Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 02, 2014

Chase Ertzberger
CTEH
5120 North Shore Drive
North Little Rock, AR 72118

RE: Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Dear Chase Ertzberger:
Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Scott Kluska, CTEH
CTEH Lab Results, CTEH
K. Scribner, CTEH
Mr. Robert Wilkinson, CTEH
gico@statoil.com, CTEH

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS65 **Lab ID: 30125991001** Collected: 07/28/14 10:20 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3050B							
Sodium	ND	mg/kg	490	1	07/30/14 10:52	07/31/14 13:00	7440-23-5	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 07/30/14 20:40 Initial pH: 9.28; Final pH: 6.29							
1,4-Dichlorobenzene	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:11	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:11	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:11	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:11	118-74-1	
Hexachloroethane	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:11	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 14:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 14:11		
Nitrobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:11	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 14:11	87-86-5	
Pyridine	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:11	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 14:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	52	%	35-114	1	07/31/14 16:15	08/01/14 14:11	4165-60-0	
2-Fluorobiphenyl (S)	47	%	43-116	1	07/31/14 16:15	08/01/14 14:11	321-60-8	
Terphenyl-d14 (S)	41	%	33-141	1	07/31/14 16:15	08/01/14 14:11	1718-51-0	
Phenol-d6 (S)	55	%	10-110	1	07/31/14 16:15	08/01/14 14:11	13127-88-3	
2-Fluorophenol (S)	57	%	21-110	1	07/31/14 16:15	08/01/14 14:11	367-12-4	
2,4,6-Tribromophenol (S)	56	%	10-123	1	07/31/14 16:15	08/01/14 14:11	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 07/31/14 23:15							
Benzene	ND	ug/L	50.0	1		08/01/14 23:19	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		08/01/14 23:19	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/01/14 23:19	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		08/01/14 23:19	108-90-7	
Chloroform	ND	ug/L	500	1		08/01/14 23:19	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/01/14 23:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/01/14 23:19	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/01/14 23:19	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/01/14 23:19	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		08/01/14 23:19	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		08/01/14 23:19	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		08/01/14 23:19	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		08/01/14 23:19	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.2**	%	0.10	1		07/31/14 22:34		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		07/30/14 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS65 **Lab ID: 30125991001** Collected: 07/28/14 10:20 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045C							
pH at 25 Degrees C	**7.9**	Std. Units	1.0	1		07/29/14 23:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/kg	0.75	1		07/31/14 21:39	57-12-5	
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	1.3	1		07/29/14 19:00		
735S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	12.5	1		07/29/14 19:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS66 **Lab ID: 30125991002** Collected: 07/28/14 10:30 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3050B							
Sodium	**1520**	mg/kg	777	1	07/30/14 10:52	07/31/14 13:02	7440-23-5	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 07/30/14 20:40 Initial pH: 9.01; Final pH: 6.83							
1,4-Dichlorobenzene	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:31	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:31	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:31	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:31	118-74-1	
Hexachloroethane	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:31	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 14:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 14:31		
Nitrobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:31	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 14:31	87-86-5	
Pyridine	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:31	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 14:31	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	35-114	1	07/31/14 16:15	08/01/14 14:31	4165-60-0	
2-Fluorobiphenyl (S)	44	%	43-116	1	07/31/14 16:15	08/01/14 14:31	321-60-8	
Terphenyl-d14 (S)	2	%	33-141	1	07/31/14 16:15	08/01/14 14:31	1718-51-0	S6
Phenol-d6 (S)	54	%	10-110	1	07/31/14 16:15	08/01/14 14:31	13127-88-3	
2-Fluorophenol (S)	55	%	21-110	1	07/31/14 16:15	08/01/14 14:31	367-12-4	
2,4,6-Tribromophenol (S)	41	%	10-123	1	07/31/14 16:15	08/01/14 14:31	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 07/31/14 23:15							
Benzene	ND	ug/L	50.0	1		08/01/14 23:44	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		08/01/14 23:44	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/01/14 23:44	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		08/01/14 23:44	108-90-7	
Chloroform	ND	ug/L	500	1		08/01/14 23:44	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/01/14 23:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/01/14 23:44	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/01/14 23:44	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/01/14 23:44	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		08/01/14 23:44	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		08/01/14 23:44	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		08/01/14 23:44	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		08/01/14 23:44	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**53.4**	%	0.10	1		07/31/14 22:36		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		07/30/14 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS66 **Lab ID: 30125991002** Collected: 07/28/14 10:30 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045C							
pH at 25 Degrees C	**8.7**	Std. Units	1.0	1		07/29/14 23:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/kg	1.3	1		07/31/14 21:43	57-12-5	
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	2.1	1		07/29/14 19:00		
