October 3, 2014

Mr. Lance Norris
Public Works Director
Public Works
Town of Chapel Hill
6850 Millhouse Road
Chapel Hill, NC 27516-8173
lnorris@townofchapelhill.org

Re: Responses to NC DENR September 19, 2014 Letter
828 Martin Luther King Jr Blvd, Chapel Hill NC
Site ID # NONCD0001486
PN E13047

Dear Mr. Norris:

Falcon Engineering, Inc. (Falcon) is in receipt of the September 19, 2014 letter from Ms. Amy Axon with the Division of Waste Management of NC DENR. This letter has been provided as Attachment A to this letter for reference. Falcon staff has reviewed the comments and a request provided by Ms. Axon and provides the following information in response.

Responses to Report Review Comments

1. The Environmental Site Characterization document (3/25/2014) Tables 4 and 6 have been updated and are attached to reflect the Inactive Hazardous Waste Branch's Preliminary Soil Remediation Goal (PSRG) rather than the NC DENR Maximum Soil Contaminant Concentrations (MSCC). Table 5 was not impacted by this change and has therefore not been updated. While some of the regulatory values have changed the material impact remains unchanged that these materials are consistent with Coal Combustion Products (CCP) and are above remedial goals within the six (6) soil sampling locations provided for several constituents, specifically Hexavalent Chromium, Arsenic, Barium, Selenium, and Toxaphene. These updated Tables are provided within Attachment B.

2. The Updated Groundwater Sampling Report (9/2/2014) was missing the two chains of custodies from the lab reports. These missing pages have been provided within Attachment C.

3. Based upon the NC DENR request, Falcon was under the understanding that if turbidity levels were high within the monitoring wells (as evidenced by the provided turbidity samples), then filtered samples should be collected. Since unfiltered samples were already provided for these wells, it was understood that these unfiltered samples were not being requested. These monitoring wells have a very low recharge rate so collection of both filtered and unfiltered samples, during the same sampling mobilization, is not possible. MW-4 unfiltered samples were

collected on August 15 and 20, 2014. The full lab reports for both August 15 and 20, 2014 are attached within Attachment C.

4. All wells were purged dry twice prior to sample collection. Based upon Groundwater Sampling Procedures, as outlined within the U. S. Environmental Protection Agency (USEPA) Region IV Science And Ecosystem Support Division (SESD) *Field Branches Quality System and Technical Procedures,* specifically Sections 3.2.1.1.2 and 3.2.1.1.3, these wells do not exhibit signs of becoming stable following purging. Pursuant to this guidance, turbidity was shown to be above 10 NTUs and therefore not stabilized, however Section 3.2.1.1.3 indicates that adequacy of purging can be evidenced by these wells being purged dry. Excerpts from this guidance are provided within Attachment D.

5. Trigon Drilling, a certified well drilling company, provided all drilling services for MW-3 and MW-4. The well construction records are being corrected per the comments. Comments and updates on these records will be provided by Trigon Drilling under separate cover to The Town of Chapel Hill.

6. Question #5 of the Site Conditions Questionnaire was answered based upon the filtered samples from both MW-3 and MW-4. MW-1 is installed directly within the contaminant area and is up gradient of groundwater flow. MW-3 and MW-4 provide more adequate evaluation of groundwater impacts as these would be more indicative of an off-property groundwater sample. To adequately determine impact to groundwater from an exposure risk model on-site groundwater samples that are collected within the source area are not appropriate risk indicators.

Response to Request for Additional Information

1. As mentioned previously all sampling records from August 15 and 20, 2014 have been included for information. Again it was not Falcon's understanding that NC DENR desired these additional non-filtered results. Full lab results are provided in Attachment C.

2. These previously installed wells were installed by a certified well driller (Trigon Drilling) and based upon our conversations, these wells were installed in compliance with NCAC Title 15A, Subchapter 2C, Section .0100. Due to existing site conditions, alternative well construction methods will be used when these wells are reconstructed. These current wells will be properly abandoned to eliminate any cross contamination. All proposed well construction methods will be provided to NC DENR prior to reconstruction.

3. As requested, once MW-3 and MW-4 have been reconstructed, sampling will be completed for metals in groundwater (including MW-1). All sampling will continue to adhere to and follow NC DENR and US EPA guidance for sampling of groundwater. Turbidity readings will be collected and no sampling completed until acceptable turbidity can be achieved.

4. As requested a work plan will be prepared and submitted to NC DENR for review and approval prior to completion of the above requested items. Falcon will coordinate with Town of Chapel Hill staff for submission of this work plan.

This site continues to employ engineered controls to restrict access and prevent soil runoff from this site. These measures have been and will continue to remain in place to ensure this site does not pose a risk to human health or the environment. Based upon their current conditions, these measures continue to remain adequate and effective.

If you have any questions, please give me a call at (919) 871-0800.

Sincerely,
FALCON ENGINEERING, INC.

Josh Dunbar, PE
Director of Design Services

Enclosures

ATTACHMENT A | SEPTEMBER 19, 2014 NC DENR LETTER

RECEIVED SEP 2 2 2014

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

September 19, 2014

Roger L. Stancil, Town Manager
Town of Chapel Hill
405 Martin Luther King Jr. Blvd
Chapel Hill NC 27514

Re: Chapel Hill Police Department Property
828 Martin Luther King Jr Blvd, Chapel Hill, Orange County, NC
Site ID# NONCD0001486

- Phase I & Limited Phase II Environmental Site Assessment (7/18/13)
- Environmental Site Characterization (3/25/14)
- Updated Groundwater Sampling Report and Site Conditions Questionnaire (9/2/14)

Dear Mr. Stancil:

I have completed a review of the above referenced documents and have the following observations and comments:

1. In the Environmental Site Characterization document (3/25/14) Tables 4, 5 and 6 provide Maximum Soil Contaminant Concentrations for soil to groundwater, Residential and Commercial. The concentrations cited are not applicable. Refer to the Inactive Hazardous Waste Branch; Soil Remediation Goals Table located here http://portal.ncdenr.org/web/wm/sf/ihs/ihsguide.

2. The Updated Groundwater Sampling Report (9/2/14) was incomplete. The lab sheets for each sample event were missing the last page. Also, no chain of custody was included.

3. During sample collection for metals it is important to ensure that the turbidity of the water is low in order to get an accurate analysis of transmittable metals in the aquifer. During the August 20 sample collection event, no turbidity reading was provided for MW-4, nor was a pre-filter sample collected from either monitoring well. Therefore, the sample results from this event cannot be compared to cleanup standards.

4. We did not find that field parameters, such as temp, pH, turbidity and Specific Conductivity were taken at the time of sample collection to show adequate well purging prior to sampling.

5. The well drilling records (GW-1 forms) for MW-3 and MW-4, provided in the Environmental Site Characterization document (3/25/14), are inaccurate and incomplete. For example, the records for MW-3 do not have any information on the depth and length of the casing and for MWW-4, the record states that the casing is 9'2" deep, which is the total depth of the well. Also, there is no mention of a

bentonite seal, which is required in the annular space directly in contact and above the packing material. Due to these incorrect records, we cannot tell if the wells were constructed in compliance with NCAC Title 15A, Subchapter 2C, Section .0100. The well construction details mentioned here have direct bearing on the ability to properly purge and obtain a non-turbid sample.

6. In response to Question #5 in the Site Conditions Questionnaire, you state that site groundwater has been confirmed to not be impacted. However, results from MW-1 show exceedances of the 15A NCAC 2L standards. Also, as indicated above, the latest sample results from MW-4 and MW-3 are not valid for comparison to standards.

Based on the comments above, we will need the following information to evaluate whether the site requires any remediation:

1. Please submit all sample analysis, all lab sheets, field notes and copies of the chain of custody documents related to the sampling efforts on August 15 and 20, 2014.

2. Due to the incorrect well drilling records for MW-3 and MW-4, which are necessary to show proper construction, along with the ongoing turbidity issues and low recharge of these wells, it is recommended that you construct new monitoring wells that comply with NCAC Title 15A, Subchapter 2C, Section .0100 well construction standards. Please ensure that you use a certified well driller that properly constructs and accurately documents the details of the new monitoring wells. Due to potential turbidity problems at the site, you may want to use a finer packing material, such as a #1 or #00 sand pack and a smaller slot size for the screen. Also, MW-3 and MW-4 should be properly abandoned in accordance with these standards so that they do not act as a source of contamination.

3. Once the new monitoring wells have been installed and properly developed, collect groundwater samples from all of the monitoring wells (including MW-1) in order to determine the levels of total metals in the groundwater. Prior to collection of the samples, turbidity readings should be collected. If turbidity is elevated a sample should not be collected. Additional well development and other procedures may be necessary. Please be sure to follow the US EPA Region IV Science and Ecosystem Support Division Field Branches Quality System and Technical Procedures as referenced in Section 2 of the *Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup* located on our website.

4. We recommend that you prepare a work plan for our review prior to conducting this work.

Until it has been determined that the site is not posing risk to human health or the environment, you must control site access and take measures to prevent soil run off. If you have any questions, please do not hesitate to contact me at (919) 707-8371 or via email at amy.axon@ncdenr.gov.

Sincerely,

Amy Axon, Hydrogeologist
Division of Waste Management, NCDENR

cc: Curtis Brooks, Town of Chapel Hill
Josh Dunbar, Falcon Engineering

ATTACHMENT B | UPDATED TABLES

TABLE 4 | SUMMARY OF COMPOSITE SOIL SAMPLING LAB RESULTS

Constituent of Potential Concern (COPC)	Units	Sampling Locations			Preliminary Soil Remediation Goal (PSRG)		
		S-5	S-6	S-7	Protection of GW	Residential	Industrial
Hexavalent Chromium	mg/kg	**1.3**	**2.7**	**1.4**	3.8	0.30	6.3
Mercury	mg/kg	0.3	0.42	0.44	1.0	1.9	3.1
Arsenic	mg/kg	**37**	**43**	**44**	5.8	0.67	3.0
Barium	mg/kg	**2,800**	**3,200**	**2,500**	580	3,000	44,000
Chromium	mg/kg	21	22	29	360,000	24,000	100,000
Lead	mg/kg	10	12	11	270	400	800
Selenium	mg/kg	**3.2**	**6.1**	**4.5**	2.1	78	1,200
4-Isopropyltoluene	mg/kg	0.051	ND	0.024	0.68	NA	NA
Acetone	mg/kg	0.14	0.17	0.11	24	12,000	100,000
Methyl Ethyl Ketone (2-Butanone)	mg/kg	BRL	0.0086	BRL	16	5,400	28,000
Toxaphene	mg/kg	BRL	BRL	**0.17**	0.046	0.48	2.1

NOTES:
*Values shown in **BOLD** are above the most stringent of the applicable PSRG*
BRL = Below Reporting Limit
NA = Not applicable. No PSRG for this constituent
PSRG based on September 2014 PSRG Table
Values that are underlined are values that were revised from the 3/25/14 Report

TABLE 5 | SUMMARY OF GEOPROBE COLLECTED DATA

Geoprobe Location ID	Final Boring Depth (ft bgs)	Depths Ash Present (ft bgs)	Soil Sampling Depth (ft bgs)	Notes
GP-1	14	9 - 12	8 - 12	Refusal at 14 ft bgs into weathered rock
GP-2	35	5 - 30	26 - 28	Refusal at 35 ft bgs
GP-3	17	10 - 16	10 - 12	Refusal at 17 ft bgs due to possible landfill debris
GP-4	20	3 - 16	10 - 12	Into native soils at 17 ft bgs
GP-5-A	8	4 - 8	No Samples	Refusal from wood debris at 8 ft bgs
GP-5	12	4 - 8	Sampled 4 - 6	Refusal at 12 ft bgs
GP-6	26	11 - 23	9 - 11	Into native soils at 24 ft bgs
GP-7	20	3 - 14	10 - 12	Into native soils at 16 ft bgs
GP-8	17	5 - 15	11 - 15	Into native soils at 16 ft bgs
GP-9	8	-	No Samples	Into native soils at 4 ft bgs / No ash observed
GP-10	8	-	No Samples	Into native soils at 1 ft bgs / No ash observed
GP-11	9	3 - 9	4 - 6	Refusal at 9 ft bgs
GP-12	12	2 - 10	2 - 4	Into native soils at 11 ft bgs

