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethane, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromoform, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethene, Cyclohexane, Dibromochloromethane, Freon 113, Isopropylbenzene, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, Xylene (total) are outside control limits. Outside in house control limits.
- RPD(s) for MSD for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone(MIBK), Acetone, Benzene, Bromodichloromethane, Bromoform, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Cyclohexane, Dibromochloromethane, Ethylbenzene, Freon 113, Isopropylbenzene, Methyl Acetate, Methyl Tert Butyl Ether, Methylcyclohexane, Methylene chloride, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total) are outside control limits for sample JB92906-3MSD. Outside in house control limits.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP86033

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93186-1MS, JB93186-1MSD, JB93186-1SDL were used as the QC samples for metals.
- Matrix Spike Duplicate Recovery(s) for Iron are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** F:GP25927

- The data for EPA 300/SW846 9056A meets quality control requirements.
- JB92906-1 for Sulfate: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92906-3 for Chloride: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92906-3 for Sulfate: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92906-4 for Chloride: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92906-4 for Sulfate: Analysis performed at Accutest Laboratories, Orlando FL.
- JB92906-1 for Chloride: Analysis performed at Accutest Laboratories, Orlando FL.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ	**Batch ID:** GP88673

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93213-2DUP, JB93213-2MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Wet Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ	**Batch ID:** R143458

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92906-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	**Batch ID:** R143459

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92906-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	**Batch ID:** R143460

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92906-4 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM2320 B-11

Matrix: AQ	**Batch ID:** GN24558

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93577-1DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM2540 C-11

Matrix: AQ	**Batch ID:** GN24122

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92906-1DUP were used as the QC samples for Solids, Total Dissolved.

Wet Chemistry By Method SM4500CO2 D-11

Matrix: AQ	**Batch ID:** GN24568

- The data for SM4500CO2 D-11 meets quality control requirements.

Wet Chemistry By Method SM4500NO2 B-11

Matrix: AQ	**Batch ID:** GN23817

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92823-5DUP, JB92823-5MS were used as the QC samples for Nitrogen, Nitrite.

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey **Job No:** JB92906

Site: CORNNYM: E203361 Ford Ringwood, Peters Mine Road, **Report Date:** 5/5/2015 11:12:30 PM

3 Sample(s) were collected on 04/21/2015 and were received at Accutest SE on 04/30/2015 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of JB92906. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP25927

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) JB92815-4MS, JB92815-4MSD were used as the QC samples for Chloride and Sulfate.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 5, 2015

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: JB92906
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/21/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB92906-1	**OB-20A-042115**					
Calcium		29900	5000		ug/l	SW846 6010C
Iron		26800	100		ug/l	SW846 6010C
Alkalinity, Bicarbonate		118	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		118	13		mg/l	SM2320 B-11
Chloride [a]		2.2	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		144	10		mg/l	SM2540 C-11
JB92906-1F	**OB-20A-042115**					
Calcium		29600	5000		ug/l	SW846 6010C
Iron		26400	100		ug/l	SW846 6010C
JB92906-2	**TB-042115**					
No hits reported in this sample.						
JB92906-3	**OB-20B-042115**					
Benzene		0.36 J	0.50	0.24	ug/l	SW846 8260C
Chloroethane		2.4	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		0.86 J	5.0	0.28	ug/l	SW846 8260C
Methylcyclohexane		0.59 J	5.0	0.22	ug/l	SW846 8260C
Total TIC, Volatile		16.6 J			ug/l	
Calcium		61700	5000		ug/l	SW846 6010C
Iron		46700	100		ug/l	SW846 6010C
Magnesium		11500	5000		ug/l	SW846 6010C
Alkalinity, Bicarbonate		230	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		230	13		mg/l	SM2320 B-11
Chloride [a]		2.1	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		333	10		mg/l	SM2540 C-11
JB92906-3F	**OB-20B-042115**					
Calcium		60000	5000		ug/l	SW846 6010C
Iron		44800	100		ug/l	SW846 6010C
Magnesium		11100	5000		ug/l	SW846 6010C
JB92906-4	**OB-27-042115**					
Benzene		3.1	0.50	0.24	ug/l	SW846 8260C
Chloroethane		87.2	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		1.8 J	5.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		3.4	1.0	0.23	ug/l	SW846 8260C

Summary of Hits

Job Number: JB92906
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Methylcyclohexane	1.1 J	5.0	0.22	ug/l	SW846 8260C
Total TIC, Volatile	213.9 J			ug/l	
Calcium	42800	5000		ug/l	SW846 6010C
Iron	65200	100		ug/l	SW846 6010C
Magnesium	5810	5000		ug/l	SW846 6010C
Alkalinity, Bicarbonate	152	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3	152	13		mg/l	SM2320 B-11
Chloride [a]	2.0	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved	256	20		mg/l	SM2540 C-11
JB92906-4F OB-27-042115					
Calcium	42000	5000		ug/l	SW846 6010C
Iron	61200	100		ug/l	SW846 6010C
Magnesium	5770	5000		ug/l	SW846 6010C

(a) Analysis performed at Accutest Laboratories, Orlando FL.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OB-20A-042115		
Lab Sample ID:	JB92906-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	3A140841.D	1	04/23/15	ZH	n/a	n/a	V3A6097
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	OB-20A-042115		
Lab Sample ID:	JB92906-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	90%		73-122%
2037-26-5	Toluene-D8	95%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.45	100	ug/l	JB
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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:	OB-20A-042115		
Lab Sample ID:	JB92906-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	29900	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Iron	26800	100	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36523
(2) Prep QC Batch: MP86033

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-20A-042115		
Lab Sample ID:	JB92906-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	118	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	118	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride [a]	2.2	2.0	mg/l	1	05/04/15 18:55	AFL	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	04/30/15 17:07	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/30/15 17:07	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 21:30	JM	SM4500NO2 B-11
Solids, Total Dissolved	144	10	mg/l	1	04/25/15	KP	SM2540 C-11
Sulfate [a]	< 2.0	2.0	mg/l	1	05/04/15 18:55	AFL	EPA 300/SW846 9056A

(a) Analysis performed at Accutest Laboratories, Orlando FL.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-20A-042115		
Lab Sample ID:	JB92906-1F	**Date Sampled:**	04/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	29600	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Iron	26400	100	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36523
(2) Prep QC Batch: MP86033

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-042115		
Lab Sample ID:	JB92906-2	**Date Sampled:**	04/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	3A140832.D	1	04/23/15	ZH	n/a	n/a	V3A6097
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	TB-042115		
Lab Sample ID:	JB92906-2	**Date Sampled:**	04/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	91%		73-122%
2037-26-5	Toluene-D8	97%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.42	94	ug/l	JB
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OB-20B-042115		
Lab Sample ID:	JB92906-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	3A140826.D	1	04/23/15	ZH	n/a	n/a	V3A6097
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.36	0.50	0.24	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	2.4	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	0.86	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	OB-20B-042115		
Lab Sample ID:	JB92906-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.59	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	91%		73-122%
2037-26-5	Toluene-D8	98%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.44	97	ug/l	JB
496-11-7	Indane	17.65	5.6	ug/l	JN
	1H-Indene-dihydro-methyl- isomer	19.09	5.5	ug/l	J
	C5 alkyl benzene	20.53	5.5	ug/l	J
	Total TIC, Volatile		16.6	ug/l	J
	Total Alkanes		0	ug/l	

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:	OB-20B-042115		
Lab Sample ID:	JB92906-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	61700	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Iron	46700	100	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Magnesium	11500	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36523
(2) Prep QC Batch: MP86033

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-20B-042115		
Lab Sample ID:	JB92906-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	230	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	230	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride [a]	2.1	2.0	mg/l	1	05/04/15 19:11	AFL	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	04/30/15 17:08	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/30/15 17:08	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 21:36	JM	SM4500NO2 B-11
Solids, Total Dissolved	333	10	mg/l	1	04/25/15	KP	SM2540 C-11
Sulfate [a]	< 2.0	2.0	mg/l	1	05/04/15 19:11	AFL	EPA 300/SW846 9056A

(a) Analysis performed at Accutest Laboratories, Orlando FL.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-20B-042115		
Lab Sample ID:	JB92906-3F	**Date Sampled:**	04/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	60000	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Iron	44800	100	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Magnesium	11100	5000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/25/15	04/27/15	BS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36523
(2) Prep QC Batch: MP86033

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	OB-27-042115		
Lab Sample ID:	JB92906-4	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	3A140840.D	1	04/23/15	ZH	n/a	n/a	V3A6097
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	3.1	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	87.2	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	1.8	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	3.4	1.0	0.23	ug/l	

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:	OB-27-042115		
Lab Sample ID:	JB92906-4	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	1.1	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	93%		73-122%
2037-26-5	Toluene-D8	96%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.45	100	ug/l	JB
496-11-7	Indane	17.65	12	ug/l	JN
	C4 alkyl benzene	18.03	10	ug/l	J
	C4 alkyl benzene	18.47	15	ug/l	J
	C4 alkyl benzene	19.03	17	ug/l	J
	1H-Indene-dihydro-methyl- isomer	19.09	19	ug/l	J
	1H-indene-dihydro-dimethyl- isomer	19.38	17	ug/l	J
	1H-indene-dihydro-dimethyl- isomer	19.57	17	ug/l	J
91-20-3	Naphthalene	19.89	22	ug/l	JN
	unknown	20.03	9.6	ug/l	J
	1H-indene-dihydro-dimethyl- isomer	20.17	9	ug/l	J
	1H-indene-dihydro-dimethyl- isomer	20.41	18	ug/l	J
	1H-indene-dihydro-dimethyl- isomer	20.67	10	ug/l	J
	1H-Indene-dihydro-trimethyl- isomer	20.82	8.3	ug/l	J

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:	OB-27-042115		
Lab Sample ID:	JB92906-4	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene-dihydro-trimethyl- isomer	21.13	12	ug/l	J
	Naphthalene, methyl- isomer	21.48	18	ug/l	J
	Total TIC, Volatile		213.9	ug/l	J
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OB-27-042115		
Lab Sample ID:	JB92906-4	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	42800	5000	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]
Iron	65200	100	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]
Magnesium	5810	5000	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36536
(2) Prep QC Batch: MP86033

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-27-042115		
Lab Sample ID:	JB92906-4	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	152	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	152	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride [a]	2.0	2.0	mg/l	1	05/04/15 19:28	AFL	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	04/30/15 17:09	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/30/15 17:09	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 21:36	JM	SM4500NO2 B-11
Solids, Total Dissolved	256	20	mg/l	1	04/25/15	KP	SM2540 C-11
Sulfate [a]	< 2.0	2.0	mg/l	1	05/04/15 19:28	AFL	EPA 300/SW846 9056A

(a) Analysis performed at Accutest Laboratories, Orlando FL.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-27-042115		
Lab Sample ID:	JB92906-4F	**Date Sampled:**	04/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	42000	5000	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]
Iron	61200	100	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]
Magnesium	5770	5000	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/25/15	04/28/15	BS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36536
(2) Prep QC Batch: MP86033

RL = Reporting Limit

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

GW
WIB

CHAIN OF CUSTODY

PAGE ___ OF ___

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

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB92906

Client / Reporting Information

Company Name: Cornerstone Environmental Group
Street Address: 100 Crystal Run Rd, Suite 101
City / State / Zip: Middletown NY 10941
Project Contact / E-mail: Tim Roeper tim.roeper@cornerstonegroup
Phone # / Fax #: 845-695-0252
Sampler(s) Name(s) / Phone #: Rob Lautenberg and Dan Wheeler

Project Information

Project Name: E203361 (Ford Ringwood)
Street: Peters Mine Road
City / State: Ringwood NJ
Project #:
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)

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

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	TCL VOCs + 15 TICs	TDS	SO4	chloride	HCO3	Nitrate	Mg, Na, Ca, Fe	Dissolved Mg, Na, Ca, Fe				LAB USE ONLY
1F	OB-20A-042115		4/21/15	09:25	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				A14
2	TB-042115		4/21/15	-	-	TB	2	2								✓											G43
3F	OB-20B-042115 ✱		4/21/15	13:15	DW	GW	9	4		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				V810
4F	OB-27-042115		4/21/15	15:35	DJ	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:
INITIAL ASESSMENT 2A 3m
LABEL VERIFICATION 4m

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

✱ QC VOA VIAL 4/21/15

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		1600 4-21-15	4-21-15	1835	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 957 ☑ Intact ☐ Not intact	Preserved where applicable ☐ 3m	On Ice ☑ Cooler Temp 2.9C IP

5.1
5

JB92906: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB92906 **Client:** **Project:**

Date / Time Received: 4/21/2015 6:35:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.9/1.1); 0

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:	1		

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

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB92906: Chain of Custody
Page 2 of 3

Job Change Order: JB92906

Requested Date:	5/7/2015	**Received Date:**	4/21/2015
Account Name:	Cornerstone Environmental Grou	**Due Date:**	5/5/2015
Project Description:	E203361 Ford Ringwood, Peters Mine Road, Ringw	**Deliverable:**	REDT2
CSR:	mariem	**TAT (Days):**	14

==========

Sample #: JB92906-all

Dept:

Change:
Please revise deliverable to FULT1. Also subbed to ALSE.

==========

Above Changes Per:

Date/Time: 5/7/2015 2:50:01 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92906

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB92906-1	Collected: 21-APR-15 09:25 By: DW		Received: 21-APR-15 By: AS			
OB-20A-042115						
JB92906-1	SM4500NO2 B-11	21-APR-15 21:30	JM			NO2
JB92906-1	SW846 8260C	23-APR-15 22:11	ZH			V8260TCL42+
JB92906-1	SM2540 C-11	25-APR-15	KP			TDS
JB92906-1	SW846 6010C	27-APR-15 12:04	BS	25-APR-15	MO	CA,FE,MG,NA
JB92906-1	EPA353.2/SM4500NO2B	30-APR-15 17:07	BS			NO3O
JB92906-1	EPA 353.2/LACHAT	30-APR-15 17:07	BS	30-APR-15	BS	NO32
JB92906-1	SM2320 B-11	01-MAY-15	CB			ALK
JB92906-1	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB92906-1	EPA 300/SW846 9056A	04-MAY-15 18:55	AFL	04-MAY-15	AFL	CHL,SO4
JB92906-2	Collected: 21-APR-15 15:35 By: DW		Received: 21-APR-15 By: AS			
TB-042115						
JB92906-2	SW846 8260C	23-APR-15 17:40	ZH			V8260TCL42+
JB92906-3	Collected: 21-APR-15 13:15 By: DW		Received: 21-APR-15 By: AS			
OB-20B-042115						
JB92906-3	SM4500NO2 B-11	21-APR-15 21:36	JM			NO2
JB92906-3	SW846 8260C	23-APR-15 14:40	ZH			V8260TCL42+
JB92906-3	SM2540 C-11	25-APR-15	KP			TDS
JB92906-3	SW846 6010C	27-APR-15 12:10	BS	25-APR-15	MO	CA,FE,MG,NA
JB92906-3	EPA353.2/SM4500NO2B	30-APR-15 17:08	BS			NO3O
JB92906-3	EPA 353.2/LACHAT	30-APR-15 17:08	BS	30-APR-15	BS	NO32
JB92906-3	SM2320 B-11	01-MAY-15	CB			ALK
JB92906-3	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB92906-3	EPA 300/SW846 9056A	04-MAY-15 19:11	AFL	04-MAY-15	AFL	CHL,SO4
JB92906-4	Collected: 21-APR-15 15:35 By: DW		Received: 21-APR-15 By: AS			
OB-27-042115						
JB92906-4	SM4500NO2 B-11	21-APR-15 21:36	JM			NO2
JB92906-4	SW846 8260C	23-APR-15 21:41	ZH			V8260TCL42+
JB92906-4	SM2540 C-11	25-APR-15	KP			TDS
JB92906-4	SW846 6010C	28-APR-15 18:07	BS	25-APR-15	MO	CA,FE,MG,NA
JB92906-4	EPA353.2/SM4500NO2B	30-APR-15 17:09	BS			NO3O
JB92906-4	EPA 353.2/LACHAT	30-APR-15 17:09	BS	30-APR-15	BS	NO32

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

Job No: JB92906

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB92906-4	SM2320 B-11	01-MAY-15	CB			ALK
JB92906-4	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB92906-4	EPA 300/SW846 9056A	04-MAY-15 19:28	AFL	04-MAY-15	AFL	CHL,SO4
JB92906-1F Collected: 21-APR-15 09:25 By: DW Received: 21-APR-15 By: AS OB-20A-042115						
JB92906-1F	SW846 6010C	27-APR-15 13:35	BS	25-APR-15	MO	CA,FE,MG,NA
JB92906-3F Collected: 21-APR-15 13:15 By: DW Received: 21-APR-15 By: AS OB-20B-042115						
JB92906-3F	SW846 6010C	27-APR-15 13:41	BS	25-APR-15	MO	CA,FE,MG,NA
JB92906-4F Collected: 21-APR-15 15:35 By: DW Received: 21-APR-15 By: AS OB-27-042115						
JB92906-4F	SW846 6010C	28-APR-15 18:13	BS	25-APR-15	MO	CA,FE,MG,NA