735S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	21.4	1		07/29/14 19:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS67 **Lab ID: 30125991003** Collected: 07/28/14 10:45 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3050B							
Sodium	**698**	mg/kg	419	1	07/30/14 10:52	07/31/14 13:09	7440-23-5	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 07/30/14 20:40 Initial pH: 9.64; Final pH: 6.88							
1,4-Dichlorobenzene	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:51	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:51	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:51	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:51	118-74-1	
Hexachloroethane	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:51	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 14:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 14:51		
Nitrobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:51	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 14:51	87-86-5	
Pyridine	ND	ug/L	500	1	07/31/14 16:15	08/01/14 14:51	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 14:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	07/31/14 16:15	08/01/14 14:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	59	%	35-114	1	07/31/14 16:15	08/01/14 14:51	4165-60-0	
2-Fluorobiphenyl (S)	48	%	43-116	1	07/31/14 16:15	08/01/14 14:51	321-60-8	
Terphenyl-d14 (S)	44	%	33-141	1	07/31/14 16:15	08/01/14 14:51	1718-51-0	
Phenol-d6 (S)	62	%	10-110	1	07/31/14 16:15	08/01/14 14:51	13127-88-3	
2-Fluorophenol (S)	61	%	21-110	1	07/31/14 16:15	08/01/14 14:51	367-12-4	
2,4,6-Tribromophenol (S)	58	%	10-123	1	07/31/14 16:15	08/01/14 14:51	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 07/31/14 23:15							
Benzene	ND	ug/L	50.0	1		08/02/14 00:08	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		08/02/14 00:08	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/02/14 00:08	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		08/02/14 00:08	108-90-7	
Chloroform	ND	ug/L	500	1		08/02/14 00:08	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/02/14 00:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/02/14 00:08	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/02/14 00:08	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/02/14 00:08	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		08/02/14 00:08	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		08/02/14 00:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		08/02/14 00:08	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/02/14 00:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.9**	%	0.10	1		07/31/14 22:37		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		07/30/14 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS67 **Lab ID: 30125991003** Collected: 07/28/14 10:45 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045C							
pH at 25 Degrees C	**8.7**	Std. Units	1.0	1		07/29/14 23:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/kg	0.59	1		07/31/14 21:43	57-12-5	
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	1.1	1		07/29/14 19:00		
735S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	10.7	1		07/29/14 19:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS68 **Lab ID: 30125991004** Collected: 07/28/14 11:55 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3050B							
Sodium	**1180**	mg/kg	417	1	07/30/14 10:52	07/31/14 13:12	7440-23-5	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 07/30/14 20:40 Initial pH: 9.68; Final pH: 6.98							
1,4-Dichlorobenzene	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:11	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:11	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:11	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:11	118-74-1	
Hexachloroethane	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:11	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 15:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 15:11		
Nitrobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:11	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 15:11	87-86-5	
Pyridine	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:11	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 15:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	61	%	35-114	1	07/31/14 16:15	08/01/14 15:11	4165-60-0	
2-Fluorobiphenyl (S)	50	%	43-116	1	07/31/14 16:15	08/01/14 15:11	321-60-8	
Terphenyl-d14 (S)	41	%	33-141	1	07/31/14 16:15	08/01/14 15:11	1718-51-0	
Phenol-d6 (S)	65	%	10-110	1	07/31/14 16:15	08/01/14 15:11	13127-88-3	
2-Fluorophenol (S)	66	%	21-110	1	07/31/14 16:15	08/01/14 15:11	367-12-4	
2,4,6-Tribromophenol (S)	64	%	10-123	1	07/31/14 16:15	08/01/14 15:11	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 07/31/14 23:15							
Benzene	ND	ug/L	50.0	1		08/02/14 00:33	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		08/02/14 00:33	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/02/14 00:33	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		08/02/14 00:33	108-90-7	
Chloroform	ND	ug/L	500	1		08/02/14 00:33	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/02/14 00:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/02/14 00:33	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/02/14 00:33	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/02/14 00:33	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		08/02/14 00:33	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		08/02/14 00:33	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		08/02/14 00:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		08/02/14 00:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.4**	%	0.10	1		07/31/14 22:38		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		07/30/14 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS68 **Lab ID: 30125991004** Collected: 07/28/14 11:55 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045C							
pH at 25 Degrees C	**9.1**	Std. Units	1.0	1		07/29/14 23:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**1.4**	mg/kg	0.54	1		07/31/14 21:46	57-12-5	
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	1.1	1		07/31/14 22:21		
735S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	11.2	1		07/31/14 15:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS69 **Lab ID: 30125991005** Collected: 07/28/14 12:10 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3050B							
