



August 14, 2014

NC Division of Emergency Management
3802 Highway 58 North, Suite B
Kingston, NC 28502
Attention: Dianne Curtis
Certified Mail 7013 2250 0002 2114 9106

**Subject: Follow Up Report on (p) - Xylene Incident - August 11, 2014
FHR Recovery Sump Release Environmental Response Project - Release Reporting
(NRC Report No. 1091948)**

Dear Mrs. Curtis:

This letter serves as a written notification regarding the release of stormwater and groundwater with (p)-xylene constituents that occurred at the Carolina Marine Terminal Wilmington Site (CMT) at some point during August 9-11, 2014. The release was first discovered at approximately 8:30am on August 11th. The estimated time of release occurred between Saturday, August 9 and Monday, August 11, 2014. Personnel were not in the area of the sump between approximately 3:00pm on Thursday, August 7th and 8:30am on Monday, August the 11th. However, there was no rainfall on either Thursday or Friday, so it is assumed that the release did not occur until rainfall began infiltrating the sump on Saturday such that it overflowed at some point over the weekend.

A review of the incident indicated that approximately 21 pounds of (p)-xylene may have been released as a vapor over a 46-hour period. The reportable quantity for (p)-xylene is 100 pounds, so the reportable quantity was not reached. As such, FHR requests that the initial notification be rescinded. Further discussion of how the emissions were estimated is provided in this report.

The release occurred from the overflow of a mixture of groundwater containing (p)-xylene constituents and stormwater from a Flint Hills Resources, LLP ("FHR") groundwater recovery sump on the CMT property into one of the catch basins associated with CMT's stormwater collection system. CMT's stormwater collection system consists of a series of catch basins that are connected by underground piping that discharge into a permitted stormwater detention pond. The location of the sump and the stormwater detention pond are shown on the attached figure. The pond, in turn, discharges to the Cape Fear River via a CMT permitted outfall. The overflow of stormwater and groundwater was contained by shutting valves that allowed groundwater from four horizontal wells to flow into the sump at 01:00p.m. on August 11th.

Page 1 of 6

Analytical samples were collected from the sump, the CMT stormwater detention pond, and the CMT permitted outfall. The results indicate (p)-xylene in the sample from water in the sump at a concentration of 29,700 parts per billion (ppb). This concentration was used to estimate the amount of (p)-xylene released from the stormwater/groundwater mixture by assuming all (p)-xylene in the water was released. The water from the center of the stormwater detention pond had a concentration of 95.1 ppb and the discharge at the CMT outfall had a concentration of 85.6 ppb. The North Carolina surface water standard for xylenes in the area of the project site is 370 ppb.

Cause(s) of the Release: Summary

The cause of the release was related to elevated groundwater levels and a heavy rainfall over the weekend. The pump on the sump was also shut off Thursday (8/7/14) for maintenance that was scheduled to be completed on Monday 8/11/14. There was heavy rainfall in the area over the weekend, and the groundwater elevation rose above the sump, causing groundwater to flow into the sump at an estimated maximum rate of 30gpm. The water that overflowed from the sump is assumed to be a mixture of stormwater and groundwater that had accumulated in the area.

To prevent releases in the future, the following actions will be taken:

- When it is anticipated that the groundwater elevation will rise above the sump elevation based on groundwater level measurements, periods of heavy or frequent rainfall, or visual observations of water accumulating in the spring at the CMT property, the frequency of inspection of the sump will be increased (at a minimum, daily).
- If the level of water in the sump does not stabilize, and the level rises above two feet below the top of the sump, the valve to shutoff flow from the horizontal wells will be closed to prevent additional groundwater flow from entering the sump and allowing the water level in the sump to stabilize or decrease with pumping.

As indicated by the notification summary table provided below, an initial release notification was made to the NRC on August 11, 2014. At the time of the NRC notification, the quantity released could not be determined. Based on additional information and reviews by process engineers, the released amount of (p)-xylene within a 24-hour period was estimated to be 11 pounds. The released amount over the approximate duration of 46 hours is estimated to be 21 pounds. This estimate was based on:

- The concentration of (p)-xylene detected in the sample collected from the sump.
- Flow rates based on historical observations during periods when the groundwater level rose to similar levels (30gpm). This value was greater than estimates from visual observations during the release (10gpm).
- The time from when the rain event began on Saturday, August 9th to when the valve for the horizontal wells was closed, preventing flow into the sump.