Accutest Internal Chain of Custody

Job Number: JB92906
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92906-1.1	Secured Storage	Gage Donahue	04/25/15 08:00	Retrieve from Storage
JB92906-1.1	Gage Donahue	Secured Staging Area	04/25/15 08:00	Return to Storage
JB92906-1.1	Secured Staging Area	Masooda Sultani	04/25/15 08:54	Retrieve from Storage
JB92906-1.1	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92906-1.1.1	Masooda Sultani	Metals Digestion	04/25/15 13:25	Digestate from JB92906-1.1
JB92906-1.1.1	Metals Digestion	Michael Obasidey	04/25/15 13:25	Digestate from JB92906-1.1
JB92906-1.1.1	Michael Obasidey	Metals Digestate Storage	04/25/15 13:25	Return to Storage
JB92906-1.1.1	Metals Digestate Storage	Bryan Stokes-Cawley	04/27/15 15:07	Retrieve from Storage
JB92906-1.1.1	Bryan Stokes-Cawley	Metals Digestate Storage	04/27/15 15:08	Return to Storage
JB92906-1.3	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92906-1.3	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92906-1.3	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92906-1.3	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB92906-1.3	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB92906-1.3	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB92906-1.3	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB92906-1.3	Secured Storage	Alfredo Crespo	04/29/15 09:33	Retrieve from Storage
JB92906-1.3	Alfredo Crespo	Secured Staging Area	04/29/15 09:33	Return to Storage
JB92906-1.3	Secured Staging Area	Chris Brunson	04/29/15 09:37	Retrieve from Storage
JB92906-1.3	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92906-1.3	Secured Storage	Alfredo Crespo	04/30/15 08:46	Retrieve from Storage
JB92906-1.3	Alfredo Crespo	Secured Staging Area	04/30/15 08:46	Return to Storage
JB92906-1.3	Secured Staging Area	Jayshree Amin	04/30/15 08:50	Retrieve from Storage
JB92906-1.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92906-1.4	Secured Storage	Luis Villanueva	04/30/15 14:12	Retrieve from Storage
JB92906-1.4	Luis Villanueva	Secured Staging Area	04/30/15 14:12	Return to Storage
JB92906-1.4	Secured Staging Area	Brian Schneller	04/30/15 14:19	Retrieve from Storage
JB92906-1.4	Brian Schneller	Secured Storage	04/30/15 18:42	Return to Storage
JB92906-1.5	Secured Storage	Edwin Gonzalez	04/21/15 19:17	Retrieve from Storage
JB92906-1.5	Edwin Gonzalez	Secured Staging Area	04/21/15 19:17	Return to Storage
JB92906-1.5	Secured Staging Area	Jeremy Miles	04/21/15 20:54	Retrieve from Storage
JB92906-1.5	Jeremy Miles	Secured Storage	04/21/15 23:29	Return to Storage
JB92906-1.5	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92906-1.5	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92906-1.5	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92906-1.5	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92906-1.5	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92906-1.5	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB92906
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92906-1.5	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92906-1.5	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92906-1.5	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92906-1.5	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92906-1.5	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92906-1.5	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92906-1.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB92906-1.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB92906-1.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB92906-1.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB92906-1.7	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92906-1.7	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92906-1.7	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92906-1.7	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92906-1.9	Secured Storage	Bernadette Vassilatos	04/29/15 13:14	Retrieve from Storage
JB92906-1.9	Bernadette Vassilatos		04/29/15 13:15	Subcontract
JB92906-1F.2	Secured Storage	Gage Donahue	04/25/15 08:00	Retrieve from Storage
JB92906-1F.2	Gage Donahue	Secured Staging Area	04/25/15 08:00	Return to Storage
JB92906-1F.2	Secured Staging Area	Masooda Sultani	04/25/15 08:54	Retrieve from Storage
JB92906-1F.2	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92906-1F.2.1	Masooda Sultani	Metals Digestion	04/25/15 13:25	Digestate from JB92906-1F.2
JB92906-1F.2.1	Metals Digestion	Michael Obasidey	04/25/15 13:25	Digestate from JB92906-1F.2
JB92906-1F.2.1	Michael Obasidey	Metals Digestate Storage	04/25/15 13:25	Return to Storage
JB92906-1F.2.1	Metals Digestate Storage	Bryan Stokes-Cawley	04/27/15 15:07	Retrieve from Storage
JB92906-1F.2.1	Bryan Stokes-Cawley	Metals Digestate Storage	04/27/15 15:08	Return to Storage
JB92906-2.2	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92906-2.2	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92906-2.2	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92906-2.2	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92906-3.1	Secured Storage	Gage Donahue	04/25/15 08:00	Retrieve from Storage
JB92906-3.1	Gage Donahue	Secured Staging Area	04/25/15 08:00	Return to Storage
JB92906-3.1	Secured Staging Area	Masooda Sultani	04/25/15 08:54	Retrieve from Storage
JB92906-3.1	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92906-3.1.1	Masooda Sultani	Metals Digestion	04/25/15 13:25	Digestate from JB92906-3.1
JB92906-3.1.1	Metals Digestion	Michael Obasidey	04/25/15 13:25	Digestate from JB92906-3.1
JB92906-3.1.1	Michael Obasidey	Metals Digestate Storage	04/25/15 13:25	Return to Storage
JB92906-3.1.1	Metals Digestate Storage	Bryan Stokes-Cawley	04/27/15 15:07	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB92906
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92906-3.1.1	Bryan Stokes-Cawley	Metals Digestate Storage	04/27/15 15:08	Return to Storage
JB92906-3.3	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92906-3.3	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92906-3.3	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92906-3.3	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB92906-3.3	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB92906-3.3	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB92906-3.3	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB92906-3.3	Secured Storage	Alfredo Crespo	04/29/15 09:33	Retrieve from Storage
JB92906-3.3	Alfredo Crespo	Secured Staging Area	04/29/15 09:33	Return to Storage
JB92906-3.3	Secured Staging Area	Chris Brunson	04/29/15 09:37	Retrieve from Storage
JB92906-3.3	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92906-3.3	Secured Storage	Alfredo Crespo	04/30/15 08:46	Retrieve from Storage
JB92906-3.3	Alfredo Crespo	Secured Staging Area	04/30/15 08:46	Return to Storage
JB92906-3.3	Secured Staging Area	Jayshree Amin	04/30/15 08:50	Retrieve from Storage
JB92906-3.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92906-3.4	Secured Storage	Luis Villanueva	04/30/15 14:12	Retrieve from Storage
JB92906-3.4	Luis Villanueva	Secured Staging Area	04/30/15 14:12	Return to Storage
JB92906-3.4	Secured Staging Area	Brian Schneller	04/30/15 14:19	Retrieve from Storage
JB92906-3.4	Brian Schneller	Secured Storage	04/30/15 18:42	Return to Storage
JB92906-3.5	Secured Storage	Edwin Gonzalez	04/21/15 19:17	Retrieve from Storage
JB92906-3.5	Edwin Gonzalez	Secured Staging Area	04/21/15 19:17	Return to Storage
JB92906-3.5	Secured Staging Area	Jeremy Miles	04/21/15 20:54	Retrieve from Storage
JB92906-3.5	Jeremy Miles	Secured Storage	04/21/15 23:29	Return to Storage
JB92906-3.5	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92906-3.5	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92906-3.5	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92906-3.5	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92906-3.5	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92906-3.5	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92906-3.5	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92906-3.5	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92906-3.5	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92906-3.5	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92906-3.5	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92906-3.5	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92906-3.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB92906-3.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB92906-3.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB92906
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92906-3.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB92906-3.6	Secured Storage	Zobia Hamid	04/23/15 14:02	Retrieve from Storage
JB92906-3.6	Zobia Hamid	GCMS3A	04/23/15 14:02	Load on Instrument
JB92906-3.6	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92906-3.6	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92906-3.7	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92906-3.7	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92906-3.7	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92906-3.7	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92906-3.8	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92906-3.8	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92906-3.8	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92906-3.8	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92906-3.10	Secured Storage	Bernadette Vassilatos	04/29/15 13:14	Retrieve from Storage
JB92906-3.10	Bernadette Vassilatos		04/29/15 13:15	Subcontract
JB92906-3F.2	Secured Storage	Gage Donahue	04/25/15 08:00	Retrieve from Storage
JB92906-3F.2	Gage Donahue	Secured Staging Area	04/25/15 08:00	Return to Storage
JB92906-3F.2	Secured Staging Area	Masooda Sultani	04/25/15 08:54	Retrieve from Storage
JB92906-3F.2	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92906-3F.2.1	Masooda Sultani	Metals Digestion	04/25/15 13:25	Digestate from JB92906-3F.2
JB92906-3F.2.1	Metals Digestion	Michael Obasidey	04/25/15 13:25	Digestate from JB92906-3F.2
JB92906-3F.2.1	Michael Obasidey	Metals Digestate Storage	04/25/15 13:25	Return to Storage
JB92906-3F.2.1	Metals Digestate Storage	Bryan Stokes-Cawley	04/27/15 15:07	Retrieve from Storage
JB92906-3F.2.1	Bryan Stokes-Cawley	Metals Digestate Storage	04/27/15 15:08	Return to Storage
JB92906-4.1	Secured Storage	Gage Donahue	04/25/15 08:00	Retrieve from Storage
JB92906-4.1	Gage Donahue	Secured Staging Area	04/25/15 08:00	Return to Storage
JB92906-4.1	Secured Staging Area	Masooda Sultani	04/25/15 08:54	Retrieve from Storage
JB92906-4.1	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92906-4.1.1	Masooda Sultani	Metals Digestion	04/25/15 13:25	Digestate from JB92906-4.1
JB92906-4.1.1	Metals Digestion	Michael Obasidey	04/25/15 13:25	Digestate from JB92906-4.1
JB92906-4.1.1	Michael Obasidey	Metals Digestate Storage	04/25/15 13:25	Return to Storage
JB92906-4.1.1	Metals Digestate Storage	Bryan Stokes-Cawley	04/27/15 15:07	Retrieve from Storage
JB92906-4.1.1	Bryan Stokes-Cawley	Metals Digestate Storage	04/27/15 15:08	Return to Storage
JB92906-4.3	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92906-4.3	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JB92906
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92906-4.3	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92906-4.3	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB92906-4.3	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB92906-4.3	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB92906-4.3	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB92906-4.3	Secured Storage	Alfredo Crespo	04/29/15 09:33	Retrieve from Storage
JB92906-4.3	Alfredo Crespo	Secured Staging Area	04/29/15 09:33	Return to Storage
JB92906-4.3	Secured Staging Area	Chris Brunson	04/29/15 09:37	Retrieve from Storage
JB92906-4.3	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92906-4.3	Secured Storage	Alfredo Crespo	04/30/15 08:46	Retrieve from Storage
JB92906-4.3	Alfredo Crespo	Secured Staging Area	04/30/15 08:46	Return to Storage
JB92906-4.3	Secured Staging Area	Jayshree Amin	04/30/15 08:50	Retrieve from Storage
JB92906-4.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92906-4.4	Secured Storage	Luis Villanueva	04/30/15 14:12	Retrieve from Storage
JB92906-4.4	Luis Villanueva	Secured Staging Area	04/30/15 14:12	Return to Storage
JB92906-4.4	Secured Staging Area	Brian Schneller	04/30/15 14:19	Retrieve from Storage
JB92906-4.4	Brian Schneller	Secured Storage	04/30/15 18:42	Return to Storage
JB92906-4.5	Secured Storage	Edwin Gonzalez	04/21/15 19:17	Retrieve from Storage
JB92906-4.5	Edwin Gonzalez	Secured Staging Area	04/21/15 19:17	Return to Storage
JB92906-4.5	Secured Staging Area	Jeremy Miles	04/21/15 20:54	Retrieve from Storage
JB92906-4.5	Jeremy Miles	Secured Storage	04/21/15 23:29	Return to Storage
JB92906-4.5	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92906-4.5	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92906-4.5	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92906-4.5	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92906-4.5	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92906-4.5	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92906-4.5	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92906-4.5	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92906-4.5	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92906-4.5	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92906-4.5	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92906-4.5	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92906-4.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB92906-4.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB92906-4.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB92906-4.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB92906-4.6	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92906-4.6	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB92906
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92906-4.6	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92906-4.6	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92906-4.9	Secured Storage	Bernadette Vassilatos	04/29/15 13:14	Retrieve from Storage
JB92906-4.9	Bernadette Vassilatos		04/29/15 13:15	Subcontract
JB92906-4F.2	Secured Storage	Gage Donahue	04/25/15 08:00	Retrieve from Storage
JB92906-4F.2	Gage Donahue	Secured Staging Area	04/25/15 08:00	Return to Storage
JB92906-4F.2	Secured Staging Area	Masooda Sultani	04/25/15 08:54	Retrieve from Storage
JB92906-4F.2	Masooda Sultani	Secured Storage	04/25/15 14:13	Return to Storage
JB92906-4F.2.1	Masooda Sultani	Metals Digestion	04/25/15 13:25	Digestate from JB92906-4F.2
JB92906-4F.2.1	Metals Digestion	Michael Obasidey	04/25/15 13:25	Digestate from JB92906-4F.2
JB92906-4F.2.1	Michael Obasidey	Metals Digestate Storage	04/25/15 13:25	Return to Storage
JB92906-4F.2.1	Metals Digestate Storage	Bryan Stokes-Cawley	04/27/15 15:07	Retrieve from Storage
JB92906-4F.2.1	Bryan Stokes-Cawley	Metals Digestate Storage	04/27/15 15:08	Return to Storage

New Jersey
ACCUTEST LABORATORIES

05/08/15

Technical Report for

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Accutest Job Number: JB92926

Sampling Date: 04/21/15

Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Tim.Roeper@Cornerstoneeg.com; jtomalia@cadenaco.com

ATTN: Tim Roeper

Total number of pages in report: **599**

NELAP ACCREDITED TNI LABORATORY

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: Marie Meidhof 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, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92926

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB92926-1	04/21/15	17:35	DW	04/21/15	AQ	Ground Water	OB-11R-042115
JB92926-1F	04/21/15	17:35	DW	04/21/15	AQ	Groundwater Filtered	OB-11R-042115
JB92926-2	04/21/15	19:20	DW	04/21/15	AQ	Trip Blank Water	TB-02-042115
JB92926-3	04/21/15	19:20	DW	04/21/15	AQ	Ground Water	RW-6A-042115
JB92926-3F	04/21/15	19:20	DW	04/21/15	AQ	Groundwater Filtered	RW-6A-042115

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Cornerstone Environmental Group, LLC	**Job No**	JB92926
Site:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ	**Report Date**	5/8/2015 3:30:11 PM

On 04/21/2015, 2 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.9 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB92926 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.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V4V693

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93164-3MS, JB93164-3MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** V4V694

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93083-1MS, JB93083-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Hexanone, Benzene, Bromodichloromethane, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Cyclohexane, Ethylbenzene, Isopropylbenzene, Methylene chloride, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total) are outside control limits for sample JB93083-1MSD. Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP85979

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92926-1MS, JB92926-1MSD, JB92926-1SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP88830

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93213-2MS, JB93213-2DUP were used as the QC samples for Chloride, Sulfate.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ	**Batch ID:** GP88674

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92925-12DUP, JB92925-12MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Wet Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ	**Batch ID:** R143478

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92926-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	**Batch ID:** R143479

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB92926-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM2320 B-11

Matrix: AQ	**Batch ID:** GN24558

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93577-1DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM2540 C-11

Matrix: AQ	**Batch ID:** GN24171

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92926-3DUP were used as the QC samples for Solids, Total Dissolved.

Wet Chemistry By Method SM4500CO2 D-11

Matrix: AQ	**Batch ID:** GN24568

- The data for SM4500CO2 D-11 meets quality control requirements.

Wet Chemistry By Method SM4500NO2 B-11

Matrix: AQ	**Batch ID:** GN23817

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92823-5DUP, JB92823-5MS were used as the QC samples for Nitrogen, Nitrite.

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: JB92926
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/21/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB92926-1	**OB-11R-042115**					
Acetone		11.2	10	3.3	ug/l	SW846 8260C
Benzene		2.9	0.50	0.24	ug/l	SW846 8260C
Chloroethane		21.2	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		2.2 J	5.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		0.81 J	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		0.44 J	5.0	0.22	ug/l	SW846 8260C
Total TIC, Volatile		37.1 J			ug/l	
Calcium		56300	5000		ug/l	SW846 6010C
Iron		70000	100		ug/l	SW846 6010C
Magnesium		7150	5000		ug/l	SW846 6010C
Alkalinity, Bicarbonate		205	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		205	13		mg/l	SM2320 B-11
Chloride		2.1	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		116	40		mg/l	SM2540 C-11
JB92926-1F	**OB-11R-042115**					
Calcium		55400	5000		ug/l	SW846 6010C
Iron		68800	100		ug/l	SW846 6010C
Magnesium		7100	5000		ug/l	SW846 6010C
JB92926-2	**TB-02-042115**					
No hits reported in this sample.						
JB92926-3	**RW-6A-042115**					
Benzene		8.7	0.50	0.24	ug/l	SW846 8260C
Chloroethane		2.3	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		4.2 J	5.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		8.5	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		1.5 J	5.0	0.22	ug/l	SW846 8260C
Xylene (total)		37.5	1.0	0.17	ug/l	SW846 8260C
Total TIC, Volatile		79.5 J			ug/l	
Calcium		80700	5000		ug/l	SW846 6010C
Iron		24000	100		ug/l	SW846 6010C
Magnesium		18600	5000		ug/l	SW846 6010C
Alkalinity, Bicarbonate		332	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		332	13		mg/l	SM2320 B-11
Chloride		2.8	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		413	10		mg/l	SM2540 C-11

Summary of Hits

Job Number: JB92926
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB92926-3F	**RW-6A-042115**					
Calcium		80700	5000		ug/l	SW846 6010C
Iron		23800	100		ug/l	SW846 6010C
Magnesium		18700	5000		ug/l	SW846 6010C

New Jersey

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OB-11R-042115		
Lab Sample ID:	JB92926-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	4V17017.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.2	10	3.3	ug/l	
71-43-2	Benzene	2.9	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	21.2	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	2.2	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	0.81	1.0	0.23	ug/l	J

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:	OB-11R-042115		
Lab Sample ID:	JB92926-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.44	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	106%		73-122%
2037-26-5	Toluene-D8	114%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alcohols	6.85	26	ug/l	J
	1H-Indene-dihydro-methyl- isomer	17.89	6	ug/l	J
	1H-indene-dihydro-dimethyl- isomer	18.30	5.1	ug/l	J
	Total TIC, Volatile		37.1	ug/l	J
	Total Alkanes		0	ug/l	

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:	OB-11R-042115		
Lab Sample ID:	JB92926-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	56300	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	70000	100	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	7150	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36503
(2) Prep QC Batch: MP85979

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-11R-042115		
Lab Sample ID:	JB92926-1	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	205	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	205	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride	2.1	2.0	mg/l	1	05/07/15 05:29	HC	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	04/30/15 17:41	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/30/15 17:41	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 22:22	JM	SM4500NO2 B-11
Solids, Total Dissolved	116	40	mg/l	1	04/26/15	KP	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/07/15 05:29	HC	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OB-11R-042115		
Lab Sample ID:	JB92926-1F	**Date Sampled:**	04/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	55400	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	68800	100	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	7100	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36503
(2) Prep QC Batch: MP85979

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-02-042115		
Lab Sample ID:	JB92926-2	**Date Sampled:**	04/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	4V16996.D	1	04/24/15	JM	n/a	n/a	V4V693
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	TB-02-042115		
Lab Sample ID:	JB92926-2	**Date Sampled:**	04/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	104%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW-6A-042115		
Lab Sample ID:	JB92926-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**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	4V17018.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	8.7	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	2.3	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.2	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	8.5	1.0	0.23	ug/l	

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:	RW-6A-042115		
Lab Sample ID:	JB92926-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	1.5	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	37.5	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	105%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
96-37-7	Cyclopentane, methyl-	9.08	6.9	ug/l	JN
496-11-7	Indane	16.66	14	ug/l	JN
	C4 alkyl benzene	17.01	9.8	ug/l	J
	C4 alkyl benzene	17.39	9.7	ug/l	J
	C4 alkyl benzene	17.44	7	ug/l	J
	1H-Indene-dihydro-methyl- isomer	17.73	5.2	ug/l	J
	C4 alkyl benzene	17.85	8.2	ug/l	J
	1H-Indene-dihydro-methyl- isomer	17.89	8.7	ug/l	J
91-20-3	Naphthalene	18.53	10	ug/l	JN
	Total TIC, Volatile		79.5	ug/l	J
	Total Alkanes		0	ug/l	

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:	RW-6A-042115		
Lab Sample ID:	JB92926-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	80700	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	24000	100	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	18600	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36503
(2) Prep QC Batch: MP85979

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-6A-042115		
Lab Sample ID:	JB92926-3	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	332	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	332	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride	2.8	2.0	mg/l	1	05/07/15 05:53	HC	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	04/30/15 17:42	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	04/30/15 17:42	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/21/15 22:22	JM	SM4500NO2 B-11
Solids, Total Dissolved	413	10	mg/l	1	04/26/15	KP	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/07/15 05:53	HC	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-6A-042115		
Lab Sample ID:	JB92926-3F	**Date Sampled:**	04/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/21/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	80700	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	23800	100	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	18700	5000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/23/15	04/24/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36503
(2) Prep QC Batch: MP85979

RL = Reporting Limit

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

E

ACCUTEST LABORATORIES

GW
WTB

CHAIN OF CUSTODY

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

PAGE ___ OF ___

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB92926

Client / Reporting Information

Company Name: Cornerstone Environmental Group
Street Address: 100 Crystal Run Rd, Suite 101
City / State / Zip: Middletown NY 10941
Project Contact / E-mail: Tim Roeper tim.roeper@cornerstoneegroup
Phone #: 845-695-0252 Fax #:
Sampler(s) Name(s) / Phone #: Rob Lautenberg and Dan Wheeler

Project Information

Project Name: E203361 (Ford Ringwood)
Street: Peters Mine Road
City / State: Ringwood NJ
Project #:
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)

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	TCL VOCs + 15 TICs	TDS	SO4	Chloride	HCO3	Nitrate	Mg, Na, Ca, Fe	Dissolved Mg, Na, Ca, Fe				LAB USE ONLY
1F	OB-11R-042115		4/21/15	17:35	DW	GW		3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				A14
2	TB-02-042115		4/21/15	—	—	TB		3								✓											G45
3F	RW-6A-042115		4/21/15	19:20		GW		3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				U814

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

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:
INITIAL ASESSMENT JK 3B
LABEL VERIFICATION JK

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 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 [signature]	4/21/15 21:35	2 [signature]	2		2
3		3	4		4
5		5	Custody Seal # 767 ☑ Intact ☐ Not intact	Preserved where applicable ☑ JK	On Ice ☑ Cooler Temp. 5.7°C

5.1
5

JB92926: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB92926 **Client:** _____ **Project:** _____

Date / Time Received: 4/21/2015 9:35:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (5.7/3.9); 0

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:	1		

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

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB92926: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB92926

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB92926-1	Collected: 21-APR-15 17:35 By: DW		Received: 21-APR-15 By: AS			
OB-11R-042115						
JB92926-1	SM4500NO2 B-11	21-APR-15 22:22	JM			NO2
JB92926-1	SW846 6010C	24-APR-15 04:35	ND	23-APR-15	DP	CA,FE,MG,NA
JB92926-1	SW846 8260C	25-APR-15 14:29	JM			V8260TCL42+
JB92926-1	SM2540 C-11	26-APR-15	KP			TDS
JB92926-1	EPA353.2/SM4500NO2B	30-APR-15 17:41	BS			NO3O
JB92926-1	EPA 353.2/LACHAT	30-APR-15 17:41	BS	30-APR-15	BS	NO32
JB92926-1	SM2320 B-11	01-MAY-15	CB			ALK
JB92926-1	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB92926-1	EPA 300/SW846 9056A	07-MAY-15 05:29	HC	06-MAY-15	HC	CHL,SO4
JB92926-2	Collected: 21-APR-15 19:20 By: DW		Received: 21-APR-15 By: AS			
TB-02-042115						
JB92926-2	SW846 8260C	24-APR-15 14:43	JM			V8260TCL42+
JB92926-3	Collected: 21-APR-15 19:20 By: DW		Received: 21-APR-15 By: AS			
RW-6A-042115						
JB92926-3	SM4500NO2 B-11	21-APR-15 22:22	JM			NO2
JB92926-3	SW846 6010C	24-APR-15 06:25	ND	23-APR-15	DP	CA,FE,MG,NA
JB92926-3	SW846 8260C	25-APR-15 14:55	JM			V8260TCL42+
JB92926-3	SM2540 C-11	26-APR-15	KP			TDS
JB92926-3	EPA353.2/SM4500NO2B	30-APR-15 17:42	BS			NO3O
JB92926-3	EPA 353.2/LACHAT	30-APR-15 17:42	BS	30-APR-15	BS	NO32
JB92926-3	SM2320 B-11	01-MAY-15	CB			ALK
JB92926-3	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB92926-3	EPA 300/SW846 9056A	07-MAY-15 05:53	HC	06-MAY-15	HC	CHL,SO4
JB92926-1F	Collected: 21-APR-15 17:35 By: DW		Received: 21-APR-15 By: AS			
OB-11R-042115						
JB92926-1F	SW846 6010C	24-APR-15 06:31	ND	23-APR-15	DP	CA,FE,MG,NA
JB92926-3F	Collected: 21-APR-15 19:20 By: DW		Received: 21-APR-15 By: AS			
RW-6A-042115						
JB92926-3F	SW846 6010C	24-APR-15 06:37	ND	23-APR-15	DP	CA,FE,MG,NA

Accutest Internal Chain of Custody

Job Number: JB92926
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92926-1.1	Secured Storage	Bernadette Vassilatos	04/23/15 06:09	Retrieve from Storage
JB92926-1.1	Bernadette Vassilatos	Secured Staging Area	04/23/15 06:09	Return to Storage
JB92926-1.1	Secured Staging Area	Francis Pandolfo	04/23/15 08:06	Retrieve from Storage
JB92926-1.1	Francis Pandolfo	Darshananben Patel	04/23/15 10:12	Custody Transfer
JB92926-1.1	Darshananben Patel	Secured Storage	04/23/15 11:28	Return to Storage
JB92926-1.1.1	Darshananben Patel	Metals Digestion	04/23/15 11:23	Digestate from JB92926-1.1
JB92926-1.1.1	Metals Digestion	Darshananben Patel	04/23/15 11:23	Digestate from JB92926-1.1
JB92926-1.1.1	Darshananben Patel	Metals Digestate Storage	04/23/15 11:23	Return to Storage
JB92926-1.1.1	Metals Digestate Storage	Piyush Patel	04/23/15 18:50	Retrieve from Storage
JB92926-1.1.1	Piyush Patel	Metals Digestate Storage	04/23/15 19:42	Return to Storage
JB92926-1.3	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92926-1.3	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92926-1.3	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92926-1.3	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB92926-1.3	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB92926-1.3	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB92926-1.3	Secured Storage	Gage Donahue	04/25/15 16:49	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB92926-1.3	Gage Donahue	Secured Staging Area	04/25/15 16:49	Return to Storage
JB92926-1.3	Secured Staging Area	Krimesh Patel	04/26/15 12:13	Retrieve from Storage
JB92926-1.3	Krimesh Patel	Secured Storage	04/26/15 15:31	Return to Storage
JB92926-1.3	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92926-1.3	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92926-1.3	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92926-1.3	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92926-1.3	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92926-1.3	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92926-1.3	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92926-1.3	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92926-1.3	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92926-1.3	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92926-1.3	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92926-1.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92926-1.3	Secured Storage	Todd Shoemaker	05/05/15 09:32	Retrieve from Storage
JB92926-1.3	Todd Shoemaker	Hannah Coffin	05/05/15 09:33	Custody Transfer
JB92926-1.3	Hannah Coffin	Secured Storage	05/05/15 16:03	Return to Storage
JB92926-1.3	Secured Storage	Bernadette Vassilatos	05/06/15 08:10	Retrieve from Storage
JB92926-1.3	Bernadette Vassilatos	Secured Staging Area	05/06/15 08:10	Return to Storage
JB92926-1.3	Secured Staging Area	Hannah Coffin	05/06/15 08:40	Retrieve from Storage
JB92926-1.3	Hannah Coffin	Secured Storage	05/06/15 15:44	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB92926
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92926-1.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB92926-1.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB92926-1.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB92926-1.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB92926-1.6	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92926-1.6	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92926-1.6	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92926-1.6	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92926-1.7	Secured Storage	Jemima Merilan	04/25/15 13:14	Retrieve from Storage
JB92926-1.7	Jemima Merilan	GCMS4V	04/25/15 13:14	Load on Instrument
JB92926-1.7	GCMS4V	Jemima Merilan	04/28/15 09:21	Unload from Instrument
JB92926-1.7	Jemima Merilan	Secured Storage	04/28/15 09:21	Return to Storage
JB92926-1F.2	Secured Storage	Bernadette Vassilatos	04/23/15 06:09	Retrieve from Storage
JB92926-1F.2	Bernadette Vassilatos	Secured Staging Area	04/23/15 06:09	Return to Storage
JB92926-1F.2	Secured Staging Area	Francis Pandolfo	04/23/15 08:06	Retrieve from Storage
JB92926-1F.2	Francis Pandolfo	Darshananben Patel	04/23/15 10:12	Custody Transfer
JB92926-1F.2	Darshananben Patel	Secured Storage	04/23/15 11:28	Return to Storage
JB92926-1F.2.1	Darshananben Patel	Metals Digestion	04/23/15 11:23	Digestate from JB92926-1F.2
JB92926-1F.2.1	Metals Digestion	Darshananben Patel	04/23/15 11:23	Digestate from JB92926-1F.2
JB92926-1F.2.1	Darshananben Patel	Metals Digestate Storage	04/23/15 11:23	Return to Storage
JB92926-1F.2.1	Metals Digestate Storage	Piyush Patel	04/23/15 18:50	Retrieve from Storage
JB92926-1F.2.1	Piyush Patel	Metals Digestate Storage	04/23/15 19:42	Return to Storage
JB92926-2.1	Secured Storage	Jemima Merilan	04/24/15 14:32	Retrieve from Storage
JB92926-2.1	Jemima Merilan	GCMS4V	04/24/15 14:32	Load on Instrument
JB92926-2.1	GCMS4V	Jemima Merilan	04/25/15 11:53	Unload from Instrument
JB92926-2.1	Jemima Merilan	Secured Storage	04/25/15 11:53	Return to Storage
JB92926-2.2	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92926-2.2	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92926-2.2	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92926-2.2	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92926-3.1	Secured Storage	Bernadette Vassilatos	04/23/15 06:09	Retrieve from Storage
JB92926-3.1	Bernadette Vassilatos	Secured Staging Area	04/23/15 06:09	Return to Storage
JB92926-3.1	Secured Staging Area	Francis Pandolfo	04/23/15 08:06	Retrieve from Storage
JB92926-3.1	Francis Pandolfo	Darshananben Patel	04/23/15 10:12	Custody Transfer
JB92926-3.1	Darshananben Patel	Secured Storage	04/23/15 11:28	Return to Storage
JB92926-3.1.1	Darshananben Patel	Metals Digestion	04/23/15 11:23	Digestate from JB92926-3.1