Sodium	ND	mg/kg	357	1	07/30/14 10:52	07/31/14 13:15	7440-23-5	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 07/30/14 20:40 Initial pH: 9.35; Final pH: 6.82							
1,4-Dichlorobenzene	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:31	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:31	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:31	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:31	118-74-1	
Hexachloroethane	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:31	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 15:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 15:31		
Nitrobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:31	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 15:31	87-86-5	
Pyridine	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:31	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 15:31	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%	35-114	1	07/31/14 16:15	08/01/14 15:31	4165-60-0	
2-Fluorobiphenyl (S)	60	%	43-116	1	07/31/14 16:15	08/01/14 15:31	321-60-8	
Terphenyl-d14 (S)	46	%	33-141	1	07/31/14 16:15	08/01/14 15:31	1718-51-0	
Phenol-d6 (S)	75	%	10-110	1	07/31/14 16:15	08/01/14 15:31	13127-88-3	
2-Fluorophenol (S)	75	%	21-110	1	07/31/14 16:15	08/01/14 15:31	367-12-4	
2,4,6-Tribromophenol (S)	74	%	10-123	1	07/31/14 16:15	08/01/14 15:31	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 07/31/14 23:15							
Benzene	ND	ug/L	50.0	1		08/02/14 00:57	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		08/02/14 00:57	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/02/14 00:57	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		08/02/14 00:57	108-90-7	
Chloroform	ND	ug/L	500	1		08/02/14 00:57	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/02/14 00:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/02/14 00:57	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/02/14 00:57	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/02/14 00:57	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		08/02/14 00:57	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		08/02/14 00:57	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		08/02/14 00:57	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		08/02/14 00:57	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.1**	%	0.10	1		07/31/14 22:40		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		07/30/14 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS69 **Lab ID: 30125991005** Collected: 07/28/14 12:10 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045C							
pH at 25 Degrees C	**8.2**	Std. Units	1.0	1		07/29/14 23:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/kg	0.52	1		07/31/14 21:46	57-12-5	
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	1.0	1		07/31/14 22:21		
735S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	10.4	1		07/31/14 15:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS70 **Lab ID: 30125991006** Collected: 07/28/14 12:20 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3050B							
Sodium	ND	mg/kg	467	1	07/30/14 10:52	07/31/14 13:17	7440-23-5	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 07/30/14 20:40 Initial pH: 9.18; Final pH: 6.67							
1,4-Dichlorobenzene	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:51	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:51	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:51	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:51	118-74-1	
Hexachloroethane	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:51	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 15:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	07/31/14 16:15	08/01/14 15:51		
Nitrobenzene	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:51	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 15:51	87-86-5	
Pyridine	ND	ug/L	500	1	07/31/14 16:15	08/01/14 15:51	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	07/31/14 16:15	08/01/14 15:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	07/31/14 16:15	08/01/14 15:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62	%	35-114	1	07/31/14 16:15	08/01/14 15:51	4165-60-0	
2-Fluorobiphenyl (S)	52	%	43-116	1	07/31/14 16:15	08/01/14 15:51	321-60-8	
Terphenyl-d14 (S)	26	%	33-141	1	07/31/14 16:15	08/01/14 15:51	1718-51-0	S6
Phenol-d6 (S)	64	%	10-110	1	07/31/14 16:15	08/01/14 15:51	13127-88-3	
2-Fluorophenol (S)	65	%	21-110	1	07/31/14 16:15	08/01/14 15:51	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-123	1	07/31/14 16:15	08/01/14 15:51	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 07/31/14 23:15							
Benzene	ND	ug/L	50.0	1		08/02/14 01:21	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		08/02/14 01:21	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/02/14 01:21	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		08/02/14 01:21	108-90-7	
Chloroform	ND	ug/L	500	1		08/02/14 01:21	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/02/14 01:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/02/14 01:21	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/02/14 01:21	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/02/14 01:21	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		08/02/14 01:21	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		08/02/14 01:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		08/02/14 01:21	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/02/14 01:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.9**	%	0.10	1		07/31/14 22:40		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		07/30/14 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Sample: HAOH0728SS70 **Lab ID: 30125991006** Collected: 07/28/14 12:20 Received: 07/29/14 13:34 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045C							
pH at 25 Degrees C	**8.4**	Std. Units	1.0	1		07/29/14 23:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/kg	0.59	1		07/31/14 21:51	57-12-5	
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	1.2	1		07/31/14 22:24		
735S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	12.3	1		07/31/14 15:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: MPRP/13539 Analysis Method: EPA 6010B
QC Batch Method: EPA 3050B Analysis Description: 6010 MET
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