Based on the conservative assumptions made to arrive at this estimate, the estimate represents the reasonable worst-case scenario.

40 CFR 355.40 (b)(1)-(3) Notice Requirements

355.40 (b)(1) The owner or operator of a facility subject to this section shall immediately notify the

community emergency coordinator for the local emergency planning committee of any area likely to be affected by the release and the State emergency response commission of any State likely to be affected by the release:

As summarized in the table below, the facility reported the release to:

| Agency Contacted | Date | Approximate Time |
|--|-----------|---|
| NRC - Incident Report #: 1091948 | 8/11/2014 | 12:48pm |
| LEPC (New Hanover County Emergency Management) | 8/11/2014 | Initial voicemail: 2:20pm Additional voicemail: 3:00pm |
| SERC (NC Division of Emergency Mgmt.) | 8/11/2014 | 2:25pm |
| US Coast Guard | 8/11/2014 | 1:07pm |
| U.S. EPA | 8/11/2014 | 1:01pm |
| NC DENR - IHSB | 8/13/2014 | 7:41am |

355.40(b)(2) The notice required under this section shall include the following to the extent known at the time of notice and so long as no delay in notice or emergency response results.

355.40(b)(2)(i) The chemical name or identity of any substance involved in the release:

| Name | CAS Number | Hazard Class |
|--------------|------------|------------------|
| (p) - Xylene | 106-42-3 | Flammable liquid |

355.40(b)(2)(ii) An indication of whether the substance is an extremely hazardous substance:

(p) - Xylene is not an extremely hazardous substance under 40 CFR Part 355, Appendix A or B.

355.40(b)(2)(iii) An estimate of the quantity of any such substance that was released into the environment:

An amount could not be provided in the NRC notification. Additional review of data and calculations indicated that the released quantity was approximately 11 pounds of p-xylene in a 24-hour period.

355.40 (b)(2)(iv) The time and duration of the release:

| | |
|---|-------------------------------------|
| Date: | See below |
| Approximate Start Time: | 02:53p.m. – 08/09/14 ⁽¹⁾ |
| Approximate Discovery Time: | 08:30a.m. – 08/11/14 |
| Approximate End Time: | 01:00p.m. – 08/11/14 ⁽²⁾ |
| Approximate Duration: | 46 hours |
| ⁽¹⁾ Based on when rain event began according to www.wunderground.com. The last time the sump was inspected prior to discovery time was 08/07/2014 at approximately 03:00pm. However, there was no rainfall between the last inspection and the time listed above (according to www.nws.noaa.gov), so it is unlikely that the groundwater level rose above the sump until after this time and groundwater/stormwater started infiltrating the sump. | |
| ⁽²⁾ At this time, groundwater flow into the sump stopped by shutting off a valve that feeds into the sump from the horizontal groundwater recovery wells. | |

355.40 (b)(2)(v) The medium or media into which the release occurred:

Atmosphere (air), Water.

355.40 (b)(2)(vi) Any known or anticipated acute or chronic health risks associated with the emergency and, where appropriate, advice regarding medical attention necessary for exposed individuals:

No known or anticipated acute or chronic health risks were associated with the release.

355.40 (b)(2)(vii) Proper precautions to take as a result of the release, including evacuation:

The release did not warrant any such precautions.

355.40 (b)(2)(viii) The names and telephone number of the person or persons to be contacted for further information:

| | |
|-------------------|--|
| Name: | Barry Kelly |
| Title: | Environmental Engineer |
| Address: | 4111 E 37th Street N Wichita, KS 67101 |
| Telephone: | (316) 828-7954 |

355.40 (b)(3) As soon as practicable after a release which requires notice under (b)(1) of this section, such owner or operator shall provide a written follow-up emergency notice (or notices, as more information becomes available) setting forth and updating the information required under paragraph (b)(2) of this section, and including additional information with respect to:

355.40 (b)(3)(i) Actions taken to respond to and contain the release:

Groundwater flow into the sump was stopped by shutting off a valve that feeds into the sump from the horizontal groundwater recovery wells at 1:00pm on August 11, 2014.

355.40 (b)(3)(ii) Any known or anticipated acute or chronic health risks associated with the release:

No known or anticipated acute or chronic health risks were associated with the release.

355.40 (b)(3)(iii) Where appropriate, advice regarding medical attention necessary for exposed individuals:

Not Applicable. The MSDS for xylene is available upon request.

Should you have any questions, please call me at (316) 828-7954. Thank you.