Accutest Internal Chain of Custody

Job Number: JB92926
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92926-3.1.1	Metals Digestion	Darshananben Patel	04/23/15 11:23	Digestate from JB92926-3.1
JB92926-3.1.1	Darshananben Patel	Metals Digestate Storage	04/23/15 11:23	Return to Storage
JB92926-3.1.1	Metals Digestate Storage	Piyush Patel	04/23/15 18:50	Retrieve from Storage
JB92926-3.1.1	Piyush Patel	Metals Digestate Storage	04/23/15 19:42	Return to Storage
JB92926-3.3	Secured Storage	Todd Shoemaker	04/24/15 09:11	Retrieve from Storage
JB92926-3.3	Todd Shoemaker	Krimesh Patel	04/24/15 09:14	Custody Transfer
JB92926-3.3	Krimesh Patel	Secured Storage	04/24/15 16:50	Return to Storage
JB92926-3.3	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB92926-3.3	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB92926-3.3	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB92926-3.3	Secured Storage	Gage Donahue	04/25/15 16:49	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB92926-3.3	Gage Donahue	Secured Staging Area	04/25/15 16:49	Return to Storage
JB92926-3.3	Secured Staging Area	Krimesh Patel	04/26/15 12:13	Retrieve from Storage
JB92926-3.3	Krimesh Patel	Secured Storage	04/26/15 15:31	Return to Storage
JB92926-3.3	Secured Storage	Alfredo Crespo	04/29/15 07:56	Retrieve from Storage
JB92926-3.3	Alfredo Crespo	Secured Staging Area	04/29/15 07:56	Return to Storage
JB92926-3.3	Secured Staging Area	Chris Brunson	04/29/15 08:49	Retrieve from Storage
JB92926-3.3	Shirley Grzybowski	Secured Storage	04/29/15 15:04	Return to Storage
Analyst unavailable for custody transfer.				
JB92926-3.3	Secured Storage	Alfredo Crespo	04/30/15 07:20	Retrieve from Storage
JB92926-3.3	Alfredo Crespo	Secured Staging Area	04/30/15 07:20	Return to Storage
JB92926-3.3	Secured Staging Area	Alfredo Crespo	04/30/15 09:06	Retrieve from Storage
JB92926-3.3	Alfredo Crespo	Secured Storage	04/30/15 09:06	Return to Storage
JB92926-3.3	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB92926-3.3	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB92926-3.3	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB92926-3.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB92926-3.3	Secured Storage	Todd Shoemaker	05/05/15 09:32	Retrieve from Storage
JB92926-3.3	Todd Shoemaker	Hannah Coffin	05/05/15 09:33	Custody Transfer
JB92926-3.3	Hannah Coffin	Secured Storage	05/05/15 16:03	Return to Storage
JB92926-3.3	Secured Storage	Bernadette Vassilatos	05/06/15 08:10	Retrieve from Storage
JB92926-3.3	Bernadette Vassilatos	Secured Staging Area	05/06/15 08:10	Return to Storage
JB92926-3.3	Secured Staging Area	Hannah Coffin	05/06/15 08:40	Retrieve from Storage
JB92926-3.3	Hannah Coffin	Secured Storage	05/06/15 15:44	Return to Storage
JB92926-3.4	Secured Storage	Luis Villanueva	04/30/15 14:12	Retrieve from Storage
JB92926-3.4	Luis Villanueva	Secured Staging Area	04/30/15 14:12	Return to Storage
JB92926-3.4	Secured Staging Area	Brian Schneller	04/30/15 14:19	Retrieve from Storage
JB92926-3.4	Brian Schneller	Secured Storage	04/30/15 18:42	Return to Storage
JB92926-3.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB92926-3.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB92926
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB92926-3.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB92926-3.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB92926-3.6	Secured Storage	Jemima Merilan	04/25/15 13:14	Retrieve from Storage
JB92926-3.6	Jemima Merilan	GCMS4V	04/25/15 13:14	Load on Instrument
JB92926-3.6	GCMS4V	Jemima Merilan	04/28/15 09:21	Unload from Instrument
JB92926-3.6	Jemima Merilan	Secured Storage	04/28/15 09:21	Return to Storage
JB92926-3.7	Secured Storage	Zobia Hamid	04/23/15 15:26	Retrieve from Storage
JB92926-3.7	Zobia Hamid	GCMS3A	04/23/15 15:26	Load on Instrument
JB92926-3.7	GCMS3A	Zobia Hamid	04/24/15 10:07	Unload from Instrument
JB92926-3.7	Zobia Hamid	Secured Storage	04/24/15 10:07	Return to Storage
JB92926-3F.2	Secured Storage	Bernadette Vassilatos	04/23/15 06:09	Retrieve from Storage
JB92926-3F.2	Bernadette Vassilatos	Secured Staging Area	04/23/15 06:09	Return to Storage
JB92926-3F.2	Secured Staging Area	Francis Pandolfo	04/23/15 08:06	Retrieve from Storage
JB92926-3F.2	Francis Pandolfo	Darshananben Patel	04/23/15 10:12	Custody Transfer
JB92926-3F.2	Darshananben Patel	Secured Storage	04/23/15 11:28	Return to Storage
JB92926-3F.2.1	Darshananben Patel	Metals Digestion	04/23/15 11:23	Digestate from JB92926-3F.2
JB92926-3F.2.1	Metals Digestion	Darshananben Patel	04/23/15 11:23	Digestate from JB92926-3F.2
JB92926-3F.2.1	Darshananben Patel	Metals Digestate Storage	04/23/15 11:23	Return to Storage
JB92926-3F.2.1	Metals Digestate Storage	Piyush Patel	04/23/15 18:50	Retrieve from Storage
JB92926-3F.2.1	Piyush Patel	Metals Digestate Storage	04/23/15 19:42	Return to Storage

New Jersey
ACCUTEST LABORATORIES

05/08/15

Technical Report for

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Accutest Job Number: JB93030

Sampling Date: 04/22/15

Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Tim.Roeper@Cornerstoneeg.com; jtomalia@cadenaco.com

ATTN: Tim Roeper

Total number of pages in report: **498**

NELAP ACCREDITED TNI LABORATORY

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 T. Cole
Nancy Cole
Laboratory Director

Client Service contact: Marie Meidhof 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, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories

Sample Summary

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB93030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93030-1	04/22/15	16:30	DW	04/22/15	AQ	Trip Blank Water	TB-042215
JB93030-2	04/22/15	10:10	DW	04/22/15	AQ	Ground Water	SC-1-042215
JB93030-2F	04/22/15	10:10	DW	04/22/15	AQ	Groundwater Filtered	SC-1-042215
JB93030-3	04/22/15	12:00	DW	04/22/15	AQ	Ground Water	DUP-042215
JB93030-3F	04/22/15	12:00	DW	04/22/15	AQ	Groundwater Filtered	DUP-042215
JB93030-4	04/22/15	10:30	RL	04/22/15	AQ	Surface Water	PMP-POND-042215
JB93030-5	04/22/15	12:50	DW	04/22/15	AQ	Ground Water	RW-6-042215
JB93030-5F	04/22/15	12:50	DW	04/22/15	AQ	Groundwater Filtered	RW-6-042215
JB93030-6	04/22/15	15:00	RL	04/22/15	AQ	Surface Water	SW-PAB-01A-042215
JB93030-7	04/22/15	15:25	RL	04/22/15	AQ	Surface Water	SR-3-SEEP-1-042215
JB93030-8	04/22/15	15:40	RL	04/22/15	AQ	Surface Water	SW-PAB-01-042215
JB93030-9	04/22/15	15:40	DW	04/22/15	AQ	Ground Water	PMP-50-042215
JB93030-9F	04/22/15	15:40	DW	04/22/15	AQ	Groundwater Filtered	PMP-50-042215

Accutest Laboratories

Sample Summary
(continued)

Cornerstone Environmental Group, LLC

Job No: JB93030

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93030-10	04/22/15	16:30	RL	04/22/15	AQ	Surface Water	SW-PAB-00-042215

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Cornerstone Environmental Group, LLC	**Job No**	JB93030
Site:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ	**Report Date**	5/8/2015 4:04:50 PM

On 04/22/2015, 9 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB93030 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.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V2B5830

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB93030-2MS, JB93030-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for Chloromethane are outside in house control limits for sample JB93030-2MSD.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP86070

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92931-15AMS, JB92931-15AMSD, JB92931-15ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Iron are outside control limits for sample MP86070-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP88848

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92983-4DUP, JB93030-9MS were used as the QC samples for Chloride, Sulfate, Chloride.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ **Batch ID:** GP88706

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92931-11AADUP, JB92931-11AAMS were used as the QC samples for Nitrogen, Nitrate + Nitrite.
- Matrix Spike Recovery(s) for Nitrogen, Nitrate + Nitrite are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ **Batch ID:** R143540

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB93030-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ **Batch ID:** R143541

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB93030-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ **Batch ID:** R143542

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB93030-5 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ **Batch ID:** R143543

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB93030-9 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM2320 B-11

Matrix: AQ **Batch ID:** GN24558

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93577-1DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM2540 C-11

Matrix: AQ **Batch ID:** GN24206

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93030-9DUP were used as the QC samples for Solids, Total Dissolved.

Wet Chemistry By Method SM4500CO2 D-11

Matrix: AQ **Batch ID:** GN24568

- The data for SM4500CO2 D-11 meets quality control requirements.

Wet Chemistry By Method SM4500NO2 B-11

Matrix: AQ **Batch ID:** GN23896

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB92928-5ADUP, JB92928-5AMS were used as the QC samples for Nitrogen, Nitrite.

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: JB93030
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/22/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93030-1	**TB-042215**					
No hits reported in this sample.						
JB93030-2	**SC-1-042215**					
Benzene		1.7	0.50	0.24	ug/l	SW846 8260C
Chlorobenzene		0.30 J	1.0	0.19	ug/l	SW846 8260C
Chloroethane		1.8	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		1.7 J	5.0	0.28	ug/l	SW846 8260C
Ethylbenzene		3.3	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		1.9	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		1.6 J	5.0	0.22	ug/l	SW846 8260C
Toluene		0.48 J	1.0	0.16	ug/l	SW846 8260C
Xylene (total)		75.6	1.0	0.17	ug/l	SW846 8260C
Total TIC, Volatile		31.9 J			ug/l	
Calcium		41000	5000		ug/l	SW846 6010C
Iron		84200	100		ug/l	SW846 6010C
Alkalinity, Bicarbonate		165	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		165	13		mg/l	SM2320 B-11
Chloride		2.0	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		160	25		mg/l	SM2540 C-11
JB93030-2F	**SC-1-042215**					
Calcium		41600	5000		ug/l	SW846 6010C
Iron		85800	100		ug/l	SW846 6010C
JB93030-3	**DUP-042215**					
Benzene		1.8	0.50	0.24	ug/l	SW846 8260C
Chlorobenzene		0.33 J	1.0	0.19	ug/l	SW846 8260C
Chloroethane		1.7	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		1.6 J	5.0	0.28	ug/l	SW846 8260C
Ethylbenzene		3.3	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		1.8	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		1.6 J	5.0	0.22	ug/l	SW846 8260C
Toluene		0.44 J	1.0	0.16	ug/l	SW846 8260C
Xylene (total)		73.5	1.0	0.17	ug/l	SW846 8260C
Total TIC, Volatile		30.4 J			ug/l	
Calcium		41400	5000		ug/l	SW846 6010C
Iron		84400	100		ug/l	SW846 6010C
Alkalinity, Bicarbonate		159	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		159	13		mg/l	SM2320 B-11
Chloride		2.0	2.0		mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: JB93030
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/22/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Solids, Total Dissolved		103	25		mg/l	SM2540 C-11
JB93030-3F	**DUP-042215**					
Calcium		42400	5000		ug/l	SW846 6010C
Iron		87000	100		ug/l	SW846 6010C
JB93030-4	**PMP-POND-042215**					
No hits reported in this sample.						
JB93030-5	**RW-6-042215**					
Benzene		2.2	0.50	0.24	ug/l	SW846 8260C
Chloroethane		1.7	1.0	0.34	ug/l	SW846 8260C
1,1-Dichloroethane		0.50 J	1.0	0.17	ug/l	SW846 8260C
Calcium		73100	5000		ug/l	SW846 6010C
Iron		40400	100		ug/l	SW846 6010C
Magnesium		12400	5000		ug/l	SW846 6010C
Alkalinity, Bicarbonate		253	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		254	13		mg/l	SM2320 B-11
Chloride		11.2	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		285	25		mg/l	SM2540 C-11
JB93030-5F	**RW-6-042215**					
Calcium		70900	5000		ug/l	SW846 6010C
Iron		33200	100		ug/l	SW846 6010C
Magnesium		12000	5000		ug/l	SW846 6010C
JB93030-6	**SW-PAB-01A-042215**					
No hits reported in this sample.						
JB93030-7	**SR-3-SEEP-1-042215**					
No hits reported in this sample.						
JB93030-8	**SW-PAB-01-042215**					
No hits reported in this sample.						
JB93030-9	**PMP-50-042215**					
Iron		253	100		ug/l	SW846 6010C

Summary of Hits

Job Number: JB93030
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/22/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Alkalinity, Bicarbonate		33.1	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		33.1	13		mg/l	SM2320 B-11
JB93030-9F	**PMP-50-042215**					
Iron		496	100		ug/l	SW846 6010C
JB93030-10	**SW-PAB-00-042215**					

No hits reported in this sample.

New Jersey

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-042215		
Lab Sample ID:	JB93030-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130453.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-042215		
Lab Sample ID:	JB93030-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SC-1-042215		
Lab Sample ID:	JB93030-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130446.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	1.7	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.30	1.0	0.19	ug/l	J
75-00-3	Chloroethane	1.8	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	1.7	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	3.3	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	1.9	1.0	0.23	ug/l	

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:	SC-1-042215		
Lab Sample ID:	JB93030-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	1.6	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	0.48	1.0	0.16	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	75.6	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	16.49	6.5	ug/l	J
496-11-7	Indane	17.13	5.3	ug/l	JN
	C4 alkyl benzene	17.50	6.3	ug/l	J
	C4 alkyl benzene	17.90	5.3	ug/l	J
	C4 alkyl benzene	17.95	8.5	ug/l	J
	Total TIC, Volatile		31.9	ug/l	J
	Total Alkanes		0	ug/l	

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:	SC-1-042215		
Lab Sample ID:	JB93030-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	41000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	84200	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SC-1-042215		
Lab Sample ID:	JB93030-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	165	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	165	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride	2.0	2.0	mg/l	1	05/07/15 22:18	HC	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	05/01/15 15:08	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/01/15 15:08	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/22/15 21:56	JM	SM4500NO2 B-11
Solids, Total Dissolved	160	25	mg/l	1	04/27/15	BM	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/07/15 22:18	HC	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SC-1-042215		
Lab Sample ID:	JB93030-2F	**Date Sampled:**	04/22/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	41600	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	85800	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-042215		
Lab Sample ID:	JB93030-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130447.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	1.8	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.33	1.0	0.19	ug/l	J
75-00-3	Chloroethane	1.7	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	1.6	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	3.3	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	1.8	1.0	0.23	ug/l	

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-042215		
Lab Sample ID:	JB93030-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	1.6	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	0.44	1.0	0.16	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	73.5	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	16.49	6.1	ug/l	J
496-11-7	Indane	17.13	5.2	ug/l	JN
	C4 alkyl benzene	17.50	6	ug/l	J
	C4 alkyl benzene	17.90	5	ug/l	J
	C4 alkyl benzene	17.95	8.1	ug/l	J
	Total TIC, Volatile		30.4	ug/l	J
	Total Alkanes		0	ug/l	

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-042215		
Lab Sample ID:	JB93030-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	41400	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	84400	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-042215		
Lab Sample ID:	JB93030-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	159	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	159	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride	2.0	2.0	mg/l	1	05/07/15 22:42	HC	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	05/01/15 15:09	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/01/15 15:09	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/22/15 21:56	JM	SM4500NO2 B-11
Solids, Total Dissolved	103	25	mg/l	1	04/27/15	BM	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/07/15 22:42	HC	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-042215		
Lab Sample ID:	JB93030-3F	**Date Sampled:**	04/22/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	42400	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	87000	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	PMP-POND-042215		
Lab Sample ID:	JB93030-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130448.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PMP-POND-042215		
Lab Sample ID:	JB93030-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW-6-042215		
Lab Sample ID:	JB93030-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130449.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	2.2	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	1.7	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	0.50	1.0	0.17	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	RW-6-042215		
Lab Sample ID:	JB93030-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-6-042215		
Lab Sample ID:	JB93030-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	73100	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	40400	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	12400	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-6-042215		
Lab Sample ID:	JB93030-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	253	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	254	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride	11.2	2.0	mg/l	1	05/07/15 23:06	HC	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	05/01/15 15:10	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/01/15 15:10	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/22/15 21:56	JM	SM4500NO2 B-11
Solids, Total Dissolved	285	25	mg/l	1	04/27/15	BM	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/07/15 23:06	HC	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-6-042215		
Lab Sample ID:	JB93030-5F	**Date Sampled:**	04/22/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	70900	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	33200	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	12000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	SW-PAB-01A-042215		
Lab Sample ID:	JB93030-6	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130454.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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-01A-042215		
Lab Sample ID:	JB93030-6	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SR-3-SEEP-1-042215		
Lab Sample ID:	JB93030-7	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130455.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	SR-3-SEEP-1-042215		
Lab Sample ID:	JB93030-7	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-PAB-01-042215		
Lab Sample ID:	JB93030-8	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130456.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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-01-042215		
Lab Sample ID:	JB93030-8	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PMP-50-042215		
Lab Sample ID:	JB93030-9	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130457.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	PMP-50-042215		
Lab Sample ID:	JB93030-9	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PMP-50-042215		
Lab Sample ID:	JB93030-9	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	253	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PMP-50-042215		
Lab Sample ID:	JB93030-9	**Date Sampled:**	04/22/15
Matrix:	AQ - Ground Water	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	33.1	5.0	mg/l	1	05/01/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	33.1	13	mg/l	1	05/01/15	CB	SM2320 B-11
Chloride	< 2.0	2.0	mg/l	1	05/08/15 00:41	HC	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	05/01/15 15:11	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/01/15 15:11	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/22/15 21:56	JM	SM4500NO2 B-11
Solids, Total Dissolved	< 10	10	mg/l	1	04/27/15	BM	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/08/15 00:41	HC	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PMP-50-042215		
Lab Sample ID:	JB93030-9F	**Date Sampled:**	04/22/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/22/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	496	100	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/28/15	04/28/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36535
(2) Prep QC Batch: MP86070

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-PAB-00-042215		
Lab Sample ID:	JB93030-10	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**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	2B130458.D	1	04/25/15	BK	n/a	n/a	V2B5830
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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-00-042215		
Lab Sample ID:	JB93030-10	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/22/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

GW
SW
WTB

CHAIN OF CUSTODY

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

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E

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB93030

Client / Reporting Information

Company Name: Cornerstone Environmental Group
Street Address: 100 Crystal Run Rd, Suite 101
City / State / Zip: Middletown NY 10941
Project Contact / E-mail: Tim Roeper timroeper@cornerstoneeg.com
Phone #: 845-695-0252 Fax #:
Sampler(s) Name(s) / Phone #: Rob Lautenberg and Dan Wheeler

Project Information

Project Name: E203361 (Ford Ringwood)
Street: Peters Mine Road
City / State: Ringwood NJ
Project #:
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)

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	TCL VOCs + 15 TICs	TDS	SO4	Chloride	HCO3	Nitrate	Mg, Na, Ca, Fe	Dissolved Mg, Na, Ca, Fe				LAB USE ONLY
1	TB-042215		4/22/15	-	-	TB	2	2								✓											A14
2F	SC-1-042215		4/22/15	10:10	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				B7
3F	Dup-042215		4/22/15	12:00	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				V825
4	PMP-Pond-042215		4/22/15	10:30	RL	SW	3	3		X						✓											
5F	RW-6-042215		4/22/15	12:50	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				
6	SWPAB-01A-042215		4/22/15	15:00	RL	SW	3	3								✓											
7	SR-3-SEEP-1-042215		4/22/15	15:25	RL	SW	3	3								✓											
8	SW-PAB-01-042215		4/22/15	15:40	RL	SW	3	3								✓											
9F	PMP-50-042215		4/22/15	15:40	DW	GW	8	3		2	1	2				✓	✓	✓	✓	✓	✓	✓	✓				
10	SW-PAB-00-042215		4/22/15	16:30	RL	SW	3	3								✓											

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

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other

Approved By (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"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other
- ☐ NJ Data of Known Quality Protocol Reporting

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

Comments / Special Instructions

INITIAL ASESSMENT 4A/[illegible]
LABEL VERIFICATION

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 [signature]	4/22/15 18:15	1 [signature]	2 [signature]	4/22/15	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 20:08	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☑ [illegible] On Ice ☑ Cooler Temp. 4.6 °C

5.1
5

JB93030: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB93030 **Client:** **Project:**

Date / Time Received: 4/22/2015 8:08:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.6/2.8); 0

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

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

Quality Control Preservation	Y	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	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

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

Sample Integrity - Instructions	Y	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

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB93030: Chain of Custody
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Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB93030

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93030-1 TB-042215	Collected: 22-APR-15 16:30 By: DW		Received: 22-APR-15 By: AS			
JB93030-1	SW846 8260C	25-APR-15 16:02	BK			V8260TCL42+
JB93030-2 SC-1-042215	Collected: 22-APR-15 10:10 By: DW		Received: 22-APR-15 By: AS			
JB93030-2	SM4500NO2 B-11	22-APR-15 21:56	JM			NO2
JB93030-2	SW846 8260C	25-APR-15 12:40	BK			V8260TCL42+
JB93030-2	SM2540 C-11	27-APR-15	BM			TDS
JB93030-2	SW846 6010C	28-APR-15 19:13	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-2	SM2320 B-11	01-MAY-15	CB			ALK
JB93030-2	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB93030-2	EPA353.2/SM4500NO2B	01-MAY-15 15:08	BS			NO3O
JB93030-2	EPA 353.2/LACHAT	01-MAY-15 15:08	BS	01-MAY-15	BS	NO32
JB93030-2	EPA 300/SW846 9056A	07-MAY-15 22:18	HC	07-MAY-15	HC	CHL,SO4
JB93030-3 DUP-042215	Collected: 22-APR-15 12:00 By: DW		Received: 22-APR-15 By: AS			
JB93030-3	SM4500NO2 B-11	22-APR-15 21:56	JM			NO2
JB93030-3	SW846 8260C	25-APR-15 13:09	BK			V8260TCL42+
JB93030-3	SM2540 C-11	27-APR-15	BM			TDS
JB93030-3	SW846 6010C	28-APR-15 19:31	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-3	SM2320 B-11	01-MAY-15	CB			ALK
JB93030-3	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB93030-3	EPA353.2/SM4500NO2B	01-MAY-15 15:09	BS			NO3O
JB93030-3	EPA 353.2/LACHAT	01-MAY-15 15:09	BS	01-MAY-15	BS	NO32
JB93030-3	EPA 300/SW846 9056A	07-MAY-15 22:42	HC	07-MAY-15	HC	CHL,SO4
JB93030-4 PMP-POND-042215	Collected: 22-APR-15 10:30 By: RL		Received: 22-APR-15 By: AS			
JB93030-4	SW846 8260C	25-APR-15 13:37	BK			V8260TCL42+
JB93030-5 RW-6-042215	Collected: 22-APR-15 12:50 By: DW		Received: 22-APR-15 By: AS			
JB93030-5	SM4500NO2 B-11	22-APR-15 21:56	JM			NO2