METHOD BLANK: 766361 Matrix: Solid
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sodium	mg/kg	ND	500	07/31/14 12:10	

LABORATORY CONTROL SAMPLE: 766362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/kg	500	485J	97	80-120	

MATRIX SPIKE SAMPLE: 766364

Parameter	Units	30125882001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	mg/kg	ND	449	366J	70	75-125	

SAMPLE DUPLICATE: 766363

Parameter	Units	30125882001 Result	Dup Result	RPD	Qualifiers
Sodium	mg/kg	ND	59.8J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: MSV/20520 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

METHOD BLANK: 767954 Matrix: Water
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	08/01/14 22:55	
1,2-Dichloroethane	ug/L	ND	50.0	08/01/14 22:55	
2-Butanone (MEK)	ug/L	ND	5000	08/01/14 22:55	
Benzene	ug/L	ND	50.0	08/01/14 22:55	
Carbon tetrachloride	ug/L	ND	50.0	08/01/14 22:55	
Chlorobenzene	ug/L	ND	1000	08/01/14 22:55	
Chloroform	ug/L	ND	500	08/01/14 22:55	
Tetrachloroethene	ug/L	ND	50.0	08/01/14 22:55	
Trichloroethene	ug/L	ND	50.0	08/01/14 22:55	
Vinyl chloride	ug/L	ND	50.0	08/01/14 22:55	
1,2-Dichloroethane-d4 (S)	%	104	70-130	08/01/14 22:55	
4-Bromofluorobenzene (S)	%	99	70-130	08/01/14 22:55	
Toluene-d8 (S)	%	103	70-130	08/01/14 22:55	

LABORATORY CONTROL SAMPLE: 767955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	182	91	57-127	
1,2-Dichloroethane	ug/L	200	178	89	62-125	
2-Butanone (MEK)	ug/L	200	197J	98	48-136	
Benzene	ug/L	200	168	84	66-122	
Carbon tetrachloride	ug/L	200	182	91	55-126	
Chlorobenzene	ug/L	200	166J	83	70-121	
Chloroform	ug/L	200	172J	86	62-126	
Tetrachloroethene	ug/L	200	170	85	62-125	
Trichloroethene	ug/L	200	164	82	62-125	
Vinyl chloride	ug/L	200	192	96	52-145	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: OEXT/20222 Analysis Method: EPA 8270C
QC Batch Method: EPA 3535A Analysis Description: 8270 TCLP MSSV
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