Sincerely,



Barry Kelley
Lead Environmental Engineer
Flint Hills Resources, LP

Attachments:

Analytical Data Report # 31401245

Area Map

cc:

Mr. Warren Lee
New Hanover County Emergency Management
Local Emergency Planning Committee
230 Market Place Drive
Suite 115
Wilmington, North Carolina 28403
Certified Mail: 7013 2250 0002 2114 9113

NCDENR – DAQ
127 Cardinal Drive Extension
Wilmington, NC 28405
Certified Mail: 7013 2250 0002 2114 9120

Ken Rhame
US EPA - Region IV
Atlanta Federal Center
61 Forsyth Street, S. W.
Atlanta, GA 30303 - 8960
Certified Mail 7013 2630 0002 0141 1782

Franklin J. Spedoske II
John Booth
USCG Sector N. Carolina
721 Medical Center Drive
Wilmington, NC 28401
Certified Mail 7013 2630 0002 0141 1799

Sue Robbins
NCDENR - IHSB
Wilmington Regional Office
127 Cardinal Dr. Ext.
Wilmington, NC 28405
Certified Mail 7013 2250 0002 2114 9045



NORTH CAROLINA STATE
PORT AUTHORITY

SHIPYARD BL

NCSPA

STORMWATER
COLLECTION
POINT

PX FACILITY

CHEMSERVE
NORTH TERMINAL

GAS/FUEL
FACILITY

FHR-WTP

CAPE FEAR RIVER

APEX

APEX

STORMWATER
POND

RECOVERY
SUMP

CAROLINA
MARINE
TERMINAL

CAROLINA
MARINE
TERMINAL

RIVER ROAD

CHEMSERVE
SOUTH TERMINAL

CHEMSERVE
SOUTH TERMINAL



Laboratory Report of Analysis

To: Jeff Becken
RICHARD CATLIN & ASSOCIATES
P.O. Box 10280
Wilmington, NC 28404

Report Number: **31401245**

Client Project: **CMT Pipeline 205064**

Dear Jeff Becken,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
DN: CN = Michael Page C = US O = SGS North America
Date: 2014.08.12 12:46:32 -04'00'

Michael D. Page
Project Manager
michael.page@sgs.com

Date

Laboratory Qualifiers

Report Definitions

| | |
|--------|--|
| DL | Method, Instrument, or Estimated Detection Limit per Analytical Method |
| CL | Control Limits for the recovery result of a parameter |
| LOQ | Reporting Limit |
| DF | Dilution Factor |
| RPD | Relative Percent Difference |
| LCS(D) | Laboratory Control Spike (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| MB | Method Blank |

Qualifier Definitions

| | |
|-----|---|
| * | Recovery or RPD outside of control limits |
| B | Analyte was detected in the Lab Method Blank at a level above the LOQ |
| U | Undetected (Reported as ND or < DL) |
| J | Estimated Concentration. |
| E | Amount detected is greater than the Upper Calibration Limit |
| TIC | Tentatively Identified Compound |
| ND | Not Detected |
| P | RPD > 40% between results of dual columns |
| D | Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range |

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

| | |
|----|--|
| M1 | Mis-identified peak |
| M2 | Software did not integrate peak |
| M3 | Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one) |
| M4 | Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane) |
| M5 | Other - Explained in case narrative |

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.



Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|------------------|---------------|
| 1 CMT Sump | 31401245001 | 08/11/2014 14:45 | 08/11/2014 16:15 | Water |
| 3 CMT Pond Outfall | 31401245002 | 08/11/2014 15:30 | 08/11/2014 16:15 | Water |
| 2 CMT Pond | 31401245003 | 08/11/2014 15:45 | 08/11/2014 16:15 | Water |

Detectable Results Summary

Client Sample ID: **1 CMT Sump**
 Lab Sample ID: 31401245001-A
SW-846 8260B

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| m,p-Xylene | 29700 | ug/L |

Client Sample ID: **3 CMT Pond Outfall**
 Lab Sample ID: 31401245002-A
SW-846 8260B

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| m,p-Xylene | 95.1 | ug/L |

Client Sample ID: **2 CMT Pond**
 Lab Sample ID: 31401245003-A
SW-846 8260B

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| m,p-Xylene | 85.6 | ug/L |

2L
 Xylenes 500 ug/L



Results of 1 CMT Sump

Client Sample ID: 1 CMT Sump
Client Project ID: CMT Pipeline 205064
Lab Sample ID: 31401245001-A
Lab Project ID: 31401245