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB93030

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93030-5	SW846 8260C	25-APR-15 14:06	BK			V8260TCL42+
JB93030-5	SM2540 C-11	27-APR-15	BM			TDS
JB93030-5	SW846 6010C	28-APR-15 19:37	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-5	SM2320 B-11	01-MAY-15	CB			ALK
JB93030-5	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB93030-5	EPA353.2/SM4500NO2B	01-MAY-15 15:10	BS			NO3O
JB93030-5	EPA 353.2/LACHAT	01-MAY-15 15:10	BS	01-MAY-15	BS	NO32
JB93030-5	EPA 300/SW846 9056A	07-MAY-15 23:06	HC	07-MAY-15	HC	CHL,SO4
JB93030-6	Collected: 22-APR-15 15:00 By: RL		Received: 22-APR-15 By: AS			
SW-PAB-01A-042215						
JB93030-6	SW846 8260C	25-APR-15 16:31	BK			V8260TCL42+
JB93030-7	Collected: 22-APR-15 15:25 By: RL		Received: 22-APR-15 By: AS			
SR-3-SEEP-1-042215						
JB93030-7	SW846 8260C	25-APR-15 17:01	BK			V8260TCL42+
JB93030-8	Collected: 22-APR-15 15:40 By: RL		Received: 22-APR-15 By: AS			
SW-PAB-01-042215						
JB93030-8	SW846 8260C	25-APR-15 17:30	BK			V8260TCL42+
JB93030-9	Collected: 22-APR-15 15:40 By: DW		Received: 22-APR-15 By: AS			
PMP-50-042215						
JB93030-9	SM4500NO2 B-11	22-APR-15 21:56	JM			NO2
JB93030-9	SW846 8260C	25-APR-15 17:59	BK			V8260TCL42+
JB93030-9	SM2540 C-11	27-APR-15	BM			TDS
JB93030-9	SW846 6010C	28-APR-15 19:43	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-9	SM2320 B-11	01-MAY-15	CB			ALK
JB93030-9	SM4500CO2 D-11	01-MAY-15	CB			BIC
JB93030-9	EPA353.2/SM4500NO2B	01-MAY-15 15:11	BS			NO3O
JB93030-9	EPA 353.2/LACHAT	01-MAY-15 15:11	BS	01-MAY-15	BS	NO32
JB93030-9	EPA 300/SW846 9056A	08-MAY-15 00:41	HC	07-MAY-15	HC	CHL,SO4
JB93030-10	Collected: 22-APR-15 16:30 By: RL		Received: 22-APR-15 By: AS			
SW-PAB-00-042215						

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

Job No: JB93030

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93030-10	SW846 8260C	25-APR-15 18:28	BK			V8260TCL42+
JB93030-2F	Collected: 22-APR-15 10:10 By: DW		Received: 22-APR-15 By: AS			
SC-1-042215						
JB93030-2F	SW846 6010C	28-APR-15 19:49	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-3F	Collected: 22-APR-15 12:00 By: DW		Received: 22-APR-15 By: AS			
DUP-042215						
JB93030-3F	SW846 6010C	28-APR-15 19:55	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-5F	Collected: 22-APR-15 12:50 By: DW		Received: 22-APR-15 By: AS			
RW-6-042215						
JB93030-5F	SW846 6010C	28-APR-15 20:01	ND	28-APR-15	MO	CA,FE,MG,NA
JB93030-9F	Collected: 22-APR-15 15:40 By: DW		Received: 22-APR-15 By: AS			
PMP-50-042215						
JB93030-9F	SW846 6010C	28-APR-15 20:07	ND	28-APR-15	MO	CA,FE,MG,NA

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-1.1	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-1.1	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-1.1	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-1.1	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-2.1	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-2.1	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-2.1	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-2.1	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-2.1	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-2.1	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-2.1.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-2.1
JB93030-2.1.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-2.1
JB93030-2.1.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-2.3	Secured Storage	Gage Donahue	04/25/15 16:49	Retrieve from Storage
JB93030-2.3	Gage Donahue	Secured Staging Area	04/25/15 16:49	Return to Storage
JB93030-2.3	Secured Staging Area	Krimesh Patel	04/26/15 12:13	Retrieve from Storage
JB93030-2.3	Krimesh Patel	Secured Storage	04/26/15 15:31	Return to Storage
JB93030-2.3	Secured Storage	Bernadette Vassilatos	04/27/15 07:47	Retrieve from Storage
JB93030-2.3	Bernadette Vassilatos	Secured Staging Area	04/27/15 07:47	Return to Storage
JB93030-2.3	Secured Staging Area	Beatrice Marcelino	04/27/15 09:00	Retrieve from Storage
JB93030-2.3	Beatrice Marcelino	Secured Storage	04/27/15 16:21	Return to Storage
JB93030-2.3	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB93030-2.3	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB93030-2.3	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB93030-2.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB93030-2.3	Secured Storage	Todd Shoemaker	05/05/15 09:32	Retrieve from Storage
JB93030-2.3	Todd Shoemaker	Hannah Coffin	05/05/15 09:33	Custody Transfer
JB93030-2.3	Hannah Coffin	Secured Storage	05/05/15 16:03	Return to Storage
JB93030-2.3	Secured Storage	Bernadette Vassilatos	05/06/15 08:10	Retrieve from Storage
JB93030-2.3	Bernadette Vassilatos	Secured Staging Area	05/06/15 08:10	Return to Storage
JB93030-2.3	Secured Staging Area	Hannah Coffin	05/06/15 08:40	Retrieve from Storage
JB93030-2.3	Hannah Coffin	Secured Storage	05/06/15 15:44	Return to Storage
JB93030-2.3	Secured Storage	Gage Donahue	05/07/15 06:46	Retrieve from Storage
JB93030-2.3	Gage Donahue	Secured Staging Area	05/07/15 06:46	Return to Storage
JB93030-2.3	Secured Staging Area	Hannah Coffin	05/07/15 08:35	Retrieve from Storage
JB93030-2.3	Hannah Coffin	Secured Storage	05/07/15 15:30	Return to Storage
JB93030-2.4	Secured Storage	Todd Shoemaker	05/01/15 11:49	Retrieve from Storage
JB93030-2.4	Todd Shoemaker	Brian Schneller	05/01/15 11:50	Custody Transfer
JB93030-2.4	Brian Schneller	Secured Storage	05/01/15 20:26	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-2.5	Secured Storage	Dawan Currie	04/22/15 21:41	Retrieve from Storage
JB93030-2.5	Dawan Currie	Secured Staging Area	04/22/15 21:41	Return to Storage
JB93030-2.5	Secured Staging Area	Jeremy Miles	04/22/15 21:45	Retrieve from Storage
JB93030-2.5	Jeremy Miles	Secured Storage	04/22/15 23:23	Return to Storage
JB93030-2.5	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB93030-2.5	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB93030-2.5	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB93030-2.5	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB93030-2.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB93030-2.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB93030-2.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB93030-2.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB93030-2.6	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-2.6	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-2.6	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-2.6	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-2.7	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-2.7	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-2.7	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-2.7	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-2F.2	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-2F.2	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-2F.2	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-2F.2	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-2F.2	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-2F.2	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-2F.2.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-2F.2
JB93030-2F.2.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-2F.2
JB93030-2F.2.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-3.1	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-3.1	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-3.1	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-3.1	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-3.1	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-3.1	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-3.1.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-3.1
JB93030-3.1.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-3.1
JB93030-3.1.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-3.3	Secured Storage	Gage Donahue	04/25/15 16:49	Retrieve from Storage
JB93030-3.3	Gage Donahue	Secured Staging Area	04/25/15 16:49	Return to Storage
JB93030-3.3	Secured Staging Area	Krimesh Patel	04/26/15 12:13	Retrieve from Storage
JB93030-3.3	Krimesh Patel	Secured Storage	04/26/15 15:31	Return to Storage
JB93030-3.3	Secured Storage	Bernadette Vassilatos	04/27/15 07:47	Retrieve from Storage
JB93030-3.3	Bernadette Vassilatos	Secured Staging Area	04/27/15 07:47	Return to Storage
JB93030-3.3	Secured Staging Area	Beatrice Marcelino	04/27/15 09:00	Retrieve from Storage
JB93030-3.3	Beatrice Marcelino	Secured Storage	04/27/15 16:21	Return to Storage
JB93030-3.3	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB93030-3.3	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB93030-3.3	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB93030-3.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB93030-3.3	Secured Storage	Todd Shoemaker	05/05/15 09:32	Retrieve from Storage
JB93030-3.3	Todd Shoemaker	Hannah Coffin	05/05/15 09:33	Custody Transfer
JB93030-3.3	Hannah Coffin	Secured Storage	05/05/15 16:03	Return to Storage
JB93030-3.3	Secured Storage	Bernadette Vassilatos	05/06/15 08:10	Retrieve from Storage
JB93030-3.3	Bernadette Vassilatos	Secured Staging Area	05/06/15 08:10	Return to Storage
JB93030-3.3	Secured Staging Area	Hannah Coffin	05/06/15 08:40	Retrieve from Storage
JB93030-3.3	Hannah Coffin	Secured Storage	05/06/15 15:44	Return to Storage
JB93030-3.3	Secured Storage	Gage Donahue	05/07/15 06:46	Retrieve from Storage
JB93030-3.3	Gage Donahue	Secured Staging Area	05/07/15 06:46	Return to Storage
JB93030-3.3	Secured Staging Area	Hannah Coffin	05/07/15 08:35	Retrieve from Storage
JB93030-3.3	Hannah Coffin	Secured Storage	05/07/15 15:30	Return to Storage
JB93030-3.4	Secured Storage	Todd Shoemaker	05/01/15 11:49	Retrieve from Storage
JB93030-3.4	Todd Shoemaker	Brian Schneller	05/01/15 11:50	Custody Transfer
JB93030-3.4	Brian Schneller	Secured Storage	05/01/15 20:26	Return to Storage
JB93030-3.5	Secured Storage	Dawan Currie	04/22/15 21:41	Retrieve from Storage
JB93030-3.5	Dawan Currie	Secured Staging Area	04/22/15 21:41	Return to Storage
JB93030-3.5	Secured Staging Area	Jeremy Miles	04/22/15 21:45	Retrieve from Storage
JB93030-3.5	Jeremy Miles	Secured Storage	04/22/15 23:23	Return to Storage
JB93030-3.5	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB93030-3.5	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB93030-3.5	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB93030-3.5	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB93030-3.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB93030-3.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB93030-3.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB93030-3.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB93030-3.6	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-3.6	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-3.6	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-3.6	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-3.7	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-3.7	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-3.7	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-3.7	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-3F.2	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-3F.2	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-3F.2	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-3F.2	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-3F.2	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-3F.2	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-3F.2.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-3F.2
JB93030-3F.2.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-3F.2
JB93030-3F.2.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-4.1	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-4.1	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-4.1	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-4.1	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-5.1	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-5.1	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-5.1	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-5.1	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-5.1	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-5.1	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-5.1.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-5.1
JB93030-5.1.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-5.1
JB93030-5.1.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-5.3	Secured Storage	Gage Donahue	04/25/15 16:49	Retrieve from Storage
JB93030-5.3	Gage Donahue	Secured Staging Area	04/25/15 16:49	Return to Storage
JB93030-5.3	Secured Staging Area	Krimesh Patel	04/26/15 12:13	Retrieve from Storage
JB93030-5.3	Krimesh Patel	Secured Storage	04/26/15 15:31	Return to Storage
JB93030-5.3	Secured Storage	Bernadette Vassilatos	04/27/15 07:47	Retrieve from Storage
JB93030-5.3	Bernadette Vassilatos	Secured Staging Area	04/27/15 07:47	Return to Storage
JB93030-5.3	Secured Staging Area	Beatrice Marcelino	04/27/15 09:00	Retrieve from Storage
JB93030-5.3	Beatrice Marcelino	Secured Storage	04/27/15 16:21	Return to Storage
JB93030-5.3	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-5.3	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB93030-5.3	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB93030-5.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB93030-5.3	Secured Storage	Todd Shoemaker	05/05/15 09:32	Retrieve from Storage
JB93030-5.3	Todd Shoemaker	Hannah Coffin	05/05/15 09:33	Custody Transfer
JB93030-5.3	Hannah Coffin	Secured Storage	05/05/15 16:03	Return to Storage
JB93030-5.3	Secured Storage	Bernadette Vassilatos	05/06/15 08:10	Retrieve from Storage
JB93030-5.3	Bernadette Vassilatos	Secured Staging Area	05/06/15 08:10	Return to Storage
JB93030-5.3	Secured Staging Area	Hannah Coffin	05/06/15 08:40	Retrieve from Storage
JB93030-5.3	Hannah Coffin	Secured Storage	05/06/15 15:44	Return to Storage
JB93030-5.3	Secured Storage	Gage Donahue	05/07/15 06:46	Retrieve from Storage
JB93030-5.3	Gage Donahue	Secured Staging Area	05/07/15 06:46	Return to Storage
JB93030-5.3	Secured Staging Area	Hannah Coffin	05/07/15 08:35	Retrieve from Storage
JB93030-5.3	Hannah Coffin	Secured Storage	05/07/15 15:30	Return to Storage
JB93030-5.4	Secured Storage	Todd Shoemaker	05/01/15 11:49	Retrieve from Storage
JB93030-5.4	Todd Shoemaker	Brian Schneller	05/01/15 11:50	Custody Transfer
JB93030-5.4	Brian Schneller	Secured Storage	05/01/15 20:26	Return to Storage
JB93030-5.5	Secured Storage	Dawan Currie	04/22/15 21:41	Retrieve from Storage
JB93030-5.5	Dawan Currie	Secured Staging Area	04/22/15 21:41	Return to Storage
JB93030-5.5	Secured Staging Area	Jeremy Miles	04/22/15 21:45	Retrieve from Storage
JB93030-5.5	Jeremy Miles	Secured Storage	04/22/15 23:23	Return to Storage
JB93030-5.5	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB93030-5.5	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB93030-5.5	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB93030-5.5	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB93030-5.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB93030-5.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB93030-5.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB93030-5.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB93030-5.6	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-5.6	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-5.6	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-5.6	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-5F.2	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-5F.2	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-5F.2	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-5F.2	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-5F.2	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-5F.2	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-5F.2.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-5F.2
JB93030-5F.2.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-5F.2
JB93030-5F.2.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-6.1	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-6.1	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-6.1	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-6.1	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-7.1	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-7.1	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-7.1	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-7.1	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-8.1	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-8.1	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-8.1	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-8.1	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-9.1	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-9.1	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-9.1	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-9.1	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-9.1	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-9.1	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-9.1.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-9.1
JB93030-9.1.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-9.1
JB93030-9.1.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-9.3	Secured Storage	Gage Donahue	04/25/15 16:49	Retrieve from Storage
JB93030-9.3	Gage Donahue	Secured Staging Area	04/25/15 16:49	Return to Storage
JB93030-9.3	Secured Staging Area	Krimesh Patel	04/26/15 12:13	Retrieve from Storage
JB93030-9.3	Krimesh Patel	Secured Storage	04/26/15 15:31	Return to Storage
JB93030-9.3	Secured Storage	Bernadette Vassilatos	04/27/15 07:47	Retrieve from Storage
JB93030-9.3	Bernadette Vassilatos	Secured Staging Area	04/27/15 07:47	Return to Storage
JB93030-9.3	Secured Staging Area	Beatrice Marcelino	04/27/15 09:00	Retrieve from Storage
JB93030-9.3	Beatrice Marcelino	Secured Storage	04/27/15 16:21	Return to Storage
JB93030-9.3	Secured Storage	Gage Donahue	04/30/15 09:40	Retrieve from Storage
JB93030-9.3	Gage Donahue	Secured Staging Area	04/30/15 09:40	Return to Storage
JB93030-9.3	Secured Staging Area	Jayshree Amin	04/30/15 09:44	Retrieve from Storage
JB93030-9.3	Jayshree Amin	Secured Storage	04/30/15 16:49	Return to Storage
JB93030-9.3	Secured Storage	Todd Shoemaker	05/05/15 09:32	Retrieve from Storage
JB93030-9.3	Todd Shoemaker	Hannah Coffin	05/05/15 09:33	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-9.3	Hannah Coffin	Secured Storage	05/05/15 16:03	Return to Storage
JB93030-9.3	Secured Storage	Bernadette Vassilatos	05/06/15 08:10	Retrieve from Storage
JB93030-9.3	Bernadette Vassilatos	Secured Staging Area	05/06/15 08:10	Return to Storage
JB93030-9.3	Secured Staging Area	Hannah Coffin	05/06/15 08:40	Retrieve from Storage
JB93030-9.3	Hannah Coffin	Secured Storage	05/06/15 15:44	Return to Storage
JB93030-9.3	Secured Storage	Gage Donahue	05/07/15 06:46	Retrieve from Storage
JB93030-9.3	Gage Donahue	Secured Staging Area	05/07/15 06:46	Return to Storage
JB93030-9.3	Secured Staging Area	Hannah Coffin	05/07/15 08:35	Retrieve from Storage
JB93030-9.3	Hannah Coffin	Secured Storage	05/07/15 15:30	Return to Storage
JB93030-9.4	Secured Storage	Todd Shoemaker	05/01/15 11:49	Retrieve from Storage
JB93030-9.4	Todd Shoemaker	Brian Schneller	05/01/15 11:50	Custody Transfer
JB93030-9.4	Brian Schneller	Secured Storage	05/01/15 20:26	Return to Storage
JB93030-9.5	Secured Storage	Dawan Currie	04/22/15 21:41	Retrieve from Storage
JB93030-9.5	Dawan Currie	Secured Staging Area	04/22/15 21:41	Return to Storage
JB93030-9.5	Secured Staging Area	Jeremy Miles	04/22/15 21:45	Retrieve from Storage
JB93030-9.5	Jeremy Miles	Secured Storage	04/22/15 23:23	Return to Storage
JB93030-9.5	Secured Storage	Luis Villanueva	04/25/15 08:53	Retrieve from Storage
JB93030-9.5	Luis Villanueva	Secured Staging Area	04/25/15 08:53	Return to Storage
JB93030-9.5	Secured Staging Area	Krimesh Patel	04/25/15 16:20	Retrieve from Storage
JB93030-9.5	Krimesh Patel	Secured Storage	04/25/15 16:54	Return to Storage
JB93030-9.5	Secured Storage	Dwayne Johnson	05/01/15 09:41	Retrieve from Storage
JB93030-9.5	Dwayne Johnson	Secured Staging Area	05/01/15 09:42	Return to Storage
JB93030-9.5	Secured Staging Area	Chris Brunson	05/01/15 15:31	Retrieve from Storage
JB93030-9.5	Chris Brunson	Secured Storage	05/01/15 17:32	Return to Storage
JB93030-9.6	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage
JB93030-9.6	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-9.6	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-9.6	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage
JB93030-9F.2	Secured Storage	Alfredo Crespo	04/28/15 07:18	Retrieve from Storage
JB93030-9F.2	Alfredo Crespo	Secured Staging Area	04/28/15 07:18	Return to Storage
JB93030-9F.2	Secured Staging Area	Francis Pandolfo	04/28/15 08:07	Retrieve from Storage
JB93030-9F.2	Francis Pandolfo	Secured Storage	04/28/15 08:58	Return to Storage
JB93030-9F.2	Secured Storage	Francis Pandolfo	04/28/15 09:02	Retrieve from Storage
JB93030-9F.2	Francis Pandolfo	Secured Storage	04/28/15 10:46	Return to Storage
JB93030-9F.2.1	Francis Pandolfo	Metals Digestion	04/28/15 10:45	Digestate from JB93030-9F.2
JB93030-9F.2.1	Metals Digestion	Francis Pandolfo	04/28/15 10:45	Digestate from JB93030-9F.2
JB93030-9F.2.1	Francis Pandolfo	Metals Digestate Storage	04/28/15 10:45	Return to Storage
JB93030-10.1	Secured Storage	Bridget Kelly	04/24/15 15:45	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB93030
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/22/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93030-10.1	Bridget Kelly	GCMS2B	04/24/15 15:45	Load on Instrument
JB93030-10.1	GCMS2B	Bridget Kelly	04/27/15 09:42	Unload from Instrument
JB93030-10.1	Bridget Kelly	Secured Storage	04/27/15 09:42	Return to Storage

New Jersey
ACCUTEST LABORATORIES

05/12/15

Technical Report for

Cornerstone Environmental Group, LLC

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ

140802

Accutest Job Number: JB93282

Sampling Date: 04/24/15

Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Tim.Roeper@Cornerstoneeg.com; jtomalia@cadenaco.com

ATTN: Tim Roeper

Total number of pages in report: **354**

NELAP ACCREDITED TNI LABORATORY

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 T. Cole
Nancy Cole
Laboratory Director

Client Service contact: Marie Meidhof 732-329-0200

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Sample Summary

Cornerstone Environmental Group, LLC

Job No: JB93282

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Project No: 140802

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93282-1	04/24/15	11:00	JK	04/24/15	AQ	Ground Water	PMP-180-042415
JB93282-1F	04/24/15	11:00	JK	04/24/15	AQ	Groundwater Filtered	PMP-180-042415
JB93282-2	04/24/15	12:30	JK	04/24/15	AQ	Ground Water	PMP-230-042415
JB93282-2F	04/24/15	12:30	JK	04/24/15	AQ	Groundwater Filtered	PMP-230-042415
JB93282-3	04/24/15	12:30	JK	04/24/15	AQ	Trip Blank Water	TRIP BLANK 4-23-15

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Cornerstone Environmental Group, LLC	**Job No**	JB93282
Site:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ	**Report Date**	5/12/2015 9:43:51 AM

On 04/24/2015, 2 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB93282 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.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V4B2188

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93530-16MS, JB93530-16MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP86146

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93243-3MS, JB93243-3MSD, JB93243-3SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP88923

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93284-6DUP, JB93284-6MS were used as the QC samples for Sulfate.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ **Batch ID:** GP88783

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93284-6MS, JB93284-6DUP were used as the QC samples for Nitrogen, Nitrate + Nitrite.
- RPD(s) for Duplicate for Nitrogen, Nitrate + Nitrite are outside control limits for sample GP88783-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ	**Batch ID:** R143681

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB93282-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	**Batch ID:** R143682

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JB93282-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM2320 B-11

Matrix: AQ	**Batch ID:** GN24584

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93199-3DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM2540 C-11

Matrix: AQ	**Batch ID:** GN24465

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93284-6DUP were used as the QC samples for Solids, Total Dissolved.

Wet Chemistry By Method SM4500CO2 D-11

Matrix: AQ	**Batch ID:** GN24598

- The data for SM4500CO2 D-11 meets quality control requirements.

Wet Chemistry By Method SM4500NO2 B-11

Matrix: AQ	**Batch ID:** GN24081

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93181-9DUP, JB93181-9MS were used as the QC samples for Nitrogen, Nitrite.