METHOD BLANK: 767370 Matrix: Water
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	08/01/14 09:29	
2,4,5-Trichlorophenol	ug/L	ND	5000	08/01/14 09:29	
2,4,6-Trichlorophenol	ug/L	ND	100	08/01/14 09:29	
2,4-Dinitrotoluene	ug/L	ND	100	08/01/14 09:29	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	08/01/14 09:29	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	08/01/14 09:29	
Hexachloro-1,3-butadiene	ug/L	ND	100	08/01/14 09:29	
Hexachlorobenzene	ug/L	ND	100	08/01/14 09:29	
Hexachloroethane	ug/L	ND	500	08/01/14 09:29	
Nitrobenzene	ug/L	ND	100	08/01/14 09:29	
Pentachlorophenol	ug/L	ND	5000	08/01/14 09:29	
Pyridine	ug/L	ND	500	08/01/14 09:29	
2,4,6-Tribromophenol (S)	%	86	10-123	08/01/14 09:29	
2-Fluorobiphenyl (S)	%	76	43-116	08/01/14 09:29	
2-Fluorophenol (S)	%	88	21-110	08/01/14 09:29	
Nitrobenzene-d5 (S)	%	81	35-114	08/01/14 09:29	
Phenol-d6 (S)	%	86	10-110	08/01/14 09:29	
Terphenyl-d14 (S)	%	49	33-141	08/01/14 09:29	

METHOD BLANK: 767374 Matrix: Water
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	08/01/14 12:50	
2,4,5-Trichlorophenol	ug/L	ND	5000	08/01/14 12:50	
2,4,6-Trichlorophenol	ug/L	ND	100	08/01/14 12:50	
2,4-Dinitrotoluene	ug/L	ND	100	08/01/14 12:50	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	08/01/14 12:50	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	08/01/14 12:50	
Hexachloro-1,3-butadiene	ug/L	ND	100	08/01/14 12:50	
Hexachlorobenzene	ug/L	ND	100	08/01/14 12:50	
Hexachloroethane	ug/L	ND	500	08/01/14 12:50	
Nitrobenzene	ug/L	ND	100	08/01/14 12:50	
Pentachlorophenol	ug/L	ND	5000	08/01/14 12:50	
Pyridine	ug/L	ND	500	08/01/14 12:50	
2,4,6-Tribromophenol (S)	%	86	10-123	08/01/14 12:50	
2-Fluorobiphenyl (S)	%	68	43-116	08/01/14 12:50	
2-Fluorophenol (S)	%	90	21-110	08/01/14 12:50	
Nitrobenzene-d5 (S)	%	81	35-114	08/01/14 12:50	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

METHOD BLANK: 767374 Matrix: Water
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenol-d6 (S)	%	91	10-110	08/01/14 12:50	
Terphenyl-d14 (S)	%	55	33-141	08/01/14 12:50	

LABORATORY CONTROL SAMPLE: 767371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	298J	60	25-108	
2,4,5-Trichlorophenol	ug/L	500	426J	85	49-130	
2,4,6-Trichlorophenol	ug/L	500	409	82	49-133	
2,4-Dinitrotoluene	ug/L	500	380	76	31-135	
2-Methylphenol(o-Cresol)	ug/L	500	406J	81	42-132	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	842J	84	42-132	
Hexachloro-1,3-butadiene	ug/L	500	268	54	19-107	
Hexachlorobenzene	ug/L	500	260	52	21-105	
Hexachloroethane	ug/L	500	286J	57	21-105	
Nitrobenzene	ug/L	500	411	82	38-142	
Pentachlorophenol	ug/L	500	401J	80	32-139	
Pyridine	ug/L	500	85.1J	17	10-61	
2,4,6-Tribromophenol (S)	%			80	10-123	
2-Fluorobiphenyl (S)	%			65	43-116	
2-Fluorophenol (S)	%			80	21-110	
Nitrobenzene-d5 (S)	%			77	35-114	
Phenol-d6 (S)	%			77	10-110	
Terphenyl-d14 (S)	%			47	33-141	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 767372 767373