Collection Date: 08/11/2014 14:45
Received Date: 08/11/2014 16:15
Matrix: Water

Results by SW-846 8260B

| Parameter | Result | Qual | DL | LOQ/CL | Units | DF | Date Analyzed |
|------------|--------|------|-----|--------|-------|------|------------------|
| m,p-Xylene | 29700 | | 224 | 4000 | ug/L | 2000 | 08/11/2014 21:41 |

Surrogates

| | | | | | | | |
|-----------------------|-----|--|--|----------|---|------|------------------|
| 1,2-Dichloroethane-d4 | 106 | | | 64.0-140 | % | 2000 | 08/11/2014 21:41 |
| 4-Bromofluorobenzene | 108 | | | 85.0-115 | % | 2000 | 08/11/2014 21:41 |
| Toluene d8 | 116 | | | 82.0-117 | % | 2000 | 08/11/2014 21:41 |

Batch Information

Method: SW-846 8260B
Date: 08/11/2014 21:41
Operator: [illegible]

Method: SW-846 8260B
Date: 08/11/2014 21:41
Operator: [illegible]



Results of 3 CMT Pond Outfall

Client Sample ID: **3 CMT Pond Outfall**
Client Project ID: **CMT Pipeline 205064**
Lab Sample ID: 31401245002-A
Lab Project ID: 31401245

Collection Date: 08/11/2014 15:30
Received Date: 08/11/2014 16:15
Matrix: Water

Results by SW-846 8260B

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| m,p-Xylene | 95.1 | | 0.560 | 10.0 | ug/L | 5 | 08/11/2014 21:16 |

Surrogates

| | | | | | | | |
|-----------------------|-----|--|--|----------|---|---|------------------|
| 1,2-Dichloroethane-d4 | 103 | | | 64.0-140 | % | 5 | 08/11/2014 21:16 |
| 4-Bromofluorobenzene | 107 | | | 85.0-115 | % | 5 | 08/11/2014 21:16 |
| Toluene d8 | 114 | | | 82.0-117 | % | 5 | 08/11/2014 21:16 |

Batch Information

Sample ID: 31401245002-A
Sample Name: 3 CMT Pond Outfall
Sample Matrix: Water
Sample Date: 08/11/2014

Sample ID: 31401245002-A
Sample Name: 3 CMT Pond Outfall
Sample Matrix: Water
Sample Date: 08/11/2014



Results of 2 CMT Pond

Client Sample ID: 2 CMT Pond
Client Project ID: CMT Pipeline 205064
Lab Sample ID: 31401245003-A
Lab Project ID: 31401245

Collection Date: 08/11/2014 15:45
Received Date: 08/11/2014 16:15
Matrix: Water

Results by SW-846 8260B

| Parameter | Result | Qual | DL | LOQ/CL | Units | DF | Date Analyzed |
|------------|--------|------|-------|--------|-------|----|------------------|
| m,p-Xylene | 85.6 | | 0.560 | 10.0 | ug/L | 5 | 08/11/2014 20:51 |

Surrogates

| | | | | | | | |
|-----------------------|-----|--|--|----------|---|---|------------------|
| 1,2-Dichloroethane-d4 | 106 | | | 64.0-140 | % | 5 | 08/11/2014 20:51 |
| 4-Bromofluorobenzene | 107 | | | 85.0-115 | % | 5 | 08/11/2014 20:51 |
| Toluene d8 | 117 | | | 82.0-117 | % | 5 | 08/11/2014 20:51 |

Batch Information

Sample ID: 31401245003-A
Sample Name: CMT Pipeline 205064
Sample Type: Water
Sample Date: 08/11/2014

Sample ID: 31401245003-A
Sample Name: CMT Pipeline 205064
Sample Type: Water
Sample Date: 08/11/2014



Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5030B

Prep Batch: VXX5161

Prep Date: 08/11/2014 13:40

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Analysis Date</u> | <u>Analytical Batch</u> | <u>Instrument</u> | <u>Analyst</u> |
|-------------------------------|----------------------|----------------------|-------------------------|-------------------|----------------|
| LCS for HBN 46466 [VXX/5161] | 143246 | 08/11/2014 15:00 | VMS3319 | MSD9 | JHL |
| LCSD for HBN 46466 [VXX/5161] | 143247 | 08/11/2014 15:25 | VMS3319 | MSD9 | JHL |
| MB for HBN 46466 [VXX/5161] | 143248 | 08/11/2014 16:16 | VMS3319 | MSD9 | JHL |
| 2 CMT Pond | 31401245003 | 08/11/2014 20:51 | VMS3319 | MSD9 | JHL |
| 3 CMT Pond Outfall | 31401245002 | 08/11/2014 21:16 | VMS3319 | MSD9 | JHL |
| 1 CMT Sump | 31401245001 | 08/11/2014 21:41 | VMS3319 | MSD9 | JHL |
| 1 CMT Sump(143276MS) | 143309 | 08/11/2014 22:07 | VMS3319 | MSD9 | JHL |
| 1 CMT Sump(143276MSD) | 143310 | 08/11/2014 22:32 | VMS3319 | MSD9 | JHL |



Method Blank

Blank ID: MB for HBN 46466 [VXX/5161]
Blank Lab ID: 143248
QC for Samples:
31401245001, 31401245002, 31401245003

Matrix: Water

Results by **SW-846 8260B**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> |
|-----------------------|---------------|-------------|-----------|---------------|--------------|-----------|
| m,p-Xylene | ND | U | 0.112 | 2.00 | ug/L | 1 |
| Surrogates | | | | | | |
| 1,2-Dichloroethane-d4 | 102 | | | 64.0-140 | % | 1 |
| Toluene d8 | 114 | | | 82.0-117 | % | 1 |
| 4-Bromofluorobenzene | 107 | | | 85.0-115 | % | 1 |

Batch Information

Method: SW-846 8260B
Blank ID: MB for HBN 46466 [VXX/5161]
Blank Lab ID: 143248
QC for Samples:
31401245001, 31401245002, 31401245003

Matrix: Water
Sample ID: HBN 46466 [VXX/5161]
Sample Lab ID: 143248
QC for Samples:
31401245001, 31401245002, 31401245003



Blank Spike Summary

Blank Spike ID: LCS for HBN 46466 [VXX/5161]
Blank Spike Lab ID: 143246
Date Analyzed: 08/11/2014 15:00

Spike Duplicate ID: LCSD for HBN 46466 [VXX/5161]
Spike Duplicate Lab ID: 143247
Date Analyzed: 08/11/2014 15:25
Matrix: Water

QC for Samples: 31401245001, 31401245002, 31401245003

Results by **SW-846 8260B**

| Parameter | Blank Spike (ug/L) | | Spike Duplicate (ug/L) | | RPD (%) |
|------------|--------------------|---------|------------------------|---------|---------|
| | Conc | Rec (%) | Conc | Rec (%) | |
| m,p-Xylene | 100 | 87 | 100 | 99 | 14 |

Surrogates

| | | | | | |
|-----------------------|-----|-----|-----|-----|--|
| 1,2-Dichloroethane-d4 | 106 | 106 | 100 | 100 | |
| Toluene d8 | 114 | 115 | 101 | 101 | |
| 4-Bromofluorobenzene | 107 | 108 | 101 | 101 | |

Batch Information

Method: SW-846
Matrix: Water
Sample ID: 31401245001
Sample Name: LCS for HBN 46466 [VXX/5161]

Method: SW-846
Matrix: Water
Sample ID: 31401245002
Sample Name: LCSD for HBN 46466 [VXX/5161]



Matrix Spike Summary

Original Sample ID: 31401245001 (1 CMT Sump)
 MS Sample ID: 143309
 MSD Sample ID: 143310

Analysis Date: 08/11/2014 21:41
 Analysis Date: 08/11/2014 22:07
 Analysis Date: 08/11/2014 22:32
 Matrix: Water

QC for Samples: 31401245001, 31401245002, 31401245003

Results by SW-846 8260B

| Parameter | Sample | Matrix Spike (ug/L) | | Spike Duplicate (ug/L) | | RPD (%) |
|-----------------------|--------|---------------------|---------|------------------------|---------|---------|
| | | Conc | Rec (%) | Conc | Rec (%) | |
| m,p-Xylene | 29700 | 105 | 82 | 108 | 72 * | 4.2 |
| Surrogates | | | | | | |
| 1,2-Dichloroethane-d4 | | | 105 | 108 | | |
| 4-Bromofluorobenzene | | | 109 | 108 | | |
| Toluene d8 | | | 114 | 117 | | |

Batch Information

Lab: 31401245001
 Sample ID: SW-846 8260B
 Sample Name: 143309
 Sample Date: 08/11/2014