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: JB93282
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/24/15

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93282-1	**PMP-180-042415**					
Benzene		2.3	0.50	0.24	ug/l	SW846 8260C
Chlorobenzene		0.49 J	1.0	0.19	ug/l	SW846 8260C
Chloroethane		7.9	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		0.42 J	5.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		0.64 J	1.0	0.23	ug/l	SW846 8260C
Calcium		57000	5000		ug/l	SW846 6010C
Iron		91600	100		ug/l	SW846 6010C
Alkalinity, Bicarbonate		239	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		239	13		mg/l	SM2320 B-11
Chloride		2.5	2.0		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		0.43	0.11		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		0.43	0.10		mg/l	EPA 353.2/LACHAT
Solids, Total Dissolved		203	25		mg/l	SM2540 C-11
JB93282-1F	**PMP-180-042415**					
Calcium		58600	5000		ug/l	SW846 6010C
Iron		93600	100		ug/l	SW846 6010C
JB93282-2	**PMP-230-042415**					
Benzene		7.8	0.50	0.24	ug/l	SW846 8260C
Chlorobenzene		1.4	1.0	0.19	ug/l	SW846 8260C
Chloroethane		29.1	1.0	0.34	ug/l	SW846 8260C
Cyclohexane		1.3 J	5.0	0.28	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.51 J	1.0	0.27	ug/l	SW846 8260C
1,1-Dichloroethane		0.75 J	1.0	0.17	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.61 J	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		1.8	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		0.37 J	5.0	0.22	ug/l	SW846 8260C
Toluene		0.20 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride		0.43 J	1.0	0.15	ug/l	SW846 8260C
Xylene (total)		0.83 J	1.0	0.17	ug/l	SW846 8260C
Calcium		25300	5000		ug/l	SW846 6010C
Iron		38000	100		ug/l	SW846 6010C
Alkalinity, Bicarbonate		96.8	5.0		mg/l	SM4500CO2 D-11
Alkalinity, Total as CaCO3		96.8	13		mg/l	SM2320 B-11
Solids, Total Dissolved		118	17		mg/l	SM2540 C-11
JB93282-2F	**PMP-230-042415**					
Calcium		23800	5000		ug/l	SW846 6010C
Iron		35800	100		ug/l	SW846 6010C

Summary of Hits

Job Number: JB93282
Account: Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Collected: 04/24/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB93282-3 TRIP BLANK 4-23-15

No hits reported in this sample.

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	PMP-180-042415		
Lab Sample ID:	JB93282-1	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
Method:	SW846 8260C	**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	4B51677.D	1	05/04/15	TP	n/a	n/a	V4B2188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	2.3	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.49	1.0	0.19	ug/l	J
75-00-3	Chloroethane	7.9	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	0.42	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	0.64	1.0	0.23	ug/l	J

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:	PMP-180-042415		
Lab Sample ID:	JB93282-1	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	105%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PMP-180-042415		
Lab Sample ID:	JB93282-1	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	57000	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	91600	100	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36561
(2) Prep QC Batch: MP86146

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PMP-180-042415		
Lab Sample ID:	JB93282-1	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	239	5.0	mg/l	1	05/02/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	239	13	mg/l	1	05/02/15 12:45	CB	SM2320 B-11
Chloride	2.5	2.0	mg/l	1	05/09/15 23:39	SK	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.43	0.11	mg/l	1	05/05/15 14:06	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.43	0.10	mg/l	1	05/05/15 14:06	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/24/15 21:20	HS	SM4500NO2 B-11
Solids, Total Dissolved	203	25	mg/l	1	04/30/15	BM	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/09/15 23:39	SK	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PMP-180-042415		
Lab Sample ID:	JB93282-1F	**Date Sampled:**	04/24/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/24/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	58600	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	93600	100	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36561
(2) Prep QC Batch: MP86146

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	PMP-230-042415		
Lab Sample ID:	JB93282-2	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
Method:	SW846 8260C	**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	4B51678.D	1	05/04/15	TP	n/a	n/a	V4B2188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	7.8	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	1.4	1.0	0.19	ug/l	
75-00-3	Chloroethane	29.1	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	1.3	5.0	0.28	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.51	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	0.75	1.0	0.17	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.61	1.0	0.27	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	1.8	1.0	0.23	ug/l	

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:	PMP-230-042415		
Lab Sample ID:	JB93282-2	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.37	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	0.20	1.0	0.16	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	0.43	1.0	0.15	ug/l	J
1330-20-7	Xylene (total)	0.83	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	107%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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:	PMP-230-042415		
Lab Sample ID:	JB93282-2	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	25300	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	38000	100	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36561
(2) Prep QC Batch: MP86146

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PMP-230-042415		
Lab Sample ID:	JB93282-2	**Date Sampled:**	04/24/15
Matrix:	AQ - Ground Water	**Date Received:**	04/24/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	96.8	5.0	mg/l	1	05/02/15	CB	SM4500CO2 D-11
Alkalinity, Total as CaCO3	96.8	13	mg/l	1	05/02/15 12:45	CB	SM2320 B-11
Chloride	< 2.0	2.0	mg/l	1	05/10/15 00:03	SK	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	< 0.11	0.11	mg/l	1	05/05/15 14:07	BS	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/05/15 14:07	BS	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	04/24/15 21:20	HS	SM4500NO2 B-11
Solids, Total Dissolved	118	17	mg/l	1	04/30/15	BM	SM2540 C-11
Sulfate	< 10	10	mg/l	1	05/10/15 00:03	SK	EPA 300/SW846 9056A

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PMP-230-042415		
Lab Sample ID:	JB93282-2F	**Date Sampled:**	04/24/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/24/15
		Percent Solids:	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	23800	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Iron	35800	100	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Magnesium	< 5000	5000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]
Sodium	< 10000	10000	ug/l	1	04/30/15	05/01/15	ND	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA36561
(2) Prep QC Batch: MP86146

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK 4-23-15		
Lab Sample ID:	JB93282-3	**Date Sampled:**	04/24/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/24/15
Method:	SW846 8260C	**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	4B51676.D	1	05/04/15	TP	n/a	n/a	V4B2188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	

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:	TRIP BLANK 4-23-15		
Lab Sample ID:	JB93282-3	**Date Sampled:**	04/24/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

GW
WTB

CHAIN OF CUSTODY

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

Impulse

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control # MM-4/23/2015-5
Accutest Quote # Cadeng e203361	Accutest Job # JB93282

Client / Reporting Information

Company Name	Cornerstone Environmental Group
Street Address	100 Crystal Run Road Suite 100
City / State / Zip	Middletown NY 10941
Project Contact / E-mail	Tim.Roeper@cornerstoneeg.com
Phone # / Fax #	845-695-0200
Sampler(s) Name(s) / Phone #	John Kreiger/Andrew Valenski

Project Information

Project Name:	Ringwood - PMP-GW Sampling CADENA e203361
Street	Peters Mine Road
City / State	Ringwood NJ
Project #	140802-0
Client Purchase Order #	-
Project Manager	Tim Roeper

Billing Information (if different from Report to)

Company Name	Cornerstone Environmental Group
Street Address	100 Crystal Run Road
City / State / Zip	Middletown NY 10941
Attention:	Tim Roeper

Requested Analysis (see TEST CODE sheet)

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	VOC V8260TCL 42+ (HCL)	NA,MG,FE,CA Metals HNO3 500	TDS,SO4,CHL,BIC 250 (NONE)	XN030 250 (NONE)	XN030 250 (H2SO4)	DISS METALS (FF) HNO3 500	LAB USE ONLY
1F	PMP-180-042415		4-24-15	1100	ATV	GW	8									3	1	1	1	1	1	A33
2F	PMP-230-042415		4-24-15	1230	ATV	GW	8									3	1	1	1	1	1	C7
3	TRIP Blank 4-23-15		4-23-15	0900	-	DIW	2															V871

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

INITIAL ASESSMENT JK 2B
LABEL VERIFICATION DG

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

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

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

Comments / Special Instructions

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 [signature]	4/24/15	1 Cas [signature] 86	2 Cas [signature] 86	4/24/15 1800	2 [signature]
3		3	4		4
5		5	Custody Seal # 462,954 ☑ Intact ☐ Not intact	Preserved where applicable ☑ JK	On Ice ☑ Cooler Temp. 3.2°C

5.1
5

JB93282: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB93282 **Client:** _____ **Project:** _____

Date / Time Received: 4/24/2015 6:00:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (3.2/1.4); #2: (2.8/1); 0

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
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:	2		

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

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB93282: Chain of Custody
Page 2 of 3

Job Change Order: JB93282

Requested Date:	5/7/2015	**Received Date:**	4/24/2015
Account Name:	Cornerstone Environmental Grou	**Due Date:**	5/8/2015
Project Description:	E203361 Ford Ringwood, Peters Mine Road, Ringw	**Deliverable:**	REDT2
CSR:	mariem	**TAT (Days):**	14

==========

Sample #: JB93282-all

Dept:

Change:
Please revise to FULT1. Also subbed to ALSE.

==========

Above Changes Per:

Date/Time: 5/7/2015 2:51:52 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Internal Sample Tracking Chronicle

Cornerstone Environmental Group, LLC

Job No: JB93282

E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Project No: 140802

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93282-1	Collected: 24-APR-15 11:00 By: JK		Received: 24-APR-15 By: AS			
PMP-180-042415						
JB93282-1	SM4500NO2 B-11	24-APR-15 21:20	HS			NO2
JB93282-1	SM2540 C-11	30-APR-15	BM			TDS
JB93282-1	SW846 6010C	01-MAY-15 14:40	ND	30-APR-15	FP	CA,FE,MG,NA
JB93282-1	SM4500CO2 D-11	02-MAY-15	CB			BIC
JB93282-1	SM2320 B-11	02-MAY-15 12:45	CB			ALK
JB93282-1	SW846 8260C	04-MAY-15 10:16	TP			V8260TCL42+
JB93282-1	EPA353.2/SM4500NO2B	05-MAY-15 14:06	BS			NO3O
JB93282-1	EPA 353.2/LACHAT	05-MAY-15 14:06	BS	05-MAY-15	BS	NO32
JB93282-1	EPA 300/SW846 9056A	09-MAY-15 23:39	SK	09-MAY-15	SK	CHL,SO4
JB93282-2	Collected: 24-APR-15 12:30 By: JK		Received: 24-APR-15 By: AS			
PMP-230-042415						
JB93282-2	SM4500NO2 B-11	24-APR-15 21:20	HS			NO2
JB93282-2	SM2540 C-11	30-APR-15	BM			TDS
JB93282-2	SW846 6010C	01-MAY-15 14:46	ND	30-APR-15	FP	CA,FE,MG,NA
JB93282-2	SM4500CO2 D-11	02-MAY-15	CB			BIC
JB93282-2	SM2320 B-11	02-MAY-15 12:45	CB			ALK
JB93282-2	SW846 8260C	04-MAY-15 10:43	TP			V8260TCL42+
JB93282-2	EPA353.2/SM4500NO2B	05-MAY-15 14:07	BS			NO3O
JB93282-2	EPA 353.2/LACHAT	05-MAY-15 14:07	BS	05-MAY-15	BS	NO32
JB93282-2	EPA 300/SW846 9056A	10-MAY-15 00:03	SK	09-MAY-15	SK	CHL,SO4
JB93282-3	Collected: 24-APR-15 12:30 By: JK		Received: 24-APR-15 By: AS			
TRIP BLANK 4-23-15						
JB93282-3	SW846 8260C	04-MAY-15 09:48	TP			V8260TCL42+
JB93282-1F	Collected: 24-APR-15 11:00 By: JK		Received: 24-APR-15 By: AS			
PMP-180-042415						
JB93282-1F	SW846 6010C	01-MAY-15 14:52	ND	30-APR-15	FP	CA,FE,MG,NA
JB93282-2F	Collected: 24-APR-15 12:30 By: JK		Received: 24-APR-15 By: AS			
PMP-230-042415						
JB93282-2F	SW846 6010C	01-MAY-15 14:58	ND	30-APR-15	FP	CA,FE,MG,NA

Accutest Internal Chain of Custody

Job Number: JB93282
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93282-1.1	Secured Storage	Alfredo Crespo	04/30/15 11:10	Retrieve from Storage
JB93282-1.1	Alfredo Crespo	Secured Staging Area	04/30/15 11:10	Return to Storage
JB93282-1.1	Secured Staging Area	Francis Pandolfo	04/30/15 12:34	Retrieve from Storage
JB93282-1.1	Francis Pandolfo	Secured Storage	05/01/15 08:20	Return to Storage
JB93282-1.1	Secured Storage	Rakesh Pathak	05/04/15 14:06	Retrieve from Storage
JB93282-1.1	Rakesh Pathak	Secured Storage	05/04/15 16:21	Return to Storage
JB93282-1.1.1	Francis Pandolfo	Metals Digestion	04/30/15 14:27	Digestate from JB93282-1.1
JB93282-1.1.1	Metals Digestion	Francis Pandolfo	04/30/15 14:29	Digestate from JB93282-1.1
JB93282-1.1.1	Francis Pandolfo	Metals Digestate Storage	04/30/15 14:29	Return to Storage
JB93282-1.1.1	Metals Digestate Storage	Nancy Duan	05/01/15 12:14	Retrieve from Storage
JB93282-1.1.1	Nancy Duan	Metals Digestate Storage	05/01/15 16:49	Return to Storage
JB93282-1.3	Secured Storage	Luis Villanueva	04/30/15 13:47	Retrieve from Storage
JB93282-1.3	Luis Villanueva	Secured Staging Area	04/30/15 13:47	Return to Storage
JB93282-1.3	Secured Staging Area	Beatrice Marcelino	04/30/15 13:50	Retrieve from Storage
JB93282-1.3	Beatrice Marcelino	Secured Storage	04/30/15 18:13	Return to Storage
JB93282-1.3	Secured Storage	Edwin Gonzalez	05/02/15 07:28	Retrieve from Storage
JB93282-1.3	Edwin Gonzalez	Secured Staging Area	05/02/15 07:28	Return to Storage
JB93282-1.3	Secured Staging Area	Chris Brunson	05/02/15 08:34	Retrieve from Storage
JB93282-1.3	Chris Brunson	Secured Storage	05/02/15 17:46	Return to Storage
JB93282-1.3	Secured Storage	Edwin Gonzalez	05/09/15 07:35	Retrieve from Storage
JB93282-1.3	Edwin Gonzalez	Secured Staging Area	05/09/15 07:35	Return to Storage
JB93282-1.3	Secured Staging Area	Stephen Krachie	05/09/15 08:15	Retrieve from Storage
JB93282-1.3	Stephen Krachie	Secured Storage	05/09/15 16:12	Return to Storage
JB93282-1.3	Secured Storage	Gage Donahue	05/11/15 09:45	Retrieve from Storage
JB93282-1.3	Gage Donahue	Secured Staging Area	05/11/15 09:45	Return to Storage
JB93282-1.3	Secured Staging Area	Hannah Coffin	05/11/15 09:58	Retrieve from Storage
JB93282-1.3	Hannah Coffin	Secured Storage	05/11/15 16:26	Return to Storage
JB93282-1.4	Secured Storage	Todd Shoemaker	05/05/15 10:53	Retrieve from Storage
JB93282-1.4	Todd Shoemaker	Brian Schneller	05/05/15 11:20	Custody Transfer
JB93282-1.4	Brian Schneller	Secured Storage	05/05/15 18:57	Return to Storage
JB93282-1.6	Secured Storage	Toan Pham	05/04/15 09:18	Retrieve from Storage
JB93282-1.6	Toan Pham	GCMS4B	05/04/15 09:18	Load on Instrument
JB93282-1.6	GCMS4B	Toan Pham	05/05/15 09:44	Unload from Instrument
JB93282-1.6	Toan Pham	Secured Storage	05/05/15 09:44	Return to Storage
JB93282-1.7	Secured Storage	Toan Pham	04/29/15 14:23	Retrieve from Storage
JB93282-1.7	Toan Pham	GCMS2C	04/29/15 14:23	Load on Instrument
JB93282-1.7	GCMS2C	Kevin Samuel	04/30/15 17:12	Unload from Instrument
JB93282-1.7	Kevin Samuel	Secured Storage	04/30/15 17:12	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB93282
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93282-1.9	Secured Storage	Bernadette Vassilatos	04/30/15 13:50	Retrieve from Storage
JB93282-1.9	Bernadette Vassilatos		04/30/15 13:50	Subcontract
JB93282-1.9	Bernadette Vassilatos	Secured Storage	04/30/15 13:59	Return to Storage
SUB CANCALLED				
JB93282-1F.2	Secured Storage	Alfredo Crespo	04/30/15 11:10	Retrieve from Storage
JB93282-1F.2	Alfredo Crespo	Secured Staging Area	04/30/15 11:10	Return to Storage
JB93282-1F.2	Secured Staging Area	Francis Pandolfo	04/30/15 12:34	Retrieve from Storage
JB93282-1F.2	Francis Pandolfo	Secured Storage	05/01/15 08:20	Return to Storage
JB93282-1F.2	Secured Storage	Rakesh Pathak	05/04/15 14:06	Retrieve from Storage
JB93282-1F.2	Rakesh Pathak	Secured Storage	05/04/15 16:21	Return to Storage
JB93282-1F.2.1	Francis Pandolfo	Metals Digestion	04/30/15 14:27	Digestate from JB93282-1F.2
JB93282-1F.2.1	Metals Digestion	Francis Pandolfo	04/30/15 14:29	Digestate from JB93282-1F.2
JB93282-1F.2.1	Francis Pandolfo	Metals Digestate Storage	04/30/15 14:29	Return to Storage
JB93282-1F.2.1	Metals Digestate Storage	Nancy Duan	05/01/15 12:14	Retrieve from Storage
JB93282-1F.2.1	Nancy Duan	Metals Digestate Storage	05/01/15 16:49	Return to Storage
JB93282-2.1	Secured Storage	Alfredo Crespo	04/30/15 11:10	Retrieve from Storage
JB93282-2.1	Alfredo Crespo	Secured Staging Area	04/30/15 11:10	Return to Storage
JB93282-2.1	Secured Staging Area	Francis Pandolfo	04/30/15 12:34	Retrieve from Storage
JB93282-2.1	Francis Pandolfo	Secured Storage	05/01/15 08:20	Return to Storage
JB93282-2.1.1	Francis Pandolfo	Metals Digestion	04/30/15 14:27	Digestate from JB93282-2.1
JB93282-2.1.1	Metals Digestion	Francis Pandolfo	04/30/15 14:29	Digestate from JB93282-2.1
JB93282-2.1.1	Francis Pandolfo	Metals Digestate Storage	04/30/15 14:29	Return to Storage
JB93282-2.1.1	Metals Digestate Storage	Nancy Duan	05/01/15 12:14	Retrieve from Storage
JB93282-2.1.1	Nancy Duan	Metals Digestate Storage	05/01/15 16:49	Return to Storage
JB93282-2.3	Secured Storage	Luis Villanueva	04/30/15 13:47	Retrieve from Storage
JB93282-2.3	Luis Villanueva	Secured Staging Area	04/30/15 13:47	Return to Storage
JB93282-2.3	Secured Staging Area	Beatrice Marcelino	04/30/15 13:50	Retrieve from Storage
JB93282-2.3	Beatrice Marcelino	Secured Storage	04/30/15 18:13	Return to Storage
JB93282-2.3	Secured Storage	Edwin Gonzalez	05/02/15 07:28	Retrieve from Storage
JB93282-2.3	Edwin Gonzalez	Secured Staging Area	05/02/15 07:28	Return to Storage
JB93282-2.3	Secured Staging Area	Chris Brunson	05/02/15 08:34	Retrieve from Storage
JB93282-2.3	Chris Brunson	Secured Storage	05/02/15 17:46	Return to Storage
JB93282-2.3	Secured Storage	Edwin Gonzalez	05/09/15 07:35	Retrieve from Storage
JB93282-2.3	Edwin Gonzalez	Secured Staging Area	05/09/15 07:35	Return to Storage
JB93282-2.3	Secured Staging Area	Stephen Krachie	05/09/15 08:15	Retrieve from Storage
JB93282-2.3	Stephen Krachie	Secured Storage	05/09/15 16:12	Return to Storage
JB93282-2.3	Secured Storage	Gage Donahue	05/11/15 09:45	Retrieve from Storage
JB93282-2.3	Gage Donahue	Secured Staging Area	05/11/15 09:45	Return to Storage
JB93282-2.3	Secured Staging Area	Hannah Coffin	05/11/15 09:58	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB93282
Account: CORNNYM Cornerstone Environmental Group, LLC
Project: E203361 Ford Ringwood, Peters Mine Road, Ringwood, NJ
Received: 04/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB93282-2.3	Hannah Coffin	Secured Storage	05/11/15 16:26	Return to Storage
JB93282-2.4	Secured Storage	Todd Shoemaker	05/05/15 10:53	Retrieve from Storage
JB93282-2.4	Todd Shoemaker	Brian Schneller	05/05/15 11:20	Custody Transfer
JB93282-2.4	Brian Schneller	Secured Storage	05/05/15 18:57	Return to Storage
JB93282-2.6	Secured Storage	Toan Pham	05/04/15 09:18	Retrieve from Storage
JB93282-2.6	Toan Pham	GCMS4B	05/04/15 09:18	Load on Instrument
JB93282-2.6	GCMS4B	Toan Pham	05/05/15 09:44	Unload from Instrument
JB93282-2.6	Toan Pham	Secured Storage	05/05/15 09:44	Return to Storage
JB93282-2.7	Secured Storage	Toan Pham	04/29/15 14:23	Retrieve from Storage
JB93282-2.7	Toan Pham	GCMS2C	04/29/15 14:23	Load on Instrument
JB93282-2.7	GCMS2C	Kevin Samuel	04/30/15 17:12	Unload from Instrument
JB93282-2.7	Kevin Samuel	Secured Storage	04/30/15 17:12	Return to Storage
JB93282-2.9	Secured Storage	Bernadette Vassilatos	04/30/15 13:50	Retrieve from Storage
JB93282-2.9	Bernadette Vassilatos		04/30/15 13:50	Subcontract
JB93282-2.9	Bernadette Vassilatos	Secured Storage	04/30/15 13:59	Return to Storage
SUB CANCALLED				
JB93282-2F.2	Secured Storage	Alfredo Crespo	04/30/15 11:10	Retrieve from Storage
JB93282-2F.2	Alfredo Crespo	Secured Staging Area	04/30/15 11:10	Return to Storage
JB93282-2F.2	Secured Staging Area	Francis Pandolfo	04/30/15 12:34	Retrieve from Storage
JB93282-2F.2	Francis Pandolfo	Secured Storage	05/01/15 08:20	Return to Storage
JB93282-2F.2.1	Francis Pandolfo	Metals Digestion	04/30/15 14:27	Digestate from JB93282-2F.2
JB93282-2F.2.1	Metals Digestion	Francis Pandolfo	04/30/15 14:29	Digestate from JB93282-2F.2
JB93282-2F.2.1	Francis Pandolfo	Metals Digestate Storage	04/30/15 14:29	Return to Storage
JB93282-2F.2.1	Metals Digestate Storage	Nancy Duan	05/01/15 12:14	Retrieve from Storage
JB93282-2F.2.1	Nancy Duan	Metals Digestate Storage	05/01/15 16:49	Return to Storage
JB93282-3.1	Secured Storage	Toan Pham	05/04/15 09:18	Retrieve from Storage
JB93282-3.1	Toan Pham	GCMS4B	05/04/15 09:18	Load on Instrument
JB93282-3.1	GCMS4B	Toan Pham	05/05/15 09:44	Unload from Instrument
JB93282-3.1	Toan Pham	Secured Storage	05/05/15 09:44	Return to Storage
JB93282-3.2	Secured Storage	Toan Pham	04/29/15 14:23	Retrieve from Storage
JB93282-3.2	Toan Pham	GCMS2C	04/29/15 14:23	Load on Instrument
JB93282-3.2	GCMS2C	Kevin Samuel	04/30/15 17:12	Unload from Instrument
JB93282-3.2	Kevin Samuel	Secured Storage	04/30/15 17:12	Return to Storage

May 12, 2015

Tim Roeper
Cornerstone EG
100 Crystal Run Road
Suite 101
Middletown, NY 10941

CADENA project ID: E203361
Project: Ford Ringwood Mines Project
Project number:
Laboratory: Accutest Laboratories - Dayton (Chloride and Sulfate analysis performed at Accutest-Orlando lab)
Laboratory submittal: JB92815
Sample date: 2015-04-20
Report received by CADENA: 2015-05-08
Initial Data Verification completed by CADENA: 2015-05-12

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

2 Water sample(s) were analyzed for GCMS VOC, Metals and General Chemistry parameter(s). 1 Trip blank and 1 field blank were analyzed for GCMS VOC parameters.