TABLE 6 | SUMMARY OF GEOPROBE SOIL SAMPLE LAB RESULTS

Constituent of Potential Concern (COPC)	Units	Sampling Locations			Preliminary Soil Remediation Goal (PSRG)		
		GP-1	GP-2	GP-3	Protection of Ground Water	Residential	Commercial
Mercury	mg/kg	0.083	0.24	0.42	1.0	1.9	3.1
Arsenic	mg/kg	**3.5**	**41**	**48**	5.8	0.67	3.0
Barium	mg/kg	86	**1,100**	**1,200**	580	3,000	44,000
Chromium	mg/kg	8.8	19	23	360,000	24,000	100,000
Lead	mg/kg	26	11	39	270	400	800
Selenium	mg/kg	BRL	**4**	BRL	2.1	78	1200
Hexavalent Chromium	mg/kg	BRL	BRL	**0.53**	3.8	0.30	6.3

NOTES:
Values shown in **Bold** are above the most stringent of the applicable PRSG
BRL = Below Reporting Limit
NA = Not applicable. No PSRG for this constituent
PSRG based on September 2014 PSRG Table
Values that are underlined are values that were revised from the 3/25/14 Report

ATTACHMENT C | LABORATORY DATA

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

09/03/2014

Falcon Engineering
Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Lab Submittal Date: 08/18/2014
Prism Work Order: 4080360

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash

VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash

President/Project Manager

Data Qualifiers Key Reference:

A	% recovery within QC limits but below RL.
Aa	CCV result is above range on the secondary confirmation column. Results are reported from the primary column. Analyte was not detected. No further action taken.
Ab	ECV is above range on the secondary confrimation column. Results are reported from the primary column. Sample is BDL. No further action taken.
HT	Sample received and analyzed outside of the hold time.
LCD2	LCS/LCSD RPD Value outside of the control limits. LCS and LCSD Values within the control limits.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

09/03/2014

Prism Work Order: 4080360

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Well 1	4080360-01	Water	08/15/14	08/18/14
MW-4	4080360-02	Water	08/15/14	08/18/14

Samples were received in good condition at 1.6 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

09/03/2014

Prism Work Order: 4080360

Prism ID	Client ID	Parameter	Method	Result		Units
4080360-01	Well 1	Hexavalent Chromium	*SM3500-Cr B	0.030	HT	mg/L
4080360-01	Well 1	Turbidity	*180.1	1500	HT	NTU
4080360-01	Well 1	Arsenic	*6010C	0.051		mg/L
4080360-01	Well 1	Barium	*6010C	0.83		mg/L
4080360-01	Well 1	Chromium	*6010C	0.078		mg/L
4080360-01	Well 1	Lead	*6010C	0.030		mg/L
4080360-02	MW-4	Turbidity	*180.1	310	HT	NTU

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: Well 1
Prism Sample ID: 4080360-01
Prism Work Order: 4080360
Time Collected: 08/15/14 10:30
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Hexavalent Chromium	**0.030 HT**	**mg/L**	**0.010**	**0.0026**	**1**	***SM3500-Cr B**	**8/19/14 16:15**	**CDE**	**P4H0343**
Turbidity	**1500 HT**	**NTU**	**40**	**0.64**	**40**	***180.1**	**8/19/14 15:00**	**CDE**	**P4H0340**
Organochlorine Pesticides by GC/ECD									
4,4'-DDD	BRL Ab	ug/L	0.062	0.0045	1	8081B	9/3/14 2:41	JMV	P4H0369
4,4'-DDE	BRL	ug/L	0.062	0.0048	1	8081B	9/3/14 2:41	JMV	P4H0369
4,4'-DDT	BRL Ab	ug/L	0.062	0.026	1	8081B	9/3/14 2:41	JMV	P4H0369
Aldrin	BRL	ug/L	0.062	0.013	1	8081B	9/3/14 2:41	JMV	P4H0369
alpha-BHC	BRL	ug/L	0.062	0.0055	1	8081B	9/3/14 2:41	JMV	P4H0369
cis-Chlordane	BRL	ug/L	0.062	0.0088	1	8081B	9/3/14 2:41	JMV	P4H0369
beta-BHC	BRL	ug/L	0.062	0.0082	1	8081B	9/3/14 2:41	JMV	P4H0369
Chlordane	BRL	ug/L	0.62	0.20	1	8081B	9/3/14 2:41	JMV	P4H0369
delta-BHC	BRL	ug/L	0.062	0.0041	1	8081B	9/3/14 2:41	JMV	P4H0369
Dieldrin	BRL Ab	ug/L	0.062	0.0058	1	8081B	9/3/14 2:41	JMV	P4H0369
Endosulfan I	BRL	ug/L	0.062	0.010	1	8081B	9/3/14 2:41	JMV	P4H0369
Endosulfan II	BRL Ab	ug/L	0.062	0.0059	1	8081B	9/3/14 2:41	JMV	P4H0369
Endosulfan Sulfate	BRL Ab	ug/L	0.062	0.0059	1	8081B	9/3/14 2:41	JMV	P4H0369
Endrin	BRL Ab	ug/L	0.062	0.0058	1	8081B	9/3/14 2:41	JMV	P4H0369
Endrin Aldehyde	BRL Ab	ug/L	0.062	0.0066	1	8081B	9/3/14 2:41	JMV	P4H0369
Endrin Ketone	BRL Ab	ug/L	0.062	0.0054	1	8081B	9/3/14 2:41	JMV	P4H0369
gamma-BHC	BRL	ug/L	0.062	0.0061	1	8081B	9/3/14 2:41	JMV	P4H0369
trans-Chlordane	BRL	ug/L	0.062	0.0075	1	8081B	9/3/14 2:41	JMV	P4H0369
Heptachlor	BRL	ug/L	0.062	0.0096	1	8081B	9/3/14 2:41	JMV	P4H0369
Heptachlor Epoxide	BRL	ug/L	0.062	0.0058	1	8081B	9/3/14 2:41	JMV	P4H0369
Methoxychlor	BRL Ab	ug/L	0.062	0.011	1	8081B	9/3/14 2:41	JMV	P4H0369
Toxaphene	BRL Aa	ug/L	0.62	0.19	1	8081B	9/3/14 2:41	JMV	P4H0369
			Surrogate			Recovery		Control Limits	
			Decachlorobiphenyl			*72 %*		*13-186*	
			Tetrachloro-m-xylene			*63 %*		*40-134*	
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	ug/L	0.56	0.15	1	8082A	8/19/14 13:08	JMV	P4H0279
Aroclor 1221	BRL	ug/L	1.1	0.12	1	8082A	8/19/14 13:08	JMV	P4H0279
Aroclor 1232	BRL	ug/L	0.56	0.18	1	8082A	8/19/14 13:08	JMV	P4H0279
Aroclor 1242	BRL	ug/L	0.56	0.16	1	8082A	8/19/14 13:08	JMV	P4H0279
Aroclor 1248	BRL	ug/L	0.56	0.16	1	8082A	8/19/14 13:08	JMV	P4H0279
Aroclor 1254	BRL	ug/L	0.56	0.18	1	8082A	8/19/14 13:08	JMV	P4H0279
Aroclor 1260	BRL	ug/L	0.56	0.21	1	8082A	8/19/14 13:08	JMV	P4H0279
			Surrogate			Recovery		Control Limits	
			Tetrachloro-m-xylene			*73 %*		*30-161*	
			Decachlorobiphenyl			*35 %*		*32-178*	
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.2	1	8270D	8/20/14 17:14	KC	P4H0313

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: Well 1
Prism Sample ID: 4080360-01
Prism Work Order: 4080360
Time Collected: 08/15/14 10:30
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/20/14 17:14	KC	P4H0313
1-Methylnaphthalene	BRL	ug/L	10	2.5	1	8270D	8/20/14 17:14	KC	P4H0313
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/20/14 17:14	KC	P4H0313
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/20/14 17:14	KC	P4H0313
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/20/14 17:14	KC	P4H0313
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/20/14 17:14	KC	P4H0313
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/20/14 17:14	KC	P4H0313
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/20/14 17:14	KC	P4H0313
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/20/14 17:14	KC	P4H0313
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/20/14 17:14	KC	P4H0313
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/20/14 17:14	KC	P4H0313
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/20/14 17:14	KC	P4H0313
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/20/14 17:14	KC	P4H0313
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/20/14 17:14	KC	P4H0313
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/20/14 17:14	KC	P4H0313
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/20/14 17:14	KC	P4H0313
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/20/14 17:14	KC	P4H0313
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/20/14 17:14	KC	P4H0313
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/20/14 17:14	KC	P4H0313
4-Nitrophenol	BRL	ug/L	10	2.6	1	8270D	8/20/14 17:14	KC	P4H0313
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/20/14 17:14	KC	P4H0313
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/20/14 17:14	KC	P4H0313
Aniline	BRL	ug/L	10	2.2	1	8270D	8/20/14 17:14	KC	P4H0313
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/20/14 17:14	KC	P4H0313
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/20/14 17:14	KC	P4H0313
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/20/14 17:14	KC	P4H0313
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/20/14 17:14	KC	P4H0313
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/20/14 17:14	KC	P4H0313
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/20/14 17:14	KC	P4H0313
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/20/14 17:14	KC	P4H0313
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/20/14 17:14	KC	P4H0313
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/20/14 17:14	KC	P4H0313
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/20/14 17:14	KC	P4H0313
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: Well 1
Prism Sample ID: 4080360-01
Prism Work Order: 4080360
Time Collected: 08/15/14 10:30
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/20/14 17:14	KC	P4H0313
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/20/14 17:14	KC	P4H0313
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/20/14 17:14	KC	P4H0313
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/20/14 17:14	KC	P4H0313
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/20/14 17:14	KC	P4H0313
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/20/14 17:14	KC	P4H0313
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/20/14 17:14	KC	P4H0313
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/20/14 17:14	KC	P4H0313
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/20/14 17:14	KC	P4H0313
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/20/14 17:14	KC	P4H0313
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/20/14 17:14	KC	P4H0313
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/20/14 17:14	KC	P4H0313
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/20/14 17:14	KC	P4H0313
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/20/14 17:14	KC	P4H0313
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/20/14 17:14	KC	P4H0313
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/20/14 17:14	KC	P4H0313
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/20/14 17:14	KC	P4H0313
Phenol	BRL	ug/L	10	2.2	1	8270D	8/20/14 17:14	KC	P4H0313
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/20/14 17:14	KC	P4H0313

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*100 %*	*49-109*
2-Fluorobiphenyl	*93 %*	*55-96*
2-Fluorophenol	*57 %*	*27-74*
Nitrobenzene-d5	*89 %*	*53-99*
Phenol-d5	*35 %*	*11-52*
Terphenyl-d14	*96 %*	*42-133*

Total Metals

Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	8/21/14 12:23	BGM	P4H0355
Arsenic	**0.051**	**mg/L**	**0.010**	**0.0012**	**1**	***6010C**	**8/27/14 20:12**	**BGM**	**P4H0393**
Barium	**0.83**	**mg/L**	**0.010**	**0.0025**	**1**	***6010C**	**8/27/14 20:12**	**BGM**	**P4H0393**
Cadmium	BRL	mg/L	0.0010	0.000044	1	*6010C	8/27/14 20:12	BGM	P4H0393
Chromium	**0.078**	**mg/L**	**0.0050**	**0.00038**	**1**	***6010C**	**8/27/14 20:12**	**BGM**	**P4H0393**
Lead	**0.030**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**8/27/14 20:12**	**BGM**	**P4H0393**
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	8/27/14 20:12	BGM	P4H0393
Silver	BRL	mg/L	0.0050	0.00024	1	*6010C	8/27/14 20:12	BGM	P4H0393

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	8/20/14 19:30	VHL	P4H0368

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: Well 1
Prism Sample ID: 4080360-01
Prism Work Order: 4080360
Time Collected: 08/15/14 10:30
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	8/20/14 19:30	VHL	P4H0368
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	8/20/14 19:30	VHL	P4H0368
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	8/20/14 19:30	VHL	P4H0368
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	8/20/14 19:30	VHL	P4H0368
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	8/20/14 19:30	VHL	P4H0368
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	8/20/14 19:30	VHL	P4H0368
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	8/20/14 19:30	VHL	P4H0368
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	8/20/14 19:30	VHL	P4H0368
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	8/20/14 19:30	VHL	P4H0368
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	8/20/14 19:30	VHL	P4H0368
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	8/20/14 19:30	VHL	P4H0368
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/20/14 19:30	VHL	P4H0368
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	8260B	8/20/14 19:30	VHL	P4H0368
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	8/20/14 19:30	VHL	P4H0368
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	8/20/14 19:30	VHL	P4H0368
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	8/20/14 19:30	VHL	P4H0368
Acetone	BRL	ug/L	5.0	0.62	1	8260B	8/20/14 19:30	VHL	P4H0368
Acrolein	BRL	ug/L	20	1.1	1	8260B	8/20/14 19:30	VHL	P4H0368
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	8/20/14 19:30	VHL	P4H0368
Benzene	BRL	ug/L	0.50	0.072	1	8260B	8/20/14 19:30	VHL	P4H0368
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	8/20/14 19:30	VHL	P4H0368
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	8/20/14 19:30	VHL	P4H0368
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	8/20/14 19:30	VHL	P4H0368
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/20/14 19:30	VHL	P4H0368
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	8/20/14 19:30	VHL	P4H0368
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/20/14 19:30	VHL	P4H0368
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	8/20/14 19:30	VHL	P4H0368
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	8/20/14 19:30	VHL	P4H0368
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	8/20/14 19:30	VHL	P4H0368
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	8/20/14 19:30	VHL	P4H0368
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	8/20/14 19:30	VHL	P4H0368
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	8/20/14 19:30	VHL	P4H0368
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	8/20/14 19:30	VHL	P4H0368
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	8/20/14 19:30	VHL	P4H0368
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	8/20/14 19:30	VHL	P4H0368