Parameter	Units	30125967001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	500	500	343J	303J	69	61	25-108		
2,4,5-Trichlorophenol	ug/L	ND	500	500	425J	354J	85	71	49-130		
2,4,6-Trichlorophenol	ug/L	ND	500	500	410	332	82	66	49-133	21	
2,4-Dinitrotoluene	ug/L	ND	500	500	393	320	79	64	31-135	20	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	420J	353J	84	71	42-132		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	875J	716J	88	72	42-132		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	306	281	61	56	19-107	9	
Hexachlorobenzene	ug/L	ND	500	500	222	190	44	38	21-105	15	
Hexachloroethane	ug/L	ND	500	500	335J	288J	67	58	21-105		
Nitrobenzene	ug/L	ND	500	500	400	343	80	69	38-142	15	
Pentachlorophenol	ug/L	ND	500	500	409J	341J	82	68	32-139		
Pyridine	ug/L	ND	500	500	230J	188J	46	38	10-61		
2,4,6-Tribromophenol (S)	%						82	64	10-123		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 767372 767373

Parameter	Units	30125967001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2-Fluorobiphenyl (S)	%						73	60	43-116		
2-Fluorophenol (S)	%						81	66	21-110		
Nitrobenzene-d5 (S)	%						79	61	35-114		
Phenol-d6 (S)	%						79	63	10-110		
Terphenyl-d14 (S)	%						43	34	33-141		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: PMST/4699 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

SAMPLE DUPLICATE: 767509

Parameter	Units	30125991001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.2	22.3	10	

SAMPLE DUPLICATE: 767510

Parameter	Units	30126093015 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	27.3	25.0	9	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WET/24535 Analysis Method: EPA 1010
QC Batch Method: EPA 1010 Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

METHOD BLANK: 766683 Matrix: Water
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Flashpoint	deg F	>200	60.0	07/30/14 17:00	

SAMPLE DUPLICATE: 766684

Parameter	Units	30125197001 Result	Dup Result	RPD	Qualifiers
Flashpoint	deg F	121	121.2		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WET/24515 Analysis Method: EPA 9045C
QC Batch Method: EPA 9045C Analysis Description: 9045 pH
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

SAMPLE DUPLICATE: 766169

Parameter	Units	30125991006 Result	Dup Result	RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.4	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WETA/17330 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

METHOD BLANK: 767046 Matrix: Solid
Associated Lab Samples: 30125991001, 30125991002, 30125991003, 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/kg	ND	0.57	07/31/14 21:38	

LABORATORY CONTROL SAMPLE: 767047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	5.7	5.8	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 767048 767049

Parameter	Units	30125991001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	mg/kg	ND	3	3.8	2.9	3.6	84	86	90-110	22	M2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WETA/17295 Analysis Method: SW-846 7.3.3.2
QC Batch Method: SW-846 7.3.3.2 Analysis Description: 733C Reactive Cyanide
Associated Lab Samples: 30125991001, 30125991002, 30125991003

METHOD BLANK: 765971 Matrix: Solid
Associated Lab Samples: 30125991001, 30125991002, 30125991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	0.99	07/29/14 19:00	

SAMPLE DUPLICATE: 765972

Parameter	Units	30125629001 Result	Dup Result	RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WETA/17329 Analysis Method: SW-846 7.3.3.2
QC Batch Method: SW-846 7.3.3.2 Analysis Description: 733C Reactive Cyanide
Associated Lab Samples: 30125991004, 30125991005, 30125991006

METHOD BLANK: 767044 Matrix: Solid
Associated Lab Samples: 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	1.0	07/31/14 22:13	

SAMPLE DUPLICATE: 767045

Parameter	Units	30126142001 Result	Dup Result	RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WETA/17296 Analysis Method: SW-846 7.3.4.2
QC Batch Method: SW-846 7.3.4.2 Analysis Description: 734S Reactive Sulfide
Associated Lab Samples: 30125991001, 30125991002, 30125991003

METHOD BLANK: 765975 Matrix: Solid
Associated Lab Samples: 30125991001, 30125991002, 30125991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	9.9	07/29/14 19:00	

SAMPLE DUPLICATE: 765976

Parameter	Units	30125629001 Result	Dup Result	RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

QC Batch: WETA/17328 Analysis Method: SW-846 7.3.4.2
QC Batch Method: SW-846 7.3.4.2 Analysis Description: 734S Reactive Sulfide
Associated Lab Samples: 30125991004, 30125991005, 30125991006

METHOD BLANK: 767042 Matrix: Solid
Associated Lab Samples: 30125991004, 30125991005, 30125991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	10	07/31/14 15:00	

SAMPLE DUPLICATE: 767043

Parameter	Units	30126142001 Result	Dup Result	RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/20520

[1] A matrix spike/matrix spike duplicate was not performed for this batch.