Sample/MS/MSD Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

GCMS VOC client sample detections for Tentatively Identified Compounds (TIC's) should be considered to be estimated and qualified with NJ flags.

GCMS VOC trip blank and field blank were non-detect for all target analytes.

Metals method blank had detections below the RL for calcium and iron. Qualification of client sample results was not required based on these method blank detections.

TDS method blank had a detection below the RL. Qualification of client sample results was not required based on this method blank detection.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia, Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
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 and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203361
Laboratory: Accutest Laboratories-Dayton
Laboratory Submittal: JB92815

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	GCMS VOC Volatiles	Metals by ICP Spectroscopy(D)	Metals by ICP Spectroscopy	Alkalinity in Water	Solids in Water, Dissolved	Carbon Dioxide and Forms of Alkalinity by Calculation	Nitrite in Water - Colorimetric	Nitrate-Nitrite - Cd Reduction	Inorganic Anions by IC
JB92815-1	TB-042015	4/20/2015	5:20:00	X								
JB92815-2	OB-21-042015	4/20/2015	11:50:00	X		X	X	X	X	X	X	X
JB92815-2F	OB-21-042015	4/20/2015	11:50:00		X							
JB92815-3	RW-7-042015	4/20/2015	2:50:00	X		X	X	X	X	X	X	X
JB92815-3F	RW-7-042015	4/20/2015	2:50:00		X							
JB92815-4	FB042015	4/20/2015	5:20:00	X		X	X	X	X	X	X	X
JB92815-4F	FB042015	4/20/2015	5:20:00		X							

Qualified Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92815

	Sample Name:	TB-042015				OB-21-042015				RW-7-042015				FB042015			
	Lab Sample ID:	JB92815-1				JB92815-2				JB92815-3				JB92815-4			
	Sample Date:	4/20/2015				4/20/2015				4/20/2015				4/20/2015			
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**
GC/MS VOC																	
OSW-8260C																	
Isopropanol - TIC	67-63-0									23	0	ug/l	NJ				
Total Alkanes - TIC	TIC1													0	0	ug/l	NJ
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ				
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ	0	0	ug/l	NJ	23	0	ug/l	NJ	0	0	ug/l	NJ

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92815

	Sample Name:	TB-042015				OB-21-042015				OB-21-042015				RW-7-042015			
	Lab Sample ID:	JB92815-1				JB92815-2				JB92815-2F				JB92815-3			
	Sample Date:	4/20/2015				4/20/2015				4/20/2015				4/20/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---	ND	5.0	ug/l	---					ND	5.0	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---	ND	2.0	ug/l	---					ND	2.0	ug/l	---
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
2-Hexanone	591-78-6	ND	5.0	ug/l	---	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Acetone	67-64-1	ND	10	ug/l	---	ND	10	ug/l	---					8.1	10	ug/l	J
Benzene	71-43-2	ND	0.50	ug/l	---	ND	0.50	ug/l	---					ND	0.50	ug/l	---
Bromoform	75-25-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Carbon disulfide	75-15-0	ND	2.0	ug/l	---	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Chlorobenzene	108-90-7	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Chloroform	67-66-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Cumene	98-82-8	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Cyclohexane	110-82-7	ND	5.0	ug/l	---	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Ethyl chloride	75-00-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Ethylbenzene	100-41-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Isopropanol - TIC	67-63-0													23	0	ug/l	NJ
Methyl acetate	79-20-9	ND	5.0	ug/l	---	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Methyl bromide	74-83-9	ND	2.0	ug/l	---	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Methyl chloride	74-87-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Methyl cyclohexane	108-87-2	ND	5.0	ug/l	---	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---	ND	10	ug/l	---					ND	10	ug/l	---
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Methylene chloride	75-09-2	ND	2.0	ug/l	---	ND	2.0	ug/l	---					ND	2.0	ug/l	---
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Styrene	100-42-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Toluene	108-88-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Total Alkanes - TIC	TIC1																
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ					0	0	ug/l	NJ
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Trichloroethylene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ	0	0	ug/l	NJ					23	0	ug/l	NJ
Xylene, total	1330-20-7	ND	1.0	ug/l	---	ND	1.0	ug/l	---					ND	1.0	ug/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92815

		Sample Name:	TB-042015				OB-21-042015				OB-21-042015				RW-7-042015		
		Lab Sample ID:	JB92815-1				JB92815-2				JB92815-2F				JB92815-3		
		Sample Date:	4/20/2015				4/20/2015				4/20/2015				4/20/2015		
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**
Metals																	
OSW-6010C																	
Calcium	7440-70-2					11400	5000	ug/l	---					10900	5000	ug/l	---
Calcium - Dissolved	7440-70-2									11700	5000	ug/l	---				
Iron	7439-89-6					1740	100	ug/l	---					522	100	ug/l	---
Iron - Dissolved	7439-89-6									ND	100	ug/l	---				
Magnesium	7439-95-4					5250	5000	ug/l	---					ND	5000	ug/l	---
Magnesium - Dissolved	7439-95-4									5170	5000	ug/l	---				
Sodium	7440-23-5					ND	10000	ug/l	---					ND	10000	ug/l	---
Sodium - Dissolved	7440-23-5									ND	10000	ug/l	---				
General Chemistry																	
APHA-2320																	
Calcium carbonate	471-34-1					36.8	5.0	mg/l	---					39.2	5.0	mg/l	---
APHA-2540C																	
Total dissolved solids	E-10173					40.0	10	mg/l	---					47.0	10	mg/l	---
APHA-4500-CO2-D																	
Alkalinity, Bicarbonate	E-14508					36.7	5.0	mg/l	---					39.2	5.0	mg/l	---
APHA-4500-NO2-B																	
Nitrate	14797-55-8					ND	0.11	mg/l	---					ND	0.11	mg/l	---
Nitrite	14797-65-0					ND	0.010	mg/l	---					ND	0.010	mg/l	---
EMSLC-353.2																	
nitrate/nitrite	E-10128					0.10	0.10	mg/l	---					ND	0.10	mg/l	---
OSW-9056A																	
Chloride	16887-00-6					ND	2.0	mg/l	---					ND	2.0	mg/l	---
Sulfate	14808-79-8					7.6	2.0	mg/l	---					9.3	2.0	mg/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92815

	Sample Name:	RW-7-042015				FB042015				FB042015			
	Lab Sample ID:	JB92815-3F				JB92815-4				JB92815-4F			
	Sample Date:	4/20/2015				4/20/2015				4/20/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC													
OSW-8260C													
1,1,1-Trichloroethane	71-55-6					ND	1.0	ug/l	---				
1,1,2,2-Tetrachloroethane	79-34-5					ND	1.0	ug/l	---				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1					ND	5.0	ug/l	---				
1,1,2-Trichloroethane	79-00-5					ND	1.0	ug/l	---				
1,1-Dichloroethane	75-34-3					ND	1.0	ug/l	---				
1,2,4-Trichlorobenzene	120-82-1					ND	1.0	ug/l	---				
1,2-Dibromo-3-chloropropane	96-12-8					ND	2.0	ug/l	---				
1,2-Dichloroethane	107-06-2					ND	1.0	ug/l	---				
1,2-Dichloropropane	78-87-5					ND	1.0	ug/l	---				
1,3-Dichlorobenzene	541-73-1					ND	1.0	ug/l	---				
1,4-Dichlorobenzene	106-46-7					ND	1.0	ug/l	---				
1.2-Dibromoethane	106-93-4					ND	1.0	ug/l	---				
2-Hexanone	591-78-6					ND	5.0	ug/l	---				
Acetone	67-64-1					ND	10	ug/l	---				
Benzene	71-43-2					ND	0.50	ug/l	---				
Bromoform	75-25-2					ND	1.0	ug/l	---				
Carbon disulfide	75-15-0					ND	2.0	ug/l	---				
Carbon tetrachloride	56-23-5					ND	1.0	ug/l	---				
Chlorobenzene	108-90-7					ND	1.0	ug/l	---				
Chloroform	67-66-3					ND	1.0	ug/l	---				
cis-1,2-Dichloroethene	156-59-2					ND	1.0	ug/l	---				
cis-1,3-Dichloropropene	10061-01-5					ND	1.0	ug/l	---				
Cumene	98-82-8					ND	1.0	ug/l	---				
Cyclohexane	110-82-7					ND	5.0	ug/l	---				
Dibromochloromethane	124-48-1					ND	1.0	ug/l	---				
Dichlorobromomethane	75-27-4					ND	1.0	ug/l	---				
Dichlorodifluoromethane	75-71-8					ND	2.0	ug/l	---				
Ethyl chloride	75-00-3					ND	1.0	ug/l	---				
Ethylbenzene	100-41-4					ND	1.0	ug/l	---				
Isopropanol - TIC	67-63-0												
Methyl acetate	79-20-9					ND	5.0	ug/l	---				
Methyl bromide	74-83-9					ND	2.0	ug/l	---				
Methyl chloride	74-87-3					ND	1.0	ug/l	---				
Methyl cyclohexane	108-87-2					ND	5.0	ug/l	---				
Methyl ethyl ketone	78-93-3					ND	10	ug/l	---				
Methyl isobutyl ketone	108-10-1					ND	5.0	ug/l	---				
Methyl tert-butyl ether	1634-04-4					ND	1.0	ug/l	---				
Methylene chloride	75-09-2					ND	2.0	ug/l	---				
o-Dichlorobenzene	95-50-1					ND	1.0	ug/l	---				
Styrene	100-42-5					ND	1.0	ug/l	---				
Tetrachloroethene	127-18-4					ND	1.0	ug/l	---				
Toluene	108-88-3					ND	1.0	ug/l	---				
Total Alkanes - TIC	TIC1					0	0	ug/l	NJ				
Total Alkanes - TIC	TIC20												
trans-1,2-Dichloroethene	156-60-5					ND	1.0	ug/l	---				
trans-1,3-Dichloropropene	10061-02-6					ND	1.0	ug/l	---				
Trichloroethylene	79-01-6					ND	1.0	ug/l	---				
Trichlorofluoromethane	75-69-4					ND	2.0	ug/l	---				
Vinyl chloride	75-01-4					ND	1.0	ug/l	---				
Vinylidene chloride	75-35-4					ND	1.0	ug/l	---				
Volatile organic compounds - TIC	E-12419					0	0	ug/l	NJ				
Xylene, total	1330-20-7					ND	1.0	ug/l	---				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92815

		Sample Name:	RW-7-042015				FB042015				FB042015		
		Lab Sample ID:	JB92815-3F				JB92815-4				JB92815-4F		
		Sample Date:	4/20/2015				4/20/2015				4/20/2015		
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
Metals													
OSW-6010C													
Calcium	7440-70-2					ND	5000	ug/l	---				
Calcium - Dissolved	7440-70-2	11700	5000	ug/l	---					ND	5000	ug/l	---
Iron	7439-89-6					ND	100	ug/l	---				
Iron - Dissolved	7439-89-6	ND	100	ug/l	---					ND	100	ug/l	---
Magnesium	7439-95-4					ND	5000	ug/l	---				
Magnesium - Dissolved	7439-95-4	ND	5000	ug/l	---					ND	5000	ug/l	---
Sodium	7440-23-5					ND	10000	ug/l	---				
Sodium - Dissolved	7440-23-5	ND	10000	ug/l	---					ND	10000	ug/l	---
General Chemistry													
APHA-2320													
Calcium carbonate	471-34-1					ND	5.0	mg/l	---				
APHA-2540C													
Total dissolved solids	E-10173					ND	10	mg/l	---				
APHA-4500-CO2-D													
Alkalinity, Bicarbonate	E-14508					ND	5.0	mg/l	---				
APHA-4500-NO2-B													
Nitrate	14797-55-8					ND	0.11	mg/l	---				
Nitrite	14797-65-0					ND	0.010	mg/l	---				
EMSLC-353.2													
nitrate/nitrite	E-10128					ND	0.10	mg/l	---				
OSW-9056A													
Chloride	16887-00-6					ND	2.0	mg/l	---				
Sulfate	14808-79-8					ND	2.0	mg/l	---				

May 12, 2015

Tim Roeper
Cornerstone EG
100 Crystal Run Road
Suite 101
Middletown, NY 10941

CADENA project ID: E203361
Project: Ford Ringwood Mines Project
Project number:
Laboratory: Accutest Laboratories - Dayton (Sulfate and chloride analysis performed at Accutest-Dayton lab)
Laboratory submittal: JB92906
Sample date: 2015-04-21
Report received by CADENA: 2015-05-08
Initial Data Verification completed by CADENA: 2015-05-12

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

3 Water sample(s) were analyzed for GCMS VOC, Metals and General Chemistry parameter(s). 1 Trip blank was analyzed for GCMS VOC parameters.

Sample/MS/MSD Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

GCMS VOC sample -003 recoveries were outliers biased high for multiple analytes. LCS/LCSduplicate RPD"s were also outliers for multiple analytes. Client sample -003 results for cyclohexane should be considered to be estimated and qualified with a J flag. The remaining associated analytes were non-detect so were not qualified based on the MS recovery high bias outliers.

GCMS VOC client sample detections for Tentatively Identified Compounds (TIC's) should be considered to be estimated and qualified with NJ flags.

GCMS VOC trip blank was non-detect for all target analytes.

Metals QC batch MS recovery outliers were not determined using samples from this submittal so qualification of client sample results was not required based on these sample-specific QC outliers.

Metals method blank had detections below the RL for calcium. Qualification of client sample results was not required based on these method blank detections.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
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 and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203361
Laboratory: Accutest Laboratories-Dayton
Laboratory Submittal: JB92906

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	GCMS VOC Volatiles	Metals by ICP Spectroscopy(D)	Metals by ICP Spectroscopy	Alkalinity in Water	Solids in Water, Dissolved	Carbon Dioxide and Forms of Alkalinity by Calculation	Nitrite in Water - Colorimetric	Nitrate-Nitrite - Cd Reduction	Inorganic Anions by IC
JB92906-1	OB-20A-042115	4/21/2015	9:25:00	X		X	X	X	X	X	X	X
JB92906-1F	OB-20A-042115	4/21/2015	9:25:00		X							
JB92906-2	TB-042115	4/21/2015	3:35:00	X								
JB92906-3	OB-20B-042115	4/21/2015	1:15:00	X		X	X	X	X	X	X	X
JB92906-3F	OB-20B-042115	4/21/2015	1:15:00		X							
JB92906-4	OB-27-042115	4/21/2015	3:35:00	X		X	X	X	X	X	X	X
JB92906-4F	OB-27-042115	4/21/2015	3:35:00		X							

Qualified Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92906

	Sample Name:	OB-20A-042115				TB-042115				OB-20B-042115				OB-27-042115			
	Lab Sample ID:	JB92906-1				JB92906-2				JB92906-3				JB92906-4			
	Sample Date:	4/21/2015				4/21/2015				4/21/2015				4/21/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1H-indene-dihydro-dimethyl- isomer - TIC	TIC11													9.0	0	ug/l	NJ
1H-indene-dihydro-dimethyl- isomer - TIC	TIC12													18	0	ug/l	NJ
1H-indene-dihydro-dimethyl- isomer - TIC	TIC13													10	0	ug/l	NJ
1H-indene-dihydro-dimethyl- isomer - TIC	TIC7													17	0	ug/l	NJ
1H-indene-dihydro-dimethyl- isomer - TIC	TIC8													17	0	ug/l	NJ
1H-Indene-dihydro-methyl- isomer - TIC	TIC3									5.5	0	ug/l	NJ				
1H-Indene-dihydro-methyl- isomer - TIC	TIC6													19	0	ug/l	NJ
1H-Indene-dihydro-trimethyl- isomer - TIC	TIC14													8.3	0	ug/l	NJ
1H-Indene-dihydro-trimethyl- isomer - TIC	TIC15													12	0	ug/l	NJ
2,3-Dihydro-1H-indene - TIC	496-11-7									5.6	0	ug/l	NJ	12	0	ug/l	NJ
C4 alkyl benzene - TIC	TIC3													10	0	ug/l	NJ
C4 alkyl benzene - TIC	TIC4													15	0	ug/l	NJ
C4 alkyl benzene - TIC	TIC5													17	0	ug/l	NJ
C5 alkyl benzene - TIC	TIC4									5.5	0	ug/l	NJ				
Cyclohexane	110-82-7									0.86	5.0	ug/l	J				
Naphthalene - TIC	91-20-3													22	0	ug/l	NJ
Naphthalene, methyl- isomer - TIC	TIC16													18	0	ug/l	NJ
system artifact - TIC	TIC1	100	0	ug/l	NJ	94	0	ug/l	NJ	97	0	ug/l	NJ	100	0	ug/l	NJ
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ
unknown - TIC	TIC10													9.6	0	ug/l	NJ
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ	0	0	ug/l	NJ	16.6	0	ug/l	NJ	213.9	0	ug/l	NJ

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92906

	Sample Name:	OB-20A-042115				OB-20A-042115				TB-042115				OB-20B-042115			
	Lab Sample ID:	JB92906-1				JB92906-1F				JB92906-2				JB92906-3			
	Sample Date:	4/21/2015				4/21/2015				4/21/2015				4/21/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1H-indene-dihydro-dimethyl- isomer - TIC	TIC11																
1H-indene-dihydro-dimethyl- isomer - TIC	TIC12																
1H-indene-dihydro-dimethyl- isomer - TIC	TIC13																
1H-indene-dihydro-dimethyl- isomer - TIC	TIC7																
1H-indene-dihydro-dimethyl- isomer - TIC	TIC8																
1H-Indene-dihydro-methyl- isomer - TIC	TIC3													5.5	0	ug/l	NJ
1H-Indene-dihydro-methyl- isomer - TIC	TIC6																
1H-Indene-dihydro-trimethyl- isomer - TIC	TIC14																
1H-Indene-dihydro-trimethyl- isomer - TIC	TIC15																
2,3-Dihydro-1H-indene - TIC	496-11-7													5.6	0	ug/l	NJ
2-Hexanone	591-78-6	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Acetone	67-64-1	ND	10	ug/l	---					ND	10	ug/l	---	ND	10	ug/l	---
Benzene	71-43-2	ND	0.50	ug/l	---					ND	0.50	ug/l	---	0.36	0.50	ug/l	J
Bromoform	75-25-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
C4 alkyl benzene - TIC	TIC3																
C4 alkyl benzene - TIC	TIC4																
C4 alkyl benzene - TIC	TIC5																
C5 alkyl benzene - TIC	TIC4													5.5	0	ug/l	NJ
Carbon disulfide	75-15-0	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Chlorobenzene	108-90-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Chloroform	67-66-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Cumene	98-82-8	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Cyclohexane	110-82-7	ND	5.0	ug/l	---					ND	5.0	ug/l	---	0.86	5.0	ug/l	J
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Ethyl chloride	75-00-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	2.4	1.0	ug/l	---
Ethylbenzene	100-41-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methyl acetate	79-20-9	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl bromide	74-83-9	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Methyl chloride	74-87-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methyl cyclohexane	108-87-2	ND	5.0	ug/l	---					ND	5.0	ug/l	---	0.59	5.0	ug/l	J
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---					ND	10	ug/l	---	ND	10	ug/l	---
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methylene chloride	75-09-2	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Naphthalene - TIC	91-20-3																
Naphthalene, methyl- isomer - TIC	TIC16																
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Styrene	100-42-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
system artifact - TIC	TIC1	100	0	ug/l	NJ					94	0	ug/l	NJ	97	0	ug/l	NJ
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Toluene	108-88-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ					0	0	ug/l	NJ	0	0	ug/l	NJ
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethylene	79-01-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
unknown - TIC	TIC10																
Vinyl chloride	75-01-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ					0	0	ug/l	NJ	16.6	0	ug/l	NJ
Xylene, total	1330-20-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92906

		Sample Name:	OB-20A-042115				OB-20A-042115				TB-042115				OB-20B-042115			
		Lab Sample ID:	JB92906-1				JB92906-1F				JB92906-2				JB92906-3			
		Sample Date:	4/21/2015				4/21/2015				4/21/2015				4/21/2015			
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**
Metals																		
OSW-6010C																		
	Calcium	7440-70-2	29900	5000	ug/l	---									61700	5000	ug/l	---
	Calcium - Dissolved	7440-70-2					29600	5000	ug/l	---								
	Iron	7439-89-6	26800	100	ug/l	---									46700	100	ug/l	---
	Iron - Dissolved	7439-89-6					26400	100	ug/l	---								
	Magnesium	7439-95-4	ND	5000	ug/l	---									11500	5000	ug/l	---
	Magnesium - Dissolved	7439-95-4					ND	5000	ug/l	---								
	Sodium	7440-23-5	ND	10000	ug/l	---									ND	10000	ug/l	---
	Sodium - Dissolved	7440-23-5					ND	10000	ug/l	---								
General Chemistry																		
APHA-2320																		
	Calcium carbonate	471-34-1	118	13	mg/l	---									230	13	mg/l	---
APHA-2540C																		
	Total dissolved solids	E-10173	144	10	mg/l	---									333	10	mg/l	---
APHA-4500-CO2-D																		
	Alkalinity, Bicarbonate	E-14508	118	5.0	mg/l	---									230	5.0	mg/l	---
APHA-4500-NO2-B																		
	Nitrate	14797-55-8	ND	0.11	mg/l	---									ND	0.11	mg/l	---
	Nitrite	14797-65-0	ND	0.010	mg/l	---									ND	0.010	mg/l	---
EMSLC-353.2																		
	nitrate/nitrite	E-10128	ND	0.10	mg/l	---									ND	0.10	mg/l	---
OSW-9056A																		
	Chloride	16887-00-6	2.2	2.0	mg/l	---									2.1	2.0	mg/l	---
	Sulfate	14808-79-8	ND	2.0	mg/l	---									ND	2.0	mg/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92906