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: Well 1
Prism Sample ID: 4080360-01
Prism Work Order: 4080360
Time Collected: 08/15/14 10:30
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	8/20/14 19:30	VHL	P4H0368
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	8/20/14 19:30	VHL	P4H0368
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/20/14 19:30	VHL	P4H0368
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	8/20/14 19:30	VHL	P4H0368
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	8/20/14 19:30	VHL	P4H0368
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	8/20/14 19:30	VHL	P4H0368
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/20/14 19:30	VHL	P4H0368
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/20/14 19:30	VHL	P4H0368
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/20/14 19:30	VHL	P4H0368
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	8/20/14 19:30	VHL	P4H0368
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	8/20/14 19:30	VHL	P4H0368
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	8/20/14 19:30	VHL	P4H0368
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	8/20/14 19:30	VHL	P4H0368
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	8/20/14 19:30	VHL	P4H0368
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	8/20/14 19:30	VHL	P4H0368
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	8/20/14 19:30	VHL	P4H0368
Styrene	BRL	ug/L	0.50	0.047	1	8260B	8/20/14 19:30	VHL	P4H0368
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	8/20/14 19:30	VHL	P4H0368
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	8/20/14 19:30	VHL	P4H0368
Toluene	BRL	ug/L	0.50	0.042	1	8260B	8/20/14 19:30	VHL	P4H0368
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	8/20/14 19:30	VHL	P4H0368
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	8/20/14 19:30	VHL	P4H0368
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	8/20/14 19:30	VHL	P4H0368
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	8/20/14 19:30	VHL	P4H0368
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	8/20/14 19:30	VHL	P4H0368
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	8/20/14 19:30	VHL	P4H0368

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*99 %*	*80-124*
Dibromofluoromethane	*121 %*	*75-129*
Toluene-d8	*111 %*	*77-123*

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 4080360-02
Prism Work Order: 4080360
Time Collected: 08/15/14 14:00
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Turbidity	**310 HT**	**NTU**	**10**	**0.16**	**10**	***180.1**	**8/19/14 15:00**	**CDE**	**P4H0340**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	15	3.4	1	8270D	8/20/14 17:35	KC	P4H0313
1,2-Dichlorobenzene	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
1,3-Dichlorobenzene	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
1,4-Dichlorobenzene	BRL	ug/L	15	3.1	1	8270D	8/20/14 17:35	KC	P4H0313
1-Methylnaphthalene	BRL	ug/L	15	3.8	1	8270D	8/20/14 17:35	KC	P4H0313
2,4,5-Trichlorophenol	BRL	ug/L	15	3.8	1	8270D	8/20/14 17:35	KC	P4H0313
2,4,6-Trichlorophenol	BRL	ug/L	15	3.6	1	8270D	8/20/14 17:35	KC	P4H0313
2,4-Dichlorophenol	BRL	ug/L	15	3.8	1	8270D	8/20/14 17:35	KC	P4H0313
2,4-Dimethylphenol	BRL	ug/L	15	3.8	1	8270D	8/20/14 17:35	KC	P4H0313
2,4-Dinitrophenol	BRL	ug/L	15	3.6	1	8270D	8/20/14 17:35	KC	P4H0313
2,4-Dinitrotoluene	BRL	ug/L	15	1.5	1	8270D	8/20/14 17:35	KC	P4H0313
2,6-Dinitrotoluene	BRL	ug/L	15	2.5	1	8270D	8/20/14 17:35	KC	P4H0313
2-Chloronaphthalene	BRL	ug/L	15	3.5	1	8270D	8/20/14 17:35	KC	P4H0313
2-Chlorophenol	BRL	ug/L	15	3.3	1	8270D	8/20/14 17:35	KC	P4H0313
2-Methylnaphthalene	BRL	ug/L	15	4.0	1	8270D	8/20/14 17:35	KC	P4H0313
2-Methylphenol	BRL	ug/L	15	3.7	1	8270D	8/20/14 17:35	KC	P4H0313
2-Nitroaniline	BRL	ug/L	15	3.0	1	8270D	8/20/14 17:35	KC	P4H0313
2-Nitrophenol	BRL	ug/L	15	3.8	1	8270D	8/20/14 17:35	KC	P4H0313
3,3'-Dichlorobenzidine	BRL	ug/L	15	1.5	1	8270D	8/20/14 17:35	KC	P4H0313
3/4-Methylphenol	BRL	ug/L	15	3.6	1	8270D	8/20/14 17:35	KC	P4H0313
3-Nitroaniline	BRL	ug/L	15	2.0	1	8270D	8/20/14 17:35	KC	P4H0313
4,6-Dinitro-2-methylphenol	BRL	ug/L	15	4.1	1	8270D	8/20/14 17:35	KC	P4H0313
4-Bromophenyl phenyl ether	BRL	ug/L	15	2.7	1	8270D	8/20/14 17:35	KC	P4H0313
4-Chloro-3-methylphenol	BRL	ug/L	15	3.5	1	8270D	8/20/14 17:35	KC	P4H0313
4-Chloroaniline	BRL	ug/L	15	3.9	1	8270D	8/20/14 17:35	KC	P4H0313
4-Chlorophenyl phenyl ether	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
4-Nitroaniline	BRL	ug/L	15	1.4	1	8270D	8/20/14 17:35	KC	P4H0313
4-Nitrophenol	BRL	ug/L	15	3.9	1	8270D	8/20/14 17:35	KC	P4H0313
Acenaphthene	BRL	ug/L	15	3.3	1	8270D	8/20/14 17:35	KC	P4H0313
Acenaphthylene	BRL	ug/L	15	3.5	1	8270D	8/20/14 17:35	KC	P4H0313
Aniline	BRL	ug/L	15	3.4	1	8270D	8/20/14 17:35	KC	P4H0313
Anthracene	BRL	ug/L	15	1.9	1	8270D	8/20/14 17:35	KC	P4H0313
Azobenzene	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
Benzo(a)anthracene	BRL	ug/L	15	1.5	1	8270D	8/20/14 17:35	KC	P4H0313
Benzo(a)pyrene	BRL	ug/L	15	1.7	1	8270D	8/20/14 17:35	KC	P4H0313
Benzo(b)fluoranthene	BRL	ug/L	15	2.1	1	8270D	8/20/14 17:35	KC	P4H0313
Benzo(g,h,i)perylene	BRL	ug/L	15	3.3	1	8270D	8/20/14 17:35	KC	P4H0313
Benzo(k)fluoranthene	BRL	ug/L	15	1.7	1	8270D	8/20/14 17:35	KC	P4H0313
Benzoic Acid	BRL	ug/L	150	77	1	8270D	8/20/14 17:35	KC	P4H0313
Benzyl alcohol	BRL	ug/L	15	3.2	1	8270D	8/20/14 17:35	KC	P4H0313

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 4080360-02
Prism Work Order: 4080360
Time Collected: 08/15/14 14:00
Time Submitted: 08/18/14 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
bis(2-Chloroethoxy)methane	BRL	ug/L	15	3.4	1	8270D	8/20/14 17:35	KC	P4H0313
Bis(2-Chloroethyl)ether	BRL	ug/L	15	2.9	1	8270D	8/20/14 17:35	KC	P4H0313
Bis(2-chloroisopropyl)ether	BRL	ug/L	15	3.6	1	8270D	8/20/14 17:35	KC	P4H0313
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	15	2.7	1	8270D	8/20/14 17:35	KC	P4H0313
Butyl benzyl phthalate	BRL	ug/L	15	2.4	1	8270D	8/20/14 17:35	KC	P4H0313
Chrysene	BRL	ug/L	15	1.8	1	8270D	8/20/14 17:35	KC	P4H0313
Dibenzo(a,h)anthracene	BRL	ug/L	15	2.7	1	8270D	8/20/14 17:35	KC	P4H0313
Dibenzofuran	BRL	ug/L	15	3.4	1	8270D	8/20/14 17:35	KC	P4H0313
Diethyl phthalate	BRL	ug/L	15	2.2	1	8270D	8/20/14 17:35	KC	P4H0313
Dimethyl phthalate	BRL	ug/L	15	2.5	1	8270D	8/20/14 17:35	KC	P4H0313
Di-n-butyl phthalate	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
Di-n-octyl phthalate	BRL	ug/L	15	2.9	1	8270D	8/20/14 17:35	KC	P4H0313
Fluoranthene	BRL	ug/L	15	1.4	1	8270D	8/20/14 17:35	KC	P4H0313
Fluorene	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
Hexachlorobenzene	BRL	ug/L	15	2.2	1	8270D	8/20/14 17:35	KC	P4H0313
Hexachlorobutadiene	BRL	ug/L	15	3.5	1	8270D	8/20/14 17:35	KC	P4H0313
Hexachlorocyclopentadiene	BRL	ug/L	15	2.8	1	8270D	8/20/14 17:35	KC	P4H0313
Hexachloroethane	BRL	ug/L	15	3.0	1	8270D	8/20/14 17:35	KC	P4H0313
Indeno(1,2,3-cd)pyrene	BRL	ug/L	15	2.4	1	8270D	8/20/14 17:35	KC	P4H0313
Isophorone	BRL	ug/L	15	3.7	1	8270D	8/20/14 17:35	KC	P4H0313
Naphthalene	BRL	ug/L	15	3.5	1	8270D	8/20/14 17:35	KC	P4H0313
Nitrobenzene	BRL	ug/L	15	3.0	1	8270D	8/20/14 17:35	KC	P4H0313
N-Nitroso-di-n-propylamine	BRL	ug/L	15	3.6	1	8270D	8/20/14 17:35	KC	P4H0313
N-Nitrosodiphenylamine	BRL	ug/L	15	2.4	1	8270D	8/20/14 17:35	KC	P4H0313
Pentachlorophenol	BRL	ug/L	15	2.5	1	8270D	8/20/14 17:35	KC	P4H0313
Phenanthrene	BRL	ug/L	15	1.8	1	8270D	8/20/14 17:35	KC	P4H0313
Phenol	BRL	ug/L	15	3.4	1	8270D	8/20/14 17:35	KC	P4H0313
Pyrene	BRL	ug/L	15	2.1	1	8270D	8/20/14 17:35	KC	P4H0313

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*85 %*	*49-109*
2-Fluorobiphenyl	*74 %*	*55-96*
2-Fluorophenol	*53 %*	*27-74*
Nitrobenzene-d5	*70 %*	*53-99*
Phenol-d5	*37 %*	*11-52*
Terphenyl-d14	*88 %*	*42-133*