ANALYTE QUALIFIERS

M2 Matrix spike recovery was below QC limits due to sample dilution. Data acceptance based on laboratory control sample (LCS) recovery.

S6 Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30125991001	**HAOH0728SS65**	EPA 3050B	MPRP/13539	EPA 6010B	ICP/12837
30125991002	**HAOH0728SS66**	EPA 3050B	MPRP/13539	EPA 6010B	ICP/12837
30125991003	**HAOH0728SS67**	EPA 3050B	MPRP/13539	EPA 6010B	ICP/12837
30125991004	**HAOH0728SS68**	EPA 3050B	MPRP/13539	EPA 6010B	ICP/12837
30125991005	**HAOH0728SS69**	EPA 3050B	MPRP/13539	EPA 6010B	ICP/12837
30125991006	**HAOH0728SS70**	EPA 3050B	MPRP/13539	EPA 6010B	ICP/12837
30125991001	**HAOH0728SS65**	EPA 3535A	OEXT/20222	EPA 8270C	MSSV/6619
30125991002	**HAOH0728SS66**	EPA 3535A	OEXT/20222	EPA 8270C	MSSV/6619
30125991003	**HAOH0728SS67**	EPA 3535A	OEXT/20222	EPA 8270C	MSSV/6619
30125991004	**HAOH0728SS68**	EPA 3535A	OEXT/20222	EPA 8270C	MSSV/6619
30125991005	**HAOH0728SS69**	EPA 3535A	OEXT/20222	EPA 8270C	MSSV/6619
30125991006	**HAOH0728SS70**	EPA 3535A	OEXT/20222	EPA 8270C	MSSV/6619
30125991001	**HAOH0728SS65**	EPA 8260B	MSV/20520		
30125991002	**HAOH0728SS66**	EPA 8260B	MSV/20520		
30125991003	**HAOH0728SS67**	EPA 8260B	MSV/20520		
30125991004	**HAOH0728SS68**	EPA 8260B	MSV/20520		
30125991005	**HAOH0728SS69**	EPA 8260B	MSV/20520		
30125991006	**HAOH0728SS70**	EPA 8260B	MSV/20520		
30125991001	**HAOH0728SS65**	ASTM D2974-87	PMST/4699		
30125991002	**HAOH0728SS66**	ASTM D2974-87	PMST/4699		
30125991003	**HAOH0728SS67**	ASTM D2974-87	PMST/4699		
30125991004	**HAOH0728SS68**	ASTM D2974-87	PMST/4699		
30125991005	**HAOH0728SS69**	ASTM D2974-87	PMST/4699		
30125991006	**HAOH0728SS70**	ASTM D2974-87	PMST/4699		
30125991001	**HAOH0728SS65**	EPA 1010	WET/24535		
30125991002	**HAOH0728SS66**	EPA 1010	WET/24535		
30125991003	**HAOH0728SS67**	EPA 1010	WET/24535		
30125991004	**HAOH0728SS68**	EPA 1010	WET/24535		
30125991005	**HAOH0728SS69**	EPA 1010	WET/24535		
30125991006	**HAOH0728SS70**	EPA 1010	WET/24535		
30125991001	**HAOH0728SS65**	EPA 9045C	WET/24515		
30125991002	**HAOH0728SS66**	EPA 9045C	WET/24515		
30125991003	**HAOH0728SS67**	EPA 9045C	WET/24515		
30125991004	**HAOH0728SS68**	EPA 9045C	WET/24515		
30125991005	**HAOH0728SS69**	EPA 9045C	WET/24515		
30125991006	**HAOH0728SS70**	EPA 9045C	WET/24515		
30125991001	**HAOH0728SS65**	SM 4500-CN-E	WETA/17330		
30125991002	**HAOH0728SS66**	SM 4500-CN-E	WETA/17330		
30125991003	**HAOH0728SS67**	SM 4500-CN-E	WETA/17330		
30125991004	**HAOH0728SS68**	SM 4500-CN-E	WETA/17330		
30125991005	**HAOH0728SS69**	SM 4500-CN-E	WETA/17330		
30125991006	**HAOH0728SS70**	SM 4500-CN-E	WETA/17330		
30125991001	**HAOH0728SS65**	SW-846 7.3.3.2	WETA/17295		
30125991002	**HAOH0728SS66**	SW-846 7.3.3.2	WETA/17295		
30125991003	**HAOH0728SS67**	SW-846 7.3.3.2	WETA/17295		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 106393 Statoil @ Hannibal, OH
Pace Project No.: 30125991