		Sample Name:	OB-20B-042115				OB-27-042115				OB-27-042115			
		Lab Sample ID:	JB92906-3F				JB92906-4				JB92906-4F			
		Sample Date:	4/21/2015				4/21/2015				4/21/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC													
OSW-8260C													
1,1,1-Trichloroethane	71-55-6					ND	1.0	ug/l	---				
1,1,2,2-Tetrachloroethane	79-34-5					ND	1.0	ug/l	---				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1					ND	5.0	ug/l	---				
1,1,2-Trichloroethane	79-00-5					ND	1.0	ug/l	---				
1,1-Dichloroethane	75-34-3					ND	1.0	ug/l	---				
1,2,4-Trichlorobenzene	120-82-1					ND	1.0	ug/l	---				
1,2-Dibromo-3-chloropropane	96-12-8					ND	2.0	ug/l	---				
1,2-Dichloroethane	107-06-2					ND	1.0	ug/l	---				
1,2-Dichloropropane	78-87-5					ND	1.0	ug/l	---				
1,3-Dichlorobenzene	541-73-1					ND	1.0	ug/l	---				
1,4-Dichlorobenzene	106-46-7					ND	1.0	ug/l	---				
1.2-Dibromoethane	106-93-4					ND	1.0	ug/l	---				
1H-indene-dihydro-dimethyl- isomer - TIC	TIC11					9.0	0	ug/l	NJ				
1H-indene-dihydro-dimethyl- isomer - TIC	TIC12					18	0	ug/l	NJ				
1H-indene-dihydro-dimethyl- isomer - TIC	TIC13					10	0	ug/l	NJ				
1H-indene-dihydro-dimethyl- isomer - TIC	TIC7					17	0	ug/l	NJ				
1H-indene-dihydro-dimethyl- isomer - TIC	TIC8					17	0	ug/l	NJ				
1H-Indene-dihydro-methyl- isomer - TIC	TIC3												
1H-Indene-dihydro-methyl- isomer - TIC	TIC6					19	0	ug/l	NJ				
1H-Indene-dihydro-trimethyl- isomer - TIC	TIC14					8.3	0	ug/l	NJ				
1H-Indene-dihydro-trimethyl- isomer - TIC	TIC15					12	0	ug/l	NJ				
2,3-Dihydro-1H-indene - TIC	496-11-7					12	0	ug/l	NJ				
2-Hexanone	591-78-6					ND	5.0	ug/l	---				
Acetone	67-64-1					ND	10	ug/l	---				
Benzene	71-43-2					3.1	0.50	ug/l	---				
Bromoform	75-25-2					ND	1.0	ug/l	---				
C4 alkyl benzene - TIC	TIC3					10	0	ug/l	NJ				
C4 alkyl benzene - TIC	TIC4					15	0	ug/l	NJ				
C4 alkyl benzene - TIC	TIC5					17	0	ug/l	NJ				
C5 alkyl benzene - TIC	TIC4												
Carbon disulfide	75-15-0					ND	2.0	ug/l	---				
Carbon tetrachloride	56-23-5					ND	1.0	ug/l	---				
Chlorobenzene	108-90-7					ND	1.0	ug/l	---				
Chloroform	67-66-3					ND	1.0	ug/l	---				
cis-1,2-Dichloroethene	156-59-2					ND	1.0	ug/l	---				
cis-1,3-Dichloropropene	10061-01-5					ND	1.0	ug/l	---				
Cumene	98-82-8					3.4	1.0	ug/l	---				
Cyclohexane	110-82-7					1.8	5.0	ug/l	J				
Dibromochloromethane	124-48-1					ND	1.0	ug/l	---				
Dichlorobromomethane	75-27-4					ND	1.0	ug/l	---				
Dichlorodifluoromethane	75-71-8					ND	2.0	ug/l	---				
Ethyl chloride	75-00-3					87.2	1.0	ug/l	---				
Ethylbenzene	100-41-4					ND	1.0	ug/l	---				
Methyl acetate	79-20-9					ND	5.0	ug/l	---				
Methyl bromide	74-83-9					ND	2.0	ug/l	---				
Methyl chloride	74-87-3					ND	1.0	ug/l	---				
Methyl cyclohexane	108-87-2					1.1	5.0	ug/l	J				
Methyl ethyl ketone	78-93-3					ND	10	ug/l	---				
Methyl isobutyl ketone	108-10-1					ND	5.0	ug/l	---				
Methyl tert-butyl ether	1634-04-4					ND	1.0	ug/l	---				
Methylene chloride	75-09-2					ND	2.0	ug/l	---				
Naphthalene - TIC	91-20-3					22	0	ug/l	NJ				
Naphthalene, methyl- isomer - TIC	TIC16					18	0	ug/l	NJ				
o-Dichlorobenzene	95-50-1					ND	1.0	ug/l	---				
Styrene	100-42-5					ND	1.0	ug/l	---				
system artifact - TIC	TIC1					100	0	ug/l	NJ				
Tetrachloroethene	127-18-4					ND	1.0	ug/l	---				
Toluene	108-88-3					ND	1.0	ug/l	---				
Total Alkanes - TIC	TIC20					0	0	ug/l	NJ				
trans-1,2-Dichloroethene	156-60-5					ND	1.0	ug/l	---				
trans-1,3-Dichloropropene	10061-02-6					ND	1.0	ug/l	---				
Trichloroethylene	79-01-6					ND	1.0	ug/l	---				
Trichlorofluoromethane	75-69-4					ND	2.0	ug/l	---				
unknown - TIC	TIC10					9.6	0	ug/l	NJ				
Vinyl chloride	75-01-4					ND	1.0	ug/l	---				
Vinylidene chloride	75-35-4					ND	1.0	ug/l	---				
Volatile organic compounds - TIC	E-12419					213.9	0	ug/l	NJ				
Xylene, total	1330-20-7					ND	1.0	ug/l	---				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92906

		Sample Name:	OB-20B-042115				OB-27-042115				OB-27-042115			
		Lab Sample ID:	JB92906-3F				JB92906-4				JB92906-4F			
		Sample Date:	4/21/2015				4/21/2015				4/21/2015			
Analyte		**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
Metals														
OSW-6010C														
	Calcium	7440-70-2					42800	5000	ug/l	---				
	Calcium - Dissolved	7440-70-2	60000	5000	ug/l	---					42000	5000	ug/l	---
	Iron	7439-89-6					65200	100	ug/l	---				
	Iron - Dissolved	7439-89-6	44800	100	ug/l	---					61200	100	ug/l	---
	Magnesium	7439-95-4					5810	5000	ug/l	---				
	Magnesium - Dissolved	7439-95-4	11100	5000	ug/l	---					5770	5000	ug/l	---
	Sodium	7440-23-5					ND	10000	ug/l	---				
	Sodium - Dissolved	7440-23-5	ND	10000	ug/l	---					ND	10000	ug/l	---
General Chemistry														
APHA-2320														
	Calcium carbonate	471-34-1					152	13	mg/l	---				
APHA-2540C														
	Total dissolved solids	E-10173					256	20	mg/l	---				
APHA-4500-CO2-D														
	Alkalinity, Bicarbonate	E-14508					152	5.0	mg/l	---				
APHA-4500-NO2-B														
	Nitrate	14797-55-8					ND	0.11	mg/l	---				
	Nitrite	14797-65-0					ND	0.010	mg/l	---				
EMSLC-353.2														
	nitrate/nitrite	E-10128					ND	0.10	mg/l	---				
OSW-9056A														
	Chloride	16887-00-6					2.0	2.0	mg/l	---				
	Sulfate	14808-79-8					ND	2.0	mg/l	---				

May 12, 2015

Tim Roeper
Cornerstone EG
100 Crystal Run Road
Suite 101
Middletown, NY 10941

CADENA project ID: E203361
Project: Ford Ringwood Mines Project
Project number:
Laboratory: Accutest Laboratories - Dayton
Laboratory submittal: JB92926
Sample date: 2015-04-21
Report received by CADENA: 2015-05-08
Initial Data Verification completed by CADENA: 2015-05-12

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

2 Water sample(s) were analyzed for GCMS VOC, Metals and General Chemistry parameter(s). 1 Trip blank was analyzed for GCMS VOC parameters.

Sample/MS/MSD Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

GCMS VOC client sample detections for Tentatively Identified Compounds (TIC's) should be considered to be estimated and qualified with NJ flags.

GCMS VOC trip blank was non-detect for all target analytes.

GCMS VOC QC batch V4V694 MS recovery outliers were not determined using samples from this submittal so qualification of client sample results was not required based on these sample-specific QC outliers.

Metals method blank had detections below the RL for calcium. Qualification of client sample results was not required based on these method blank detections.

TDS, Chloride and Sulfate method blanks had detections below the RL. Client sample -001 and -002 chloride results should be considered to be non-detect at the concentration reported and qualified with B flags.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
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 and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203361
Laboratory: Accutest Laboratories-Dayton
Laboratory Submittal: JB92926

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	GCMS VOC Volatiles	Metals by ICP Spectroscopy(D)	Metals by ICP Spectroscopy	Alkalinity in Water	Solids in Water, Dissolved	Carbon Dioxide and Forms of Alkalinity by Calculation	Nitrite in Water - Colorimetric	Nitrate-Nitrite - Cd Reduction	Inorganic Anions by IC
JB92926-1	OB-11R-042115	4/21/2015	5:35:00	X		X	X	X	X	X	X	X
JB92926-1F	OB-11R-042115	4/21/2015	5:35:00		X							
JB92926-2	TB-02-042115	4/21/2015	7:20:00	X								
JB92926-3	RW-6A-042115	4/21/2015	7:20:00	X		X	X	X	X	X	X	X
JB92926-3F	RW-6A-042115	4/21/2015	7:20:00		X							

Qualified Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92926

	Sample Name:	OB-11R-042115				TB-02-042115				RW-6A-042115			
	Lab Sample ID:	JB92926-1				JB92926-2				JB92926-3			
	Sample Date:	4/21/2015				4/21/2015				4/21/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC													
OSW-8260C													
1H-indene-dihydro-dimethyl- isomer - TIC	TIC3	5.1	0	ug/l	NJ								
1H-Indene-dihydro-methyl- isomer - TIC	TIC2	6.0	0	ug/l	NJ								
1H-Indene-dihydro-methyl- isomer - TIC	TIC6									5.2	0	ug/l	NJ
1H-Indene-dihydro-methyl- isomer - TIC	TIC8									8.7	0	ug/l	NJ
2,3-Dihydro-1H-indene - TIC	496-11-7									14	0	ug/l	NJ
alcohols - TIC	TIC1	26	0	ug/l	NJ								
C4 alkyl benzene - TIC	TIC3									9.8	0	ug/l	NJ
C4 alkyl benzene - TIC	TIC4									9.7	0	ug/l	NJ
C4 alkyl benzene - TIC	TIC5									7.0	0	ug/l	NJ
C4 alkyl benzene - TIC	TIC7									8.2	0	ug/l	NJ
Cyclopentane, methyl- - TIC	96-37-7									6.9	0	ug/l	NJ
Naphthalene - TIC	91-20-3									10	0	ug/l	NJ
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ
Volatile organic compounds - TIC	E-12419	37.1	0	ug/l	NJ	0	0	ug/l	NJ	79.5	0	ug/l	NJ
General Chemistry													
OSW-9056A													
Chloride	16887-00-6	2.1	2.0	mg/l	B					2.8	2.0	mg/l	B

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92926

		Sample Name:	OB-11R-042115				OB-11R-042115				TB-02-042115			
		Lab Sample ID:	JB92926-1				JB92926-1F				JB92926-2			
		Sample Date:	4/21/2015				4/21/2015				4/21/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC													
OSW-8260C													
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
1H-indene-dihydro-dimethyl- isomer - TIC	TIC3	5.1	0	ug/l	NJ								
1H-Indene-dihydro-methyl- isomer - TIC	TIC2	6.0	0	ug/l	NJ								
1H-Indene-dihydro-methyl- isomer - TIC	TIC6												
1H-Indene-dihydro-methyl- isomer - TIC	TIC8												
2,3-Dihydro-1H-indene - TIC	496-11-7												
2-Hexanone	591-78-6	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Acetone	67-64-1	11.2	10	ug/l	---					ND	10	ug/l	---
alcohols - TIC	TIC1	26	0	ug/l	NJ								
Benzene	71-43-2	2.9	0.50	ug/l	---					ND	0.50	ug/l	---
Bromoform	75-25-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---
C4 alkyl benzene - TIC	TIC3												
C4 alkyl benzene - TIC	TIC4												
C4 alkyl benzene - TIC	TIC5												
C4 alkyl benzene - TIC	TIC7												
Carbon disulfide	75-15-0	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Chlorobenzene	108-90-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Chloroform	67-66-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Cumene	98-82-8	0.81	1.0	ug/l	J					ND	1.0	ug/l	---
Cyclohexane	110-82-7	2.2	5.0	ug/l	J					ND	5.0	ug/l	---
Cyclopentane, methyl- - TIC	96-37-7												
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Ethyl chloride	75-00-3	21.2	1.0	ug/l	---					ND	1.0	ug/l	---
Ethylbenzene	100-41-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Methyl acetate	79-20-9	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Methyl bromide	74-83-9	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Methyl chloride	74-87-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Methyl cyclohexane	108-87-2	0.44	5.0	ug/l	J					ND	5.0	ug/l	---
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---					ND	10	ug/l	---
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Methylene chloride	75-09-2	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Naphthalene - TIC	91-20-3												
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Styrene	100-42-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Toluene	108-88-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ					0	0	ug/l	NJ
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Trichloroethylene	79-01-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---					ND	2.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---
Volatile organic compounds - TIC	E-12419	37.1	0	ug/l	NJ					0	0	ug/l	NJ
Xylene, total	1330-20-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92926

		Sample Name:	OB-11R-042115				OB-11R-042115				TB-02-042115			
		Lab Sample ID:	JB92926-1				JB92926-1F				JB92926-2			
		Sample Date:	4/21/2015				4/21/2015				4/21/2015			
Analyte	**Cas No.**		**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
Metals														
OSW-6010C														
Calcium	7440-70-2		56300	5000	ug/l	---								
Calcium - Dissolved	7440-70-2						55400	5000	ug/l	---				
Iron	7439-89-6		70000	100	ug/l	---								
Iron - Dissolved	7439-89-6						68800	100	ug/l	---				
Magnesium	7439-95-4		7150	5000	ug/l	---								
Magnesium - Dissolved	7439-95-4						7100	5000	ug/l	---				
Sodium	7440-23-5		ND	10000	ug/l	---								
Sodium - Dissolved	7440-23-5						ND	10000	ug/l	---				
General Chemistry														
APHA-2320														
Calcium carbonate	471-34-1		205	13	mg/l	---								
APHA-2540C														
Total dissolved solids	E-10173		116	40	mg/l	---								
APHA-4500-CO2-D														
Alkalinity, Bicarbonate	E-14508		205	5.0	mg/l	---								
APHA-4500-NO2-B														
Nitrate	14797-55-8		ND	0.11	mg/l	---								
Nitrite	14797-65-0		ND	0.010	mg/l	---								
EMSLC-353.2														
nitrate/nitrite	E-10128		ND	0.10	mg/l	---								
OSW-9056A														
Chloride	16887-00-6		2.1	2.0	mg/l	B								
Sulfate	14808-79-8		ND	10	mg/l	---								

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92926

		Sample Name:	RW-6A-042115				RW-6A-042115			
		Lab Sample ID:	JB92926-3				JB92926-3F			
		Sample Date:	4/21/2015				4/21/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**		**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC										
OSW-8260C										
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---					
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---					
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---					
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---					
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---					
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---					
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---					
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---					
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---					
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---					
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---					
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---					
1H-indene-dihydro-dimethyl- isomer - TIC	TIC3									
1H-Indene-dihydro-methyl- isomer - TIC	TIC2									
1H-Indene-dihydro-methyl- isomer - TIC	TIC6	5.2	0	ug/l	NJ					
1H-Indene-dihydro-methyl- isomer - TIC	TIC8	8.7	0	ug/l	NJ					
2,3-Dihydro-1H-indene - TIC	496-11-7	14	0	ug/l	NJ					
2-Hexanone	591-78-6	ND	5.0	ug/l	---					
Acetone	67-64-1	ND	10	ug/l	---					
alcohols - TIC	TIC1									
Benzene	71-43-2	8.7	0.50	ug/l	---					
Bromoform	75-25-2	ND	1.0	ug/l	---					
C4 alkyl benzene - TIC	TIC3	9.8	0	ug/l	NJ					
C4 alkyl benzene - TIC	TIC4	9.7	0	ug/l	NJ					
C4 alkyl benzene - TIC	TIC5	7.0	0	ug/l	NJ					
C4 alkyl benzene - TIC	TIC7	8.2	0	ug/l	NJ					
Carbon disulfide	75-15-0	ND	2.0	ug/l	---					
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---					
Chlorobenzene	108-90-7	ND	1.0	ug/l	---					
Chloroform	67-66-3	ND	1.0	ug/l	---					
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---					
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---					
Cumene	98-82-8	8.5	1.0	ug/l	---					
Cyclohexane	110-82-7	4.2	5.0	ug/l	J					
Cyclopentane, methyl- - TIC	96-37-7	6.9	0	ug/l	NJ					
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---					
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---					
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---					
Ethyl chloride	75-00-3	2.3	1.0	ug/l	---					
Ethylbenzene	100-41-4	ND	1.0	ug/l	---					
Methyl acetate	79-20-9	ND	5.0	ug/l	---					
Methyl bromide	74-83-9	ND	2.0	ug/l	---					
Methyl chloride	74-87-3	ND	1.0	ug/l	---					
Methyl cyclohexane	108-87-2	1.5	5.0	ug/l	J					
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---					
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---					
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---					
Methylene chloride	75-09-2	ND	2.0	ug/l	---					
Naphthalene - TIC	91-20-3	10	0	ug/l	NJ					
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---					
Styrene	100-42-5	ND	1.0	ug/l	---					
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---					
Toluene	108-88-3	ND	1.0	ug/l	---					
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ					
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---					
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---					
Trichloroethylene	79-01-6	ND	1.0	ug/l	---					
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---					
Vinyl chloride	75-01-4	ND	1.0	ug/l	---					
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---					
Volatile organic compounds - TIC	E-12419	79.5	0	ug/l	NJ					
Xylene, total	1330-20-7	37.5	1.0	ug/l	---					

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB92926

		Sample Name:	RW-6A-042115				RW-6A-042115			
		Lab Sample ID:	JB92926-3				JB92926-3F			
		Sample Date:	4/21/2015				4/21/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
Metals									
OSW-6010C									
Calcium	7440-70-2	80700	5000	ug/l	---				
Calcium - Dissolved	7440-70-2					80700	5000	ug/l	---
Iron	7439-89-6	24000	100	ug/l	---				
Iron - Dissolved	7439-89-6					23800	100	ug/l	---
Magnesium	7439-95-4	18600	5000	ug/l	---				
Magnesium - Dissolved	7439-95-4					18700	5000	ug/l	---
Sodium	7440-23-5	ND	10000	ug/l	---				
Sodium - Dissolved	7440-23-5					ND	10000	ug/l	---
General Chemistry									
APHA-2320									
Calcium carbonate	471-34-1	332	13	mg/l	---				
APHA-2540C									
Total dissolved solids	E-10173	413	10	mg/l	---				
APHA-4500-CO2-D									
Alkalinity, Bicarbonate	E-14508	332	5.0	mg/l	---				
APHA-4500-NO2-B									
Nitrate	14797-55-8	ND	0.11	mg/l	---				
Nitrite	14797-65-0	ND	0.010	mg/l	---				
EMSLC-353.2									
nitrate/nitrite	E-10128	ND	0.10	mg/l	---				
OSW-9056A									
Chloride	16887-00-6	2.8	2.0	mg/l	B				
Sulfate	14808-79-8	ND	10	mg/l	---				

May 12, 2015

Tim Roeper
Cornerstone EG
100 Crystal Run Road
Suite 101
Middletown, NY 10941

CADENA project ID: E203361
Project: Ford Ringwood Mines Project
Project number:
Laboratory: Accutest Laboratories - Dayton
Laboratory submittal: JB93030
Sample date: 2015-04-22
Report received by CADENA: 2015-05-08
Initial Data Verification completed by CADENA: 2015-05-12

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

4 Ground water sample(s) were analyzed for GCMS VOC, Metals and General Chemistry parameter(s).
5 Surface water and 1 trip blank sample(s) were analyzed for GCMS VOC parameter(s).

Sample/MS/MSD Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

GCMS VOC client sample detections for Tentatively Identified Compounds (TIC's) should be considered to be estimated and qualified with NJ flags.

GCMS VOC trip blank was non-detect for all target analytes.

GCMS VOC sample -002 MS/MSD RPD was an outlier for chloromethane. Qualification of client sample results was not required based on this QC outlier alone.

Nitrate-Nitrite QC batch MS recovery outliers were not determined using samples from this submittal so qualification of client sample results was not required based on these sample-specific QC outliers.

Chloride and Sulfate method blanks had detections below the RL. Qualification of client sample results was not required based on these method blank detections.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
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 and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203361
Laboratory: Accutest Laboratories-Dayton
Laboratory Submittal: JB93030

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	GCMS VOC Volatiles	Metals by ICP Spectroscopy(D)	Metals by ICP Spectroscopy	Alkalinity in Water	Solids in Water, Dissolved	Carbon Dioxide and Forms of Alkalinity by Calculation	Nitrite in Water - Colorimetric	Nitrate-Nitrite - Cd Reduction	Inorganic Anions by IC
JB93030-1	TB-042215	4/22/2015	4:30:00	X								
JB93030-10	SW-PAB-00-042215	4/22/2015	4:30:00	X								
JB93030-2	SC-1-042215	4/22/2015	10:10:00	X		X	X	X	X	X	X	X
JB93030-2F	SC-1-042215	4/22/2015	10:10:00		X							
JB93030-3	DUP-042215	4/22/2015	12:00:00	X		X	X	X	X	X	X	X
JB93030-3F	DUP-042215	4/22/2015	12:00:00		X							
JB93030-4	PMP-POND-042215	4/22/2015	10:30:00	X								
JB93030-5	RW-6-042215	4/22/2015	12:50:00	X		X	X	X	X	X	X	X
JB93030-5F	RW-6-042215	4/22/2015	12:50:00		X							
JB93030-6	SW-PAB-01A-042215	4/22/2015	3:00:00	X								
JB93030-7	SR-3-SEEP-1-042215	4/22/2015	3:25:00	X								
JB93030-8	SW-PAB-01-042215	4/22/2015	3:40:00	X								
JB93030-9	PMP-50-042215	4/22/2015	3:40:00	X		X	X	X	X	X	X	X
JB93030-9F	PMP-50-042215	4/22/2015	3:40:00		X							