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080360
Time Submitted: 8/18/2014 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0368 - 5030B										
Blank (P4H0368-BLK1)				Prepared & Analyzed: 08/20/14						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0368 - 5030B										
Blank (P4H0368-BLK1)				Prepared & Analyzed: 08/20/14						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50.00*		*99*	*80-124*			
Surrogate: Dibromofluoromethane	*60.6*		*ug/L*	*50.00*		*121*	*75-129*			
Surrogate: Toluene-d8	*54.7*		*ug/L*	*50.00*		*109*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0368 - 5030B										
LCS (P4H0368-BS1)				Prepared & Analyzed: 08/20/14						
1,1,1,2-Tetrachloroethane	20.8	0.50	ug/L	20.00		104	79-134			
1,1,1-Trichloroethane	25.0	0.50	ug/L	20.00		125	75-136			
1,1,2,2-Tetrachloroethane	18.2	0.50	ug/L	20.00		91	62-127			
1,1,2-Trichloroethane	22.1	0.50	ug/L	20.00		111	70-140			
1,1-Dichloroethane	23.4	0.50	ug/L	20.00		117	78-130			
1,1-Dichloroethylene	25.5	0.50	ug/L	20.00		128	70-154			
1,1-Dichloropropylene	25.1	0.50	ug/L	20.00		126	71-136			
1,2,3-Trichlorobenzene	21.2	2.0	ug/L	20.00		106	58-144			
1,2,3-Trichloropropane	17.7	1.0	ug/L	20.00		89	71-127			
1,2,4-Trichlorobenzene	19.4	1.0	ug/L	20.00		97	66-139			
1,2,4-Trimethylbenzene	19.5	0.50	ug/L	20.00		97	75-133			
1,2-Dibromo-3-chloropropane	18.5	2.0	ug/L	20.00		92	63-134			
1,2-Dibromoethane	19.6	0.50	ug/L	20.00		98	77-135			
1,2-Dichlorobenzene	19.3	0.50	ug/L	20.00		97	78-128			
1,2-Dichloroethane	23.0	0.50	ug/L	20.00		115	68-131			
1,2-Dichloropropane	21.7	0.50	ug/L	20.00		109	77-130			
1,3,5-Trimethylbenzene	19.5	0.50	ug/L	20.00		98	75-131			
1,3-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	77-125			
1,3-Dichloropropane	19.9	0.50	ug/L	20.00		99	76-132			
1,4-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	75-126			
2,2-Dichloropropane	26.0	2.0	ug/L	20.00		130	29-149			
2-Chloroethyl Vinyl Ether	21.3	5.0	ug/L	20.00		107	34-144			
2-Chlorotoluene	19.2	0.50	ug/L	20.00		96	74-126			
4-Chlorotoluene	19.0	0.50	ug/L	20.00		95	78-129			
4-Isopropyltoluene	20.2	0.50	ug/L	20.00		101	69-132			
Acetone	39.7	5.0	ug/L	40.00		99	40-166			
Acrolein	46.0	20	ug/L	40.00		115	70-130			
Acrylonitrile	41.0	20	ug/L	40.00		102	81-127			
Benzene	25.0	0.50	ug/L	20.00		125	77-128			
Bromobenzene	18.1	0.50	ug/L	20.00		91	78-129			
Bromochloromethane	22.2	0.50	ug/L	20.00		111	78-135			
Bromodichloromethane	22.1	0.50	ug/L	20.00		110	76-138			
Bromoform	19.5	1.0	ug/L	20.00		98	71-135			
Bromomethane	16.1	1.0	ug/L	20.00		80	41-168			
Carbon disulfide	24.4	5.0	ug/L	20.00		122	59-135			
Carbon Tetrachloride	22.9	0.50	ug/L	20.00		114	72-142			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	78-119			
Chloroethane	22.8	0.50	ug/L	20.00		114	57-142			
Chloroform	23.0	0.50	ug/L	20.00		115	77-130			
Chloromethane	20.0	0.50	ug/L	20.00		100	47-145			
cis-1,2-Dichloroethylene	22.1	0.50	ug/L	20.00		111	76-141			
cis-1,3-Dichloropropylene	22.0	0.50	ug/L	20.00		110	65-140			
Dibromochloromethane	19.3	0.50	ug/L	20.00		96	75-134			
Dibromomethane	22.4	0.50	ug/L	20.00		112	76-138			
Dichlorodifluoromethane	28.2	1.0	ug/L	20.00		141	28-163			
Ethylbenzene	20.5	0.50	ug/L	20.00		102	80-127			

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Prism Work Order: 4080360
Time Submitted: 8/18/2014 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0368 - 5030B										
LCS (P4H0368-BS1)				Prepared & Analyzed: 08/20/14						
Hexachlorobutadiene	20.8	2.0	ug/L	20.00		104	61-134			
Isopropyl Ether	19.5	0.50	ug/L	20.00		98	60-154			
Isopropylbenzene (Cumene)	20.1	0.50	ug/L	20.00		100	70-130			
m,p-Xylenes	43.0	1.0	ug/L	40.00		108	77-133			
Methyl Butyl Ketone (2-Hexanone)	18.7	5.0	ug/L	20.00		94	64-137			
Methyl Ethyl Ketone (2-Butanone)	20.6	5.0	ug/L	20.00		103	71-134			
Methyl Isobutyl Ketone	20.6	5.0	ug/L	20.00		103	69-134			
Methylene Chloride	19.5	1.0	ug/L	20.00		98	73-131			
Methyl-tert-Butyl Ether	20.0	0.50	ug/L	20.00		100	68-135			
Naphthalene	19.6	1.0	ug/L	20.00		98	64-136			
n-Butylbenzene	20.3	1.0	ug/L	20.00		101	68-134			
n-Propylbenzene	20.1	0.50	ug/L	20.00		100	72-132			
o-Xylene	20.8	0.50	ug/L	20.00		104	78-128			
sec-Butylbenzene	20.0	0.50	ug/L	20.00		100	71-131			
Styrene	21.9	0.50	ug/L	20.00		110	78-129			
tert-Butylbenzene	19.9	0.50	ug/L	20.00		99	70-132			
Tetrachloroethylene	23.4	0.50	ug/L	20.00		117	80-129			
Toluene	23.2	0.50	ug/L	20.00		116	76-131			
trans-1,2-Dichloroethylene	23.3	0.50	ug/L	20.00		117	76-135			
trans-1,3-Dichloropropylene	22.0	0.50	ug/L	20.00		110	67-140			
Trichloroethylene	24.9	0.50	ug/L	20.00		124	77-133			
Trichlorofluoromethane	24.4	0.50	ug/L	20.00		122	62-148			
Vinyl acetate	23.2	2.0	ug/L	20.00		116	34-167			
Vinyl chloride	25.3	0.50	ug/L	20.00		126	57-141			
Surrogate: 4-Bromofluorobenzene	*47.5*		*ug/L*	*50.00*		*95*	*80-124*			
Surrogate: Dibromofluoromethane	*57.9*		*ug/L*	*50.00*		*116*	*75-129*			
Surrogate: Toluene-d8	*53.3*		*ug/L*	*50.00*		*107*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0368 - 5030B										
LCS Dup (P4H0368-BSD1)				Prepared & Analyzed: 08/20/14						
1,1,1,2-Tetrachloroethane	20.1	0.50	ug/L	20.00		101	79-134	3	20	
1,1,1-Trichloroethane	23.1	0.50	ug/L	20.00		116	75-136	8	20	
1,1,2,2-Tetrachloroethane	18.6	0.50	ug/L	20.00		93	62-127	2	20	
1,1,2-Trichloroethane	22.3	0.50	ug/L	20.00		112	70-140	0.8	20	
1,1-Dichloroethane	22.0	0.50	ug/L	20.00		110	78-130	6	20	
1,1-Dichloroethylene	23.0	0.50	ug/L	20.00		115	70-154	10	20	
1,1-Dichloropropylene	23.2	0.50	ug/L	20.00		116	71-136	8	20	
1,2,3-Trichlorobenzene	18.8	2.0	ug/L	20.00		94	58-144	12	20	
1,2,3-Trichloropropane	18.4	1.0	ug/L	20.00		92	71-127	4	20	
1,2,4-Trichlorobenzene	18.2	1.0	ug/L	20.00		91	66-139	6	20	
1,2,4-Trimethylbenzene	18.6	0.50	ug/L	20.00		93	75-133	4	20	
1,2-Dibromo-3-chloropropane	18.7	2.0	ug/L	20.00		93	63-134	1	20	
1,2-Dibromoethane	19.8	0.50	ug/L	20.00		99	77-135	0.7	20	
1,2-Dichlorobenzene	18.8	0.50	ug/L	20.00		94	78-128	3	20	
1,2-Dichloroethane	22.6	0.50	ug/L	20.00		113	68-131	2	20	
1,2-Dichloropropane	21.0	0.50	ug/L	20.00		105	77-130	3	20	
1,3,5-Trimethylbenzene	18.8	0.50	ug/L	20.00		94	75-131	4	20	
1,3-Dichlorobenzene	18.5	0.50	ug/L	20.00		93	77-125	4	20	
1,3-Dichloropropane	19.8	0.50	ug/L	20.00		99	76-132	0.3	20	
1,4-Dichlorobenzene	18.7	0.50	ug/L	20.00		94	75-126	3	20	
2,2-Dichloropropane	23.9	2.0	ug/L	20.00		119	29-149	9	20	
2-Chloroethyl Vinyl Ether	22.0	5.0	ug/L	20.00		110	34-144	3	20	
2-Chlorotoluene	18.5	0.50	ug/L	20.00		93	74-126	4	20	
4-Chlorotoluene	18.4	0.50	ug/L	20.00		92	78-129	3	20	
4-Isopropyltoluene	19.2	0.50	ug/L	20.00		96	69-132	5	20	
Acetone	43.2	5.0	ug/L	40.00		108	40-166	8	20	
Acrolein	49.4	20	ug/L	40.00		123	70-130	7	20	
Acrylonitrile	43.1	20	ug/L	40.00		108	81-127	5	20	
Benzene	23.6	0.50	ug/L	20.00		118	77-128	6	20	
Bromobenzene	18.0	0.50	ug/L	20.00		90	78-129	0.8	20	
Bromochloromethane	22.2	0.50	ug/L	20.00		111	78-135	0.1	20	
Bromodichloromethane	21.8	0.50	ug/L	20.00		109	76-138	2	20	
Bromoform	19.6	1.0	ug/L	20.00		98	71-135	0.2	20	
Bromomethane	15.8	1.0	ug/L	20.00		79	41-168	2	20	
Carbon disulfide	22.2	5.0	ug/L	20.00		111	59-135	9	20	
Carbon Tetrachloride	21.7	0.50	ug/L	20.00		109	72-142	5	20	
Chlorobenzene	19.6	0.50	ug/L	20.00		98	78-119	4	20	
Chloroethane	20.9	0.50	ug/L	20.00		105	57-142	9	20	
Chloroform	21.9	0.50	ug/L	20.00		109	77-130	5	20	
Chloromethane	21.0	0.50	ug/L	20.00		105	47-145	5	20	
cis-1,2-Dichloroethylene	21.1	0.50	ug/L	20.00		105	76-141	5	20	
cis-1,3-Dichloropropylene	21.4	0.50	ug/L	20.00		107	65-140	3	20	
Dibromochloromethane	19.2	0.50	ug/L	20.00		96	75-134	0.6	20	
Dibromomethane	22.5	0.50	ug/L	20.00		112	76-138	0.6	20	
Dichlorodifluoromethane	25.8	1.0	ug/L	20.00		129	28-163	9	20	
Ethylbenzene	19.5	0.50	ug/L	20.00		97	80-127	5	20	

