



Sample Description: WCC @ Little league field Grab Surface Water
White Clay Creek

LL Sample # WW 8145140
LL Group # 1611340
Account # 12242

Project Name: White Clay Creek

Collected: 11/19/2015 13:54 by SK WC Environmental, LLC
1085C Andrew Drive
Submitted: 11/20/2015 18:43 West Chester PA 19830
Reported: 11/25/2015 16:51

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	1.1	0.25	5
00228	Sulfate	14808-79-8	8.5	1.5	5
		EPA 365.1	mg/l	mg/l	
00227	Total Phosphorus as P (water)	7723-14-0	0.12	0.050	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/16.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15325667901A	11/21/2015 10:41	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15325667901A	11/21/2015 10:41	Drew M Gerhart	5
00227	Total Phosphorus as P (water)	EPA 365.1	1	15328109101A	11/25/2015 14:51	Venia B McFadden	1

Sample Description: WCC @ Rosehill Ave by bridge Grab Surface Water
White Clay Creek

LL Sample # WW 8145141
LL Group # 1611340
Account # 12242

Project Name: White Clay Creek

Collected: 11/19/2015 13:59 by SK WC Environmental, LLC
1085C Andrew Drive
Submitted: 11/20/2015 18:43 West Chester PA 19830
Reported: 11/25/2015 16:51

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	1.2	0.25	5
00228	Sulfate	14808-79-8	8.0	1.5	5
		EPA 365.1	mg/l	mg/l	
00227	Total Phosphorus as P (water)	7723-14-0	0.096 J	0.050	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/16.

Reference ID:
1611340251115165049

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15325667901A	11/21/2015 10:56	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15325667901A	11/21/2015 10:56	Drew M Gerhart	5
00227	Total Phosphorus as P (water)	EPA 365.1	1	15328109101A	11/25/2015 14:52	Venia B McFadden	1

Sample Description: WCC @ Lake Rd/Balt. Pike Grab Surface Water
White Clay Creek

LL Sample # WW 8145142
LL Group # 1611340
Account # 12242

Project Name: White Clay Creek

Collected: 11/19/2015 14:05 by SK

WC Environmental, LLC
1085C Andrew Drive
West Chester PA 19830

Submitted: 11/20/2015 18:43

Reported: 11/25/2015 16:51

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	1.4	0.25	5
00228	Sulfate	14808-79-8	57.4	1.5	5
		EPA 365.1	mg/l	mg/l	
00227	Total Phosphorus as P (water)	7723-14-0	0.32	0.050	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/16.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15325667901A	11/21/2015 11:10	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15325667901A	11/21/2015 11:10	Drew M Gerhart	5
00227	Total Phosphorus as P (water)	EPA 365.1	1	15328109101A	11/25/2015 14:54	Venia B McFadden	1

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 12242 Group # 1611340 Sample # 8145140-42

Client: WC Environmental, LLC				Matrix				Analyses Requested												For Lab Use Only			
Project Name/#: White Clay Creek		Site ID #:		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Other:	Water	Other:	Total # of Containers	Preservation Codes												SF #: _____			
Project Manager: Russ Phifer		P.O. #: 11- 19- 15																		SCR #: _____			
Sampler: Shane Kinsey		PWSID #:																		Preservation Codes			
Phone #: 610-322-0657		Quote #: 213707A																		H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other			
State where sample(s) were collected: PA				Collection		Soil	Water	Other:	Total # of Containers	Nitrites, sulfates, total K, BC	DOC											Remarks	
Sample Identification		Date	Time	Grab	Composite																		
White Clay Creek @ Little league field			1:54PM	x				1														not preserved, but	
White Clay Creek @ Rosehill Ave by bridge			1:59PM	x				1														refrigerated.	
White Clay Creek @ Lake Rd/Balt. Pike			2:05PM	x				1														No temp bottle available	
Turnaround Time Requested (TAT) (please check): Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> <p>(Rush TAT is subject to laboratory approval and surcharges.)</p>				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
Date results are needed: 11/25/15				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
E-mail Address: <u>rphifer@wcalenvironmental.com</u>				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
Phone: 610-322-0657				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
Data Package Options (please check if required) Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/> Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/> Type IV (CLP SOW) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/> Type VI (Raw Data Only) <input type="checkbox"/>				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____				Relinquished by: _____			Date	Time	Received by: _____			Date	Time										
				Relinquished by Commercial Carrier: _____					Temperature upon receipt: <u>0.4</u> °C														
				UPS _____ FedEx _____ Other _____																			

Client: WC Environmental

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 11/20/2015 18:43
 Number of Packages: 1 Number of Projects: 1
 State/Province of Origin: PA

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 19:07 on 11/20/2015

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp)* All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.4	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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