Lab: 31401245002
 Sample ID: SW-846 8260B
 Sample Name: 143310
 Sample Date: 08/11/2014
 Sample Location: 143310



CHAIN OF CUSTODY | CONVENTIONAL & SHALE

PROJECT INFO:PROJECT: *CMT Pipeline 205064*PO #: ~~205064~~ *140811-3*

QUOTE #:

SITE REF:

TURN AROUND TIME: *24hr*REPORT LEVEL: (see reverse) Level I Level II Level IVSPECIAL DELIVERABLES: State of Origin: EDD: Other:**SEND DOCUMENTATION / RESULTS TO:**COMPANY: *Catlin Eng*CONTACT: *Jeff Becken*

ADDRESS:

PHONE: *910-452-5861*EMAIL: *jeff.becken@catlinusa.com***INVOICE TO:** (CHECK IF SAME)COMPANY: *Catlin* CONTACT: *Sheila Smith*ADDRESS: *220 Old Dairy Rd*

PHONE:

EMAIL: *jeff.becken@catlinusa.com***SPECIAL INSTRUCTIONS / COMMENTS:***31401245*

| LAB ID | SAMPLE ID / DESCRIPTION | DATE | TIME | QC | | | TYPE (C, G) | MATRIX | CONT. QTY | PRESERVATIVE | | | | | | | | | | REMARKS | | |
|---|-------------------------|------------------------|-------------------|--|-----|-----|-------------|---|-----------|----------------------|-------------------|--|--|--|--|--|--|--|--|---------|--|--------------------|
| | | | | MS | MSD | DUP | | | | HCL | | | | | | | | | | | | |
| <i>1</i> | <i>CMT Sump</i> | <i>8/11</i> | <i>1445</i> | | | | <i>G</i> | <i>W</i> | <i>3</i> | <i>8260</i> | <i>Xylenes</i> | | | | | | | | | | | <i>only report</i> |
| <i>33</i> | <i>CMT Pond Outfall</i> | <i>8/11</i> | <i>1530</i> | | | | <i>G</i> | <i>W</i> | <i>3</i> | <i>8260</i> | <i>Xylenes</i> | | | | | | | | | | | <i>m/p</i> |
| <i>2</i> | <i>CMT Pond</i> | <i>8/11</i> | <i>1545</i> | | | | <i>G</i> | <i>W</i> | <i>3</i> | <i>8260</i> | <i>Xylenes</i> | | | | | | | | | | | <i>Xylenes</i> |
| COLLECTED/RELINQUISHED BY (1): <i>[Signature]</i> | | DATE: <i>11 Aug 14</i> | TIME: <i>1545</i> | RECEIVED BY: <i>Michael D. Pearson</i> | | | | RECEIVED BY LABORATORY: <i>Amco Lab</i> | | DATE: <i>8/11/14</i> | TIME: <i>4:15</i> | COC SEAL: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> ABSENT | | | | | | | | | | |
| RELINQUISHED BY (2): <i>Michael D. Pearson</i> | | DATE: <i>8/11/14</i> | TIME: | RECEIVED BY: | | | | SAMPLE RECEIPT TEMP: °C <i>11° Coming down to temp.</i> | | CARRIER: | | TRACKING #: | | | | | | | | | | |
| NOTES: | | | | | | | | | | | | | | | | | | | | | | |

Page 12 of 13

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Richard & Catlin Associates Work Order No.: 31401245

1. Shipped
 Hand Delivered
2. COC Present on Receipt
 No COC
 Additional Transmittal Forms
3. Custody Tape on Container
 No Custody Tape
4. Samples Intact
 Samples Broken / Leaking
5. Chilled on Receipt Actual Temp.(s) in °C: 11.0 Thermometer ID#: 98465
 Ambient on Receipt
 Walk-in on Ice; Coming down to temp.
 Temperature Blank Present
6. Sufficient Sample Submitted
 Insufficient Sample Submitted
7. Chlorine absent
 HNO3 < 2
 HCL < 2
 Additional Preservatives verified (see notes)
8. Received Within Holding Time
 Not Received Within Holding Time
9. No Discrepancies Noted
 Discrepancies Noted
 NCDENR notified of Discrepancies*
10. No Headspace present in VOC vials
 Headspace present in VOC vials >6mm

Notes: _____

Comments: _____

Inspected and Logged in by: Amalie Walker
Date: 8/11/2014