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30125991004	**HAOH0728SS68**	SW-846 7.3.3.2	WETA/17329		
30125991005	**HAOH0728SS69**	SW-846 7.3.3.2	WETA/17329		
30125991006	**HAOH0728SS70**	SW-846 7.3.3.2	WETA/17329		
30125991001	**HAOH0728SS65**	SW-846 7.3.4.2	WETA/17296		
30125991002	**HAOH0728SS66**	SW-846 7.3.4.2	WETA/17296		
30125991003	**HAOH0728SS67**	SW-846 7.3.4.2	WETA/17296		
30125991004	**HAOH0728SS68**	SW-846 7.3.4.2	WETA/17328		
30125991005	**HAOH0728SS69**	SW-846 7.3.4.2	WETA/17328		
30125991006	**HAOH0728SS70**	SW-846 7.3.4.2	WETA/17328		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4

1846227

Section A Required Client Information:

Company: CTEH
Address: 5120 North Shore Dr
North Little Rock, Ar 72118
Email To: labresults@cteh.com
Phone: Fax:
Requested Due Date/TAT: 24 hr

Section B Required Project Information:

Report To: Robert Wilkinson
Copy To: Chase Entzinger
Purchase Order No.:
Project Name: Hannibal, OH 106393
Project Number:

Section C Invoice Information:

Attention: Accounts Rec.
Company Name: CTEH
Address: 5120 North Shore Dr
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: Ohio

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	TCLP VOCs	TCLP SVOCs	TCLP	Reactivity	Sodium	Cyanide	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAOH 0728 SS65	SL	G			7/28/14	1020		4	4									X	X	X	X	X	X		001
2	HAOH 0728 SS66	SL	G			7/28/14	1030		4	4									X	X	X	X	X	X		002
3	HAOH 0728 SS67	SL	G			7/28/14	1045		4	4									X	X	X	X	X	X		003
4	HAOH 0728 SS68	SL	G			7/28/14	1155		4	4									X	X	X	X	X	X		004
5	HAOH 0728 SS69	SL	G			7/28/14	1210		4	4									X	X	X	X	X	X		005
6	HAOH 0728 SS70	SL	G			7/28/14	1220		4	4									X	X	X	X	X	X		006
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Robert Wilkinson CTEH	7/29/14	0855		7/29	0858	
		7/29/14	0957	PACE	7/29	958	
	PACE	7/29/14	1150	PACE	7/29	1150	
	PACE	7/29/14	1334		7-29-14	1334	4.2 Y Y Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Robert Wilkinson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/28/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

EPA-R5-2017-003770_0000422

Sample Condition Upon Receipt

Pace Analytical

Client Name: CTEH

Project # 30125991

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no **Biological Tissue is Frozen:** Yes No

Packing Material: Bubble Wrap ____ Bubble Bags ____ None ____ Other ziploc

Thermometer Used 7 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 4.3 °C **Correction Factor:** -0.1 °C **Final Temp:** 4.2 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AML 7-29-14

		Comments:
Chain of Custody Present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time Requested:	☑ Yes ☐ No ☐ N/A	7.
Sufficient Volume:	☑ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☑ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☑ Yes ☐ No ☐ N/A	
Containers Intact:	☑ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☑ N/A	11.
Sample Labels match COC:	☑ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☑ No	Initial when completed AML / Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☑ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☑ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☑ N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 7/30/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30125991

Client Name: CTEH

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	SL	4																						
006	SL	4																						

SCURF Back (C016-4 15May2012).xls

EPA-R5-2017-003770_0000422