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080360
Time Submitted: 8/18/2014 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0368 - 5030B										
LCS Dup (P4H0368-BSD1)				Prepared & Analyzed: 08/20/14						
Hexachlorobutadiene	19.5	2.0	ug/L	20.00		97	61-134	7	20	
Isopropyl Ether	18.9	0.50	ug/L	20.00		95	60-154	3	20	
Isopropylbenzene (Cumene)	19.4	0.50	ug/L	20.00		97	70-130	3	20	
m,p-Xylenes	40.8	1.0	ug/L	40.00		102	77-133	5	20	
Methyl Butyl Ketone (2-Hexanone)	19.8	5.0	ug/L	20.00		99	64-137	5	20	
Methyl Ethyl Ketone (2-Butanone)	21.1	5.0	ug/L	20.00		105	71-134	2	20	
Methyl Isobutyl Ketone	21.7	5.0	ug/L	20.00		108	69-134	5	20	
Methylene Chloride	18.8	1.0	ug/L	20.00		94	73-131	4	20	
Methyl-tert-Butyl Ether	19.9	0.50	ug/L	20.00		99	68-135	0.3	20	
Naphthalene	18.9	1.0	ug/L	20.00		94	64-136	4	20	
n-Butylbenzene	19.3	1.0	ug/L	20.00		96	68-134	5	20	
n-Propylbenzene	19.4	0.50	ug/L	20.00		97	72-132	4	20	
o-Xylene	19.9	0.50	ug/L	20.00		100	78-128	4	20	
sec-Butylbenzene	19.1	0.50	ug/L	20.00		96	71-131	5	20	
Styrene	21.0	0.50	ug/L	20.00		105	78-129	5	20	
tert-Butylbenzene	19.0	0.50	ug/L	20.00		95	70-132	5	20	
Tetrachloroethylene	21.7	0.50	ug/L	20.00		109	80-129	7	20	
Toluene	22.1	0.50	ug/L	20.00		111	76-131	5	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	76-135	7	20	
trans-1,3-Dichloropropylene	21.9	0.50	ug/L	20.00		110	67-140	0.2	20	
Trichloroethylene	23.6	0.50	ug/L	20.00		118	77-133	5	20	
Trichlorofluoromethane	22.6	0.50	ug/L	20.00		113	62-148	8	20	
Vinyl acetate	22.8	2.0	ug/L	20.00		114	34-167	2	20	
Vinyl chloride	23.5	0.50	ug/L	20.00		117	57-141	7	20	
Surrogate: 4-Bromofluorobenzene	*48.8*		*ug/L*	*50.00*		*98*	*80-124*			
Surrogate: Dibromofluoromethane	*58.6*		*ug/L*	*50.00*		*117*	*75-129*			
Surrogate: Toluene-d8	*53.9*		*ug/L*	*50.00*		*108*	*77-123*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0313 - 3510C MS										
Blank (P4H0313-BLK1)				Prepared: 08/19/14 Analyzed: 08/20/14						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0313 - 3510C MS										
Blank (P4H0313-BLK1)				Prepared: 08/19/14 Analyzed: 08/20/14						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*86.0*		*ug/L*	*100.0*		*86*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*40.2*		*ug/L*	*50.00*		*80*	*55-96*			
Surrogate: 2-Fluorophenol	*49.6*		*ug/L*	*100.0*		*50*	*27-74*			
Surrogate: Nitrobenzene-d5	*40.1*		*ug/L*	*50.00*		*80*	*53-99*			
Surrogate: Phenol-d5	*30.6*		*ug/L*	*100.0*		*31*	*11-52*			
Surrogate: Terphenyl-d14	*44.1*		*ug/L*	*50.00*		*88*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0313 - 3510C MS										
LCS (P4H0313-BS1)				Prepared: 08/19/14 Analyzed: 08/20/14						
1,2,4-Trichlorobenzene	41.5	10	ug/L	50.00		83	45-103			
1,2-Dichlorobenzene	38.8	10	ug/L	50.00		78	43-100			
1,3-Dichlorobenzene	38.3	10	ug/L	50.00		77	42-98			
1,4-Dichlorobenzene	38.6	10	ug/L	50.00		77	42-100			
1-Methylnaphthalene	44.2	10	ug/L	50.00		88	45-135			
2,4,5-Trichlorophenol	47.2	10	ug/L	50.00		94	66-120			
2,4,6-Trichlorophenol	46.4	10	ug/L	50.00		93	62-121			
2,4-Dichlorophenol	42.9	10	ug/L	50.00		86	58-113			
2,4-Dimethylphenol	41.7	10	ug/L	50.00		83	42-120			
2,4-Dinitrophenol	43.7	10	ug/L	50.00		87	27-129			
2,4-Dinitrotoluene	51.9	10	ug/L	50.00		104	62-136			
2,6-Dinitrotoluene	51.8	10	ug/L	50.00		104	64-129			
2-Chloronaphthalene	54.6	10	ug/L	50.00		109	38-141			
2-Chlorophenol	39.9	10	ug/L	50.00		80	49-107			
2-Methylnaphthalene	44.6	10	ug/L	50.00		89	55-112			
2-Methylphenol	36.4	10	ug/L	50.00		73	40-106			
2-Nitroaniline	49.0	10	ug/L	50.00		98	65-122			
2-Nitrophenol	42.5	10	ug/L	50.00		85	57-115			
3,3'-Dichlorobenzidine	54.5	10	ug/L	50.00		109	58-139			
3/4-Methylphenol	33.5	10	ug/L	50.00		67	34-101			
3-Nitroaniline	49.5	10	ug/L	50.00		99	52-155			
4,6-Dinitro-2-methylphenol	51.4	10	ug/L	50.00		103	49-138			
4-Bromophenyl phenyl ether	49.4	10	ug/L	50.00		99	63-135			
4-Chloro-3-methylphenol	44.3	10	ug/L	50.00		89	33-149			
4-Chloroaniline	45.9	10	ug/L	50.00		92	44-163			
4-Chlorophenyl phenyl ether	47.6	10	ug/L	50.00		95	63-129			
4-Nitroaniline	51.2	10	ug/L	50.00		102	63-147			
4-Nitrophenol	19.6	10	ug/L	50.00		39	10-77			
Acenaphthene	46.8	10	ug/L	50.00		94	64-118			
Acenaphthylene	48.4	10	ug/L	50.00		97	65-119			
Aniline	45.5	10	ug/L	50.00		91	12-197			
Anthracene	53.9	10	ug/L	50.00		108	69-134			
Azobenzene	47.2	10	ug/L	50.00		94	56-129			
Benzo(a)anthracene	52.7	10	ug/L	50.00		105	71-125			
Benzo(a)pyrene	55.1	10	ug/L	50.00		110	67-135			
Benzo(b)fluoranthene	52.4	10	ug/L	50.00		105	56-145			
Benzo(g,h,i)perylene	53.4	10	ug/L	50.00		107	44-149			
Benzo(k)fluoranthene	52.1	10	ug/L	50.00		104	65-138			
Benzoic Acid	BRL	100	ug/L	50.00			10-125			A
Benzyl alcohol	43.7	10	ug/L	50.00		87	35-111			
bis(2-Chloroethoxy)methane	43.8	10	ug/L	50.00		88	49-126			
Bis(2-Chloroethyl)ether	42.7	10	ug/L	50.00		85	47-124			
Bis(2-chloroisopropyl)ether	41.6	10	ug/L	50.00		83	42-126			
Bis(2-Ethylhexyl)phthalate	52.2	10	ug/L	50.00		104	59-139			
Butyl benzyl phthalate	51.5	10	ug/L	50.00		103	67-133			
Chrysene	53.1	10	ug/L	50.00		106	64-124			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0313 - 3510C MS										
LCS (P4H0313-BS1)				Prepared: 08/19/14 Analyzed: 08/20/14						
Dibenzo(a,h)anthracene	52.6	10	ug/L	50.00		105	49-144			
Dibenzofuran	47.7	10	ug/L	50.00		95	68-113			
Diethyl phthalate	50.6	10	ug/L	50.00		101	70-124			
Dimethyl phthalate	50.5	10	ug/L	50.00		101	71-117			
Di-n-butyl phthalate	51.5	10	ug/L	50.00		103	69-128			
Di-n-octyl phthalate	51.3	10	ug/L	50.00		103	52-150			
Fluoranthene	52.9	10	ug/L	50.00		106	66-135			
Fluorene	50.6	10	ug/L	50.00		101	67-124			
Hexachlorobenzene	51.1	10	ug/L	50.00		102	62-124			
Hexachlorobutadiene	40.0	10	ug/L	50.00		80	42-105			
Hexachlorocyclopentadiene	39.1	10	ug/L	50.00		78	32-117			
Hexachloroethane	37.5	10	ug/L	50.00		75	40-99			
Indeno(1,2,3-cd)pyrene	51.9	10	ug/L	50.00		104	40-150			
Isophorone	49.3	10	ug/L	50.00		99	54-125			
Naphthalene	43.4	10	ug/L	50.00		87	54-111			
Nitrobenzene	45.6	10	ug/L	50.00		91	51-117			
N-Nitroso-di-n-propylamine	42.4	10	ug/L	50.00		85	55-115			
N-Nitrosodiphenylamine	49.1	10	ug/L	50.00		98	70-152			
Pentachlorophenol	50.2	10	ug/L	50.00		100	23-139			
Phenanthrene	51.8	10	ug/L	50.00		104	68-128			
Phenol	17.6	10	ug/L	50.00		35	12-58			
Pyrene	53.5	10	ug/L	50.00		107	62-139			
Surrogate: 2,4,6-Tribromophenol	*107*		*ug/L*	*100.0*		*107*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*49.3*		*ug/L*	*50.00*		*99*	*55-96*			*SR*
Surrogate: 2-Fluorophenol	*59.1*		*ug/L*	*100.0*		*59*	*27-74*			
Surrogate: Nitrobenzene-d5	*46.0*		*ug/L*	*50.00*		*92*	*53-99*			
Surrogate: Phenol-d5	*36.4*		*ug/L*	*100.0*		*36*	*11-52*			
Surrogate: Terphenyl-d14	*53.6*		*ug/L*	*50.00*		*107*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0313 - 3510C MS										
LCS Dup (P4H0313-BSD1)				Prepared: 08/19/14 Analyzed: 08/20/14						
1,2,4-Trichlorobenzene	37.6	10	ug/L	50.00		75	45-103	10	20	
1,2-Dichlorobenzene	34.3	10	ug/L	50.00		69	43-100	12	20	
1,3-Dichlorobenzene	33.2	10	ug/L	50.00		66	42-98	14	20	
1,4-Dichlorobenzene	34.4	10	ug/L	50.00		69	42-100	12	20	
1-Methylnaphthalene	40.5	10	ug/L	50.00		81	45-135	9	20	
2,4,5-Trichlorophenol	42.4	10	ug/L	50.00		85	66-120	11	20	
2,4,6-Trichlorophenol	42.2	10	ug/L	50.00		84	62-121	9	20	
2,4-Dichlorophenol	39.0	10	ug/L	50.00		78	58-113	9	20	
2,4-Dimethylphenol	38.0	10	ug/L	50.00		76	42-120	9	20	
2,4-Dinitrophenol	42.0	10	ug/L	50.00		84	27-129	4	20	
2,4-Dinitrotoluene	48.1	10	ug/L	50.00		96	62-136	8	20	
2,6-Dinitrotoluene	47.4	10	ug/L	50.00		95	64-129	9	20	
2-Chloronaphthalene	49.0	10	ug/L	50.00		98	38-141	11	20	
2-Chlorophenol	35.4	10	ug/L	50.00		71	49-107	12	20	
2-Methylnaphthalene	40.3	10	ug/L	50.00		81	55-112	10	20	
2-Methylphenol	32.8	10	ug/L	50.00		66	40-106	10	20	
2-Nitroaniline	45.0	10	ug/L	50.00		90	65-122	9	20	
2-Nitrophenol	39.5	10	ug/L	50.00		79	57-115	7	20	
3,3'-Dichlorobenzidine	50.4	10	ug/L	50.00		101	58-139	8	20	
3/4-Methylphenol	30.3	10	ug/L	50.00		61	34-101	10	20	
3-Nitroaniline	45.5	10	ug/L	50.00		91	52-155	8	20	
4,6-Dinitro-2-methylphenol	48.4	10	ug/L	50.00		97	49-138	6	20	
4-Bromophenyl phenyl ether	45.0	10	ug/L	50.00		90	63-135	9	20	
4-Chloro-3-methylphenol	40.9	10	ug/L	50.00		82	33-149	8	20	
4-Chloroaniline	44.0	10	ug/L	50.00		88	44-163	4	20	
4-Chlorophenyl phenyl ether	43.0	10	ug/L	50.00		86	63-129	10	20	
4-Nitroaniline	47.2	10	ug/L	50.00		94	63-147	8	20	
4-Nitrophenol	18.2	10	ug/L	50.00		36	10-77	7	20	
Acenaphthene	42.6	10	ug/L	50.00		85	64-118	9	20	
Acenaphthylene	43.6	10	ug/L	50.00		87	65-119	10	20	
Aniline	42.1	10	ug/L	50.00		84	12-197	8	20	
Anthracene	49.9	10	ug/L	50.00		100	69-134	8	20	
Azobenzene	42.6	10	ug/L	50.00		85	56-129	10	20	
Benzo(a)anthracene	48.9	10	ug/L	50.00		98	71-125	8	20	
Benzo(a)pyrene	50.9	10	ug/L	50.00		102	67-135	8	20	
Benzo(b)fluoranthene	48.3	10	ug/L	50.00		97	56-145	8	20	
Benzo(g,h,i)perylene	49.3	10	ug/L	50.00		99	44-149	8	20	
Benzo(k)fluoranthene	48.4	10	ug/L	50.00		97	65-138	7	20	
Benzoic Acid	BRL	100	ug/L	50.00			10-125		20	A
Benzyl alcohol	39.1	10	ug/L	50.00		78	35-111	11	20	
bis(2-Chloroethoxy)methane	39.9	10	ug/L	50.00		80	49-126	9	20	
Bis(2-Chloroethyl)ether	38.2	10	ug/L	50.00		76	47-124	11	20	
Bis(2-chloroisopropyl)ether	37.2	10	ug/L	50.00		74	42-126	11	20	
Bis(2-Ethylhexyl)phthalate	48.3	10	ug/L	50.00		97	59-139	8	20	
Butyl benzyl phthalate	47.4	10	ug/L	50.00		95	67-133	8	20	
Chrysene	48.3	10	ug/L	50.00		97	64-124	10	20	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0313 - 3510C MS										
LCS Dup (P4H0313-BSD1)				Prepared: 08/19/14 Analyzed: 08/20/14						
Dibenzo(a,h)anthracene	48.8	10	ug/L	50.00		98	49-144	7	20	
Dibenzofuran	43.4	10	ug/L	50.00		87	68-113	9	20	
Diethyl phthalate	45.9	10	ug/L	50.00		92	70-124	10	20	
Dimethyl phthalate	46.1	10	ug/L	50.00		92	71-117	9	20	
Di-n-butyl phthalate	47.8	10	ug/L	50.00		96	69-128	7	20	
Di-n-octyl phthalate	47.3	10	ug/L	50.00		95	52-150	8	20	
Fluoranthene	48.5	10	ug/L	50.00		97	66-135	9	20	
Fluorene	45.4	10	ug/L	50.00		91	67-124	11	20	
Hexachlorobenzene	46.6	10	ug/L	50.00		93	62-124	9	20	
Hexachlorobutadiene	36.4	10	ug/L	50.00		73	42-105	9	20	
Hexachlorocyclopentadiene	35.7	10	ug/L	50.00		71	32-117	9	20	
Hexachloroethane	33.2	10	ug/L	50.00		66	40-99	12	20	
Indeno(1,2,3-cd)pyrene	48.8	10	ug/L	50.00		98	40-150	6	20	
Isophorone	45.4	10	ug/L	50.00		91	54-125	8	20	
Naphthalene	39.5	10	ug/L	50.00		79	54-111	9	20	
Nitrobenzene	41.7	10	ug/L	50.00		83	51-117	9	20	
N-Nitroso-di-n-propylamine	37.9	10	ug/L	50.00		76	55-115	11	20	
N-Nitrosodiphenylamine	45.2	10	ug/L	50.00		90	70-152	8	20	
Pentachlorophenol	46.6	10	ug/L	50.00		93	23-139	7	20	
Phenanthrene	47.8	10	ug/L	50.00		96	68-128	8	20	
Phenol	15.5	10	ug/L	50.00		31	12-58	13	20	
Pyrene	48.9	10	ug/L	50.00		98	62-139	9	20	
Surrogate: 2,4,6-Tribromophenol	*91.8*		*ug/L*	*100.0*		*92*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*41.1*		*ug/L*	*50.00*		*82*	*55-96*			
Surrogate: 2-Fluorophenol	*48.6*		*ug/L*	*100.0*		*49*	*27-74*			
Surrogate: Nitrobenzene-d5	*39.3*		*ug/L*	*50.00*		*79*	*53-99*			
Surrogate: Phenol-d5	*29.6*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*46.8*		*ug/L*	*50.00*		*94*	*42-133*			