Qualified Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

	Sample Name:	TB-042215				SW-PAB-00-042215				SC-1-042215				DUP-042215				PMP-POND-042215				RW-6-042215				SW-PAB-01A-042215				SR-3-SEEP-1-042215				SW-PAB-01-042215				PMP-50-042215			
	Lab Sample ID:	JB93030-1				JB93030-10				JB93030-2				JB93030-3				JB93030-4				JB93030-5				JB93030-6				JB93030-7				JB93030-8				JB93030-9			
	Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015				4/22/2015				4/22/2015				4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**	**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 VOC																																											
OSW-8260C																																											
2,3-Dihydro-1H-indene - TIC	496-11-7									5.3	0	ug/l	NJ	5.2	0	ug/l	NJ																										
C3 alkyl benzene - TIC	TIC1									6.5	0	ug/l	NJ	6.1	0	ug/l	NJ																										
C4 alkyl benzene - TIC	TIC3									6.3	0	ug/l	NJ	6.0	0	ug/l	NJ																										
C4 alkyl benzene - TIC	TIC4									5.3	0	ug/l	NJ	5.0	0	ug/l	NJ																										
C4 alkyl benzene - TIC	TIC5									8.5	0	ug/l	NJ	8.1	0	ug/l	NJ																										
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ	0	0	ug/l	NJ	31.9	0	ug/l	NJ	30.4	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	TB-042215				SW-PAB-00-042215				SC-1-042215				SC-1-042215			
		Lab Sample ID:	JB93030-1				JB93030-10				JB93030-2				JB93030-2F			
		Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---				
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---				
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
2,3-Dihydro-1H-indene - TIC	496-11-7									5.3	0	ug/l	NJ				
2-Hexanone	591-78-6	ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---				
Acetone	67-64-1	ND	10	ug/l	---	ND	10	ug/l	---	ND	10	ug/l	---				
Benzene	71-43-2	ND	0.50	ug/l	---	ND	0.50	ug/l	---	1.7	0.50	ug/l	---				
Bromoform	75-25-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
C3 alkyl benzene - TIC	TIC1									6.5	0	ug/l	NJ				
C4 alkyl benzene - TIC	TIC3									6.3	0	ug/l	NJ				
C4 alkyl benzene - TIC	TIC4									5.3	0	ug/l	NJ				
C4 alkyl benzene - TIC	TIC5									8.5	0	ug/l	NJ				
Carbon disulfide	75-15-0	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---				
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Chlorobenzene	108-90-7	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.30	1.0	ug/l	J				
Chloroform	67-66-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Cumene	98-82-8	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.9	1.0	ug/l	---				
Cyclohexane	110-82-7	ND	5.0	ug/l	---	ND	5.0	ug/l	---	1.7	5.0	ug/l	J				
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---				
Ethyl chloride	75-00-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.8	1.0	ug/l	---				
Ethylbenzene	100-41-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	3.3	1.0	ug/l	---				
Methyl acetate	79-20-9	ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---				
Methyl bromide	74-83-9	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---				
Methyl chloride	74-87-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Methyl cyclohexane	108-87-2	ND	5.0	ug/l	---	ND	5.0	ug/l	---	1.6	5.0	ug/l	J				
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---	ND	10	ug/l	---	ND	10	ug/l	---				
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---				
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Methylene chloride	75-09-2	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---				
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Styrene	100-42-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Toluene	108-88-3	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.48	1.0	ug/l	J				
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ				
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Trichloroethylene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---				
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---				
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ	0	0	ug/l	NJ	31.9	0	ug/l	NJ				
Xylene, total	1330-20-7	ND	1.0	ug/l	---	ND	1.0	ug/l	---	75.6	1.0	ug/l	---				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	TB-042215				SW-PAB-00-042215				SC-1-042215				SC-1-042215			
		Lab Sample ID:	JB93030-1				JB93030-10				JB93030-2				JB93030-2F			
		Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**
Metals																		
OSW-6010C																		
	Calcium	7440-70-2									41000	5000	ug/l	---				
	Calcium - Dissolved	7440-70-2													41600	5000	ug/l	---
	Iron	7439-89-6									84200	100	ug/l	---				
	Iron - Dissolved	7439-89-6													85800	100	ug/l	---
	Magnesium	7439-95-4									ND	5000	ug/l	---				
	Magnesium - Dissolved	7439-95-4													ND	5000	ug/l	---
	Sodium	7440-23-5									ND	10000	ug/l	---				
	Sodium - Dissolved	7440-23-5													ND	10000	ug/l	---
General Chemistry																		
APHA-2320																		
	Calcium carbonate	471-34-1									165	13	mg/l	---				
APHA-2540C																		
	Total dissolved solids	E-10173									160	25	mg/l	---				
APHA-4500-CO2-D																		
	Alkalinity, Bicarbonate	E-14508									165	5.0	mg/l	---				
APHA-4500-NO2-B																		
	Nitrate	14797-55-8									ND	0.11	mg/l	---				
	Nitrite	14797-65-0									ND	0.010	mg/l	---				
EMSLC-353.2																		
	nitrate/nitrite	E-10128									ND	0.10	mg/l	---				
OSW-9056A																		
	Chloride	16887-00-6									2.0	2.0	mg/l	---				
	Sulfate	14808-79-8									ND	10	mg/l	---				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	DUP-042215				DUP-042215				PMP-POND-042215				RW-6-042215			
		Lab Sample ID:	JB93030-3				JB93030-3F				JB93030-4				JB93030-5			
		Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	0.50	1.0	ug/l	J
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
2,3-Dihydro-1H-indene - TIC	496-11-7	5.2	0	ug/l	NJ												
2-Hexanone	591-78-6	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Acetone	67-64-1	ND	10	ug/l	---					ND	10	ug/l	---	ND	10	ug/l	---
Benzene	71-43-2	1.8	0.50	ug/l	---					ND	0.50	ug/l	---	2.2	0.50	ug/l	---
Bromoform	75-25-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
C3 alkyl benzene - TIC	TIC1	6.1	0	ug/l	NJ												
C4 alkyl benzene - TIC	TIC3	6.0	0	ug/l	NJ												
C4 alkyl benzene - TIC	TIC4	5.0	0	ug/l	NJ												
C4 alkyl benzene - TIC	TIC5	8.1	0	ug/l	NJ												
Carbon disulfide	75-15-0	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Chlorobenzene	108-90-7	0.33	1.0	ug/l	J					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Chloroform	67-66-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Cumene	98-82-8	1.8	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Cyclohexane	110-82-7	1.6	5.0	ug/l	J					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Ethyl chloride	75-00-3	1.7	1.0	ug/l	---					ND	1.0	ug/l	---	1.7	1.0	ug/l	---
Ethylbenzene	100-41-4	3.3	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methyl acetate	79-20-9	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl bromide	74-83-9	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Methyl chloride	74-87-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methyl cyclohexane	108-87-2	1.6	5.0	ug/l	J					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---					ND	10	ug/l	---	ND	10	ug/l	---
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methylene chloride	75-09-2	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Styrene	100-42-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Toluene	108-88-3	0.44	1.0	ug/l	J					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ					0	0	ug/l	NJ	0	0	ug/l	NJ
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethylene	79-01-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---					ND	2.0	ug/l	---	ND	2.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---
Volatile organic compounds - TIC	E-12419	30.4	0	ug/l	NJ					0	0	ug/l	NJ	0	0	ug/l	NJ
Xylene, total	1330-20-7	73.5	1.0	ug/l	---					ND	1.0	ug/l	---	ND	1.0	ug/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	DUP-042215				DUP-042215				PMP-POND-042215				RW-6-042215			
		Lab Sample ID:	JB93030-3				JB93030-3F				JB93030-4				JB93030-5			
		Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**
Metals																	
OSW-6010C																	
Calcium	7440-70-2	41400	5000	ug/l	---									73100	5000	ug/l	---
Calcium - Dissolved	7440-70-2					42400	5000	ug/l	---								
Iron	7439-89-6	84400	100	ug/l	---									40400	100	ug/l	---
Iron - Dissolved	7439-89-6					87000	100	ug/l	---								
Magnesium	7439-95-4	ND	5000	ug/l	---									12400	5000	ug/l	---
Magnesium - Dissolved	7439-95-4					ND	5000	ug/l	---								
Sodium	7440-23-5	ND	10000	ug/l	---									ND	10000	ug/l	---
Sodium - Dissolved	7440-23-5					ND	10000	ug/l	---								
General Chemistry																	
APHA-2320																	
Calcium carbonate	471-34-1	159	13	mg/l	---									254	13	mg/l	---
APHA-2540C																	
Total dissolved solids	E-10173	103	25	mg/l	---									285	25	mg/l	---
APHA-4500-CO2-D																	
Alkalinity, Bicarbonate	E-14508	159	5.0	mg/l	---									253	5.0	mg/l	---
APHA-4500-NO2-B																	
Nitrate	14797-55-8	ND	0.11	mg/l	---									ND	0.11	mg/l	---
Nitrite	14797-65-0	ND	0.010	mg/l	---									ND	0.010	mg/l	---
EMSLC-353.2																	
nitrate/nitrite	E-10128	ND	0.10	mg/l	---									ND	0.10	mg/l	---
OSW-9056A																	
Chloride	16887-00-6	2.0	2.0	mg/l	---									11.2	2.0	mg/l	---
Sulfate	14808-79-8	ND	10	mg/l	---									ND	10	mg/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

	Sample Name:	RW-6-042215				SW-PAB-01A-042215				SR-3-SEEP-1-042215				SW-PAB-01-042215			
	Lab Sample ID:	JB93030-5F				JB93030-6				JB93030-7				JB93030-8			
	Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1,1,1-Trichloroethane	71-55-6					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1					ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
1,1,2-Trichloroethane	79-00-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2,4-Trichlorobenzene	120-82-1					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2-Dibromo-3-chloropropane	96-12-8					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---
1,2-Dichloroethane	107-06-2					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
1.2-Dibromoethane	106-93-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
2,3-Dihydro-1H-indene - TIC	496-11-7																
2-Hexanone	591-78-6					ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Acetone	67-64-1					ND	10	ug/l	---	ND	10	ug/l	---	ND	10	ug/l	---
Benzene	71-43-2					ND	0.50	ug/l	---	ND	0.50	ug/l	---	ND	0.50	ug/l	---
Bromoform	75-25-2					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
C3 alkyl benzene - TIC	TIC1																
C4 alkyl benzene - TIC	TIC3																
C4 alkyl benzene - TIC	TIC4																
C4 alkyl benzene - TIC	TIC5																
Carbon disulfide	75-15-0					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---
Carbon tetrachloride	56-23-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Chlorobenzene	108-90-7					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Chloroform	67-66-3					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Cumene	98-82-8					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Cyclohexane	110-82-7					ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Dibromochloromethane	124-48-1					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Dichlorobromomethane	75-27-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---
Ethyl chloride	75-00-3					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Ethylbenzene	100-41-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methyl acetate	79-20-9					ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl bromide	74-83-9					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---
Methyl chloride	74-87-3					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methyl cyclohexane	108-87-2					ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl ethyl ketone	78-93-3					ND	10	ug/l	---	ND	10	ug/l	---	ND	10	ug/l	---
Methyl isobutyl ketone	108-10-1					ND	5.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Methyl tert-butyl ether	1634-04-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Methylene chloride	75-09-2					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---
o-Dichlorobenzene	95-50-1					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Styrene	100-42-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Toluene	108-88-3					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Total Alkanes - TIC	TIC20					0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ
trans-1,2-Dichloroethene	156-60-5					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethylene	79-01-6					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---
Vinyl chloride	75-01-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinylidene chloride	75-35-4					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Volatile organic compounds - TIC	E-12419					0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ
Xylene, total	1330-20-7					ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	RW-6-042215				SW-PAB-01A-042215				SR-3-SEEP-1-042215				SW-PAB-01-042215			
		Lab Sample ID:	JB93030-5F				JB93030-6				JB93030-7				JB93030-8			
		Sample Date:	4/22/2015				4/22/2015				4/22/2015				4/22/2015			
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**
Metals																		
OSW-6010C																		
	Calcium	7440-70-2																
	Calcium - Dissolved	7440-70-2	70900	5000	ug/l	---												
	Iron	7439-89-6																
	Iron - Dissolved	7439-89-6	33200	100	ug/l	---												
	Magnesium	7439-95-4																
	Magnesium - Dissolved	7439-95-4	12000	5000	ug/l	---												
	Sodium	7440-23-5																
	Sodium - Dissolved	7440-23-5	ND	10000	ug/l	---												
General Chemistry																		
APHA-2320																		
	Calcium carbonate	471-34-1																
APHA-2540C																		
	Total dissolved solids	E-10173																
APHA-4500-CO2-D																		
	Alkalinity, Bicarbonate	E-14508																
APHA-4500-NO2-B																		
	Nitrate	14797-55-8																
	Nitrite	14797-65-0																
EMSLC-353.2																		
	nitrate/nitrite	E-10128																
OSW-9056A																		
	Chloride	16887-00-6																
	Sulfate	14808-79-8																

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	PMP-50-042215			PMP-50-042215			
		Lab Sample ID:	JB93030-9			JB93030-9F			
		Sample Date:	4/22/2015			4/22/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC									
OSW-8260C									
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---				
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---				
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---				
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---				
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---				
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---				
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---				
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---				
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---				
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---				
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---				
2,3-Dihydro-1H-indene - TIC	496-11-7								
2-Hexanone	591-78-6	ND	5.0	ug/l	---				
Acetone	67-64-1	ND	10	ug/l	---				
Benzene	71-43-2	ND	0.50	ug/l	---				
Bromoform	75-25-2	ND	1.0	ug/l	---				
C3 alkyl benzene - TIC	TIC1								
C4 alkyl benzene - TIC	TIC3								
C4 alkyl benzene - TIC	TIC4								
C4 alkyl benzene - TIC	TIC5								
Carbon disulfide	75-15-0	ND	2.0	ug/l	---				
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---				
Chlorobenzene	108-90-7	ND	1.0	ug/l	---				
Chloroform	67-66-3	ND	1.0	ug/l	---				
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---				
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---				
Cumene	98-82-8	ND	1.0	ug/l	---				
Cyclohexane	110-82-7	ND	5.0	ug/l	---				
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---				
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---				
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---				
Ethyl chloride	75-00-3	ND	1.0	ug/l	---				
Ethylbenzene	100-41-4	ND	1.0	ug/l	---				
Methyl acetate	79-20-9	ND	5.0	ug/l	---				
Methyl bromide	74-83-9	ND	2.0	ug/l	---				
Methyl chloride	74-87-3	ND	1.0	ug/l	---				
Methyl cyclohexane	108-87-2	ND	5.0	ug/l	---				
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---				
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---				
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---				
Methylene chloride	75-09-2	ND	2.0	ug/l	---				
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---				
Styrene	100-42-5	ND	1.0	ug/l	---				
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---				
Toluene	108-88-3	ND	1.0	ug/l	---				
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ				
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---				
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---				
Trichloroethylene	79-01-6	ND	1.0	ug/l	---				
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---				
Vinyl chloride	75-01-4	ND	1.0	ug/l	---				
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---				
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ				
Xylene, total	1330-20-7	ND	1.0	ug/l	---				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93030

		Sample Name:	PMP-50-042215				PMP-50-042215			
		Lab Sample ID:	JB93030-9				JB93030-9F			
		Sample Date:	4/22/2015				4/22/2015			
Analyte		**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
Metals										
OSW-6010C										
	Calcium	7440-70-2	ND	5000	ug/l	---				
	Calcium - Dissolved	7440-70-2					ND	5000	ug/l	---
	Iron	7439-89-6	253	100	ug/l	---				
	Iron - Dissolved	7439-89-6					496	100	ug/l	---
	Magnesium	7439-95-4	ND	5000	ug/l	---				
	Magnesium - Dissolved	7439-95-4					ND	5000	ug/l	---
	Sodium	7440-23-5	ND	10000	ug/l	---				
	Sodium - Dissolved	7440-23-5					ND	10000	ug/l	---
General Chemistry										
APHA-2320										
	Calcium carbonate	471-34-1	33.1	13	mg/l	---				
APHA-2540C										
	Total dissolved solids	E-10173	ND	10	mg/l	---				
APHA-4500-CO2-D										
	Alkalinity, Bicarbonate	E-14508	33.1	5.0	mg/l	---				
APHA-4500-NO2-B										
	Nitrate	14797-55-8	ND	0.11	mg/l	---				
	Nitrite	14797-65-0	ND	0.010	mg/l	---				
EMSLC-353.2										
	nitrate/nitrite	E-10128	ND	0.10	mg/l	---				
OSW-9056A										
	Chloride	16887-00-6	ND	2.0	mg/l	---				
	Sulfate	14808-79-8	ND	10	mg/l	---				

May 12, 2015

Tim Roeper
Cornerstone EG
100 Crystal Run Road
Suite 101
Middletown, NY 10941

CADENA project ID: E203361
Project: Ford Ringwood Mines Project
Project number:
Laboratory: Accutest Laboratories - Dayton
Laboratory submittal: JB93282
Sample date: 2015-04-24
Report received by CADENA: 2015-05-12
Initial Data Verification completed by CADENA: 2015-05-12

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

2 Water sample(s) were analyzed for GCMS VOC, Metals and General Chemistry parameter(s). 1 Trip blank was analyzed for GCMS VOC parameters.

Sample/MS/MSD Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

GCMS VOC client sample detections for Tentatively Identified Compounds (TIC's) should be considered to be estimated and qualified with NJ flags.

GCMS VOC trip blank was non-detect for all target analytes.

Nitrate/nitrite QC batch sample duplicate RPD outliers were not determined using samples from this submittal so qualification of client sample results was not required based on these sample-specific QC outliers.

Metals method blank had detections below the RL for calcium and iron. Qualification of client sample results was not required based on these method blank detections.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia, Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
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 and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203361
Laboratory: Accutest Laboratories-Dayton
Laboratory Submittal: JB93282

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	GCMS VOC Volatiles	Metals by ICP Spectroscopy(D)	Metals by ICP Spectroscopy	Alkalinity in Water	Solids in Water, Dissolved	Carbon Dioxide and Forms of Alkalinity by Calculation	Nitrite in Water - Colorimetric	Nitrate-Nitrite - Cd Reduction	Inorganic Anions by IC
JB93282-1	PMP-180-042415	4/24/2015	11:00:00	X		X	X	X	X	X	X	X
JB93282-1F	PMP-180-042415	4/24/2015	11:00:00		X							
JB93282-2	PMP-230-042415	4/24/2015	12:30:00	X		X	X	X	X	X	X	X
JB93282-2F	PMP-230-042415	4/24/2015	12:30:00		X							
JB93282-3	TRIP BLANK 4-23-15	4/24/2015	12:30:00	X								

Qualified Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93282

	Sample Name:	PMP-180-042415				PMP-230-042415				TRIP BLANK 4-23-15			
	Lab Sample ID:	JB93282-1				JB93282-2				JB93282-3			
	Sample Date:	4/24/2015				4/24/2015				4/24/2015			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC													
OSW-8260C													
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ	0	0	ug/l	NJ	0	0	ug/l	NJ

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93282

		Sample Name:	PMP-180-042415				PMP-180-042415				PMP-230-042415				PMP-230-042415			
		Lab Sample ID:	JB93282-1				JB93282-1F				JB93282-2				JB93282-2F			
		Sample Date:	4/24/2015				4/24/2015				4/24/2015				4/24/2015			
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**
GC/MS VOC																	
OSW-8260C																	
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---				
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---					0.75	1.0	ug/l	J				
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---				
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---					0.51	1.0	ug/l	J				
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
2-Hexanone	591-78-6	ND	5.0	ug/l	---					ND	5.0	ug/l	---				
Acetone	67-64-1	ND	10	ug/l	---					ND	10	ug/l	---				
Benzene	71-43-2	2.3	0.50	ug/l	---					7.8	0.50	ug/l	---				
Bromoform	75-25-2	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Carbon disulfide	75-15-0	ND	2.0	ug/l	---					ND	2.0	ug/l	---				
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Chlorobenzene	108-90-7	0.49	1.0	ug/l	J					1.4	1.0	ug/l	---				
Chloroform	67-66-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---					0.61	1.0	ug/l	J				
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Cumene	98-82-8	0.64	1.0	ug/l	J					1.8	1.0	ug/l	---				
Cyclohexane	110-82-7	0.42	5.0	ug/l	J					1.3	5.0	ug/l	J				
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---					ND	2.0	ug/l	---				
Ethyl chloride	75-00-3	7.9	1.0	ug/l	---					29.1	1.0	ug/l	---				
Ethylbenzene	100-41-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Methyl acetate	79-20-9	ND	5.0	ug/l	---					ND	5.0	ug/l	---				
Methyl bromide	74-83-9	ND	2.0	ug/l	---					ND	2.0	ug/l	---				
Methyl chloride	74-87-3	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Methyl cyclohexane	108-87-2	ND	5.0	ug/l	---					0.37	5.0	ug/l	J				
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---					ND	10	ug/l	---				
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---					ND	5.0	ug/l	---				
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Methylene chloride	75-09-2	ND	2.0	ug/l	---					ND	2.0	ug/l	---				
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Styrene	100-42-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Toluene	108-88-3	ND	1.0	ug/l	---					0.20	1.0	ug/l	J				
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ					0	0	ug/l	NJ				
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Trichloroethylene	79-01-6	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---					ND	2.0	ug/l	---				
Vinyl chloride	75-01-4	ND	1.0	ug/l	---					0.43	1.0	ug/l	J				
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---					ND	1.0	ug/l	---				
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ					0	0	ug/l	NJ				
Xylene, total	1330-20-7	ND	1.0	ug/l	---					0.83	1.0	ug/l	J				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93282

		Sample Name:	PMP-180-042415				PMP-180-042415				PMP-230-042415				PMP-230-042415		
		Lab Sample ID:	JB93282-1				JB93282-1F				JB93282-2				JB93282-2F		
		Sample Date:	4/24/2015				4/24/2015				4/24/2015				4/24/2015		
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**
Metals																	
OSW-6010C																	
Calcium	7440-70-2	57000	5000	ug/l	---					25300	5000	ug/l	---				
Calcium - Dissolved	7440-70-2					58600	5000	ug/l	---					23800	5000	ug/l	---
Iron	7439-89-6	91600	100	ug/l	---					38000	100	ug/l	---				
Iron - Dissolved	7439-89-6					93600	100	ug/l	---					35800	100	ug/l	---
Magnesium	7439-95-4	ND	5000	ug/l	---					ND	5000	ug/l	---				
Magnesium - Dissolved	7439-95-4					ND	5000	ug/l	---					ND	5000	ug/l	---
Sodium	7440-23-5	ND	10000	ug/l	---					ND	10000	ug/l	---				
Sodium - Dissolved	7440-23-5					ND	10000	ug/l	---					ND	10000	ug/l	---
General Chemistry																	
APHA-2320																	
Calcium carbonate	471-34-1	239	13	mg/l	---					96.8	13	mg/l	---				
APHA-2540C																	
Total dissolved solids	E-10173	203	25	mg/l	---					118	17	mg/l	---				
APHA-4500-CO2-D																	
Alkalinity, Bicarbonate	E-14508	239	5.0	mg/l	---					96.8	5.0	mg/l	---				
APHA-4500-NO2-B																	
Nitrate	14797-55-8	0.43	0.11	mg/l	---					ND	0.11	mg/l	---				
Nitrite	14797-65-0	ND	0.010	mg/l	---					ND	0.010	mg/l	---				
EMSLC-353.2																	
nitrate/nitrite	E-10128	0.43	0.10	mg/l	---					ND	0.10	mg/l	---				
OSW-9056A																	
Chloride	16887-00-6	2.5	2.0	mg/l	---					ND	2.0	mg/l	---				
Sulfate	14808-79-8	ND	10	mg/l	---					ND	10	mg/l	---				

Analytical Results Summary

CADENA Project ID: E203361
Laboratory: Accutest Laboratories - Dayton
Laboratory Submittal: JB93282

Sample Name: TRIP BLANK 4-23-15
Lab Sample ID: JB93282-3
Sample Date: 4/24/2015

Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC					
OSW-8260C					
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---
1,2-Dibromo-3-chloropropane	96-12-8	ND	2.0	ug/l	---
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---
1.2-Dibromoethane	106-93-4	ND	1.0	ug/l	---
2-Hexanone	591-78-6	ND	5.0	ug/l	---
Acetone	67-64-1	ND	10	ug/l	---
Benzene	71-43-2	ND	0.50	ug/l	---
Bromoform	75-25-2	ND	1.0	ug/l	---
Carbon disulfide	75-15-0	ND	2.0	ug/l	---
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---
Chlorobenzene	108-90-7	ND	1.0	ug/l	---
Chloroform	67-66-3	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---
Cumene	98-82-8	ND	1.0	ug/l	---
Cyclohexane	110-82-7	ND	5.0	ug/l	---
Dibromochloromethane	124-48-1	ND	1.0	ug/l	---
Dichlorobromomethane	75-27-4	ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	2.0	ug/l	---
Ethyl chloride	75-00-3	ND	1.0	ug/l	---
Ethylbenzene	100-41-4	ND	1.0	ug/l	---
Methyl acetate	79-20-9	ND	5.0	ug/l	---
Methyl bromide	74-83-9	ND	2.0	ug/l	---
Methyl chloride	74-87-3	ND	1.0	ug/l	---
Methyl cyclohexane	108-87-2	ND	5.0	ug/l	---
Methyl ethyl ketone	78-93-3	ND	10	ug/l	---
Methyl isobutyl ketone	108-10-1	ND	5.0	ug/l	---
Methyl tert-butyl ether	1634-04-4	ND	1.0	ug/l	---
Methylene chloride	75-09-2	ND	2.0	ug/l	---
o-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---
Styrene	100-42-5	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---
Toluene	108-88-3	ND	1.0	ug/l	---
Total Alkanes - TIC	TIC20	0	0	ug/l	NJ
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---
Trichloroethylene	79-01-6	ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4	ND	2.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---
Vinylidene chloride	75-35-4	ND	1.0	ug/l	---
Volatile organic compounds - TIC	E-12419	0	0	ug/l	NJ
Xylene, total	1330-20-7	ND	1.0	ug/l	---