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080360
Time Submitted: 8/18/2014 5:00:00PM

Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0369 - 3510C GC										
Blank (P4H0369-BLK1)				Prepared: 08/21/14 Analyzed: 09/02/14						
4,4'-DDD	BRL	0.050	ug/L							
4,4'-DDE	BRL	0.050	ug/L							
4,4'-DDT	BRL	0.050	ug/L							
Aldrin	BRL	0.050	ug/L							
alpha-BHC	BRL	0.050	ug/L							
cis-Chlordane	BRL	0.050	ug/L							
beta-BHC	BRL	0.050	ug/L							
Chlordane	BRL	0.50	ug/L							
delta-BHC	BRL	0.050	ug/L							
Dieldrin	BRL	0.050	ug/L							
Endosulfan I	BRL	0.050	ug/L							
Endosulfan II	BRL	0.050	ug/L							
Endosulfan Sulfate	BRL	0.050	ug/L							
Endrin	BRL	0.050	ug/L							
Endrin Aldehyde	BRL	0.050	ug/L							
Endrin Ketone	BRL	0.050	ug/L							
gamma-BHC	BRL	0.050	ug/L							
trans-Chlordane	BRL	0.050	ug/L							
Heptachlor	BRL	0.050	ug/L							
Heptachlor Epoxide	BRL	0.050	ug/L							
Methoxychlor	BRL	0.050	ug/L							
Toxaphene	BRL	0.50	ug/L							
Surrogate: Decachlorobiphenyl	*1.05*		*ug/L*	*1.000*		*105*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*0.680*		*ug/L*	*1.000*		*68*	*40-134*			
LCS (P4H0369-BS1)				Prepared: 08/21/14 Analyzed: 09/02/14						
4,4'-DDD	0.940	0.050	ug/L	1.000		94	66-138			
4,4'-DDE	0.810	0.050	ug/L	1.000		81	67-127			
4,4'-DDT	0.970	0.050	ug/L	1.000		97	66-142			
Aldrin	0.810	0.050	ug/L	1.000		81	62-124			
alpha-BHC	0.830	0.050	ug/L	1.000		83	63-125			
cis-Chlordane	0.820	0.050	ug/L	1.000		82	68-126			
beta-BHC	0.820	0.050	ug/L	1.000		82	65-137			
delta-BHC	0.830	0.050	ug/L	1.000		83	65-132			
Dieldrin	0.900	0.050	ug/L	1.000		90	69-130			
Endosulfan I	0.810	0.050	ug/L	1.000		81	71-129			
Endosulfan II	0.830	0.050	ug/L	1.000		83	73-135			
Endosulfan Sulfate	1.01	0.050	ug/L	1.000		101	72-137			
Endrin	0.900	0.050	ug/L	1.000		90	69-144			
Endrin Aldehyde	0.940	0.050	ug/L	1.000		94	68-139			
Endrin Ketone	0.850	0.050	ug/L	1.000		85	68-150			
gamma-BHC	0.840	0.050	ug/L	1.000		84	66-129			
trans-Chlordane	0.820	0.050	ug/L	1.000		82	66-126			
Heptachlor	0.880	0.050	ug/L	1.000		88	61-136			
Heptachlor Epoxide	0.840	0.050	ug/L	1.000		84	69-131			
Methoxychlor	1.15	0.050	ug/L	1.000		115	70-157			

Falcon Engineering
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Prism Work Order: 4080360
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Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0369 - 3510C GC										
LCS (P4H0369-BS1)				Prepared: 08/21/14 Analyzed: 09/02/14						
Surrogate: Decachlorobiphenyl	*1.13*		*ug/L*	*1.000*		*113*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*0.710*		*ug/L*	*1.000*		*71*	*40-134*			
LCS (P4H0369-BS2)				Prepared: 08/21/14 Analyzed: 09/02/14						
Chlordane	10.0	0.50	ug/L	10.00		100	50-150			
Surrogate: Decachlorobiphenyl	*1.23*		*ug/L*	*1.000*		*123*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*0.750*		*ug/L*	*1.000*		*75*	*40-134*			
LCS (P4H0369-BS3)				Prepared: 08/21/14 Analyzed: 09/03/14						
Toxaphene	9.70	0.50	ug/L	10.00		97	50-150			
Surrogate: Decachlorobiphenyl	*1.07*		*ug/L*	*1.000*		*107*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*0.680*		*ug/L*	*1.000*		*68*	*40-134*			
LCS Dup (P4H0369-BSD1)				Prepared: 08/21/14 Analyzed: 09/02/14						
4,4'-DDD	0.970	0.050	ug/L	1.000		97	66-138	3	20	
4,4'-DDE	1.03	0.050	ug/L	1.000		103	67-127	24	20	LCD2
4,4'-DDT	0.990	0.050	ug/L	1.000		99	66-142	2	20	
Aldrin	0.860	0.050	ug/L	1.000		86	62-124	6	20	
alpha-BHC	0.910	0.050	ug/L	1.000		91	63-125	9	20	
cis-Chlordane	0.850	0.050	ug/L	1.000		85	68-126	4	20	
beta-BHC	0.850	0.050	ug/L	1.000		85	65-137	4	20	
delta-BHC	0.870	0.050	ug/L	1.000		87	65-132	5	20	
Dieldrin	1.04	0.050	ug/L	1.000		104	69-130	14	20	
Endosulfan I	0.850	0.050	ug/L	1.000		85	71-129	5	20	
Endosulfan II	0.830	0.050	ug/L	1.000		83	73-135	0	20	
Endosulfan Sulfate	1.04	0.050	ug/L	1.000		104	72-137	3	20	
Endrin	0.940	0.050	ug/L	1.000		94	69-144	4	20	
Endrin Aldehyde	0.900	0.050	ug/L	1.000		90	68-139	4	20	
Endrin Ketone	0.960	0.050	ug/L	1.000		96	68-150	12	20	
gamma-BHC	0.910	0.050	ug/L	1.000		91	66-129	8	20	
trans-Chlordane	0.850	0.050	ug/L	1.000		85	66-126	4	20	
Heptachlor	0.940	0.050	ug/L	1.000		94	61-136	7	20	
Heptachlor Epoxide	0.890	0.050	ug/L	1.000		89	69-131	6	20	
Methoxychlor	1.26	0.050	ug/L	1.000		126	70-157	9	20	
Surrogate: Decachlorobiphenyl	*1.14*		*ug/L*	*1.000*		*114*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*0.740*		*ug/L*	*1.000*		*74*	*40-134*			

Falcon Engineering
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1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080360
Time Submitted: 8/18/2014 5:00:00PM

Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0369 - 3510C GC										
Matrix Spike (P4H0369-MS1)		**Source: 4080360-01**		Prepared: 08/21/14 Analyzed: 09/03/14						
4,4'-DDD	2.40	0.12	ug/L	2.500	BRL	96	17-160			
4,4'-DDE	2.00	0.12	ug/L	2.500	BRL	80	10-158			
4,4'-DDT	2.60	0.12	ug/L	2.500	BRL	104	15-171			
Aldrin	2.18	0.12	ug/L	2.500	BRL	87	24-142			
alpha-BHC	2.20	0.12	ug/L	2.500	BRL	88	52-130			
cis-Chlordane	2.10	0.12	ug/L	2.500	BRL	84	18-147			
beta-BHC	2.12	0.12	ug/L	2.500	BRL	85	31-166			
delta-BHC	2.18	0.12	ug/L	2.500	BRL	87	20-171			
Dieldrin	2.40	0.12	ug/L	2.500	BRL	96	27-148			
Endosulfan I	2.12	0.12	ug/L	2.500	BRL	85	40-141			
Endosulfan II	2.18	0.12	ug/L	2.500	BRL	87	43-146			
Endosulfan Sulfate	2.72	0.12	ug/L	2.500	BRL	109	37-153			
Endrin	2.42	0.12	ug/L	2.500	BRL	97	35-165			
Endrin Aldehyde	2.18	0.12	ug/L	2.500	BRL	87	15-165			
Endrin Ketone	2.30	0.12	ug/L	2.500	BRL	92	36-172			
gamma-BHC	2.22	0.12	ug/L	2.500	BRL	89	45-150			
trans-Chlordane	2.15	0.12	ug/L	2.500	BRL	86	35-136			
Heptachlor	2.38	0.12	ug/L	2.500	BRL	95	38-150			
Heptachlor Epoxide	2.38	0.12	ug/L	2.500	BRL	95	40-141			
Methoxychlor	3.12	0.12	ug/L	2.500	BRL	125	37-187			
Surrogate: Decachlorobiphenyl	*2.38*		*ug/L*	*2.500*		*95*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*1.62*		*ug/L*	*2.500*		*65*	*40-134*			
Matrix Spike Dup (P4H0369-MSD1)		**Source: 4080360-01**		Prepared: 08/21/14 Analyzed: 09/03/14						
4,4'-DDD	2.42	0.12	ug/L	2.500	BRL	97	17-160	1	29	
4,4'-DDE	2.00	0.12	ug/L	2.500	BRL	80	10-158	0	38	
4,4'-DDT	2.55	0.12	ug/L	2.500	BRL	102	15-171	2	30	
Aldrin	2.02	0.12	ug/L	2.500	BRL	81	24-142	7	35	
alpha-BHC	2.05	0.12	ug/L	2.500	BRL	82	52-130	7	31	
cis-Chlordane	2.05	0.12	ug/L	2.500	BRL	82	18-147	2	40	
beta-BHC	2.05	0.12	ug/L	2.500	BRL	82	31-166	4	29	
delta-BHC	2.15	0.12	ug/L	2.500	BRL	86	20-171	1	27	
Dieldrin	2.35	0.12	ug/L	2.500	BRL	94	27-148	2	28	
Endosulfan I	2.08	0.12	ug/L	2.500	BRL	83	40-141	2	40	
Endosulfan II	2.15	0.12	ug/L	2.500	BRL	86	43-146	1	32	
Endosulfan Sulfate	2.78	0.12	ug/L	2.500	BRL	111	37-153	2	36	
Endrin	2.42	0.12	ug/L	2.500	BRL	97	35-165	0	27	
Endrin Aldehyde	2.08	0.12	ug/L	2.500	BRL	83	15-165	5	33	
Endrin Ketone	2.20	0.12	ug/L	2.500	BRL	88	36-172	4	29	
gamma-BHC	2.08	0.12	ug/L	2.500	BRL	83	45-150	7	32	
trans-Chlordane	2.10	0.12	ug/L	2.500	BRL	84	35-136	2	34	
Heptachlor	2.25	0.12	ug/L	2.500	BRL	90	38-150	5	36	
Heptachlor Epoxide	2.30	0.12	ug/L	2.500	BRL	92	40-141	3	36	
Methoxychlor	3.02	0.12	ug/L	2.500	BRL	121	37-187	3	34	
Surrogate: Decachlorobiphenyl	*2.30*		*ug/L*	*2.500*		*92*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*1.52*		*ug/L*	*2.500*		*61*	*40-134*			

Falcon Engineering
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1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080360
Time Submitted: 8/18/2014 5:00:00PM

Polychlorinated Biphenyls (PCBs) by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0279 - 3510C GC										
Blank (P4H0279-BLK1)				Prepared & Analyzed: 08/18/14						
Aroclor 1016	BRL	0.50	ug/L							
Aroclor 1221	BRL	1.0	ug/L							
Aroclor 1232	BRL	0.50	ug/L							
Aroclor 1242	BRL	0.50	ug/L							
Aroclor 1248	BRL	0.50	ug/L							
Aroclor 1254	BRL	0.50	ug/L							
Aroclor 1260	BRL	0.50	ug/L							
Surrogate: Tetrachloro-m-xylene	*0.940*		*ug/L*	*1.000*		*94*	*30-161*			
Surrogate: Decachlorobiphenyl	*1.00*		*ug/L*	*1.000*		*100*	*32-178*			
LCS (P4H0279-BS1)				Prepared & Analyzed: 08/18/14						
Aroclor 1016	9.89	0.50	ug/L	10.00		99	50-114			
Aroclor 1260	9.56	0.50	ug/L	10.00		96	10-127			
Surrogate: Tetrachloro-m-xylene	*0.860*		*ug/L*	*1.000*		*86*	*30-161*			
Surrogate: Decachlorobiphenyl	*0.980*		*ug/L*	*1.000*		*98*	*32-178*			
LCS Dup (P4H0279-BSD1)				Prepared & Analyzed: 08/18/14						
Aroclor 1016	9.15	0.50	ug/L	10.00		92	50-114	8	50	
Aroclor 1260	9.29	0.50	ug/L	10.00		93	10-127	3	50	
Surrogate: Tetrachloro-m-xylene	*0.890*		*ug/L*	*1.000*		*89*	*30-161*			
Surrogate: Decachlorobiphenyl	*0.960*		*ug/L*	*1.000*		*96*	*32-178*			

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Prism Work Order: 4080360
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Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0355 - 7470A										
Blank (P4H0355-BLK1)				Prepared: 08/20/14 Analyzed: 08/21/14						
Mercury	BRL	0.00020	mg/L							
LCS (P4H0355-BS1)				Prepared: 08/20/14 Analyzed: 08/21/14						
Mercury	0.00939	0.00020	mg/L	0.009375		100	80-120			
Batch P4H0393 - 3010A										
Blank (P4H0393-BLK1)				Prepared: 08/22/14 Analyzed: 08/27/14						
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P4H0393-BS1)				Prepared: 08/22/14 Analyzed: 08/27/14						
Arsenic	0.255	0.010	mg/L	0.2500		102	80-120			
Barium	0.259	0.010	mg/L	0.2500		104	80-120			
Cadmium	0.257	0.0010	mg/L	0.2500		103	80-120			
Chromium	0.256	0.0050	mg/L	0.2500		102	80-120			
Lead	0.257	0.0050	mg/L	0.2500		103	80-120			
Selenium	0.262	0.020	mg/L	0.2500		105	80-120			
Silver	0.105	0.0050	mg/L	0.1000		105	80-120			

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General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0340 - NO PREP										
Blank (P4H0340-BLK1)				Prepared & Analyzed: 08/19/14						
Turbidity	BRL	0.40	NTU							
LCS (P4H0340-BS1)				Prepared & Analyzed: 08/19/14						
Turbidity	4.24	0.40	NTU	4.000		106	90-110			
Batch P4H0343 - NO PREP										
Blank (P4H0343-BLK1)				Prepared & Analyzed: 08/19/14						
Hexavalent Chromium	BRL	0.010	mg/L							
LCS (P4H0343-BS1)				Prepared & Analyzed: 08/19/14						
Hexavalent Chromium	0.378	0.010	mg/L	0.4000		95	90-110			
Matrix Spike (P4H0343-MS1)		**Source: 4080360-01**		Prepared & Analyzed: 08/19/14						
Hexavalent Chromium	0.426	0.010	mg/L	0.4000	0.0300	99	85-115			
Matrix Spike Dup (P4H0343-MSD1)		**Source: 4080360-01**		Prepared & Analyzed: 08/19/14						
Hexavalent Chromium	0.431	0.010	mg/L	0.4000	0.0300	100	85-115	1	20	

Sample Extraction Data

Prep Method: 3510C GC

Lab Number	Batch	Initial	Final	Date/Time
4080360-01	P4H0369	800 mL	10 mL	08/21/14 8:30

Prep Method: 3510C GC

Lab Number	Batch	Initial	Final	Date/Time
4080360-01	P4H0279	900 mL	10 mL	08/19/14 8:15

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
4080360-01	P4H0313	1000 mL	1 mL	08/19/14 13:05
4080360-02	P4H0313	650 mL	1 mL	08/19/14 13:05

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
4080360-01	P4H0393	50 mL	50 mL	08/22/14 8:45

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
4080360-01	P4H0355	20 mL	30 mL	08/20/14 10:45

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
4080360-01	P4H0368	10 mL	10 mL	08/20/14 10:51

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

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PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: 828 MLK Jr Blvd
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Jessica Hoglen / Josh Dunbar
Address: _____

Client Company Name: Falcon Engineering
Report To/Contact Name: Jessica Hoglen
Reporting Address: 1218 Trinity Road Raleigh NC
Phone: 919-781-7044 Fax (Yes) (No): _____
Email Address: jhoglen@falconengineers.com
EDD Type: PDF X Excel Other
Site Location Name: (828) Chapel Hill Police Dept
Site Location Physical Address: 828 MLK Jr Blvd Chapel Hill NC

Purchase Order No./Billing Reference E13047.07
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓	✓	
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: DAT-10 Observed: 3.1 °C / Corr: 1.6 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC____
SC____ OTHER_____ N/A_____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8270	Hex Chr	RCRA Metals	8081/8082	TCLP Volatiles	REMARKS	PRISM LAB ID NO.
Well 1	8/15/14	10:30a	GW		11			✓	✓	✓	✓	✓		01
MW4	8/15/14	2:00p	GW		2			✓				✓		02

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Sampler's Signature _____ Sampled By (Print Name) _____ Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	8/15/14	16:15
Relinquished By: (Signature)	Received By: (Signature)	8-18-14	1300
Relinquished By: (Signature) 8-18-14 1300	Received For Prism Laboratories By:	8-18-14	1700

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

❑ Fed Ex ❑ UPS ❑ Hand-delivered ❑ Prism Field Service ❑ Other _____

COC Group No. 4080360

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____	❑ NC ❑ SC ❑ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

09/05/2014

Falcon Engineering
Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Lab Submittal Date: 08/21/2014
Prism Work Order: 4080415

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash

VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash

President/Project Manager

Data Qualifiers Key Reference:

MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

09/05/2014

Prism Work Order: 4080415

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-4	4080415-01	Water	08/20/14	08/21/14
MW-3	4080415-02	Water	08/20/14	08/21/14
MW-4 - Unfiltered	4080415-03	Solid Material	08/20/14	08/21/14

Samples were received in good condition at 0.5 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 4080415-01
Prism Work Order: 4080415
Time Collected: 08/20/14 11:15
Time Submitted: 08/21/14 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Hexavalent Chromium	BRL	mg/L	0.010	0.0026	1	*SM3500-Cr B	8/21/14 10:20	MES	P4H0375
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	9/4/14 11:18	BGM	P4I0021
Arsenic	BRL	mg/L	0.010	0.0012	1	*6010C	8/27/14 21:00	BGM	P4H0393
Barium	**0.075**	**mg/L**	**0.010**	**0.0025**	**1**	***6010C**	**8/27/14 21:00**	**BGM**	**P4H0393**
Cadmium	BRL	mg/L	0.0010	0.000044	1	*6010C	8/27/14 21:00	BGM	P4H0393
Chromium	BRL	mg/L	0.0050	0.00038	1	*6010C	8/27/14 21:00	BGM	P4H0393
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	8/27/14 21:00	BGM	P4H0393
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	8/27/14 21:00	BGM	P4H0393
Silver	BRL	mg/L	0.0050	0.00024	1	*6010C	8/27/14 21:00	BGM	P4H0393

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Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 4080415-02
Prism Work Order: 4080415
Time Collected: 08/20/14 12:40
Time Submitted: 08/21/14 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Hexavalent Chromium	**0.023**	**mg/L**	**0.010**	**0.0026**	**1**	***SM3500-Cr B**	**8/21/14 10:20**	**MES**	**P4H0375**
Turbidity	**13**	**NTU**	**1.0**	**0.016**	**1**	***180.1**	**8/21/14 15:50**	**MES**	**P4H0394**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	9/4/14 11:26	BGM	P4I0021
Arsenic	BRL	mg/L	0.010	0.0012	1	*6010C	8/27/14 21:08	BGM	P4H0393
Barium	**0.22**	**mg/L**	**0.010**	**0.0025**	**1**	***6010C**	**8/27/14 21:08**	**BGM**	**P4H0393**
Cadmium	BRL	mg/L	0.0010	0.000044	1	*6010C	8/27/14 21:08	BGM	P4H0393
Chromium	BRL	mg/L	0.0050	0.00038	1	*6010C	8/27/14 21:08	BGM	P4H0393
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	8/27/14 21:08	BGM	P4H0393
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	8/27/14 21:08	BGM	P4H0393
Silver	BRL	mg/L	0.0050	0.00024	1	*6010C	8/27/14 21:08	BGM	P4H0393

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Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Sample Matrix: Solid Material

Client Sample ID: MW-4 - Unfiltered
Prism Sample ID: 4080415-03
Prism Work Order: 4080415
Time Collected: 08/20/14 11:15
Time Submitted: 08/21/14 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Arsenic	**1.2**	**mg/kg wet**	**0.25**	**0.037**	**1**	***6010C**	**9/4/14 19:00**	**BGM**	**P4I0056**
Barium	**45**	**mg/kg wet**	**0.49**	**0.025**	**1**	***6010C**	**9/2/14 22:11**	**BGM**	**P4H0474**
Cadmium	BRL	mg/kg wet	0.25	0.0024	1	*6010C	9/2/14 22:11	BGM	P4H0474
Chromium	**7.0**	**mg/kg wet**	**0.25**	**0.080**	**1**	***6010C**	**9/2/14 22:11**	**BGM**	**P4H0474**
Lead	**2.1**	**mg/kg**	**0.25**	**0.030**	**1**	***6010C**	**9/4/14 19:00**	**BGM**	**P4I0056**
Selenium	**0.97**	**mg/kg wet**	**0.51**	**0.061**	**1**	***6010C**	**9/4/14 19:00**	**BGM**	**P4I0056**
Silver	BRL	mg/kg wet	0.25	0.0040	1	*6010C	9/2/14 22:11	BGM	P4H0474

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Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080415
Time Submitted: 8/21/2014 8:20:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0393 - 3010A										
Blank (P4H0393-BLK1)				Prepared: 08/22/14 Analyzed: 08/27/14						
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P4H0393-BS1)				Prepared: 08/22/14 Analyzed: 08/27/14						
Arsenic	0.255	0.010	mg/L	0.2500		102	80-120			
Barium	0.259	0.010	mg/L	0.2500		104	80-120			
Cadmium	0.257	0.0010	mg/L	0.2500		103	80-120			
Chromium	0.256	0.0050	mg/L	0.2500		102	80-120			
Lead	0.257	0.0050	mg/L	0.2500		103	80-120			
Selenium	0.262	0.020	mg/L	0.2500		105	80-120			
Silver	0.105	0.0050	mg/L	0.1000		105	80-120			
Batch P4H0474 - 3050B										
Blank (P4H0474-BLK1)				Prepared: 08/27/14 Analyzed: 09/02/14						
Barium	BRL	0.50	mg/kg wet							
Cadmium	BRL	0.25	mg/kg wet							
Chromium	BRL	0.25	mg/kg wet							
Silver	BRL	0.25	mg/kg wet							
LCS (P4H0474-BS1)				Prepared: 08/27/14 Analyzed: 09/02/14						
Barium	20.2	0.50	mg/kg wet	25.00		81	80-120			
Cadmium	20.1	0.25	mg/kg wet	25.00		80	80-120			
Chromium	19.9	0.25	mg/kg wet	25.00		80	80-120			
Silver	8.38	0.25	mg/kg wet	10.00		84	80-120			

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080415
Time Submitted: 8/21/2014 8:20:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0474 - 3050B										
Post Spike (P4H0474-PS1)				Prepared: 08/27/14 Analyzed: 09/02/14						
Barium	2.50		mg/L	1.000		250	80-120			MI
Cadmium	0.657		mg/L	1.000		66	80-120			MI
Chromium	0.988		mg/L	1.000		99	80-120			MI
Silver	0.293		mg/L	0.4000		73	80-120			MI
Batch P4I0021 - 7470A										
Blank (P4I0021-BLK1)				Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	BRL	0.00020	mg/L							
LCS (P4I0021-BS1)				Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	0.00797	0.00020	mg/L	0.009375		85	80-120			
Matrix Spike (P4I0021-MS1)		**Source: 4080415-01**		Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	0.00488	0.00020	mg/L	0.009375	BRL	52	80-120			MI
Matrix Spike Dup (P4I0021-MSD1)		**Source: 4080415-01**		Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	0.00472	0.00020	mg/L	0.009375	BRL	50	80-120	3	20	MI
Batch P4I0056 - 3050B										
Blank (P4I0056-BLK1)				Prepared & Analyzed: 09/04/14						
Arsenic	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg							
Selenium	BRL	0.50	mg/kg wet							

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080415
Time Submitted: 8/21/2014 8:20:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0056 - 3050B										
LCS (P4I0056-BS1)				Prepared & Analyzed: 09/04/14						
Arsenic	24.6	0.25	mg/kg wet	25.00		98	80-120			
Lead	24.6	0.25	mg/kg	25.00		98	80-120			
Selenium	24.4	0.50	mg/kg wet	25.00		98	80-120			

Falcon Engineering
Attn: Josh Dunbar
1210 Trinity Road
Raleigh, NC 27607

Project: 828 Martin Luther King Jr Blvd.

Prism Work Order: 4080415
Time Submitted: 8/21/2014 8:20:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4H0375 - NO PREP										
Blank (P4H0375-BLK1)				Prepared & Analyzed: 08/21/14						
Hexavalent Chromium	BRL	0.010	mg/L							
LCS (P4H0375-BS1)				Prepared & Analyzed: 08/21/14						
Hexavalent Chromium	0.413	0.010	mg/L	0.4000		103	90-110			
Matrix Spike (P4H0375-MS1)		**Source: 4080415-02**		Prepared & Analyzed: 08/21/14						
Hexavalent Chromium	0.376	0.010	mg/L	0.4000	0.0227	88	85-115			
Matrix Spike Dup (P4H0375-MSD1)		**Source: 4080415-02**		Prepared & Analyzed: 08/21/14						
Hexavalent Chromium	0.366	0.010	mg/L	0.4000	0.0227	86	85-115	3	20	
Batch P4H0394 - NO PREP										
Blank (P4H0394-BLK1)				Prepared & Analyzed: 08/21/14						
Turbidity	BRL	0.40	NTU							
LCS (P4H0394-BS1)				Prepared & Analyzed: 08/21/14						
Turbidity	4.34	0.40	NTU	4.000		108	90-110			
Duplicate (P4H0394-DUP1)		**Source: 4080415-02**		Prepared & Analyzed: 08/21/14						
Turbidity	12.1	0.40	NTU		12.9			6	20	

Sample Extraction Data

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
4080415-01	P4H0393	50 mL	50 mL	08/22/14 8:45
4080415-02	P4H0393	50 mL	50 mL	08/22/14 8:45

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
4080415-03	P4I0056	1.98 g	50 mL	09/04/14 9:05
4080415-03	P4H0474	2.03 g	50 mL	08/27/14 9:05

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
4080415-01	P4I0021	20 mL	30 mL	09/03/14 12:00
4080415-02	P4I0021	20 mL	30 mL	09/03/14 12:00

CHAIN OF CUSTODY RECORD

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Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: 828 Martin Luther King Jr Blvd
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Josh Dunbar
Address: jdunbar@falconengineers.com
Purchase Order No./Billing Reference _____

Client Company Name: Falcon Engineering
Report To/Contact Name: Jessica Hoglen
Reporting Address: 1210 Trinity Road Raleigh NC
Phone: 919 740 1704 Fax (Yes) (No): _____
Email Address: jhoglen@falconengineers.com
EDD Type: PDF ✓ Excel Other _____
Site Location Name: E13047.07
Site Location Physical Address: 828 MLK Chapel Hill NC

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: DT-10 Observed: 2.0 °C / Corr: 0.5 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ DoD____ FL_____ NC_____
SC____ OTHER_____ N/A_____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: RCRA Metals	Hex Chr	Turbidity				REMARKS	PRISM LAB ID NO.
MW4	8/20	11:15a	GW	P	3		HNO_3	✓	✓					* For MW4, written up top for filtered, or unfiltered sample (on top of lid)	01
MW3	8/20	12:40p	GW	P	3			✓	✓	✓					02
														24 hr. Hold	

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) _____ Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	8/20/14	3:15p / 15:15p
Relinquished By: (Signature)	Received By: (Signature)	8/21/14	0750
Relinquished By: (Signature)	Received For Prism Laboratories By:	8/21/14	0820

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. 4080415

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

ATTACHMENT D | EXCERPTS FROM US EPA GUIDANCE

3 Groundwater Sampling Methods – Purging

3.1 General

Purging is the process of removing stagnant water from a well, immediately prior to sampling, causing its replacement by groundwater from the adjacent formation that is representative of actual aquifer conditions. In order to determine when a well has been adequately purged, field investigators should monitor, at a minimum, the pH, specific conductance and turbidity of the groundwater removed during purging and, in the case of permanent monitoring wells, observe and record the volume of water removed.

There are several purging strategies that may be used, depending on specific conditions encountered for given well sampling situations. When a specific well is characterized, based on the field investigators experience and knowledge, as having fairly typical water levels, depths and purge volumes, as determined according to the procedures in Section 3.2.1, below, SESD will normally use the multiple volume purging procedures and equipment described in Sections 3.2.1 and 3.3 of this procedure for purging the well.

When the traditional multiple volume purge method is considered and it is determined that excessive quantities of IDW would be generated using this method, it may be appropriate, under very limited and specific circumstances, to use an alternate method that reduces the time and amount of purge water to be removed prior to sampling the well. The field project leader will select the alternate method only after careful consideration of the conditions presented by the well and the impact these conditions have on all aspects of the sampling event (time required to sample, quantities of IDW requiring management, etc.).

The alternate purge procedures or sampling strategies available are the "Tubing-in-Screened Interval" method and the MicroPurge or No-Purge methods. These are described and discussed in Sections 3.2.2 and 4.5 of this operating procedure, respectively.

3.2 Purging Methods and Strategies

3.2.1 Traditional Multiple Volume Purge

3.2.1.1 Purging and Purge Adequacy

3.2.1.1.1 Purge Volume Determination

Prior to initiating the purge, the amount of water standing in the water column (water inside the well riser and screen) should be determined, if possible. To do this, the diameter of the well should be determined and the water level and total depth of the well should be measured and recorded. Specific methodology for obtaining these measurements is found in SESD Operating Procedure for Groundwater Level and Well Depth Measurement (SESDPROC-105).

Once this information is obtained, the volume of water to be purged can be determined using one of several methods. One is the equation:

$V = 0.041\ d^2h$

Where: h = depth of water in feet
d = diameter of well in inches
V = volume of water in gallons

Alternatively, the volume of standing water in the well and the volume of three water columns may be determined using a casing volume per foot factor for the appropriate diameter well, similar to that in Table 3.2.1. The water level is subtracted from the total depth, providing the length of the water column. This length is multiplied by the appropriate factor in the Table 3.2.1, corresponding to either the single well volume or the triple well volume, to determine both the single well volume and triple well volumes, in gallons, for the well in question. Other acceptable methods include the use of nomographs or other equations or formulae.

TABLE 3.2.1: WELL CASING DIAMETER VOLUME FACTORS

Casing Diameter (inches)	Gallons/ft, One Water Column	Gallons/ft, Three Water Columns
1	0.04	0.12
2	0.16	0.48
3	0.37	1.11
4	0.65	1.98
5	1.02	3.06
6	1.47	4.41
7	1.99	5.97
8	2.61	7.83
9	3.30	9.90
10	4.08	12.24
11	4.93	14.79
12	5.87	17.61

With respect to volume, an adequate purge is normally achieved when three to five well volumes have been removed. The field notes should reflect the single well volume calculations or determinations, according to one of the above methods, and a reference to the appropriate

multiplication of that volume, i.e., a minimum three well volumes, clearly identified as a purge volume goal.

3.2.1.1.2 Chemical Parameter Stabilization Criteria

With respect to the ground water chemistry, an adequate purge is achieved when the pH and specific conductance of the ground water have stabilized and the turbidity has either stabilized or is below 10 Nephelometric Turbidity Units (NTUs) (twice the Primary Drinking Water Standard of 5 NTUs). Although 10 NTUs is normally considered the minimum goal for most ground water sampling objectives, lower turbidity has been shown to be easily achievable in most situations and reasonable attempts should be made to achieve these lower levels. (Note: Because groundwater temperature is subject to rapid changes when collected for parameter measurement, its usefulness is subject to question for the purpose of determining parameter stability. As such, it has been removed from the list of parameters used for stability determination. Even though temperature is not used to determine stability during well purging, it is still advisable to record the sample temperature, along with the other groundwater chemistry parameters during well purging, as it may be needed to interpret other chemical parameter results in some situations.)

Stabilization occurs when, for at least three consecutive measurements, the pH remains constant within 0.1 Standard Unit (SU) and specific conductance varies no more than approximately 5 percent. Other parameters, such as dissolved oxygen (DO), may also be used as a purge adequacy parameter. Normal goals for DO are 0.2 mg/L or 10% saturation, whichever is greater. DO measurements must be conducted using either a flow-through cell or an over-topping cell to minimize or reduce any oxygenation of the sample during measurement. Oxidation Reduction Potential (ORP) should not be used as a purge stabilization parameter but may be measured during purging to obtain the measurement of record for ORP for the sampling event.

There are no set criteria for establishing how many total sets of measurements are adequate to document stability of parameters. If the calculated purge volume is small, the measurements should be taken frequently enough to provide a sufficient number of measurements to evaluate stability. If the purge volume is large, measurements taken every 15 minutes, for example, may be sufficient. See the SESD Operating Procedures for Field pH Measurement (SESDPROC-100), Field Specific Conductance Measurement (SESDPROC-101), Field Temperature Measurement (SESDPROC-102), Field Turbidity Measurement (SESDPROC-103), Field Measurement of Dissolved Oxygen (SESDPROC-106) and Field Measurement of Oxidation-Reduction Potential (SESDPROC-113) for procedures for conducting these measurements.

If, after three well volumes have been removed, the chemical parameters have not stabilized according to the above criteria, additional well volumes (up to five well volumes), should be removed. If the parameters have not stabilized within five volumes, it is at the discretion of the project leader whether or not to collect a sample or to continue purging. If, after five well volumes, pH and conductivity have stabilized and the turbidity is still decreasing and approaching an acceptable level, additional purging should be considered to obtain the best sample possible, with respect to turbidity. The conditions of sampling should be noted in the field log.

3.2.1.1.3 Purge Adequacy Considerations

In some situations, even with slow purge rates, a well may be pumped or bailed dry (evacuated). In these situations, this generally constitutes an adequate purge and the well can be sampled following sufficient recovery (enough volume to allow filling of all sample containers). ***It is not necessary that the well be evacuated three times before it is sampled***. The pH, specific conductance, temperature, and turbidity should be measured and recorded, during collection of the sample from the recovered volume, as the measurements of record for the sampling event.

For wells with slow recovery, attempts should be made to avoid purging them to dryness. This can be accomplished, for example, by slowing the purge rate. As water enters a well that has been purged to dryness, it may cascade down the sand pack and/or the well screen, stripping volatile organic constituents that may be present and/or introducing soil fines into the water column.

It is particularly important that wells be sampled as soon as possible after purging. If adequate volume is available immediately upon completion of purging, the well must be sampled immediately. If not, sampling should occur as soon as adequate volume has recovered. If possible, sampling of wells which have a slow recovery should be scheduled so that they can be purged and sampled in the same day, after adequate volume has recovered. Wells of this type should, unless it is unavoidable, not be purged at the end of one day and sampled the following day.

3.2.2 "Tubing-in-Screened-Interval" Method

The "Tubing-in-Screen" method, sometimes referred to as the "Low Flow" method, is used primarily when calculated purge volumes for the traditional purging method are excessive and present issues related to timely completion of the project and/or management of investigation derived waste.